



# AM 4 Digital

## Heating Magnetic Stirrer

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Precision, Ease-of-Use and Versatility in Four Independent Positions



# Multi-position Hot Plate Stirrer

- Four independent positions able to stir from 50 to 1500 rpm, up to 20L each
- The 135 mm diameter CerAlTop™ plates ensure an optimum temperature homogeneity and superior resistance from chemicals and scratches
- Precise thermoregulation of the medium with Pt100/Pt1000 probe (±1.0 °C) and VTF Digital Thermoregulator (±0.5 °C)
- Hot Surface safety message displayed when the temperature is above 50 °C
- Brushless motor ensuring power and resistance over time
- Designed for the longest lifespan and guaranteed by 3 years warranty with online product registration



## INSTRUMENT - CODE

AM 4 Digital	230 V / 50-60 Hz	F20500600
AM 4 Digital System with temperature probe, Rod and clamp	230 V / 50-60 Hz	SA20500600

## TECHNICAL DATA

USER INTERFACE	Digital
HOUSING MATERIAL	Epoxy painted aluminum structure
NUMBER OF POSITIONS	Four positions
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)
PLATE DIAMETER	135 mm
STIRRING VOLUME	20 L
STIRRING SPEED RANGE	50 - 1500 rpm
SPEED CONTROL	Digital
MOTOR	Brushless
TORQUE COMPENSATION	SpeedServo™
TEMPERATURE RANGE	Room temp - 310 °C
HEATING CONTROL	Digital
TEMPERATURE SETTING RESOLUTION	1 °C
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100; Pt1000; VTF
THERMOREGULATION ACCURACY	± 0.5 °C (VTF); ± 1.0 °C (Pt100, Pt1000)
HOT PLATE WARNING SYSTEM	On display (when the temperature is above 50 °C)
POWER INPUT	2550 W
WEIGHT	5,8 kg (12.8 lb)
DIMENSIONS (WXHxD)	715x90x270 mm (28.1x3.5x10.6 in)



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission



### DESIGNED AND MANUFACTURED IN ITALY

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# AM 4

## Heating Magnetic Stirrer

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Robust four-position hot plate stirrer designed for safety, powerful stirring, and excellent heating



# Multi-position Hot Plate Stirrer

- Four independent positions able to stir up to 1500 rpm, up to 15 L each
- The 135 mm diameter aluminum alloy top plates ensure great temperature homogeneity and optimum heat transfer across the entire surface
- Four illuminated indicators always inform the operator when heating is on and temperature above 50°C
- Brushless motor ensuring power and resistance over time
- Designed for the longest lifespan and guaranteed by 3 years warranty with online product registration



## INSTRUMENT - CODE

AM 4

230 V / 50-60 Hz

F20500590

## TECHNICAL DATA

USER INTERFACE	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure
NUMBER OF POSITIONS	Four positions
PLATE MATERIAL	Aluminum alloy
PLATE DIAMETER	135 mm
STIRRING VOLUME	15 L
STIRRING SPEED RANGE	100 - 1500 rpm
SPEED CONTROL	Analog
MOTOR	Brushless
TORQUE COMPENSATION	SpeedServo™
TEMPERATURE RANGE	Room temp - 310 °C
HEATING CONTROL	Analog
HOT PLATE WARNING SYSTEM	Illuminated Icons (when the temperature is above 50 °C)
POWER INPUT	2550 W
WEIGHT	5,8 kg (12.8 lb)
DIMENSIONS (WXHxD)	715x90x270 mm (28.1x3.5x10.6 in)



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# AMI Series

## Magnetic Stirrers

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Single-position or 4-position illuminated magnetic stirrer,  
particularly indicated for titrations



# Resistant and Easy-to-use

Illuminated magnetic stirrer particularly useful for titrations. The illuminated surface facilitates the visualization of particles and color changes. It guarantees excellent speed control (electronic), even at low speed.

- Speed regulation up to 1100 rpm
- Excellent electronic speed control, even at low speed
- 4-position model provides independent speed regulation
- Possibility to adjust the illumination brightness



## INSTRUMENT - CODE

AMI	100-240 V / 50-60 Hz	F204A0167
AMI 4	100-240 V / 50-60 Hz	F204A0168

## TECHNICAL DATA

	AMI	AMI 4
CONSTRUCTION MATERIAL	Epoxy painted metal structure	Epoxy painted metal structure
MODELS	Single-position	4-position
STIRRING VOLUME	up to 5 L	up to 5 L
DISTANCE BETWEEN STIRRING POSITION CENTRES	-	150 mm
ELECTRONIC SPEED REGULATION	Up to 1100 rpm	Up to 1100 rpm
SPEED CONTROL	Excellent speed control even at low revolutions	Excellent speed control even at low revolutions
STIRRING SYSTEM	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation
DIMENSION (WXHxD)	150x55x270 mm (5.9x2.2x10.6 in)	600x55x270 mm (23.6x2.2x10.6 in)
POWER	1.2 W	4.8 W
WEIGHT	1.2 Kg (2.6 lb)	4.0 Kg (8.8 lb)



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# ARE/AREX 5 Series

## Heating Magnetic Stirrers

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Best-selling hotplate stirrers ensuring powerful heating and stirring from basic applications to precise thermoregulations



# AREX 5 Digital

The AREX 5 Digital is designed for accurate thermoregulation offering outstanding stirring and heating performance, enhanced safety features and ease-of-use. The connection with the external temperature probe Pt100 and Pt1000 and with the digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE AND RESISTANT

- The internal electronic parts are protected by the insulating disk to resist even to the most challenging environments and applications.
- Hot Surface safety message displayed when the temperature is above 50 °C.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in many industrial and academic laboratories.
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1.0$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature up to 310 °C.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time.
- Stirs up to 20 l from 50 to 1500 rpm.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.



## CONFIGURATIONS



AREX 5 Digital



AREX 5 Digital System  
with Probe



AREX 5 Digital System  
with Probe, Rod and Clamp



AREX 5 Digital System  
with VTF and Rod

# AREX 5

The AREX 5 is a robust and versatile hotplate stirrer suitable for applications ranging from basic to temperature-sensitive where precise sample thermoregulation is required.

## DURABLE, SAFE AND POWERFUL

- Upgradable to digital with VTF ensuring temperature accuracy of  $\pm 0.5^{\circ}\text{C}$ .
- Insulating disk to protect internal parts.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 20 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



AREX 5

AREX 5 System  
with VTF and Rod

## CONFIGURATIONS



# ARE 5

The ARE 5 is the entry-level hotplate stirrer that has become a reference for many laboratories around the world ranging from university, research centers to industrial.

## RELIABLE AND ROBUST

- Insulating disk to protect internal parts.
- The 135 mm diameter aluminum alloy top plate ensures a great temperature homogeneity and optimum heat transfer across the entire surface.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 15 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



ARE 5

## CONFIGURATIONS















# Improve your productivity

## ALUBLOCK™

The MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.












											
A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS

* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346















## OPTIONAL ACCESSORIES





Support rod	A00001069
Extension for support rod	A00000382
Clamp for the probe	A00000280
Handle for AluBlock removal	A00000351

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00001062</b> Magnetic stir bar Ø3x6mm
				
<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm	<b>A00001061</b> Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

			
<b>A00000458</b> Pt1000 Temperature Probe AISI 316 Ti Ø3 mm	<b>A00000268</b> Pt100 Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Pt100 Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 5 Digital	AREX 5	ARE 5
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500580 F20510580	F20500570 F20510570	F20500560 F20510560
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500580 SA20510580	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500580 SC20510580	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500580 SB20510580	SA20500570 SA20510570	- -

# TECHNICAL DATA

	AREX 5 DIGITAL	AREX 5	ARE 5
USER INTERFACE	Digital	Analog	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure	Epoxy painted aluminum structure	Epoxy painted aluminum structure
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	15 L
STIRRING SPEED RANGE	50 - 1500 rpm	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog	Analog
MOTOR	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C
HEATING CONTROL	Digital	Analog	Analog
TEMPERATURE SETTING RESOLUTION	1°C	-	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 Pt1000 VTF	VTF	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)
PROTECTION CLASS	IP 42	IP 42	IP 42
POWER INPUT	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)
DIMENSIONS (WxHxD)	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



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# ARE/AREX 6 Series

## Heating Magnetic Stirrers

Superior Performance & Absolute Safety



# AREX 6 Connect PRO

The AREX 6 Connect PRO is the first hot plate stirrer with embedded Wi-Fi technology to monitor and control your reactions through VELP Ermes cloud platform.

## ABSOLUTE SAFETY

The safety standards of the AREX 6 Series meet the potential of cloud-based services giving the possibility to control the instrument remotely and interrupt the operations with a click.

## YOUR HOT PLATE STIRRER IN REAL TIME

With the AREX 6 Connect PRO is possible to monitor in real time the reactions and the instrument working conditions from any device (PC, Tablet and Smartphone) and to be informed with immediate notifications (dashboard and email).

## DATA MANAGEMENT

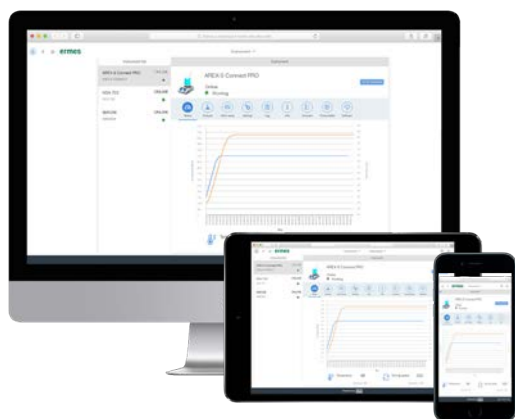
Safely access to your data with different clearance levels, create and share reports with your peers in many different file format.

## GET ALWAYS THE BEST FEATURES

The AREX 6 Connect PRO receives OTA (Over-the-Air) Software updates to get new features and enhancement in order to achieve the maximum lifespan.

## EASY AND SMART

The connection to VELP Ermes Cloud Platform is easy and safe and it takes only few minutes to benefit of the cloud-based potential and the smart user experience of the platform.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



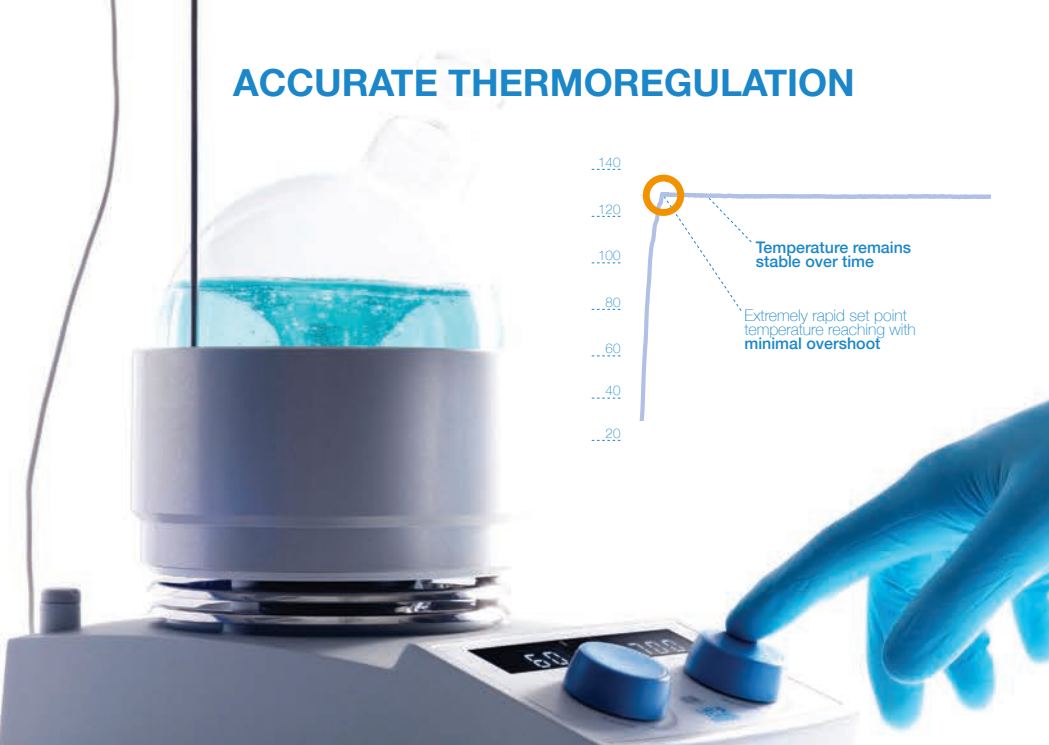
AREX 6 Connect PRO System  
with Probe



AREX 6 Connect PRO System  
with Probe, Rod and Clamp



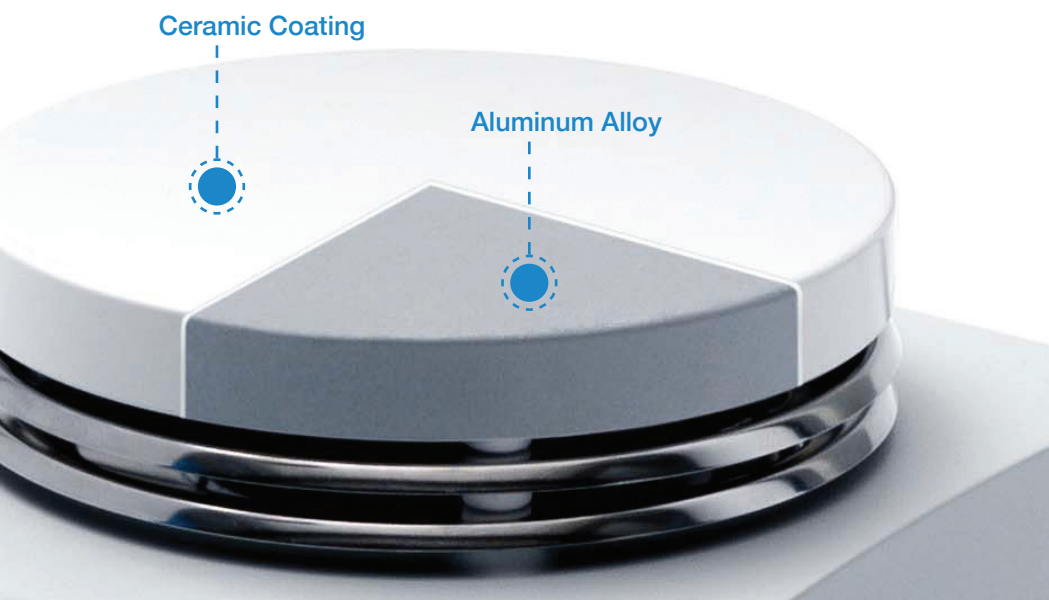
## ACCURATE THERMOREGULATION



## SPEEDSERVO™



## CERALTOP™



## PROTECTION



## SAFETY



## PRODUCTIVITY



# AREX 6 Digital PRO

The AREX 6 Digital PRO is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The connection with the external temperature probe Pt100 and digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE HEATING CONTROL

Two independent temperature safety circuits switch off the heating in case of overtemperature.

## ADVANCED THERMOREGULATION

Fast, precise and stable temperature control with minimal overshoot. Excellent heat transfer with CerAlTop™ plate. Able to reach a maximum temperature of 370°C.

## POWERFUL MAGNET

The Alnico magnet provides leading magnetic coupling and guarantees superior peripheral stirring. Maximum speed of 1700 rpm, SpeedServo™ torque compensation.

## UNATTENDED OPERATIONS

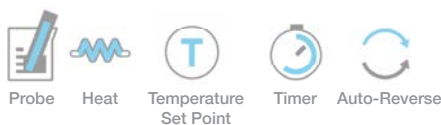
The built-in timer switches the main function off after the set running time.

## ENHANCED KINETICS

The Auto-Reverse of stirring direction is a key feature for improving mixing effectiveness.

## SMART USER INTERFACE

The new icons and display ensure a clear readout of the working conditions and warning messages such as "HOT".



## CONFIGURATIONS



AREX 6 Digital PRO System  
with Probe



AREX 6 Digital PRO System  
with Probe, Rod and Clamp



AREX 6 Digital PRO System  
with VTF and Rod



# AREX 6

The AREX 6 is the safe and powerful analog hot plate stirrer with CerAlTop™ plate guaranteeing excellent heat transfer and resistance to chemicals. The powerful motor and Alnico magnet stir up to 20 liters at a maximum speed of 1700 rpm.

## UPGRADE TO DIGITAL

For superior performance you can upgrade the AREX 6 by connecting one of the VELP Digital Thermoregulator VTF:

- Direct temperature control of the sample with 0.5°C accuracy.



AREX 6

AREX 6 System  
With VTF and Rod

## CONFIGURATIONS

### Safety Heating Switch



# ARE 6

The ARE 6 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ARE 6 incorporates high level features such as the Alnico magnet with top class magnetic coupling and SpeedServo™ torque compensation.

## BASIC HIGH PERFORMANCE SOLUTION

The aluminum alloy top plate offers optimum heat transfer and chemical resistance.

The independent luminous safety switch prevents unintentional heating and indicates when heating is On.

The heating icon illuminates when the plate temperature is above 50°C acting as a HOT TOP warning system.



ARE 6

## CONFIGURATIONS

### Safety Heating Switch















# Improve your productivity

## ALUBLOCK™

The new MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.



											
A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

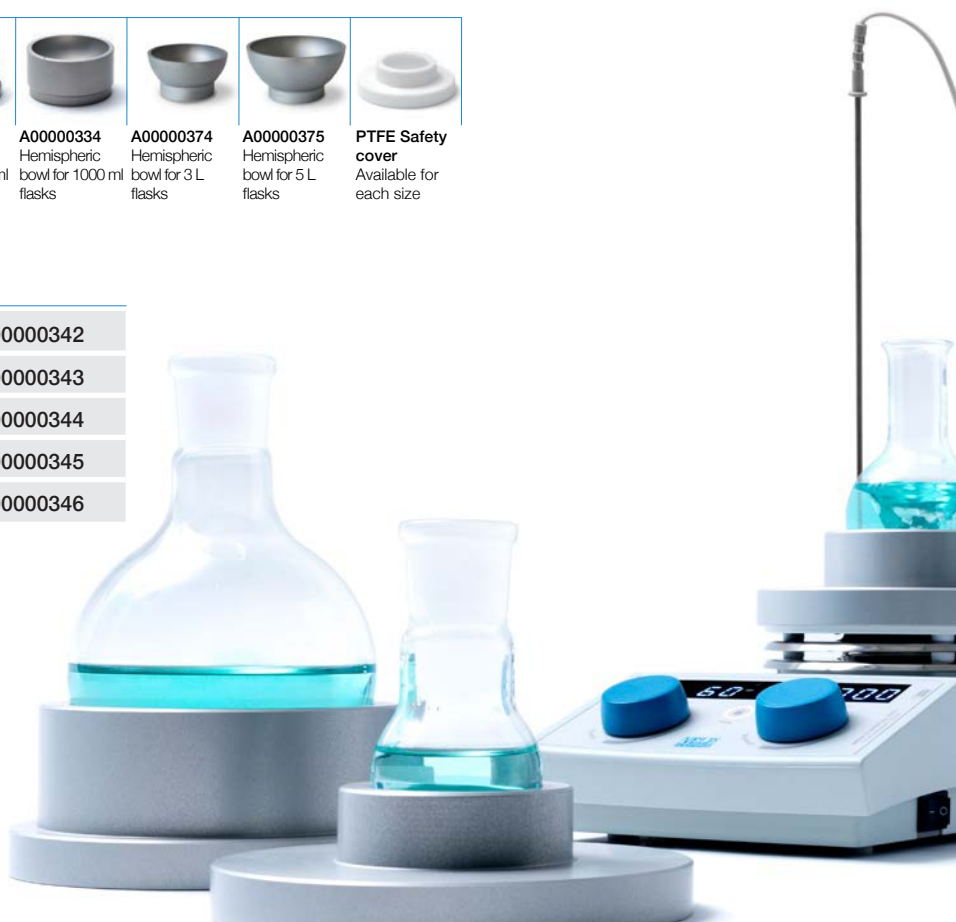
The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS

* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346
















## OPTIONAL ACCESSORIES



Protective cover ARE/AREX-6 series	A00000335
Support rod	A00001069
Handle for AluBlock™ removal	A00000351
Clamp with probe support	A00000280
Extension for support rod ARE - AREX	A00000382
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00000357</b> Magnetic octagonal stir bar Ø10x13mm
				
<b>A00001062</b> Magnetic stir bar Ø3x6mm	<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm
				
<b>A00001061</b> Magnetic stir bar Ø10x60mm				

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

	
<b>A00000268</b> Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Temperature Probe glass-coated Ø5mm


<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	- -	F20500463 F20510463	F20500462 F20510462
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500465 SA20510465	SA20500460 SA20510460	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500465 SB20510465	SD20500460 SD20510460	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500460 SB20510460	SA20500463 SA20510463	- -

# TECHNICAL DATA

	AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
USER INTERFACE	Digital	Digital	Analog	Analog
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	20 L	20 L
STIRRING SPEED RANGE	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm
SPEED CONTROL	Digital	Digital	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	5 rpm	-	-
MOTOR	Brushless	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
PROTECTION CLASS	IP 42	IP 42	IP 42	IP 42
TEMPERATURE RANGE	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C
HEATING CONTROL	Digital	Digital	Analog	Analog
ON/OFF SAFETY-HEATING-SWITCH	Yes	Yes	Yes	Yes
TEMPERATURE SETTING RESOLUTION	1°C	1°C	Scale	Scale
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 VTF	Pt100 VTF	VTF	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 300 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF)	-
TIMER	Yes	Yes	-	-
AUTOREVERSE	Yes	Yes	-	-
INTERMITTENT MODE	Yes	Yes	-	-
LOCK FUNCTION	Yes	Yes	-	-
HOT TOP WARNING SYSTEM	On Display	On Display	Illuminated Icon	Illuminated Icon
POWER INPUT	630 W	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb
DIMENSIONS (WxHxD)	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in
ERMES CONNECTION	Yes, via Wi-Fi		-	-



## SERVICE & SUPPORT

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# AREC 4 Series

## Heating Magnetic Stirrer

---

Compact Ceramic Hotplate Stirrers for efficient heating and stirring, from basic applications to precise thermoregulation



# AREC 4 Digital

The AREC 4 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The compact footprint makes it an indispensable solution for labs with limited bench space.

## PRECISE THERMOREGULATION

- Advanced heating plate technology ensures temperature homogeneity and stability up to 550°C
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1^\circ\text{C}$ ) and VTF Digital Thermoregulator ( $\pm 0.5^\circ\text{C}$ ).
- Thermoregulation range from room temperature to 350 °C

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume ( $\text{H}_2\text{O}$ ) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## SAFE AND RESISTANT

- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A "Hot Surface" warning message is displayed when the temperature exceeds 50°C, even when inactive



## CONFIGURATIONS



AREC 4 Digital



AREC 4 Digital System  
with Probe



AREC 4 Digital System  
with Probe, Rod and Clamp



AREC 4 Digital System  
with VTF and Rod

# AREC 4

The AREC 4 is the entry-level ceramic hotplate stirrer designed to meet the demands of everyday laboratory applications.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume (H<sub>2</sub>O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## SAFE AND RELIABLE

- Advanced heating technology guarantees efficient heating performance
- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A warning icon is displayed when the temperature exceeds 50°C, even when inactive



AREC 4

## CONFIGURATION



# CONFIGURATIONS CODES

		AREC 4 Digital	AREC 4
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500671 F20510671	F20500670 F20510670
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500671 SA20510671	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500671 SC20510671	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500671 SB20510671	- -

# TECHNICAL DATA

	AREC 4 Digital	AREC 4
USER INTERFACE	Digital	Analog
HOUSING MATERIAL	Aluminum body Technopolymer enclosure	Aluminum body Technopolymer enclosure
PLATE MATERIAL	Ceramic	Ceramic
PLATE DIMENSION	100x100 mm 4x4 in	100x100 mm 4x4 in
STIRRING VOLUME (H <sub>2</sub> O)	5 L	5 L
STIRRING SPEED RANGE	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog
MOTOR	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C
HEATING CONTROL	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	PT100 Pt1000 VTF	-
THERMOREGULATION RANGE	Room temp. - 350 °C	-
THERMOREGULATION ACCURACY	± 1 °C (Pt100; Pt1000) ± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icons (when the temperature is above 50 °C)
POWER INPUT	280 W	280 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C
WEIGHT	1,9 kg 4,2 lb	1,9 kg 4,2 lb
DIMENSIONS (WxHxD)	160x100x270 mm 6,3x3,9x10,6 in	160x100x270 mm 6,3x3,9x10,6 in



## SERVICE & SUPPORT

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# AREC 4 Series

## Heating Magnetic Stirrer

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Compact Ceramic Hotplate Stirrers for efficient heating and stirring, from basic applications to precise thermoregulation



# AREC 4 Digital

The AREC 4 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The compact footprint makes it an indispensable solution for labs with limited bench space.

## PRECISE THERMOREGULATION

- Advanced heating plate technology ensures temperature homogeneity and stability up to 550°C
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1\text{ }^{\circ}\text{C}$ ) and VTF Digital Thermoregulator ( $\pm 0.5\text{ }^{\circ}\text{C}$ ).
- Thermoregulation range from room temperature to 350 °C

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume (H<sub>2</sub>O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## SAFE AND RESISTANT

- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A "Hot Surface" warning message is displayed when the temperature exceeds 50°C, even when inactive



## CONFIGURATIONS



AREC 4 Digital



AREC 4 Digital System  
with Probe



AREC 4 Digital System  
with Probe, Rod and Clamp



AREC 4 Digital System  
with VTF and Rod

# AREC 4

The AREC 4 is the entry-level ceramic hotplate stirrer designed to meet the demands of everyday laboratory applications.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume (H<sub>2</sub>O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## SAFE AND RELIABLE

- Advanced heating technology guarantees efficient heating performance
- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A warning icon is displayed when the temperature exceeds 50°C, even when inactive



AREC 4

## CONFIGURATION



# CONFIGURATIONS CODES

		AREC 4 Digital	AREC 4
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500671 F20510671	F20500670 F20510670
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500671 SA20510671	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500671 SC20510671	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500671 SB20510671	- -

# TECHNICAL DATA

	AREC 4 Digital	AREC 4
USER INTERFACE	Digital	Analog
HOUSING MATERIAL	Aluminum body Technopolymer enclosure	Aluminum body Technopolymer enclosure
PLATE MATERIAL	Ceramic	Ceramic
PLATE DIMENSION	100x100 mm 4x4 in	100x100 mm 4x4 in
STIRRING VOLUME (H <sub>2</sub> O)	5 L	5 L
STIRRING SPEED RANGE	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog
MOTOR	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C
HEATING CONTROL	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	PT100 Pt1000 VTF	-
THERMOREGULATION RANGE	Room temp. - 350 °C	-
THERMOREGULATION ACCURACY	± 1 °C (Pt100; Pt1000) ± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icons (when the temperature is above 50 °C)
POWER INPUT	280 W	280 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C
WEIGHT	1,9 kg 4,2 lb	1,9 kg 4,2 lb
DIMENSIONS (WxHxD)	160x100x270 mm 6,3x3,9x10,6 in	160x100x270 mm 6,3x3,9x10,6 in



## SERVICE & SUPPORT

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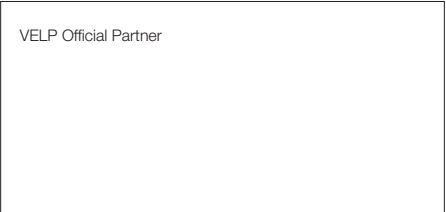
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# AREC 7 Series

## Heating Magnetic Stirrers

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Ceramic top hot plate stirrers ensuring reliability and excellent stirring and heating performance





# AREC 7 Connect

Innovative, safe and accurate Ceramic Hot Plate Stirrer with embedded Wi-Fi technology to monitor and control laboratory reactions through VELP Ermes cloud platform. Precise thermoregulation and powerful stirring for chemical, pharmaceutical and cosmetic laboratories requiring accuracy and efficiency.

## OUTSTANDING PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless motor stirring up to 20 L volume (H<sub>2</sub>O) from 30 up to 1700 rpm; ideal for both low and high speed applications.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 0.5 °C).
- Thermoregulation range from room temperature up to 300 °C.

## SAFE AND RESISTANT

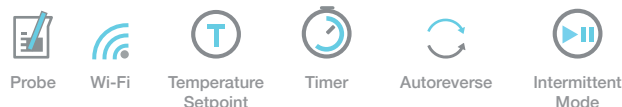
- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- The safety lock button eliminates the risk of unintentional modification of the working conditions.

## PROGRAMMABLE OPERATION

- Integral Timer from 1 min to 99 h 59 min (1 min steps).
- Autoreverse of the stirring direction for enhanced mixing capabilities from 5 s to 99 min 59 s (1 s steps).
- Intermittent mode for enhanced programming from 5 s to 99 min 59 s (1 s steps).

## INTUITIVE AND EASY-TO-USE

- Digital display for precise temperature and stirring setting.
- Illuminated icons to ensure a clear readout of the working conditions.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



AREC 7 Connect System  
with Probe



AREC 7 Connect System  
with Probe, Rod and Clamp

# AREC.X 7

The AREC.X 7 is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The ideal solution for laboratories requiring precise control of the medium's temperature.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## PRECISE THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe ( $\pm 1$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature to 250 °C.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



## CONFIGURATIONS



AREC.X 7



AREC.X 7 System  
with Probe



AREC.X 7 System  
with Probe, Rod and Clamp



AREC.X 7 System  
with VTF and Rod

# AREC 7

The AREC 7 is the safe and reliable hot plate stirrer with ceramic top guaranteeing excellent heat transfer and stirring performance for basic laboratory applications.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



AREC 7

## CONFIGURATION

# HSC 7

The HSC 7 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ideal solution for academia, chemistry, biology and pharma laboratories in schools and universities.

## ENTRY LEVEL SOLUTION

- Cutting-edge heating plate technology that ensures temperature homogeneity from room temperature up to 400 °C.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1300 rpm.
- Stirring and heating indicators.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Run-off groove to protect the electronics.








HSC 7

## CONFIGURATION

OPTIONAL ACCESSORIES





Extension for support rod	A00000382
Support rod	A00001069
Hemispheric bowl for 50 ml flasks	A00000273
Hemispheric bowl for 100 ml flasks	A00000258
Hemispheric bowl for 250 ml flasks	A00001071
Hemispheric bowl for 500 ml flasks	A00001072
Hemispheric bowl for 1000 ml flasks	A00001073
IQ/OQ AREC 7 Connect Manual	A00000421
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

STIRRING BARS

				
A00000355 Magnetic disc stir bar Ø20x10mm	A00001056 Magnetic stir bar Ø6x35mm	A00000356 Magnetic stir bar Ø8x40mm	A00000387 Magnetic stir bar Ø8x50mm	A00001061 Magnetic stir bar Ø10x60mm

EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulator ensuring precise medium temperature control for accurate and reproducible results.

			
A00000280 Clamp for the probe	A00000268 Temperature Probe AISI 316 Ti Ø3mm	A00000349 Temperature Probe glass-coated Ø5mm	F208B0063 VTF Digital Thermoregulator



CONFIGURATIONS CODES

		AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	F20500554 F20510554	F20500551 F20510551	F20500552 F20510552
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500550 SA20510550	SA20500554 SA20510554	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500550 SB20510550	SB20500554 SB20510554	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SC20500554 SC20510554	- -	- -



# TECHNICAL DATA

	AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
HOUSING MATERIAL	Technopolymer	Technopolymer	Technopolymer	Technopolymer
PLATE MATERIAL	Ceramic	Ceramic	Ceramic	Ceramic
PLATE DIMENSION	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
STIRRING VOLUME (H <sub>2</sub> O)	20 L	15 L	15 L	15 L
STIRRING SPEED RANGE	30 - 1700 rpm	50 - 1500 rpm	50 - 1500 rpm	50 - 1300 rpm
SPEED CONTROL	Digital	Analog	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	-	-	-
MOTOR	Brushless	Monophase PCM	Monophase PCM	Monophase PCM
TORQUE COMPENSATION	SpeedServo™	Electronic regulation	Electronic regulation	-
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 400 °C
HEATING CONTROL	Digital	Digital	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	5 °C	5 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100	Pt100 VTF	-	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 250 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (Pt100)	± 1 °C (Pt100) ± 0.5 °C (VTF)	-	-
TIMER	Yes (1 min - 99 h 59 min)	-	-	-
AUTOREVERSE	Yes (5 s - 99 min 59 s)	-	-	-
INTERMITTENT MODE	Yes (5 s - 99 min 59 s)	-	-	-
LOCK FUNCTION	Yes	-	-	-
ACOUSTIC SIGNALS	Yes	-	-	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	-
POWER INPUT	800 W	800 W	800 W	800 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	3.3 kg 7.3 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.2 kg 7 lb
DIMENSIONS (WxHxD)	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in
ERMES CONNECTION	Yes, via Wi-Fi	-	-	-



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# AREC 7 Series

## Heating Magnetic Stirrers

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Ceramic top hot plate stirrers ensuring reliability and excellent stirring and heating performance



# AREC 7 Connect

Innovative, safe and accurate Ceramic Hot Plate Stirrer with embedded Wi-Fi technology to monitor and control laboratory reactions through VELP Ermes cloud platform. Precise thermoregulation and powerful stirring for chemical, pharmaceutical and cosmetic laboratories requiring accuracy and efficiency.

## OUTSTANDING PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless motor stirring up to 20 L volume (H<sub>2</sub>O) from 30 up to 1700 rpm; ideal for both low and high speed applications.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 0.5 °C).
- Thermoregulation range from room temperature up to 300 °C.

## SAFE AND RESISTANT

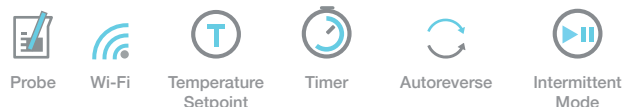
- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- The safety lock button eliminates the risk of unintentional modification of the working conditions.

## PROGRAMMABLE OPERATION

- Integral Timer from 1 min to 99 h 59 min (1 min steps).
- Autoreverse of the stirring direction for enhanced mixing capabilities from 5 s to 99 min 59 s (1 s steps).
- Intermittent mode for enhanced programming from 5 s to 99 min 59 s (1 s steps).

## INTUITIVE AND EASY-TO-USE

- Digital display for precise temperature and stirring setting.
- Illuminated icons to ensure a clear readout of the working conditions.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



AREC 7 Connect System  
with Probe



AREC 7 Connect System  
with Probe, Rod and Clamp

# AREC.X 7

The AREC.X 7 is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The ideal solution for laboratories requiring precise control of the medium's temperature.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## PRECISE THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe ( $\pm 1$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature to 250 °C.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



## CONFIGURATIONS



AREC.X 7



AREC.X 7 System  
with Probe



AREC.X 7 System  
with Probe, Rod and Clamp



AREC.X 7 System  
with VTF and Rod

# AREC 7

The AREC 7 is the safe and reliable hot plate stirrer with ceramic top guaranteeing excellent heat transfer and stirring performance for basic laboratory applications.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



AREC 7

CONFIGURATION

# HSC 7

The HSC 7 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ideal solution for academia, chemistry, biology and pharma laboratories in schools and universities.

## ENTRY LEVEL SOLUTION

- Cutting-edge heating plate technology that ensures temperature homogeneity from room temperature up to 400 °C.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1300 rpm.
- Stirring and heating indicators.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Run-off groove to protect the electronics.



HSC 7






CONFIGURATION



## OPTIONAL ACCESSORIES





Extension for support rod	A00000382
Support rod	A00001069
Hemispheric bowl for 50 ml flasks	A00000273
Hemispheric bowl for 100 ml flasks	A00000258
Hemispheric bowl for 250 ml flasks	A00001071
Hemispheric bowl for 500 ml flasks	A00001072
Hemispheric bowl for 1000 ml flasks	A00001073
IQ/OQ AREC 7 Connect Manual	A00000421
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## STIRRING BARS

				
<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm	<b>A00000387</b> Magnetic stir bar Ø8x50mm	<b>A00001061</b> Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulator ensuring precise medium temperature control for accurate and reproducible results.

			
<b>A00000280</b> Clamp for the probe	<b>A00000268</b> Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	F20500554 F20510554	F20500551 F20510551	F20500552 F20510552
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500550 SA20510550	SA20500554 SA20510554	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500550 SB20510550	SB20500554 SB20510554	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SC20500554 SC20510554	- -	- -

# TECHNICAL DATA

	AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
HOUSING MATERIAL	Technopolymer	Technopolymer	Technopolymer	Technopolymer
PLATE MATERIAL	Ceramic	Ceramic	Ceramic	Ceramic
PLATE DIMENSION	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
STIRRING VOLUME (H <sub>2</sub> O)	20 L	15 L	15 L	15 L
STIRRING SPEED RANGE	30 - 1700 rpm	50 - 1500 rpm	50 - 1500 rpm	50 - 1300 rpm
SPEED CONTROL	Digital	Analog	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	-	-	-
MOTOR	Brushless	Monophase PCM	Monophase PCM	Monophase PCM
TORQUE COMPENSATION	SpeedServo™	Electronic regulation	Electronic regulation	-
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 400 °C
HEATING CONTROL	Digital	Digital	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	5 °C	5 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100	Pt100 VTF	-	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 250 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (Pt100)	± 1 °C (Pt100) ± 0.5 °C (VTF)	-	-
TIMER	Yes (1 min - 99 h 59 min)	-	-	-
AUTOREVERSE	Yes (5 s - 99 min 59 s)	-	-	-
INTERMITTENT MODE	Yes (5 s - 99 min 59 s)	-	-	-
LOCK FUNCTION	Yes	-	-	-
ACOUSTIC SIGNALS	Yes	-	-	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	-
POWER INPUT	800 W	800 W	800 W	800 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	3.3 kg 7.3 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.2 kg 7 lb
DIMENSIONS (WxHxD)	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in
ERMES CONNECTION	Yes, via Wi-Fi	-	-	-



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELS Service Department and VELS Official Partners are always ready to offer you maintenance and service support tailored to your needs.



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

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# AREC 10 Digital

## Heating Magnetic Stirrer

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Ceramic Hotplate Stirrer with a large surface for Temperature-Sensitive and Demanding Applications



# AREC 10 Digital

The AREC 10 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The 10-inch square ceramic plate is highly resistant and ideal for laboratories requiring a spacious working surface.

## PRECISE THERMOREGULATION

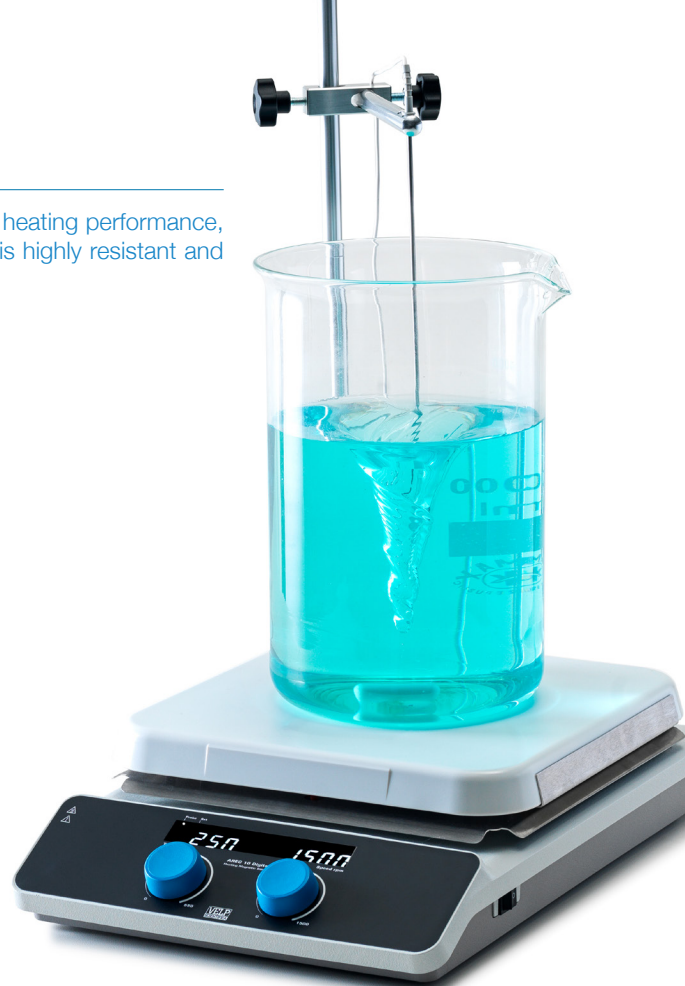
- Advanced heating plate technology ensures temperature homogeneity and stability up to 550°C
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature to 350 °C

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time
- Stirs up to 25 L volume (H<sub>2</sub>O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## SAFE AND RESISTANT

- The robust 10-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A "Hot Surface" warning message is displayed when the temperature exceeds 50°C, even when inactive



## CONFIGURATIONS



AREC 10 Digital



AREC 10 Digital System  
with Probe



AREC 10 Digital System  
with Probe, Rod and Clamp



AREC 10 Digital System  
with VTF and Rod

## CONFIGURATIONS CODES



AREC 10 Digital		
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz 100 V / 50-60 Hz	F20500691 F20510691 F20580691
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500691 SA20510691
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500691 SC20510691
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500691 SB20510691



# TECHNICAL DATA

USER INTERFACE	Digital
HOUSING MATERIAL	Aluminum body - Technopolymer enclosure
PLATE MATERIAL	Ceramic
PLATE DIMENSION	260x260 mm; 10x10 in
STIRRING VOLUME (H <sub>2</sub> O)	25 L
STIRRING SPEED RANGE	100 - 1500 rpm
SPEED CONTROL	Digital
MOTOR	Brushless
TORQUE COMPENSATION	SpeedServo™
TEMPERATURE RANGE	Room temp. - 550 °C
HEATING CONTROL	Digital
TEMPERATURE SETTING RESOLUTION	1 °C
EXTERNAL TEMPERATURE SENSOR CONNECTION	PT100 Pt1000 VTF
THERMOREGULATION RANGE	Room temp. - 350 °C
THERMOREGULATION ACCURACY	± 1 °C (Pt100; Pt1000) ± 0.5 °C (VTF)
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)
POWER INPUT	1530 W (230 V / 50-60 Hz) 1520 W (115 V / 60 Hz) 1320 W (100 V / 50-60 Hz)
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C
WEIGHT	5,6 kg 12,4 lb
DIMENSIONS (WxHxD)	280x100x420 mm 11.02x3.93x16.53 in



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

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# AREC 7 Series

## Heating Magnetic Stirrers

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Ceramic top hot plate stirrers ensuring reliability and excellent stirring and heating performance



# AREC 7 Connect

Innovative, safe and accurate Ceramic Hot Plate Stirrer with embedded Wi-Fi technology to monitor and control laboratory reactions through VELP Ermes cloud platform. Precise thermoregulation and powerful stirring for chemical, pharmaceutical and cosmetic laboratories requiring accuracy and efficiency.

## OUTSTANDING PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless motor stirring up to 20 L volume (H<sub>2</sub>O) from 30 up to 1700 rpm; ideal for both low and high speed applications.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 0.5 °C).
- Thermoregulation range from room temperature up to 300 °C.

## SAFE AND RESISTANT

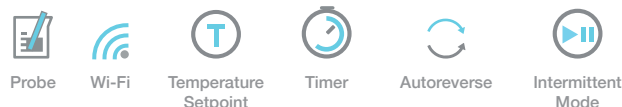
- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- The safety lock button eliminates the risk of unintentional modification of the working conditions.

## PROGRAMMABLE OPERATION

- Integral Timer from 1 min to 99 h 59 min (1 min steps).
- Autoreverse of the stirring direction for enhanced mixing capabilities from 5 s to 99 min 59 s (1 s steps).
- Intermittent mode for enhanced programming from 5 s to 99 min 59 s (1 s steps).

## INTUITIVE AND EASY-TO-USE

- Digital display for precise temperature and stirring setting.
- Illuminated icons to ensure a clear readout of the working conditions.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



AREC 7 Connect System  
with Probe



AREC 7 Connect System  
with Probe, Rod and Clamp

# AREC.X 7

The AREC.X 7 is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The ideal solution for laboratories requiring precise control of the medium's temperature.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## PRECISE THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe ( $\pm 1$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature to 250 °C.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



## CONFIGURATIONS



AREC.X 7



AREC.X 7 System  
with Probe



AREC.X 7 System  
with Probe, Rod and Clamp



AREC.X 7 System  
with VTF and Rod

# AREC 7

The AREC 7 is the safe and reliable hot plate stirrer with ceramic top guaranteeing excellent heat transfer and stirring performance for basic laboratory applications.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



AREC 7

CONFIGURATION

# HSC 7

The HSC 7 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ideal solution for academia, chemistry, biology and pharma laboratories in schools and universities.

## ENTRY LEVEL SOLUTION

- Cutting-edge heating plate technology that ensures temperature homogeneity from room temperature up to 400 °C.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1300 rpm.
- Stirring and heating indicators.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Run-off groove to protect the electronics.



HSC 7






CONFIGURATION



OPTIONAL ACCESSORIES





Extension for support rod	A00000382
Support rod	A00001069
Hemispheric bowl for 50 ml flasks	A00000273
Hemispheric bowl for 100 ml flasks	A00000258
Hemispheric bowl for 250 ml flasks	A00001071
Hemispheric bowl for 500 ml flasks	A00001072
Hemispheric bowl for 1000 ml flasks	A00001073
IQ/OQ AREC 7 Connect Manual	A00000421
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

STIRRING BARS

				
A00000355 Magnetic disc stir bar Ø20x10mm	A00001056 Magnetic stir bar Ø6x35mm	A00000356 Magnetic stir bar Ø8x40mm	A00000387 Magnetic stir bar Ø8x50mm	A00001061 Magnetic stir bar Ø10x60mm

EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulator ensuring precise medium temperature control for accurate and reproducible results.

			
A00000280 Clamp for the probe	A00000268 Temperature Probe AISI 316 Ti Ø3mm	A00000349 Temperature Probe glass-coated Ø5mm	F208B0063 VTF Digital Thermoregulator



CONFIGURATIONS CODES

		AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	F20500554 F20510554	F20500551 F20510551	F20500552 F20510552
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500550 SA20510550	SA20500554 SA20510554	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500550 SB20510550	SB20500554 SB20510554	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SC20500554 SC20510554	- -	- -

# TECHNICAL DATA

	AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
HOUSING MATERIAL	Technopolymer	Technopolymer	Technopolymer	Technopolymer
PLATE MATERIAL	Ceramic	Ceramic	Ceramic	Ceramic
PLATE DIMENSION	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
STIRRING VOLUME (H <sub>2</sub> O)	20 L	15 L	15 L	15 L
STIRRING SPEED RANGE	30 - 1700 rpm	50 - 1500 rpm	50 - 1500 rpm	50 - 1300 rpm
SPEED CONTROL	Digital	Analog	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	-	-	-
MOTOR	Brushless	Monophase PCM	Monophase PCM	Monophase PCM
TORQUE COMPENSATION	SpeedServo™	Electronic regulation	Electronic regulation	-
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 400 °C
HEATING CONTROL	Digital	Digital	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	5 °C	5 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100	Pt100 VTF	-	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 250 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (Pt100)	± 1 °C (Pt100) ± 0.5 °C (VTF)	-	-
TIMER	Yes (1 min - 99 h 59 min)	-	-	-
AUTOREVERSE	Yes (5 s - 99 min 59 s)	-	-	-
INTERMITTENT MODE	Yes (5 s - 99 min 59 s)	-	-	-
LOCK FUNCTION	Yes	-	-	-
ACOUSTIC SIGNALS	Yes	-	-	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	-
POWER INPUT	800 W	800 W	800 W	800 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	3.3 kg 7.3 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.2 kg 7 lb
DIMENSIONS (WxHxD)	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in
ERMES CONNECTION	Yes, via Wi-Fi	-	-	-



## SERVICE & SUPPORT

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# ARE/AREX 5 Series

## Heating Magnetic Stirrers

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Best-selling hotplate stirrers ensuring powerful heating and stirring from basic applications to precise thermoregulations



# AREX 5 Digital

The AREX 5 Digital is designed for accurate thermoregulation offering outstanding stirring and heating performance, enhanced safety features and ease-of-use. The connection with the external temperature probe Pt100 and Pt1000 and with the digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE AND RESISTANT

- The internal electronic parts are protected by the insulating disk to resist even to the most challenging environments and applications.
- Hot Surface safety message displayed when the temperature is above 50 °C.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in many industrial and academic laboratories.
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1.0$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature up to 310 °C.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time.
- Stirs up to 20 l from 50 to 1500 rpm.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.



## CONFIGURATIONS



AREX 5 Digital



AREX 5 Digital System  
with Probe



AREX 5 Digital System  
with Probe, Rod and Clamp



AREX 5 Digital System  
with VTF and Rod

# AREX 5

The AREX 5 is a robust and versatile hotplate stirrer suitable for applications ranging from basic to temperature-sensitive where precise sample thermoregulation is required.

## DURABLE, SAFE AND POWERFUL

- Upgradable to digital with VTF ensuring temperature accuracy of  $\pm 0.5^{\circ}\text{C}$ .
- Insulating disk to protect internal parts.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 20 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



AREX 5

AREX 5 System  
with VTF and Rod

## CONFIGURATIONS



# ARE 5

The ARE 5 is the entry-level hotplate stirrer that has become a reference for many laboratories around the world ranging from university, research centers to industrial.

## RELIABLE AND ROBUST

- Insulating disk to protect internal parts.
- The 135 mm diameter aluminum alloy top plate ensures a great temperature homogeneity and optimum heat transfer across the entire surface.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 15 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



ARE 5

## CONFIGURATIONS

















# Improve your productivity

## ALUBLOCK™

The MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.












											
A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS











* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346



## OPTIONAL ACCESSORIES





Support rod	A00001069
Extension for support rod	A00000382
Clamp for the probe	A00000280
Handle for AluBlock removal	A00000351

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00001062</b> Magnetic stir bar Ø3x6mm
				
<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm	<b>A00001061</b> Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

			
<b>A00000458</b> Pt1000 Temperature Probe AISI 316 Ti Ø3 mm	<b>A00000268</b> Pt100 Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Pt100 Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 5 Digital	AREX 5	ARE 5
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500580 F20510580	F20500570 F20510570	F20500560 F20510560
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500580 SA20510580	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500580 SC20510580	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500580 SB20510580	SA20500570 SA20510570	- -

# TECHNICAL DATA

	AREX 5 DIGITAL	AREX 5	ARE 5
USER INTERFACE	Digital	Analog	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure	Epoxy painted aluminum structure	Epoxy painted aluminum structure
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	15 L
STIRRING SPEED RANGE	50 - 1500 rpm	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog	Analog
MOTOR	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C
HEATING CONTROL	Digital	Analog	Analog
TEMPERATURE SETTING RESOLUTION	1°C	-	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 Pt1000 VTF	VTF	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)
PROTECTION CLASS	IP 42	IP 42	IP 42
POWER INPUT	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)
DIMENSIONS (WxHxD)	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



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## DESIGNED AND MANUFACTURED IN ITALY



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# ARE/AREX 5 Series

## Heating Magnetic Stirrers

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Best-selling hotplate stirrers ensuring powerful heating and stirring from basic applications to precise thermoregulations





# AREX 5 Digital

The AREX 5 Digital is designed for accurate thermoregulation offering outstanding stirring and heating performance, enhanced safety features and ease-of-use. The connection with the external temperature probe Pt100 and Pt1000 and with the digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE AND RESISTANT

- The internal electronic parts are protected by the insulating disk to resist even to the most challenging environments and applications.
- Hot Surface safety message displayed when the temperature is above 50 °C.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in many industrial and academic laboratories.
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1.0$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature up to 310 °C.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time.
- Stirs up to 20 l from 50 to 1500 rpm.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.



## CONFIGURATIONS



AREX 5 Digital



AREX 5 Digital System  
with Probe



AREX 5 Digital System  
with Probe, Rod and Clamp



AREX 5 Digital System  
with VTF and Rod

# AREX 5

The AREX 5 is a robust and versatile hotplate stirrer suitable for applications ranging from basic to temperature-sensitive where precise sample thermoregulation is required.

## DURABLE, SAFE AND POWERFUL

- Upgradable to digital with VTF ensuring temperature accuracy of  $\pm 0.5^{\circ}\text{C}$ .
- Insulating disk to protect internal parts.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 20 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



AREX 5

AREX 5 System  
with VTF and Rod

## CONFIGURATIONS



# ARE 5

The ARE 5 is the entry-level hotplate stirrer that has become a reference for many laboratories around the world ranging from university, research centers to industrial.

## RELIABLE AND ROBUST

- Insulating disk to protect internal parts.
- The 135 mm diameter aluminum alloy top plate ensures a great temperature homogeneity and optimum heat transfer across the entire surface.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 15 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



ARE 5

## CONFIGURATIONS















# Improve your productivity

## ALUBLOCK™

The MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.












											
<b>A00000323</b> MultiAluBlock™ Base	<b>A00000324</b> MultiAluBlock™ 4 pos. Ø28xh.43 mm	<b>A00000325</b> MultiAluBlock™ 4 pos. Ø28xh.30 mm	<b>A00000326</b> MultiAluBlock™ 4 pos. Ø28xh.24 mm	<b>A00000327</b> MultiAluBlock™ 4 pos. Ø21xh.31 mm	<b>A00000328</b> MultiAluBlock™ 8 pos. Ø17xh.26 mm	<b>A00000329</b> MultiAluBlock™ 11 pos. Ø15xh.20 mm	<b>A00000337</b> MultiAluBlock™ 11 pos. Ø12xh.14 mm	<b>A00000340</b> MonoAluBlock™ 17 pos. Ø28xh.43 mm	<b>A00000339</b> MonoAluBlock™ 17 pos. Ø28xh.30 mm	<b>A00000338</b> MonoAluBlock™ 17 pos. Ø28xh.24 mm	<b>A00000341</b> MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
<b>A00000373</b> Hemispheric bowl for 25 ml flasks	<b>A00000330</b> Hemispheric bowl for 50 ml flasks	<b>A00000331</b> Hemispheric bowl for 100 ml flasks	<b>A00000332</b> Hemispheric bowl for 250 ml flasks	<b>A00000333</b> Hemispheric bowl for 500 ml flasks	<b>A00000334</b> Hemispheric bowl for 1000 ml flasks	<b>A00000374</b> Hemispheric bowl for 3 L flasks	<b>A00000375</b> Hemispheric bowl for 5 L flasks	<b>PTFE Safety cover</b> Available for each size

## PTFE SAFETY COVERS











* PTFE Safety Cover Hemispheric Bowl 50 ml	<b>A00000342</b>
* PTFE Safety Cover Hemispheric Bowl 100 ml	<b>A00000343</b>
* PTFE Safety Cover Hemispheric Bowl 250 ml	<b>A00000344</b>
* PTFE Safety Cover Hemispheric Bowl 500 ml	<b>A00000345</b>
* PTFE Safety Cover Hemispheric Bowl 1000 ml	<b>A00000346</b>



## OPTIONAL ACCESSORIES





Support rod	A00001069
Extension for support rod	A00000382
Clamp for the probe	A00000280
Handle for AluBlock removal	A00000351

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00001062</b> Magnetic stir bar Ø3x6mm
				
<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm	<b>A00001061</b> Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

			
<b>A00000458</b> Pt1000 Temperature Probe AISI 316 Ti Ø3 mm	<b>A00000268</b> Pt100 Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Pt100 Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 5 Digital	AREX 5	ARE 5
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500580 F20510580	F20500570 F20510570	F20500560 F20510560
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500580 SA20510580	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500580 SC20510580	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500580 SB20510580	SA20500570 SA20510570	- -



# TECHNICAL DATA

	AREX 5 DIGITAL	AREX 5	ARE 5
USER INTERFACE	Digital	Analog	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure	Epoxy painted aluminum structure	Epoxy painted aluminum structure
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	15 L
STIRRING SPEED RANGE	50 - 1500 rpm	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog	Analog
MOTOR	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C
HEATING CONTROL	Digital	Analog	Analog
TEMPERATURE SETTING RESOLUTION	1°C	-	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 Pt1000 VTF	VTF	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)
PROTECTION CLASS	IP 42	IP 42	IP 42
POWER INPUT	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)
DIMENSIONS (WxHxD)	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in



## SERVICE & SUPPORT

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velpchina@velp.com



# ARE/AREX 6 Series

## Heating Magnetic Stirrers

Superior Performance & Absolute Safety



# AREX 6 Connect PRO

The AREX 6 Connect PRO is the first hot plate stirrer with embedded Wi-Fi technology to monitor and control your reactions through VELP Ermes cloud platform.

## ABSOLUTE SAFETY

The safety standards of the AREX 6 Series meet the potential of cloud-based services giving the possibility to control the instrument remotely and interrupt the operations with a click.

## YOUR HOT PLATE STIRRER IN REAL TIME

With the AREX 6 Connect PRO is possible to monitor in real time the reactions and the instrument working conditions from any device (PC, Tablet and Smartphone) and to be informed with immediate notifications (dashboard and email).

## DATA MANAGEMENT

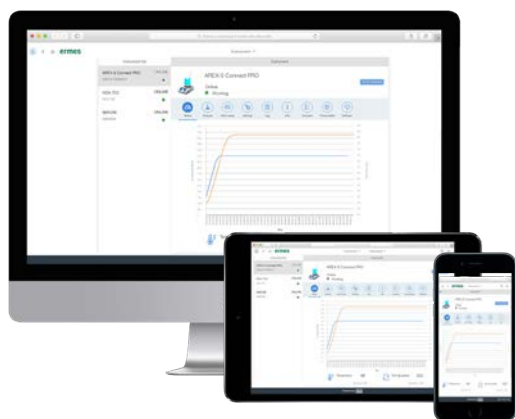
Safely access to your data with different clearance levels, create and share reports with your peers in many different file format.

## GET ALWAYS THE BEST FEATURES

The AREX 6 Connect PRO receives OTA (Over-the-Air) Software updates to get new features and enhancement in order to achieve the maximum lifespan.

## EASY AND SMART

The connection to VELP Ermes Cloud Platform is easy and safe and it takes only few minutes to benefit of the cloud-based potential and the smart user experience of the platform.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



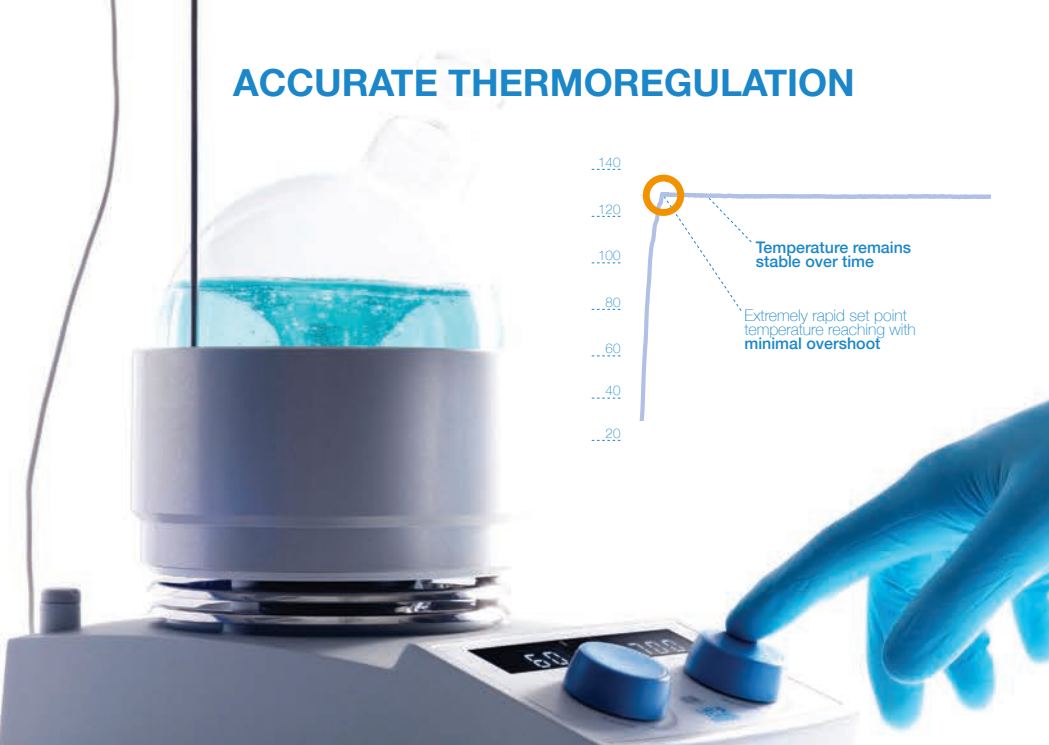
AREX 6 Connect PRO System  
with Probe



AREX 6 Connect PRO System  
with Probe, Rod and Clamp



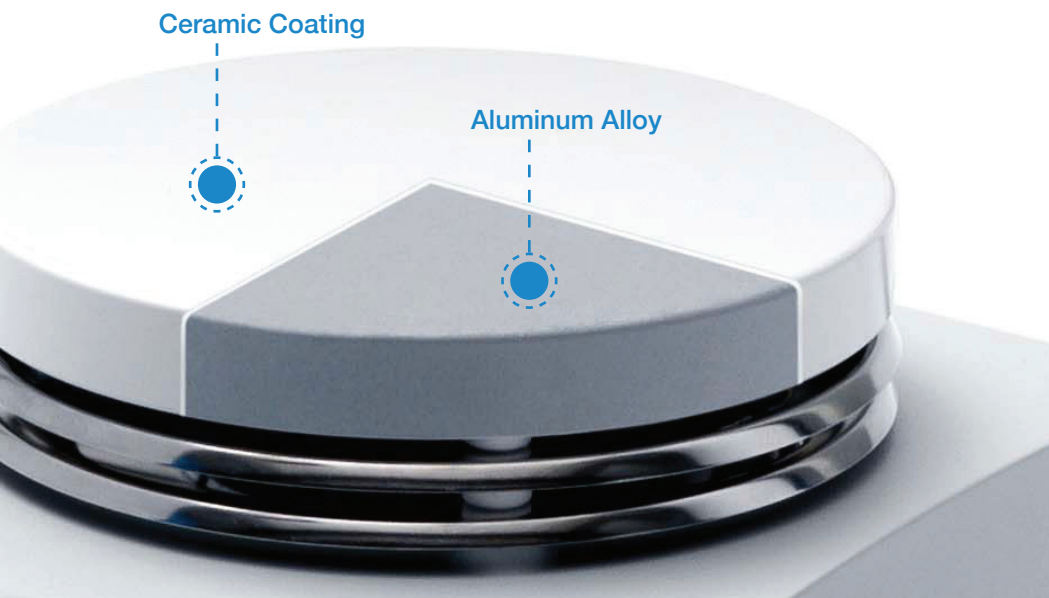
## ACCURATE THERMOREGULATION



## SPEEDSERVO™



## CERALTOP™



## PROTECTION



## SAFETY



## PRODUCTIVITY





# AREX 6 Digital PRO

The AREX 6 Digital PRO is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The connection with the external temperature probe Pt100 and digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE HEATING CONTROL

Two independent temperature safety circuits switch off the heating in case of overtemperature.

## ADVANCED THERMOREGULATION

Fast, precise and stable temperature control with minimal overshoot. Excellent heat transfer with CerAlTop™ plate. Able to reach a maximum temperature of 370°C.

## POWERFUL MAGNET

The Alnico magnet provides leading magnetic coupling and guarantees superior peripheral stirring. Maximum speed of 1700 rpm, SpeedServo™ torque compensation.

## UNATTENDED OPERATIONS

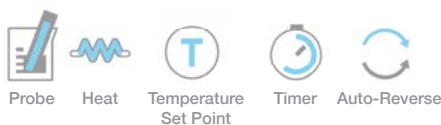
The built-in timer switches the main function off after the set running time.

## ENHANCED KINETICS

The Auto-Reverse of stirring direction is a key feature for improving mixing effectiveness.

## SMART USER INTERFACE

The new icons and display ensure a clear readout of the working conditions and warning messages such as "HOT".



## CONFIGURATIONS



AREX 6 Digital PRO System  
with Probe



AREX 6 Digital PRO System  
with Probe, Rod and Clamp



AREX 6 Digital PRO System  
with VTF and Rod

# AREX 6

The AREX 6 is the safe and powerful analog hot plate stirrer with CerAlTop™ plate guaranteeing excellent heat transfer and resistance to chemicals. The powerful motor and Alnico magnet stir up to 20 liters at a maximum speed of 1700 rpm.

## UPGRADE TO DIGITAL

For superior performance you can upgrade the AREX 6 by connecting one of the VELP Digital Thermoregulator VTF:

- Direct temperature control of the sample with 0.5°C accuracy.



AREX 6



AREX 6 System  
With VTF and Rod

## CONFIGURATIONS

### Safety Heating Switch



# ARE 6

The ARE 6 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ARE 6 incorporates high level features such as the Alnico magnet with top class magnetic coupling and SpeedServo™ torque compensation.

## BASIC HIGH PERFORMANCE SOLUTION

The aluminum alloy top plate offers optimum heat transfer and chemical resistance.

The independent luminous safety switch prevents unintentional heating and indicates when heating is On.

The heating icon illuminates when the plate temperature is above 50°C acting as a HOT TOP warning system.



ARE 6

## CONFIGURATIONS

### Safety Heating Switch















# Improve your productivity

## ALUBLOCK™

The new MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.









											
A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS












* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346



## OPTIONAL ACCESSORIES



Protective cover ARE/AREX-6 series	A00000335
Support rod	A00001069
Handle for AluBlock™ removal	A00000351
Clamp with probe support	A00000280
Extension for support rod ARE - AREX	A00000382
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00000357</b> Magnetic octagonal stir bar Ø10x13mm
				
<b>A00001062</b> Magnetic stir bar Ø3x6mm	<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm
				
<b>A00001061</b> Magnetic stir bar Ø10x60mm				

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

	
<b>A00000268</b> Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Temperature Probe glass-coated Ø5mm


<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	- -	F20500463 F20510463	F20500462 F20510462
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500465 SA20510465	SA20500460 SA20510460	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500465 SB20510465	SD20500460 SD20510460	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500460 SB20510460	SA20500463 SA20510463	- -



# TECHNICAL DATA

	AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
USER INTERFACE	Digital	Digital	Analog	Analog
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	20 L	20 L
STIRRING SPEED RANGE	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm
SPEED CONTROL	Digital	Digital	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	5 rpm	-	-
MOTOR	Brushless	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
PROTECTION CLASS	IP 42	IP 42	IP 42	IP 42
TEMPERATURE RANGE	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C
HEATING CONTROL	Digital	Digital	Analog	Analog
ON/OFF SAFETY-HEATING-SWITCH	Yes	Yes	Yes	Yes
TEMPERATURE SETTING RESOLUTION	1°C	1°C	Scale	Scale
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 VTF	Pt100 VTF	VTF	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 300 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF)	-
TIMER	Yes	Yes	-	-
AUTOREVERSE	Yes	Yes	-	-
INTERMITTENT MODE	Yes	Yes	-	-
LOCK FUNCTION	Yes	Yes	-	-
HOT TOP WARNING SYSTEM	On Display	On Display	Illuminated Icon	Illuminated Icon
POWER INPUT	630 W	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb
DIMENSIONS (WxHxD)	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in
ERMES CONNECTION	Yes, via Wi-Fi		-	-



## SERVICE & SUPPORT

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## Heating Magnetic Stirrers

Superior Performance & Absolute Safety



# AREX 6 Connect PRO

The AREX 6 Connect PRO is the first hot plate stirrer with embedded Wi-Fi technology to monitor and control your reactions through VELP Ermes cloud platform.

## ABSOLUTE SAFETY

The safety standards of the AREX 6 Series meet the potential of cloud-based services giving the possibility to control the instrument remotely and interrupt the operations with a click.

## YOUR HOT PLATE STIRRER IN REAL TIME

With the AREX 6 Connect PRO is possible to monitor in real time the reactions and the instrument working conditions from any device (PC, Tablet and Smartphone) and to be informed with immediate notifications (dashboard and email).

## DATA MANAGEMENT

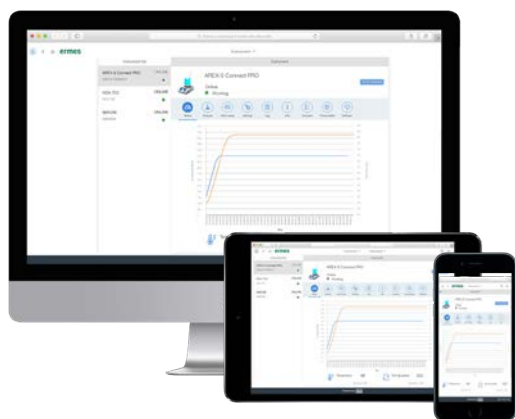
Safely access to your data with different clearance levels, create and share reports with your peers in many different file format.

## GET ALWAYS THE BEST FEATURES

The AREX 6 Connect PRO receives OTA (Over-the-Air) Software updates to get new features and enhancement in order to achieve the maximum lifespan.

## EASY AND SMART

The connection to VELP Ermes Cloud Platform is easy and safe and it takes only few minutes to benefit of the cloud-based potential and the smart user experience of the platform.



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



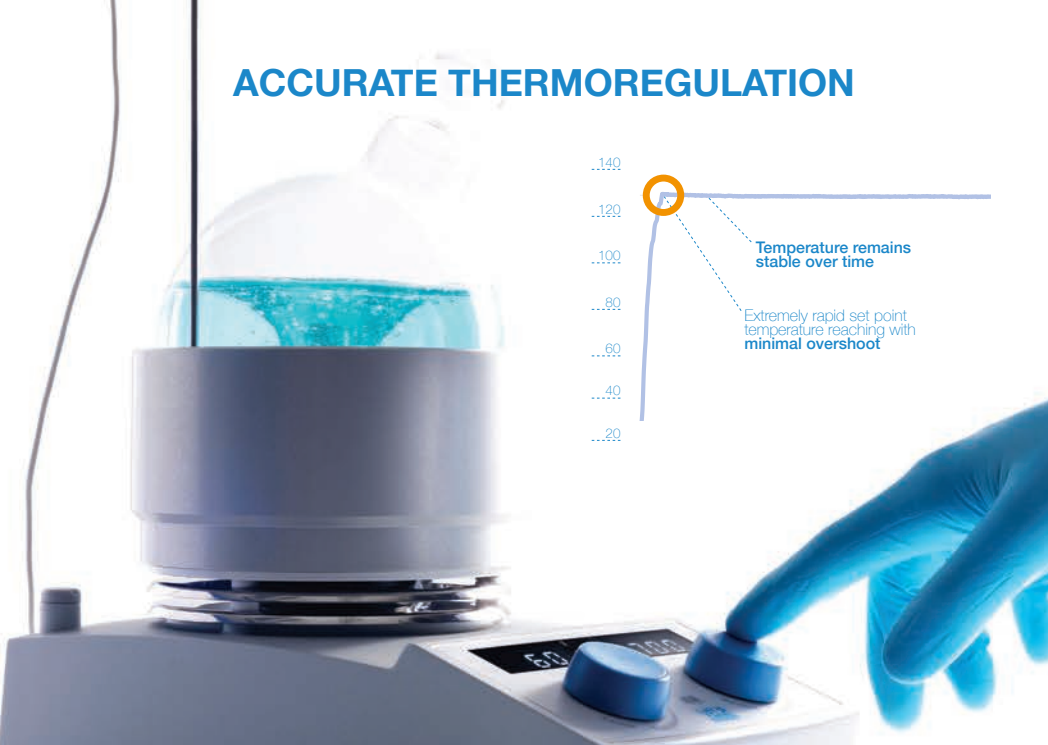
AREX 6 Connect PRO System  
with Probe



AREX 6 Connect PRO System  
with Probe, Rod and Clamp



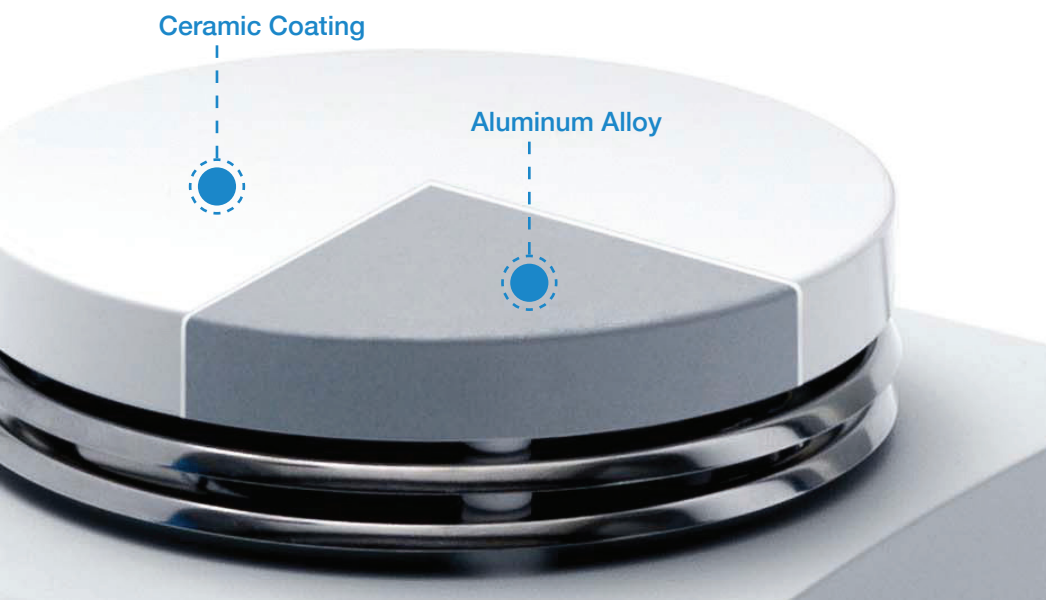
## ACCURATE THERMOREGULATION



## SPEEDSERVO™



## CERALTOP™



## PROTECTION



## SAFETY



## PRODUCTIVITY





# AREX 6 Digital PRO

The AREX 6 Digital PRO is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The connection with the external temperature probe Pt100 and digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE HEATING CONTROL

Two independent temperature safety circuits switch off the heating in case of overtemperature.

## ADVANCED THERMOREGULATION

Fast, precise and stable temperature control with minimal overshoot. Excellent heat transfer with CerAlTop™ plate. Able to reach a maximum temperature of 370°C.

## POWERFUL MAGNET

The Alnico magnet provides leading magnetic coupling and guarantees superior peripheral stirring. Maximum speed of 1700 rpm, SpeedServo™ torque compensation.

## UNATTENDED OPERATIONS

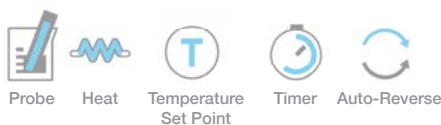
The built-in timer switches the main function off after the set running time.

## ENHANCED KINETICS

The Auto-Reverse of stirring direction is a key feature for improving mixing effectiveness.

## SMART USER INTERFACE

The new icons and display ensure a clear readout of the working conditions and warning messages such as "HOT".



## CONFIGURATIONS



AREX 6 Digital PRO System  
with Probe



AREX 6 Digital PRO System  
with Probe, Rod and Clamp



AREX 6 Digital PRO System  
with VTF and Rod

# AREX 6

The AREX 6 is the safe and powerful analog hot plate stirrer with CerAlTop™ plate guaranteeing excellent heat transfer and resistance to chemicals. The powerful motor and Alnico magnet stir up to 20 liters at a maximum speed of 1700 rpm.

## UPGRADE TO DIGITAL

For superior performance you can upgrade the AREX 6 by connecting one of the VELP Digital Thermoregulator VTF:

- Direct temperature control of the sample with 0.5°C accuracy.



AREX 6



AREX 6 System  
With VTF and Rod

## CONFIGURATIONS

### Safety Heating Switch



# ARE 6

The ARE 6 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ARE 6 incorporates high level features such as the Alnico magnet with top class magnetic coupling and SpeedServo™ torque compensation.

## BASIC HIGH PERFORMANCE SOLUTION

The aluminum alloy top plate offers optimum heat transfer and chemical resistance.

The independent luminous safety switch prevents unintentional heating and indicates when heating is On.

The heating icon illuminates when the plate temperature is above 50°C acting as a HOT TOP warning system.



ARE 6

## CONFIGURATIONS

### Safety Heating Switch















# Improve your productivity

## ALUBLOCK™

The new MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.



											
A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

								
A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS












* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346



## OPTIONAL ACCESSORIES



Protective cover ARE/AREX-6 series	A00000335
Support rod	A00001069
Handle for AluBlock™ removal	A00000351
Clamp with probe support	A00000280
Extension for support rod ARE - AREX	A00000382
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00000357</b> Magnetic octagonal stir bar Ø10x13mm
				
<b>A00001062</b> Magnetic stir bar Ø3x6mm	<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm
				
<b>A00001061</b> Magnetic stir bar Ø10x60mm				

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

	
<b>A00000268</b> Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Temperature Probe glass-coated Ø5mm


<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	- -	F20500463 F20510463	F20500462 F20510462
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500465 SA20510465	SA20500460 SA20510460	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500465 SB20510465	SD20500460 SD20510460	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500460 SB20510460	SA20500463 SA20510463	- -



# TECHNICAL DATA

	AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
USER INTERFACE	Digital	Digital	Analog	Analog
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	20 L	20 L
STIRRING SPEED RANGE	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm
SPEED CONTROL	Digital	Digital	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	5 rpm	-	-
MOTOR	Brushless	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
PROTECTION CLASS	IP 42	IP 42	IP 42	IP 42
TEMPERATURE RANGE	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C
HEATING CONTROL	Digital	Digital	Analog	Analog
ON/OFF SAFETY-HEATING-SWITCH	Yes	Yes	Yes	Yes
TEMPERATURE SETTING RESOLUTION	1°C	1°C	Scale	Scale
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 VTF	Pt100 VTF	VTF	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 300 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF)	-
TIMER	Yes	Yes	-	-
AUTOREVERSE	Yes	Yes	-	-
INTERMITTENT MODE	Yes	Yes	-	-
LOCK FUNCTION	Yes	Yes	-	-
HOT TOP WARNING SYSTEM	On Display	On Display	Illuminated Icon	Illuminated Icon
POWER INPUT	630 W	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb
DIMENSIONS (WxHxD)	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in
ERMES CONNECTION	Yes, via Wi-Fi		-	-



## SERVICE & SUPPORT

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velpchina@velp.com



# ARE/AREX 6 Series

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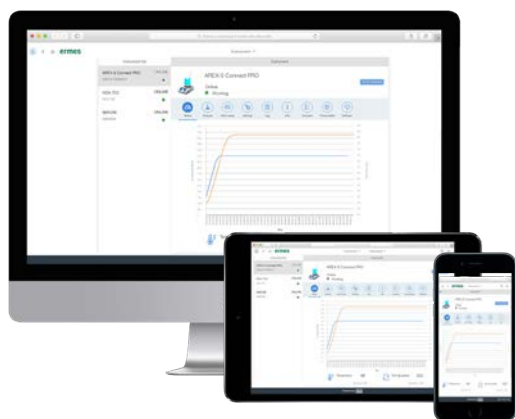
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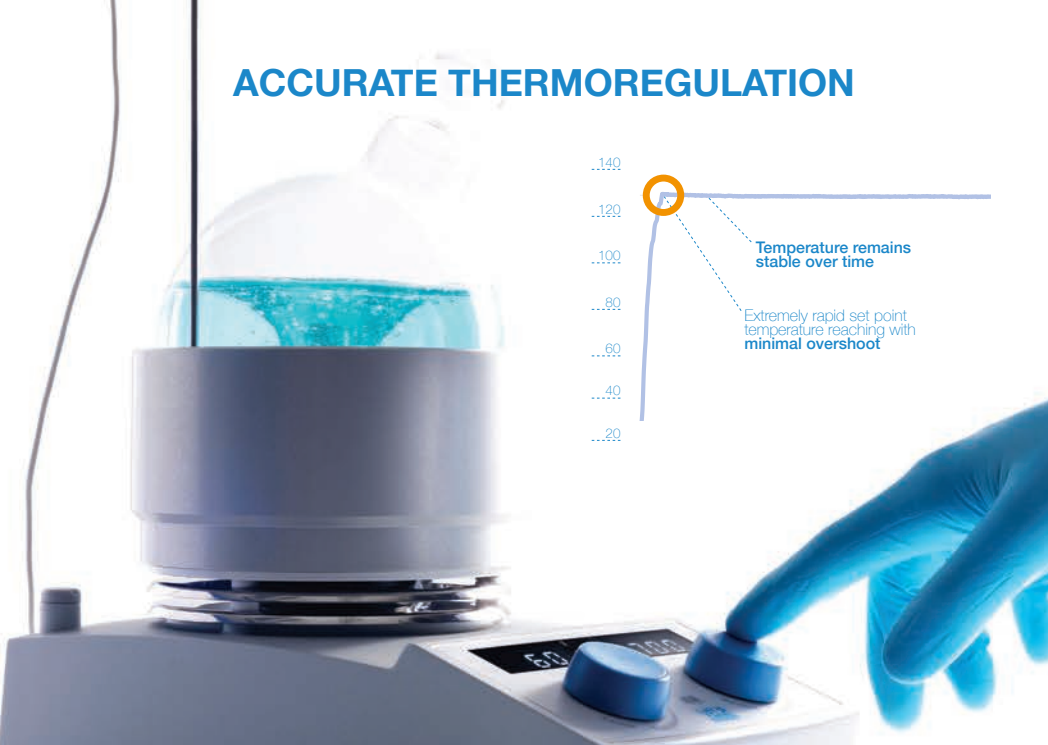
AREX 6 Connect PRO System  
with Probe



AREX 6 Connect PRO System  
with Probe, Rod and Clamp



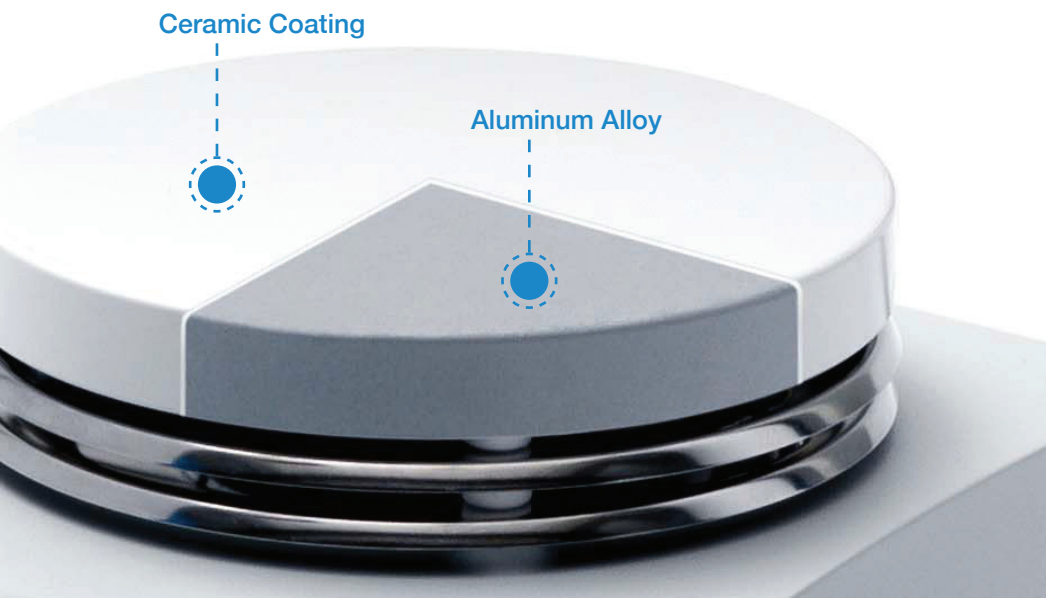
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## SPEEDSERVO™



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## PRODUCTIVITY





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Probe



Heat



Temperature Set Point



Timer



Auto-Reverse



## CONFIGURATIONS



AREX 6 Digital PRO System  
with Probe



AREX 6 Digital PRO System  
with Probe, Rod and Clamp



AREX 6 Digital PRO System  
with VTF and Rod

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AREX 6

AREX 6 System  
With VTF and Rod

## CONFIGURATIONS

### Safety Heating Switch



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ARE 6

## CONFIGURATIONS

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# Improve your productivity

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## PTFE SAFETY COVERS












* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346



## OPTIONAL ACCESSORIES



Protective cover ARE/AREX-6 series	A00000335
Support rod	A00001069
Handle for AluBlock™ removal	A00000351
Clamp with probe support	A00000280
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Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

	
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## CONFIGURATIONS CODES

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STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	- -	F20500463 F20510463	F20500462 F20510462
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500465 SA20510465	SA20500460 SA20510460	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500465 SB20510465	SD20500460 SD20510460	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500460 SB20510460	SA20500463 SA20510463	- -



# TECHNICAL DATA

	AREX 6 Connect PRO	AREX 6 Digital PRO	AREX 6	ARE 6
USER INTERFACE	Digital	Digital	Analog	Analog
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	20 L	20 L
STIRRING SPEED RANGE	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm	30 - 1700 rpm
SPEED CONTROL	Digital	Digital	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	5 rpm	-	-
MOTOR	Brushless	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
PROTECTION CLASS	IP 42	IP 42	IP 42	IP 42
TEMPERATURE RANGE	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C	Room temp. - 370 °C
HEATING CONTROL	Digital	Digital	Analog	Analog
ON/OFF SAFETY-HEATING-SWITCH	Yes	Yes	Yes	Yes
TEMPERATURE SETTING RESOLUTION	1°C	1°C	Scale	Scale
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 VTF	Pt100 VTF	VTF	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 300 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF) ± 1 °C (Pt100)	± 0.5 °C (VTF)	-
TIMER	Yes	Yes	-	-
AUTOREVERSE	Yes	Yes	-	-
INTERMITTENT MODE	Yes	Yes	-	-
LOCK FUNCTION	Yes	Yes	-	-
HOT TOP WARNING SYSTEM	On Display	On Display	Illuminated Icon	Illuminated Icon
POWER INPUT	630 W	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb	2.6 Kg 5.7 lb
DIMENSIONS (WxHxD)	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in	160x105x280 mm 6.5x4.1x11 in
ERMES CONNECTION	Yes, via Wi-Fi		-	-



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

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Shanghai city - China  
Tel. +8621 34500630  
velpchina@velp.com



# BOD Sensor

## Biochemical Oxygen Demand

Precise and Compact BOD Sensor System



# Intuitive and Reliable BOD Sensor

BOD (Biochemical Oxygen Demand) is a chemical procedure for determining the amount of dissolved oxygen needed by aerobic biological microorganisms in water. BOD determination is widely used as an indication of the organic quality of water and the degree of organic pollution of water.

- Automatically stores BOD values at 24-hour intervals with direct readout in mg/l (ppm)
- Measurement on scales of 90, 250, 600, 999 and 4000 ppm BOD  
Higher values can be measured by diluting the sample
- Enables analysis to continue over the weekend
- Results directly readable at any time, even after five days
- Compact stirring stations



## INSTRUMENT - CODE

<b>BOD Sensor</b>	-	<b>F102B0133</b>
<b>BOD Sensor Set</b>	-	<b>F102B0134</b>
<b>BOD Sensor System 6</b>	230 V / 50-60 Hz	<b>SA10200136</b>
<b>BOD Sensor System 6</b>	115 V / 60 Hz	<b>SA10210136</b>
<b>BOD Sensor System 10</b>	230 V / 50-60 Hz	<b>SA10200137</b>
<b>BOD Sensor System 10</b>	115 V / 60 Hz	<b>SA10210137</b>

## TECHNICAL DATA

	BOD SENSOR	BOD SENSOR SET	BOD SENSOR SYSTEM 6	BOD SENSOR SYSTEM 10
Number of sensors including	1	1	6	10
Sensor display	4-digit LED display	4-digit LED display	4-digit LED display	4-digit LED display
Bod measurement	mg/l (ppm) directly on the display	mg/l (ppm) directly on the display	mg/l (ppm) directly on the display	mg/l (ppm) directly on the display
Test typology	BOD	BOD	BOD	BOD
Bod scales	90, 250, 600, 999, 4000 ppm, Higher values after dilution	90, 250, 600, 999, 4000 ppm, Higher values after dilution	90, 250, 600, 999, 4000 ppm, Higher values after dilution	90, 250, 600, 999, 4000 ppm, Higher values after dilution
Bottle volumes	-	500 ml	500 ml	500 ml
Data storage	BOD values at 24h intervals	BOD values at 24h intervals	BOD values at 24h intervals	BOD values at 24h intervals
Sensor construction material	Technopolymer	Technopolymer	Technopolymer	Technopolymer
Sensor power	-	-	2 W	2 W
Sensor battery type	CR 2430	CR 2430	CR 2430	CR 2430
Power supply	2x3 V lithium batteries	2x3V lithium batteries	Sensors: 2x3V lithium batteries Stirring Station: 230V / 50-60Hz or 115V / 60Hz	Sensors: 2x3V lithium batteries Stirring Station: 230V / 50-60Hz or 115V / 60Hz
Dimensions (wxhxd)	50x70x70 mm	75x230x75 mm	270x300x185 mm	432x300x165 mm
Weight	0,08 kg	0,4 kg	2,3 Kg	3 Kg
Safety class	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
Sensor protection degree	IP 54-EN 60529	IP 54-EN 60529	IP 54-EN 60529	IP 54-EN 60529



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# CLASSIC

## Vortex Mixer

---

Compact vortex mixer suitable for different mixing requirements,  
with touch or continuous mode





# Compact, Robust and Convenient

Compact vortex mixer suitable for different mixing requirements, with touch or continuous mode. It is highly resistant to chemicals and has 3 anti-slip rubber feet for stability.

- Automatic start in touch mode or continuous operation
- Variable speed operation, electronically controlled up to 3000 rpm
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- IP 42 protection against particles and liquids



## INSTRUMENT - CODE

**CLASSIC**

100-240 V / 50-60 Hz

**F202A0173**

\* Included: Mixing cup head

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Zinc alloy and technopolymer
SUPPORT SYSTEM	3 anti-sliding feet
OPERATIONAL MODE	Touch / Continuous
SPEED SETTING	Analog
SPEED CONTROL	Electronic
STIRRING SPEED	0 - 3000 rpm
ORBITAL DIAMETER	4,5 mm
TYPE OF MOVEMENT	Orbital
ELECTRONIC PROTECTION DEGREE CEI EN 60529	IP 42
POWER	15 W
WEIGHT	2.2 Kg (4.9 lb)
DIMENSIONS (WxHxD)	180x70x220 mm (7.1x2.8x8.7 in)



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# CONTROLLER Series

## Reactor Controllers

---

The innovative solutions to manage and monitor the shaft rotation speed of brushless motors in lab-scale reactor systems of up to 100 L



# CONTROLLER Advance

Glass reaction systems are used in a wide variety of industrial fields to control chemical processes to transform the raw materials into the desired final products. The VELP CONTROLLER Advance is the innovative and cloud enabled solution to manage and monitor the shaft rotation speed of brushless motors in lab-scale reactor systems of up to 100 L.

## INTUITIVE AND PRECISE

- TFT 3.5" Display showing all setting information at a glance
- Real time torque, speed and temperature graph monitoring
- Precise digital speed control:  $\pm 1$  rpm
- Intuitive knob to navigate the menu and start stop operations
- PT100 Probe connection for temperature monitoring (-200°C to +550°C)

## PROGRAMMABLE OPERATIONS

- Programmable methods to setup to 4 time/speed ramps
- Timer for unattended operations
- Easy CW/CCW stirring direction changes
- Safety lock button to avoid unintentional changes with settings

## EXCLUSIVE CONNECTIVITY AND DATA LOGGING

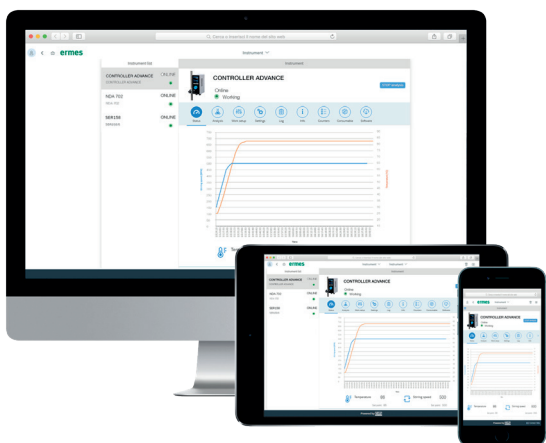
- Wi-Fi connection to VELP ERMES platform to monitor status and data logging on the cloud
- Cloud-based service assistance and software updates
- USB interface for OHS/ControllerSoft software to data log, monitor, turn off/ turn on.



Safety Lock

ermes enabled

## VELP ERMES CONNECTION



Connect the Controller Advance to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud platform connection will unburden you from tedious tasks, improving your lab productivity.

- Real time monitor and control of the instrument from PC, smartphone and tablet whenever you want, wherever you are
- Immediate alert and notification with the possibility to stop the instrument for maximum safety
- Regular software updates will guarantee the best performance and new features with just one-click

ermes enabled

# CONTROLLER Digital

Glass reaction systems are used for a wide variety of industrial fields to control chemical processes to transform the raw materials into the desired final products. The CONTROLLER Digital is the VELP entry-level solution to manage and monitor the shaft rotation speed of brushless motors in lab-scale reactor systems of up to 100 L.

## EASY-TO-USE

- Digital display for precisely set stirring speed
- Torque monitoring through the dedicated 4 segment Led display
- Precise speed control:  $\pm 1$  rpm
- Intuitive knob to navigate the menu and start/stop operations

## SMART

- Timer for unattended operations
- Easy CW/CCW stirring direction change
- Safety lock button to avoid unintentional changes with settings



Safety Lock

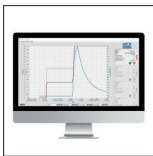




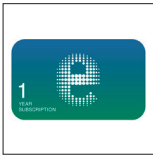
OPTIONAL ACCESSORIES



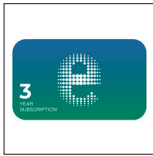
A00000394  
Pt100 Probe  
XL Ø 6 500mm



A00000391  
OHS  
ControllerSoft



E00010012  
VELP Ermes 1  
Year Connection



E00010036  
VELP Ermes 3  
Year Connection

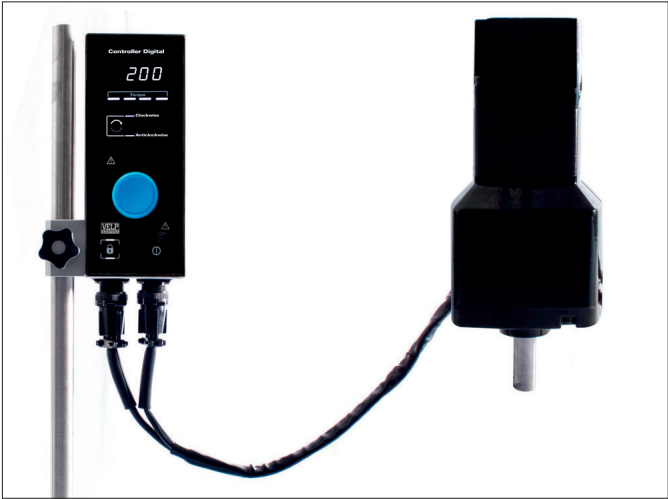
INSTRUMENT - CODE

Controller Advance	115-230 V / 50-60 Hz	F201A0500
Controller Digital	115-230 V / 50-60 Hz	F201A0505

VELP Brushless Motors

The Controller Advance and Digital are compatible with the following VELP brushless motors.

			
	A00000415 Motor 10 lb*in, 417 rpm, 1/11 HP -24V	A00000416 Motor 28 lb*in, 500 rpm, 1/4 HP -24V	A00000417 Motor 55 lb*in, 250 rpm, 1/4 HP -24V
TORQUE	113 N*cm (10 lb*in)	316 N*cm (28 lb*in)	621 N*cm (55 lb*in)
SPEED RANGE	20 - 417 rpm	35 - 500 rpm	15 - 250 rpm
POWER SUPPLY	24 V	24 V	24 V
POWER	68 W (1/11 HP)	187 W (1/4 HP)	187 W (1/4 HP)
MOTOR SHAFT DIAMETER	11 mm	19 mm	19 mm
MOTOR SHAFT LENGTH	31,4 mm	42,4 mm	42,4 mm
CABLES LENGTH	1,5 m	1,5 m	1,5 m
REACTOR VOLUME	Up to 25 liters of water	Up to 50 liters of water	Up to 100 liters of water



CONTROLLER Digital + Motor 10 lb\*in, 471 rpm , 1/11 HP - 24V



CONTROLLER Advance + Motor 55 lb\*in, 250 rpm , 1/4 HP - 24V

# TECHNICAL DATA

	CONTROLLER Advance	CONTROLLER Digital
DISPLAY	3,5" Graphic TFT Display	Digital Display
USER INTERFACE	Digital	Digital
TORQUE COMPENSATION	SpeedServo™	SpeedServo™
STIRRING SPEED RANGE	35-500 rpm (depends on the motor)	35-500 rpm (depends on the motor)
STIRRING DIRECTION	Clockwise/Counterclockwise	Clockwise/Counterclockwise
SPEED ACCURACY	1 rpm step	1 rpm step
SPEED CONTROL	Digital	Digital
FIXING SYSTEM	Shafts up to Ø 20mm, on both sides	Shafts up to Ø 20mm, on both sides
SAFETY VIBRATION SENSOR	Yes	-
TIMER	Yes	Yes
METHOD SETTING	Yes	-
LOCK OF THE INSTRUMENT	Yes	Yes
EXTERNAL PROBE CONNECTION	Yes, Pt100	-
TEMPERATURE MEASURING RANGE	-200 to 550 °C	-
TEMPERATURE RESOLUTION	0.1 °C	-
CONNECTIVITY	USB / Wi-Fi	USB, only for software update
VELP ERMES CLOUD PLATFORM	Yes	-
OHS/CONTROLLER SOFT	Yes	-
DIMENSIONS (WxDxH)	90x180x170 mm (3.54x7.10x6.70 in)	90x180x170 mm (3.54x7.10x6.70 in)
WEIGHT	2,5 kg (5,51 lb)	2,5 kg (5,51 lb)



## SERVICE & SUPPORT

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# CONTROLLER Series

## Reactor Controllers

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The innovative solutions to manage and monitor the shaft rotation speed of brushless motors in lab-scale reactor systems of up to 100 L



# CONTROLLER Advance

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- Timer for unattended operations
- Easy CW/CCW stirring direction changes
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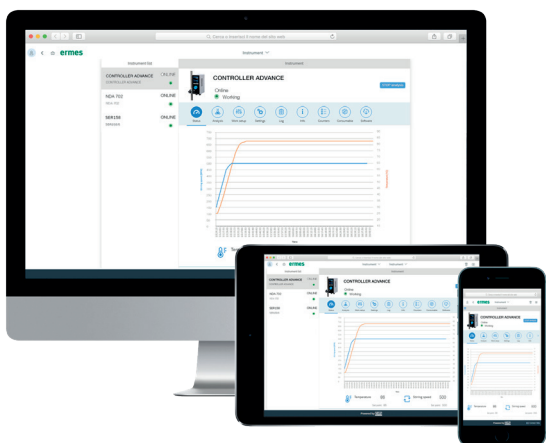
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Safety Lock

ermes enabled

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- Digital display for precisely set stirring speed
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- Precise speed control:  $\pm 1$  rpm
- Intuitive knob to navigate the menu and start/stop operations

## SMART

- Timer for unattended operations
- Easy CW/CCW stirring direction change
- Safety lock button to avoid unintentional changes with settings



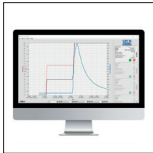
Safety Lock



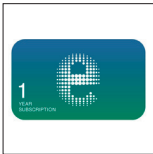
OPTIONAL ACCESSORIES



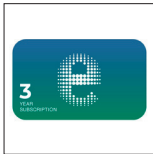
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XL Ø 6 500mm



A00000391  
OHS  
ControllerSoft



E00010012  
VELP Ermes 1  
Year Connection



E00010036  
VELP Ermes 3  
Year Connection

INSTRUMENT - CODE

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Controller Digital	115-230 V / 50-60 Hz	F201A0505

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POWER	68 W (1/11 HP)	187 W (1/4 HP)	187 W (1/4 HP)
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MOTOR SHAFT LENGTH	31,4 mm	42,4 mm	42,4 mm
CABLES LENGTH	1,5 m	1,5 m	1,5 m
REACTOR VOLUME	Up to 25 liters of water	Up to 50 liters of water	Up to 100 liters of water



CONTROLLER Digital + Motor 10 lb\*in, 471 rpm , 1/11 HP - 24V



CONTROLLER Advance + Motor 55 lb\*in, 250 rpm , 1/4 HP - 24V

# TECHNICAL DATA

	CONTROLLER Advance	CONTROLLER Digital
DISPLAY	3,5" Graphic TFT Display	Digital Display
USER INTERFACE	Digital	Digital
TORQUE COMPENSATION	SpeedServo™	SpeedServo™
STIRRING SPEED RANGE	35-500 rpm (depends on the motor)	35-500 rpm (depends on the motor)
STIRRING DIRECTION	Clockwise/Counterclockwise	Clockwise/Counterclockwise
SPEED ACCURACY	1 rpm step	1 rpm step
SPEED CONTROL	Digital	Digital
FIXING SYSTEM	Shafts up to Ø 20mm, on both sides	Shafts up to Ø 20mm, on both sides
SAFETY VIBRATION SENSOR	Yes	-
TIMER	Yes	Yes
METHOD SETTING	Yes	-
LOCK OF THE INSTRUMENT	Yes	Yes
EXTERNAL PROBE CONNECTION	Yes, Pt100	-
TEMPERATURE MEASURING RANGE	-200 to 550 °C	-
TEMPERATURE RESOLUTION	0.1 °C	-
CONNECTIVITY	USB / Wi-Fi	USB, only for software update
VELP ERMES CLOUD PLATFORM	Yes	-
OHS/CONTROLLER SOFT	Yes	-
DIMENSIONS (WxDxH)	90x180x170 mm (3.54x7.10x6.70 in)	90x180x170 mm (3.54x7.10x6.70 in)
WEIGHT	2,5 kg (5,51 lb)	2,5 kg (5,51 lb)



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# DLH

## Overhead Stirrers

---

Digital overhead stirrer with 80 Ncm torque  
for medium-high viscosity application





# Robust, Safety and Convenient

DLH overhead stirrer guides the user with an extremely bright and easy to read display; all the most important parameters are available at a glance.

- Maximum torque of 80 Ncm
- Supports applications with a maximum viscosity of 50 000 mPa\*s
- Electronic speed regulation from 50 to 2000 rpm, up to 40 L
- SpeedServo™ ensures constant speed even when the viscosity changes
- Operating time can be set up to 999:59 minutes; automatic switch off
- Extremely bright and easy-to-read display
- Long life, robust motor
- Easy-chuck to change the shafts without tools
- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection
- Sealed to IP 40 standard



## INSTRUMENT - CODE

DLH	110-230 V / 50-60 Hz	F201A0157
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## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer and epoxy painted aluminum alloy
CHUCK RANGE	1 - 10 mm
VISUALIZATION OF SET SPEED	Display LCD
ELECTRONIC PROTECTION RATING CEI EN 60529	IP 40
ELECTRONIC SPEED REGULATION	From 50 to 2000 rpm
STIRRING VOLUME MAX (H2O)	Up to 40 L
MAX VISCOSITY	50000 (mPa*s)*
TORQUE MAX	80 Ncm
ALLOWED ROOM TEMPERATURE	From 0 to 40 °C
DIMENSION (WXHxD)	80x230x196 mm
POWER	190 W
WEIGHT	3.0 Kg



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# ECO 6

## COD Thermoreactor

---

6-position thermoreactor for Chemical Oxygen Demand (COD)  
with settable temperature and operating time



# Precise, Intuitive and Versatile

COD Analysis Thermoreactor ECO 6 ensures a simple and easy programming of time and temperature, the parameters involved in the analysis.

- Electronic temperature control
- Temperature regulation from ambient to 200 °C
- Analysis time can be set from 1 to 999 minutes or continuous
- Processes up to 6 x 200 ml test tubes, Ø 42 mm
- COD analysis in only 30 minutes at 160 °C



## CONFIGURATION - CODE

INSTRUMENTS			REQUIRED ACCESSORY	
ECO 6	230 V / 50-60 Hz	<b>F10100120</b>	Air condenser with ground cone	<b>A00001041</b>
ECO 6	115 V / 50-60 Hz	<b>F10110120</b>	COD test tubes Ø42x200mm, 200ml with cone NS 29/32	<b>A00000145</b>
			PTFE sheaths for 29/32 cones	<b>A00001042</b>
			Stainless steel handle for moving 6 test tubes Ø42mm simultaneously	<b>A00001043</b>
			Antisplash bell	<b>A00001045</b>

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Epoxy painted metal structure
HOLES NUMBER AND DIAMETER	6 positions (Ø 42 mm)
SET TEMPERATURE	Display visualization
COUNTDOWN	Display visualization
SELECTABLE WORKING TEMPERATURES	From room temperature to 200 °C, resolution 1 °C
SELECTABLE WORKING TIMES	From 0 to 999 minutes or continuous operation
TEMPERATURE STABILITY	± 0.5 °C
TEMPERATURE HOMOGENEITY	± 0.5 °C
TEMPERATURE PRECISION	± 1 °C
VISUAL SIGNAL	Reaching of set temperature, Countdown
ACOUSTIC AND VISUAL SIGNAL	End of cycle, Probe interruption, Broken probe, Exceed temperature range
DIMENSION (WXHxD)	198x132x319 mm (7.8x5.2x12.6 in)
DIMENSION CRATED (WXHxD)	400x280x270 mm
POWER	700 W
WEIGHT	5.6 Kg (12.3 lb)



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# ECO 25

## COD Thermoreactor

---

25-position thermoreactor for Chemical Oxygen Demand (COD)  
with settable temperature and operating time





# Accurate, Economic and Safe

COD Analysis Thermoreactors ECO 25 ensure a simple and easy programming of time and temperature, the parameters involved in the analysis.

- 5 preset temperatures - 70, 100, 120, 150 and 160 °C
- 4 analysis times - 30, 60, 120 minutes or continuous
- 25 samples in Ø 16 mm test tubes simultaneously
- COD analysis in only 30 minutes at 160 °C
- LED indicator of operation
- Test tube extractor removes all tubes without user contact
- Rapid ID through alphanumeric labelling



## INSTRUMENT - CODE

ECO 25

115-230 V / 50-60 Hz

F101A0125

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Epoxy painted metal structure
HOLES NUMBER AND DIAMETER	25 pos. (Ø16 mm)
SELECTABLE WORKING TEMPERATURES	70, 100, 120, 150 and 160
SELECTABLE WORKING TIMES	30, 60, 120 or continuous
TEMPERATURE STABILITY	± 0.5 °C
TEMPERATURE HOMOGENEITY	± 0.5 °C
TEMPERATURE PRECISION	± 1 °C
REACHING OF SET TEMPERATURE	Acoustic and visual signal
COUNTDOWN	Visual signal
END OF CYCLE	Acoustic and visual signal
PROBE INTERRUPTION	Acoustic and visual signal
BROKEN PROBE	Acoustic and visual signal
EXCEED TEMPERATURE RANGE	Acoustic and visual signal
DIMENSION (WXHXD)	155x95x275 mm (6.1x3.7x10.8 in)
POWER	400 W
WEIGHT	3.8 Kg (8.4 lb)



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# ECO 16

## COD Thermoreactor

---

16-position thermoreactor for Chemical Oxygen Demand (COD)  
with settable temperature and operating time



# Precise, Intuitive and Versatile

COD Analysis Thermoreactor ECO 16 ensures a simple and easy programming of time and temperature, the parameters involved in the analysis.

- Electronic temperature control
- Temperature regulation from ambient to 165 °C
- Analysis time can be set from 1 to 999 minutes or continuous
- Processes up to 14 x Ø 16 mm test tubes
- Plus 2 x Ø 22 mm test tubes simultaneously
- LCD countdown display shows the temperature and remaining time
- COD analysis in only 30 minutes at 160 °C



## INSTRUMENT - CODE

ECO 16	230 V / 50-60 Hz	F10100126
ECO 16	115 V / 50-60 Hz	F10110126

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Epoxy painted metal structure
HOLES NUMBER AND DIAMETER	14 pos. (Ø 16 mm) and 2 pos. (Ø 22 mm)
SET TEMPERATURE	Display visualization
COUNTDOWN	Display visualization
SELECTABLE WORKING TEMPERATURES	From room temperature to 165 °C, resolution 1 °C
SELECTABLE WORKING TIMES	From 0 to 999 minutes or continuous operation
TEMPERATURE STABILITY	± 0.5 °C
TEMPERATURE HOMOGENEITY	± 0.5 °C
TEMPERATURE PRECISION	± 1 °C
VISUAL SIGNAL	Reaching of set temperature, Countdown
ACOUSTIC AND VISUAL SIGNAL	End of cycle, Probe interruption, Broken probe, Exceed temperature range
DIMENSION (WXHXD)	168x110x269 mm (6.4x4.3x10.6 in)
POWER	550 W
WEIGHT	3,8 Kg (8.4 lb)



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# ES

## Overhead Stirrers

---

Overhead stirrer for low viscosity liquids





# Resistant and Easy-to-Use

The ES is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

- Maximum torque of 15 Ncm
- Supports applications with a maximum viscosity of 1000 mPa\*s
- Electronic speed regulation from 50 to 1300 rpm, up to 15 L
- Long life, robust motor
- Easy-chuck to change the shafts without tools
- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection
- Sealed to IP 40 standard



## INSTRUMENT - CODE

ES

110-230 V / 50-60 Hz

F201A0152

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer and epoxy painted aluminum alloy
CHUCK RANGE	1 - 10 mm
ELECTRONIC PROTECTION RATING CEI EN 60529	IP 40
ELECTRONIC SPEED REGULATION	From 50 to 1300 rpm
STIRRING VOLUME MAX (H <sub>2</sub> O)	Up to 15 L
MAX VISCOSITY	1000 (mPa*s)*
TORQUE MAX	15 Ncm
ALLOWED ROOM TEMPERATURE	From 0 to 40 °C
DIMENSION (WXHXD)	80x160x200 mm (3.1x6.3x7.9 in)
POWER	30 W
WEIGHT	1.3 Kg (2.8 lb)



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# ESP

## Magnetic Stirrers

---

Ultraflat magnetic stirrer with no moving mechanical components



# Reliable and Easy-to-use

Flat and light weight magnetic stirrer with no moving mechanical components: it is therefore maintenance-free. The clear surface is ideal for visualization of particles and color changes.

- Speed regulation up to 1100 rpm
- Accepts up to 5 liter flasks
- Ideal for microtitration, microbiology and biochemistry



## INSTRUMENT - CODE

ESP

100-240 V / 50-60 Hz

F206A0179

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer
AMBIENT OPERATING TEMPERATURE	5 - 40 °C
STIRRING SPEED	Up to 1100 rpm
STIRRING VOLUME	Up to 5 L
DIMENSION (WXHXD)	160x33x230 mm (6.3x1.3x9 in)
POWER	5 W
WEIGHT	0.9 Kg (2.0 lb)



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# FC S Series

## Flocculators

---

Multi-position Jar Testers with independent positions  
simulating different conditions simultaneously



# Independent Control and Easy to use

Flocculators in 4 and 6 positions with brushless motor, independent stirring speed setting and illuminated back panel, ideal for optimizing water treatment processes.

- Manage and simulate different conditions in parallel in one single instrument
- Independently selectable speeds for each position (10-15-30-45-60-90-120-150-200-300 rpm)
- Stirring rods adjustable in height without tools
- Powerful brushless motor and SpeedServo technology
- Illuminated back panel to simplify sample observation
- Strong resistance to chemicals and corrosion



## INSTRUMENT - CODE

FC4S	100-240 V / 50-60 Hz	F105A0111
FC6S	100-240 V / 50-60 Hz	F105A0112

## TECHNICAL DATA

	FC4S	FC6S
CONSTRUCTION MATERIAL	Epoxy painted metal structure	Epoxy painted metal structure
MOTOR	Brushless	Brushless
USER INTERFACE	Analog	Analog
NUMBER OF POSITIONS	4 positions, settable speed for each rod	6 positions, settable speed for each rod
LIGHTING SYSTEM	Illuminated back panel	Illuminated back panel
STAINLESS STEEL STIRRING RODS	Adjustable in height	Adjustable in height
ELECTRONIC SPEED CONTROL	10-15-30-45-60-90-120-150-200-300 rpm	10-15-30-45-60-90-120-150-200-300 rpm
POWER	26 W	32 W
DIMENSIONS (WxHxD)	655x404x296 mm (25.7x15.9x11.6 in)	935x404x296 mm (36.8x15.9x11.6 in)
WEIGHT	12.5 kg (27.5 lb)	18 kg (39.6 lb)



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# FOC 120E Connect

## Cooled Incubator

---

Excellent temperature stability and homogeneity



# Cloud-Enabled Incubator

- Auto-Tuning thermoregulation system ensures optimum thermal homogeneity and stability ( $\pm 0,5^{\circ}\text{C}$ )
- Adjustable temperature set point setting 3 – 50 °C
- Equipped with premium Wi-Fi connectivity to VELP Ermes Cloud Platform
- Optional connection to PC via cable and TEMPSoft™ software
- MODBUS communication protocol
- Internal sockets to power devices
- Intuitive digital interface



## INSTRUMENT - CODE

FOC 120E Connect

230V/50-60Hz

F10300540



## TECHNICAL DATA

DIGITAL DISPLAY	3-digit, 0.1 °C resolution
USABLE INTERNAL VOLUME	109 liters
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
TEMPERATURE RANGE	From 3.0 to 50.0°C
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	2
NUMBER OF INTERNAL SOCKETS	2
ERMES CONNECTION	Yes via Wi-Fi
PC CONNECTION	Optional via RS485 cable connection and TEMPSoft™ Software
COMMUNICATION INTERFACES	Wi-Fi, 2 x RS485, MODBUS
POWER	120 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	36 kg (79.4 lb)
DIMENSIONS (WXHXD)	540x912x550 mm (21.3x35.9x21.7 in)



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# FOC 120I Connect

## Cooled Incubator

---

Cooled incubator with internal transparent door, excellent temperature stability and homogeneity



# Cloud-Enabled Incubator

- Auto-Tuning thermoregulation system ensures optimum thermal homogeneity and stability ( $\pm 0,5^{\circ}\text{C}$ )
- Adjustable temperature set point setting 3 – 50 °C
- Internal transparent door to monitor the samples without temperature alterations
- Equipped with premium Wi-Fi connectivity to VELP Ermes Cloud Platform
- Optional connection to PC via cable and TEMPSoft™ software
- MODBUS communication protocol
- Internal sockets to power devices
- Intuitive digital interface



## INSTRUMENT - CODE

FOC 120I Connect

230V/50-60Hz

F10400541



## TECHNICAL DATA

DIGITAL DISPLAY	3-digit, 0.1 °C resolution
USABLE INTERNAL VOLUME	109 liters
TRANSPARENT DOOR	Yes
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
TEMPERATURE RANGE	From 3.0 to 50.0°C
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	2
NUMBER OF INTERNAL SOCKETS	2
ERMES CONNECTION	Yes via Wi-Fi
PC CONNECTION	Optional via RS485 cable connection and TEMPSoft™ Software
COMMUNICATION INTERFACES	Wi-Fi, 2 x RS485, MODBUS
POWER	120 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	36 kg (79.4 lb)
DIMENSIONS (WXHxD)	540x912x550 mm (21.3x35.9x21.7 in)



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# FOC 200E Connect

## Cooled Incubator

---

Excellent temperature stability and homogeneity





# Cloud-Enabled Incubator

- Auto-Tuning thermoregulation system ensures optimum thermal homogeneity and stability ( $\pm 0,5^{\circ}\text{C}$ )
- Adjustable temperature set point setting 3 – 50 °C
- Equipped with premium Wi-Fi connectivity to VELP Hermes Cloud Platform
- Optional connection to PC via cable and TEMPSoft™ software
- MODBUS communication protocol
- Internal sockets to power devices
- Intuitive digital interface



## INSTRUMENT - CODE

FOC 200E Connect      230V/50-60Hz      F10300542



## TECHNICAL DATA

DIGITAL DISPLAY	3-digit, 0.1 °C resolution
USABLE INTERNAL VOLUME	169 liters
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
TEMPERATURE RANGE	From 3.0 to 50.0°C
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	3
NUMBER OF INTERNAL SOCKETS	2
ERMES CONNECTION	Yes via Wi-Fi
PC CONNECTION	Optional via RS485 cable connection and TEMPSoft™ Software
COMMUNICATION INTERFACES	Wi-Fi, 2 x RS485, MODBUS
POWER	400 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	46.3 Kg (102.1 lbs)
DIMENSIONS (WXHXD)	540x1300x550 mm (21.3x51.2x21.7 in)



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# FOC 200I Connect

## Cooled Incubator

---

Cooled incubator with internal transparent door, excellent temperature stability and homogeneity



# Cloud-Enabled Incubator

- Auto-Tuning thermoregulation system ensures optimum thermal homogeneity and stability ( $\pm 0,5^{\circ}\text{C}$ )
- Adjustable temperature set point setting 3 – 50 °C
- Internal transparent door to monitor the samples without temperature alterations
- Equipped with premium Wi-Fi connectivity to VELP Ermes Cloud Platform
- Optional connection to PC via cable and TEMPSoft™ software
- MODBUS communication protocol
- Internal sockets to power devices
- Intuitive digital interface



## INSTRUMENT - CODE

FOC 200I Connect

230V/50-60Hz

F10400543



## TECHNICAL DATA

DIGITAL DISPLAY	3-digit, 0.1 °C resolution
USABLE INTERNAL VOLUME	169 liters
TRANSPARENT DOOR	Yes
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
TEMPERATURE RANGE	From 3.0 to 50.0°C
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	3
NUMBER OF INTERNAL SOCKETS	2
ERMES CONNECTION	Yes via Wi-Fi
PC CONNECTION	Optional via RS485 cable connection and TEMPSoft™ Software
COMMUNICATION INTERFACES	Wi-Fi, 2 x RS485, MODBUS
POWER	400 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	46.3 Kg (102.1 lbs)
DIMENSIONS (WXHxD)	540x1300x550 mm (21.3x51.2x21.7 in)



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# FOC 200IL Connect

## Illuminated Cooled Incubator

---

Versatile cooled incubator providing excellent temperature stability and homogeneity



# Cloud-Enabled Incubator

The ideal solution for plant growth, seed germination, breeding of plants, insects and small animals, bacteria culturing, fermentation studies.

- Auto-Tuning thermoregulation system ensures optimum thermal homogeneity and stability ( $\pm 0,5^{\circ}\text{C}$ )
- Adjustable temperature set point setting 3 – 50 °C
- Equipped with 2 lighted shelves (30.000 lux/shelf)
- Internal transparent door to monitor the samples without temperature alterations
- Equipped with premium Wi-Fi connectivity to VELP Ermes Cloud Platform
- Optional connection to PC via cable and TEMPSoft™ software
- MODBUS communication protocol
- Internal sockets to power devices
- Intuitive digital interface



## INSTRUMENT - CODE

FOC 200iL Connect

230V/50-60Hz

F10400544



## TECHNICAL DATA

DIGITAL DISPLAY	3-digit, 0.1 °C resolution
USABLE INTERNAL VOLUME	169 liters
TRANSPARENT DOOR	Yes
ELECTRONIC THERMOREGULATION SYSTEM	Auto-Tuning
TEMPERATURE RANGE	From 3.0 to 50.0°C
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	3 (2 illuminated)
LIGHTING SYSTEM	LED
LUMINOUS FLUX	30.000 lux/shelf
NUMBER OF INTERNAL SOCKETS	2
ERMES CONNECTION	Yes via Wi-Fi
PC CONNECTION	Optional via RS485 cable connection and TEMPSoft™ Software
COMMUNICATION INTERFACES	Wi-Fi, 2 x RS485, MODBUS
POWER	400 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	50 Kg (110.2 lbs)
DIMENSIONS (WXHXD)	540x1300x550 mm (21.3x51.2x21.7 in)



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# FP4

## Flocculators

---

Portable digital Jar Tester with brushless motor,  
timer and lighting system



# Practical and reliable solution for on-site Jar Test

Digital portable flocculators in 4 positions with brushless motor, timer and central lighting system to allow standard conditions to be met during Jar Testing in water treatment plants.

- Identical conditions for all the 4 positions for comparable results
- Digitally selectable speed from 10 to 300 rpm
- Settable timer for unattended operation
- Stirring rods adjustable in height without tools
- Powerful brushless motor and SpeedServo technology
- Central light to simplify sample observation
- Practical handle for on-site testing at water treatment plants
- Strong resistance to chemicals and corrosion



## INSTRUMENT - CODE

FP4

100-240 V / 50-60 Hz

F105A0117

## TECHNICAL DATA

	FP4
CONSTRUCTION MATERIAL	Epoxy painted metal structure
MOTOR	Brushless
USER INTERFACE	Digital
NUMBER OF POSITIONS	4 positions, same speed for each rod
LIGHTING SYSTEM	Central light
STAINLESS STEEL STIRRING RODS	Adjustable in height
ELECTRONIC SPEED CONTROL	From 10 to 300 rpm
SPEED SETTING INTERVAL	1 rpm
TIMER	1min ÷ 99h 59min
POWER	6 W
DIMENSIONS (WxHxD)	250x310x265 mm (9.8x12.2x10.4 in)
WEIGHT	3.8 kg (8.3 lb)



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# FTC 120

## Cooled Incubator

---

Designed for BOD incubation



# High efficiency

- Usable volume 109 L
- Uniform temperature by the use of forced ventilation ( $\pm 0,5^{\circ}\text{C}$ )
- Constant temperature  $20^{\circ}\text{C}$
- Internal sockets to power devices
- 2-digit display of internal temperature
- Accepts 3 BOD Sensor System 6, or 2 BOD Sensor System 10
- Accepts 3 RESPIROMETRIC Sensor System 6



## INSTRUMENT - CODE

FTC 120

230V/50-60Hz

F10300305



## TECHNICAL DATA

DIGITAL DISPLAY	2-digit, $1^{\circ}\text{C}$ resolution
USABLE INTERNAL VOLUME	109 liters
ELECTRONIC THERMOREGULATION SYSTEM	Traditional
TEMPERATURE REGULATION	$20^{\circ}\text{C}$ constant
INTERNAL TEMPERATURE STABILITY	$\pm 0.5^{\circ}\text{C}$
INTERNAL TEMPERATURE HOMOGENEITY	$\pm 0.5^{\circ}\text{C}$
NUMBER OF SHELVES INCLUDED	2
NUMBER OF INTERNAL SOCKETS	2
POWER	120 W
POWER SUPPLY	230 V / 50-60 Hz
WEIGHT	36 kg (79.4 lb)
DIMENSIONS (WXHxD)	540x912x550 mm (21.3x35.9x21.7 in)



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# AREC 7 Series

## Heating Magnetic Stirrers

---

Ceramic top hot plate stirrers ensuring reliability and excellent stirring and heating performance





# AREC 7 Connect

Innovative, safe and accurate Ceramic Hot Plate Stirrer with embedded Wi-Fi technology to monitor and control laboratory reactions through VELP Ermes cloud platform. Precise thermoregulation and powerful stirring for chemical, pharmaceutical and cosmetic laboratories requiring accuracy and efficiency.

## OUTSTANDING PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless motor stirring up to 20 L volume (H<sub>2</sub>O) from 30 up to 1700 rpm; ideal for both low and high speed applications.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 0.5 °C).
- Thermoregulation range from room temperature up to 300 °C.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- The safety lock button eliminates the risk of unintentional modification of the working conditions.

## PROGRAMMABLE OPERATION

- Integral Timer from 1 min to 99 h 59 min (1 min steps).
- Autoreverse of the stirring direction for enhanced mixing capabilities from 5 s to 99 min 59 s (1 s steps).
- Intermittent mode for enhanced programming from 5 s to 99 min 59 s (1 s steps).

## INTUITIVE AND EASY-TO-USE

- Digital display for precise temperature and stirring setting.
- Illuminated icons to ensure a clear readout of the working conditions.



Probe



Wi-Fi



Temperature  
Setpoint



Timer



Autoreverse



Intermittent  
Mode



## ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

## CONFIGURATIONS



AREC 7 Connect System  
with Probe



AREC 7 Connect System  
with Probe, Rod and Clamp

# AREC.X 7

The AREC.X 7 is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The ideal solution for laboratories requiring precise control of the medium's temperature.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## PRECISE THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe ( $\pm 1$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature to 250 °C.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



## CONFIGURATIONS



AREC.X 7



AREC.X 7 System  
with Probe



AREC.X 7 System  
with Probe, Rod and Clamp



AREC.X 7 System  
with VTF and Rod

# AREC 7

The AREC 7 is the safe and reliable hot plate stirrer with ceramic top guaranteeing excellent heat transfer and stirring performance for basic laboratory applications.

## EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1500 rpm.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off groove to protect the electronics.



AREC 7

CONFIGURATION

# HSC 7

The HSC 7 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ideal solution for academia, chemistry, biology and pharma laboratories in schools and universities.

## ENTRY LEVEL SOLUTION

- Cutting-edge heating plate technology that ensures temperature homogeneity from room temperature up to 400 °C.
- Powerful motor stirring up to 15 L volume (H<sub>2</sub>O) from 50 up to 1300 rpm.
- Stirring and heating indicators.

## SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Run-off groove to protect the electronics.








HSC 7

CONFIGURATION

## OPTIONAL ACCESSORIES





Extension for support rod	A00000382
Support rod	A00001069
Hemispheric bowl for 50 ml flasks	A00000273
Hemispheric bowl for 100 ml flasks	A00000258
Hemispheric bowl for 250 ml flasks	A00001071
Hemispheric bowl for 500 ml flasks	A00001072
Hemispheric bowl for 1000 ml flasks	A00001073
IQ/OQ AREC 7 Connect Manual	A00000421
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## STIRRING BARS

				
<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm	<b>A00000387</b> Magnetic stir bar Ø8x50mm	<b>A00001061</b> Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulator ensuring precise medium temperature control for accurate and reproducible results.

			
<b>A00000280</b> Clamp for the probe	<b>A00000268</b> Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	- -	F20500554 F20510554	F20500551 F20510551	F20500552 F20510552
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500550 SA20510550	SA20500554 SA20510554	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SB20500550 SB20510550	SB20500554 SB20510554	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	- -	SC20500554 SC20510554	- -	- -



# TECHNICAL DATA

	AREC 7 Connect	AREC.X 7	AREC 7	HSC 7
HOUSING MATERIAL	Technopolymer	Technopolymer	Technopolymer	Technopolymer
PLATE MATERIAL	Ceramic	Ceramic	Ceramic	Ceramic
PLATE DIMENSION	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
STIRRING VOLUME (H <sub>2</sub> O)	20 L	15 L	15 L	15 L
STIRRING SPEED RANGE	30 - 1700 rpm	50 - 1500 rpm	50 - 1500 rpm	50 - 1300 rpm
SPEED CONTROL	Digital	Analog	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	-	-	-
MOTOR	Brushless	Monophase PCM	Monophase PCM	Monophase PCM
TORQUE COMPENSATION	SpeedServo™	Electronic regulation	Electronic regulation	-
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 400 °C
HEATING CONTROL	Digital	Digital	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	5 °C	5 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100	Pt100 VTF	-	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 250 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (Pt100)	± 1 °C (Pt100) ± 0.5 °C (VTF)	-	-
TIMER	Yes (1 min - 99 h 59 min)	-	-	-
AUTOREVERSE	Yes (5 s - 99 min 59 s)	-	-	-
INTERMITTENT MODE	Yes (5 s - 99 min 59 s)	-	-	-
LOCK FUNCTION	Yes	-	-	-
ACOUSTIC SIGNALS	Yes	-	-	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	-
POWER INPUT	800 W	800 W	800 W	800 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	3.3 kg 7.3 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.2 kg 7 lb
DIMENSIONS (WxHxD)	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in
ERMES CONNECTION	Yes, via Wi-Fi	-	-	-



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



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# JLT Series

## Flocculators

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Multi-position digital Jar Testers with brushless motor,  
timer and illuminated back panel



# Easy to use and Reliable

Digital Flocculators in 4 and 6 positions with brushless motor, timer and illuminated back panel to allow standard conditions to be met during Jar Testing in water treatment plants.

- Identical conditions for all positions for comparable results
- Digitally selectable speed from 10 to 300 rpm
- Settable timer for unattended operation
- Stirring rods adjustable in height without tools
- Intuitive and bright digital display
- Powerful brushless motor and SpeedServo technology
- Illuminated back panel to simplify sample observation
- Strong resistance to chemicals and corrosion



## INSTRUMENT - CODE

JLT 4	100-240 V / 50-60 Hz	F105A0108
JLT 6	100-240 V / 50-60 Hz	F105A0109

## TECHNICAL DATA

	JLT 4	JLT 6
CONSTRUCTION MATERIAL	Epoxy painted metal structure	Epoxy painted metal structure
MOTOR	Brushless	Brushless
USER INTERFACE	Digital	Digital
NUMBER OF POSITIONS	4 positions, same speed for each rod	6 positions, same speed for each rod
LIGHTING SYSTEM	Illuminated back panel	Illuminated back panel
STAINLESS STEEL STIRRING RODS	Adjustable in height	Adjustable in height
ELECTRONIC SPEED CONTROL	From 10 to 300 rpm	From 10 to 300 rpm
SPEED SETTING INTERVAL	1 rpm	1 rpm
TIMER	1÷999 min or 1÷99 hours	1÷999 min or 1÷99 hours
POWER	19 W	19 W
DIMENSIONS (WxHxD)	655x404x296 mm (25.7x15.9x11.6 in)	935x404x296 mm (36.8x15.9x11.6 in)
WEIGHT	13 kg (28.6 lb)	17 kg (37.4 lb)



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# LH

## Overhead Stirrers

---

Overhead stirrer with 80 Ncm torque  
for medium-high viscosity application



# Resistant and Easy-to-Use

The LH is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

- Maximum torque of 80 Ncm
- Supports applications with a maximum viscosity of 50 000 mPa\*s
- Electronic speed regulation from 50 to 2000 rpm, up to 40 L
- Long life, robust motor
- Easy-chuck to change the shafts without tools
- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection
- Sealed to IP 40 standard



## INSTRUMENT - CODE

LH

110-230 V / 50-60 Hz

F201A0156

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer and epoxy painted aluminum alloy
CHUCK RANGE	1 - 10 mm
ELECTRONIC PROTECTION RATING CEI EN 60529	IP 40
ELECTRONIC SPEED REGULATION	From 50 to 2000 rpm
STIRRING VOLUME MAX (H <sub>2</sub> O)	Up to 40 L
MAX VISCOSITY	50000 (mPa*s)*
TORQUE MAX	80 Ncm
ALLOWED ROOM TEMPERATURE	From 0 to 40 °C
DIMENSION (WXHxD)	80x230x196 mm
POWER	190 W
WEIGHT	2.9 Kg



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# LS

## Overhead Stirrers

---

Overhead stirrer with 40 Ncm torque  
for low-medium viscosity application





# Resistant and Easy-to-Use

The LS is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

- Maximum torque of 40 Ncm
- Supports applications with a maximum viscosity of 25 000 mPa\*s
- Electronic speed regulation from 50 to 2000 rpm, up to 25 L
- Long life, robust motor
- Easy-chuck to change the shafts without tools
- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection
- Sealed to IP 40 standard



## INSTRUMENT - CODE

LS	110-230 V / 50-60 Hz	F201A0151
LS - System*	110-230 V / 50-60 Hz	SA201A0151

\* Included in the system: LS Overhead Stirrer, Universal H-Stand, Double Clamp and Stirring Shaft with Fixed Blade

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer and epoxy painted aluminum alloy
CHUCK RANGE	1 - 10 mm
ELECTRONIC PROTECTION RATING CEI EN 60529	IP 40
ELECTRONIC SPEED REGULATION	From 50 to 2000 rpm
STIRRING VOLUME MAX (H <sub>2</sub> O)	Up to 25 L
MAX VISCOSITY	25000 (mPa*s)*
TORQUE MAX	40 Ncm
ALLOWED ROOM TEMPERATURE	From 0 to 40 °C
DIMENSION (WXHXD)	80x215x196 mm (3.1x8.5x7.7 in)
POWER	120 W
WEIGHT	2.3 Kg (5.0 lb)



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# MICROSTIRRER

## Magnetic Stirrers

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Compact magnetic stirrer specially designed for microtitrations



# Reliable and Easy to use

Compact and light weight magnetic stirrer with metal structure for visualization of particles and color changes. Specially designed for microtitrations.

- Speed regulation up to 1100 rpm
- Accepts up to 5 liter flasks
- Excellent speed control, even at low speed
- Epoxy-coated steel casing
- Remains cold, even after days of continuous use



## INSTRUMENT - CODE

MICROSTIRRER

100-240 V / 50-60 Hz

F203A0161

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Epoxy painted metal structure
SPEED CONTROL	Excellent speed control even at low revolutions
STIRRING SPEED	Up to 1100 rpm
STIRRING VOLUME	Up to 5 L
DIMENSION (WXHxD)	120x48x128 mm (4.7x1.9x5 in)
POWER	0.6 W
WEIGHT	0.55 Kg (1.1 lb)



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# MSL 8

## High Volume Magnetic Stirrer

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Be Assured. Choose MSL Series



# Safety, Resistance and Reliability.

- Gentle start and low speed stirring to protect your sample
- Brushless motor ensures premium power and long life span for up to 8L volume
- Resistant stainless steel cover allowing easy visualization of particles and color changes
- Constant stirring from 40 to 1500 rpm with SpeedServo technology
- MSL 8 remains cold during continuous stirring
- Control panel is shielded from liquid spills

## INSTRUMENT - CODE

MSL 8

100-240V/50-60Hz

F203A0513



**3** YEARS  
WARRANTY

## TECHNICAL DATA

USER INTERFACE	Analog
MOTOR	Brushless Motor
PLATE MATERIAL	Stainless steel
STIRRING VOLUME (H <sub>2</sub> O)	Up to 8 L
STIRRING SPEED RANGE	40-1500 rpm
SPEED ACCURACY	10 rpm
SPEED CONTROL	Analog
TORQUE COMPENSATION	SpeedServo™
DIMENSION (WXHxD)	168x60x183 mm
PERMISSIBLE AMBIENT TEMPERATURE	5-40°C
POWER INPUT	4.5 W
WEIGHT	0.95 Kg



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# MSL 8 Digital

## High Volume Magnetic Stirrer

---

Be Assured. Choose MSL Series



# Safety, Resistance and Reliability.

- Clear digital display to accurately set up the desired working conditions
- Gentle start and low speed stirring to protect your sample
- Brushless motor ensures premium power and long life span for up to 8L volume
- Resistant stainless steel cover allowing easy visualization of particles and color changes
- Constant stirring from 40 to 1500 rpm with SpeedServo technology
- MSL 8 Digital remains cold during continuous stirring
- Integral timer and programmable auto-reverse of the stirring direction
- Safety Lock avoids possible unintentional changes
- Control panel is shielded from liquid spills
- The intermittent mode option enhances programming capabilities to match any application requirement



**3 YEARS**  
WARRANTY

## INSTRUMENT - CODE

MSL 8 Digital

100-240V/50-60Hz

F203A0510

## TECHNICAL DATA

USER INTERFACE	Digital
MOTOR	Brushless Motor
PLATE MATERIAL	Stainless steel
STIRRING VOLUME (H <sub>2</sub> O)	Up to 8 L
STIRRING SPEED RANGE	40-1500 rpm
SPEED ACCURACY	10 rpm
SPEED CONTROL	Digital
TORQUE COMPENSATION	SpeedServo™
TIMER	Yes
AUTO-REVERSE	Yes
LOCK FUNCTION	Yes
INTERMITTENT MODE	Yes
AUTOMATIC SHUT DOWN	Yes, after 10 sec
DIMENSION (WXHxD)	168x60x183 mm
PERMISSIBLE AMBIENT TEMPERATURE	5-40°C
POWER INPUT	5 W
WEIGHT	0.95 Kg



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# MSL 25 Digital

## High Volume Magnetic Stirrer

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Be Assured. Choose MSL Series



# Safety, Resistance and Reliability.

- Clear digital display to accurately set up the desired working conditions
- Gentle start and low speed stirring to protect your sample
- Brushless motor ensures premium power and long life span for up to 25L volume
- Resistant stainless steel cover allowing easy visualization of particles and color changes
- Constant stirring from 40 to 1500 rpm with SpeedServo technology
- MSL 25 Digital remains cold during continuous stirring
- Integral timer and programmable auto-reverse of the stirring direction
- Safety Lock avoids possible unintentional changes
- Control panel is shielded from liquid spills
- The intermittent mode option enhances programming capabilities to match any application requirement



**3 YEARS**  
WARRANTY

## INSTRUMENT - CODE

MSL 25 Digital

100-240V/50-60Hz

F203A0511

## TECHNICAL DATA

USER INTERFACE	Digital
MOTOR	Brushless Motor
PLATE MATERIAL	Stainless steel
STIRRING VOLUME (H <sub>2</sub> O)	Up to 25 L
STIRRING SPEED RANGE	40-1500 rpm
SPEED ACCURACY	10 rpm
SPEED CONTROL	Digital
TORQUE COMPENSATION	SpeedServo™
TIMER	Yes
AUTO-REVERSE	Yes
LOCK FUNCTION	Yes
INTERMITTENT MODE	Yes
AUTOMATIC SHUT DOWN	Yes, after 10 sec
DIMENSION (WXHxD)	253x71x269 mm
PERMISSIBLE AMBIENT TEMPERATURE	5-40°C
POWER INPUT	9 W
WEIGHT	1.8 Kg



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# MSL 50 Digital

## High Volume Magnetic Stirrer

Be Assured. Choose MSL Series





# Safety, Resistance and Reliability.

- Clear digital display to accurately set up the desired working conditions
- Gentle start and low speed stirring (20rpm) to protect your sample
- Brushless motor ensures premium power and long life span for up to 50L volume
- Resistant stainless steel cover allowing easy visualization of particles and color changes
- Constant stirring from 20 to 1000 rpm with SpeedServo technology
- MSL 50 Digital remains cold during continuous stirring
- Integral timer and programmable auto-reverse of the stirring direction
- Safety Lock avoids possible unintentional changes
- Control panel is shielded from liquid spills
- The intermittent mode option enhances programming capabilities to match any application requirement



**3 YEARS**  
WARRANTY

## INSTRUMENT - CODE

MSL 50 Digital

100-240V/50-60Hz

F203A0512

## TECHNICAL DATA

USER INTERFACE	Digital
MOTOR	Brushless Motor
PLATE MATERIAL	Stainless steel
STIRRING VOLUME (H <sub>2</sub> O)	Up to 50 L
STIRRING SPEED RANGE	20-1000 rpm
SPEED ACCURACY	10 rpm
SPEED CONTROL	Digital
TORQUE COMPENSATION	SpeedServo™
TIMER	Yes
AUTO-REVERSE	Yes
LOCK FUNCTION	Yes
INTERMITTENT MODE	Yes
AUTOMATIC SHUT DOWN	Yes, after 10 sec
DIMENSION (WXHXD)	354x77x369 mm
PERMISSIBLE AMBIENT TEMPERATURE	5-40°C
POWER INPUT	10 W
WEIGHT	4 Kg



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# MST Digital Magnetic Stirrers

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Small and powerful magnetic stirrer with digital display, timer  
and auto-reverse



# Reliable and Precise

The MST Digital is equipped with a bright digital display to easily set up the stirring speed. By turning the knob is possible to set the correct speed with 10 rpm steps.

- Powerful brushless motor ensuring premium resistance over time
- Speed regulation up to 1500 rpm
- SpeedServo™ technology ensuring constant speed counter reacting to viscosity changes
- Accepts up to 5 liter flasks
- Bright digital display for accurate speed monitoring
- On board timer for unattended operations
- Auto reverse of the stirring direction to ensure better mixing
- Technopolymer guarantees high resistance to chemicals



## INSTRUMENT - CODE

MST Digital

100-240 V / 50-60 Hz

F203A0450

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer
STIRRING VOLUME	Up to 5 L
ELECTRONIC SPEED REGULATION	Up to 1500 rpm
SPEED CONTROL	Excellent speed control even at low revolutions
COUNTER REACTION	Constant Speed
TIMER	From 1 to 900 minutes; continuous mode
AUTO-REVERSE	From 5 to 900 seconds
LOCK FUNCTION	Yes
INTERMITTENT MODE	Yes
STIRRING SYSTEM	PCM magnet
MOTOR	Brushless
DIMENSION (WXHxD)	120x50x145 mm (4.7x1.97x5.9 in)
POWER	0.6 W
WEIGHT	0.6 Kg (1.3 lb)



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# MST

## Magnetic Stirrers

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Small and efficient magnetic stirrer



# Resistant and Easy-to-use

With its white surface the MST facilitates colour change detection point making it suitable for many applications including microbiology and biochemistry, microtitration stirrings and slow/long stirring.

- Speed regulation up to 1100 rpm
- Accepts up to 5 liter flasks
- Compact design
- Technopolymer casing resists chemicals
- Excellent speed control, even at low speeds
- Ideal for microtitration, BOD, microbiology and biochemistry



## INSTRUMENT - CODE

MST 100-240 V / 50-60 Hz F203A0440

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer
STIRRING VOLUME	Up to 5 L
ELECTRONIC SPEED REGULATION	Up to 1100 rpm
STIRRING SYSTEM	High power magnet type PCM
DIMENSION (WXHxD)	120x50x145 mm (4.7x1.97x5.7 in)
POWER	0.6 W
WEIGHT	0.4 Kg (0.9 lb)



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# MULTISTIRRER Digital

## Magnetic Stirrers

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Digital multi-position magnetic stirrer that remains cold even after several days of continuous use.



# Robust, Resistant and Reliability

Digital multi-position magnetic stirrer with stainless steel top for the simultaneous stirring of 6 or 15 positions. Ideal for chemistry, microbiology, biochemistry applications.

- Powerful brushless motor ensuring premium resistance over time
- Available in two models for 6 positions of 400 ml and 15 positions of 250 ml
- Speed regulation from 80 to 1500 rpm
- SpeedServo™ ensures constant speed even when the viscosity changes
- Bright digital display for accurate speed monitoring
- Exclusive, on-board timer for unattended operation
- Intermittent mode programs to meet your workflows
- Adjustable reverse operation (time-controlled)
- Safety Lock feature to avoid possible alteration of the working conditions



## INSTRUMENT - CODE

MULTISTIRRER Digital 6	100-240 V / 50-60 Hz	F203A0179
MULTISTIRRER Digital 15	100-240 V / 50-60 Hz	F203A0180

## TECHNICAL DATA

	MULTISTIRRER Digital 6	MULTISTIRRER Digital 15
CONSTRUCTION MATERIAL	Epoxy painted metal structure; stainless steel top plate	Epoxy painted metal structure; stainless steel top plate
MODELS	6-position	15-position
STIRRING VOLUME	6 beakers, 400 ml	15 beakers, 250 ml
DISTANCE BETWEEN STIRRING POSITION CENTRES	100 mm	74 mm
ELECTRONIC SPEED REGULATION	From 80 to 1500 rpm	From 80 to 1500 rpm
SPEED CONTROL	Excellent speed control even at low revolutions	Excellent speed control even at low revolutions
SPEED INTERVAL	10 rpm steps	10 rpm steps
COUNTER-REACTION	Constant speed	Constant speed
TIMER	From 1 to 900 minutes; continuous mode	From 1 to 900 minutes; continuous mode
AUTO-REVERSE	From 5 to 900 seconds	From 5 to 900 seconds
LOCK FUNCTION	Yes	Yes
INTERMITTENT MODE	Yes	Yes
STIRRING SYSTEM	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation
DIMENSION (WXHXD)	230x51.5x370 mm (9.0x2.0x14.4 in)	230x51.5x370 mm (9.0x2.0x14.4 in)
POWER	3.6 W	9 W
WEIGHT	1.75 Kg (3.8 lb)	2.1 Kg (4.6 lb)



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

## DESIGNED AND MANUFACTURED IN ITALY



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VELP Official Partner



# MULTISTIRRER

## Magnetic Stirrers

---

Multi-position magnetic stirrer that remains cold even after several days of continuous use.



# Robust, Resistant and Reliable

Multi-position magnetic stirrer with stainless steel top for the simultaneous stirring of 6 or 15 positions. Ideal for chemistry, microbiology, biochemistry applications.

- Available in two models for 6 positions of 400 ml and 15 positions of 250 ml
- Speed regulation from 80 to 1500 rpm
- Excellent speed control (electronic), even at low speeds
- Remains cold, even after days of continuous use



## INSTRUMENT - CODE

MULTISTIRRER 6	100-240 V / 50-60 Hz	F203A0177
MULTISTIRRER 15	100-240 V / 50-60 Hz	F203A0178

## TECHNICAL DATA

	MULTISTIRRER 6	MULTISTIRRER 15
CONSTRUCTION MATERIAL	Epoxy painted metal structure; stainless steel top plate	Epoxy painted metal structure; stainless steel top plate
MODELS	6-position	15-position
STIRRING VOLUME	6 beakers, 400 ml	15 beakers, 250 ml
DISTANCE BETWEEN STIRRING POSITION CENTRES	100 mm	74 mm
ELECTRONIC SPEED REGULATION	From 80 to 1500 rpm	From 80 to 1500 rpm
SPEED CONTROL	Excellent speed control even at low revolutions	Excellent speed control even at low revolutions
STIRRING SYSTEM	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation	High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation
DIMENSION (WXHxD)	230x51.5x370 mm (9.0x2.0x14.4 in)	230x51.5x370 mm (9.0x2.0x14.4 in)
POWER	3.6 W	9 W
WEIGHT	1.75 Kg (3.8 lb)	2.1 Kg (4.6 lb)



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# MULTI-TX5 Digital

## Multi-tube vortex mixer

Versatile, compact and easy to use multi-tube vortex mixer  
for high sample throughput





# Multi-tube Vortex Mixer

The MULTI-TX5 Digital is the versatile and compact vortex mixer for high sample throughput. Vigorous as well as gentle mixing is supported with premium performance making the MULTI-TX5 Digital ideal both for microbiology tasks and R&D or quality control in diverse industries like pharma, cosmetics, food & beverage, and chemicals.

- Stirring speed from 100 up to 2500 rpm thanks to the powerful brushless motor
- Easy to change foam racks for various test tubes
- Structure designed for outstanding comfort, maximized resistance, and minimized footprint
- Easy to operate digital interface with icons
- The built-in timer allows programming of unsupervised operation
- Programmable auto-reverse of the stirring direction
- Exclusive Pulse Mode enabling cyclical vigorous mixing
- The Lock feature prevents unintentional changes



## INSTRUMENT - CODE

**MULTI-TX5 Digital Vortex**

100-240 V / 50-60 Hz

**F202A0460**



## TECHNICAL DATA

USER INTERFACE	Digital
SPEED CONTROL	Electronic
STIRRING SPEED	100 - 2500 rpm
SPEED SETTING ACCURACY	5 rpm
TIMER	From 1 min to 99 h : 59 min
TIMER SETTING STEPS	1 min
AUTOREVERSE	From 5 s to 99 min : 59 s
AUTOREVERSE SETTING STEPS	1 s
INTERMITTENT MODE	From 5 s to 99 min : 59 s
INTERMITTENT MODE SETTING STEPS	1 s
PULSE MODE	2 s shaking, 1 s pause (cyclic)
LOCK FUNCTION	Yes
MOTOR	BLDC
TYPE OF MOVEMENT	Orbital
ORBITAL DIAMETER	3.6 mm
WORKING IN CONTINUOUS	Max 2 hours
POWER INPUT	40 W
WEIGHT	19 kg; 42 lb
SUPPORT PLATE DIMENSION	294 x 194 mm; 11.6 x 7.6 in
DIMENSIONS (WXHxD)	245 x 380 x 490 mm; 9.6 x 14.9 x 19.3 in



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# OCB Open Circulating Bath

## Open Circulating Bath, with Timer and Safety Thermostat

- Suitable for Several Applications and Samples
- Different Kinds of Test Tubes Supported
- With 5 or 7-liter Bath Tank



The open circulating bath is a widely used instrument, suitable for different applications and kinds of samples treatment. VELP OCB can reach 105 °C, with 1 °C steps, and can be combined with **different operating accessories** in order to satisfy any requirements and ensure reliable results.

VELP supplies **two polycarbonate tanks**, one with 5-liter capacity and one bigger, up to 7-liter. When combined with one of the two VELP bath tanks, the OCB provides the ideal solution to achieve **accurate and highly effective water bath**. Few and easy operations are required for assembling and disassembling of the two parts. The tanks are made of polycarbonate and are completely transparent for a constant visual control.

The rack is also a fundamental accessory of the OCB. VELP Scientifica supplies **three versions of rack**: a 7-position rack for Ø 29 mm tubes, a 20-position rack for Ø 17 mm tubes and a 36-position rack for Eppendorf tubes (Ø 11 mm). Rack structure is in polycarbonate. The maximum capacity of the 5-liter bath tank is 2 racks, whilst the 7-liter version can accommodate up to 3 racks simultaneously.

Thanks to all these possible configurations, VELP gives the opportunity to customize your bath, ordering the rack and the bath tank that match with your needs. OCB is an **extremely flexible** solution.

Technical Data	Description
Temperature Range:	Room Temperature - 105 °C
Temperature Precision:	±1 °C
Timer:	00:00 - 24:59 (hh:mm)
Display:	LCD
Dimensions (WxHxD):	150x280x180 mm (5.9x11.0x7.1 in)
Weight:	2.5 kg (5.51 lb)
Power :	900 W
Power Supply:	115 V or 230 V / 50-60 Hz
<b>Bath Tank</b>	
Structure:	Polycarbonate
Models:	5-liter Bath Tank 7-liter Bath Tank
Max. Temperature:	100 °C / 212 °F
External Dimensions (WxHxD):	5-liter Bath Tank - 134x163x421 mm (5.3x6.4x16.6 in) 7-liter Bath Tank - 134x163x521 mm (5.3x6.4x20.5 in)
Weight:	5-liter Bath Tank - 1.7 kg (3.7 lb) 7-liter Bath Tank - 2.0 kg (4.4 lb)
<b>OCB System</b>	
Overall Dimensions (WxHxD):	5-liter Bath Tank - 134x315x421 mm (5.3x12.4x16.6 in) 7-liter Bath Tank - 134x315x521 mm (5.3x12.4x20.5 in)
Overall Weight:	5-liter Bath Tank - 4.2 kg (9.2 lb) 7-liter Bath Tank - 4.5 kg (9.9 lb)
Ordering information	Description
Code No	
F40300240	OCB 230 V
F40310240	OCB 115 V
A00000090	5-Liter Polycarbonate Bath Tank
A00000091	7-Liter Polycarbonate Bath Tank
A00000092	20-position Rack for Ø 17mm Tubes
A00000093	36-position Rack for Eppendorf Tubes (Ø 11mm)
A00000094	7-position Rack for Ø 29mm Tubes

Your authorized agent:

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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included



# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

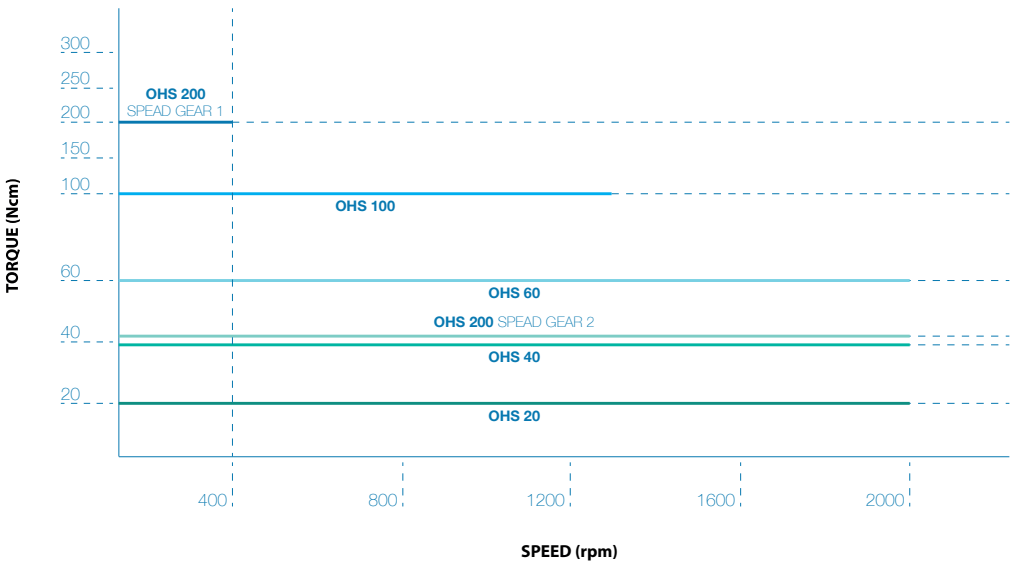


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE



## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

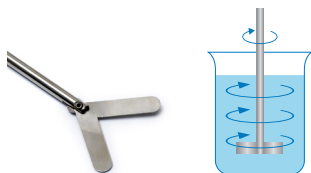
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

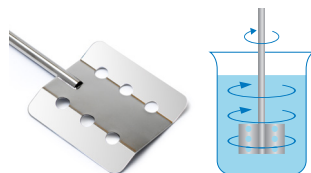
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

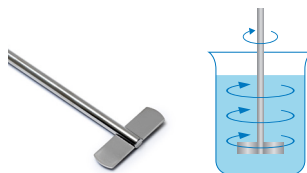
Code **A00001308**



Viscosity Range: L - M  
**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M  
**Flow: Radial**

### ■ Stirring shaft with turbo propeller

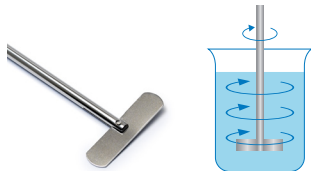
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

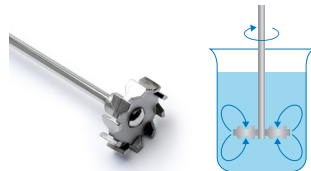
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGHT	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger





# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

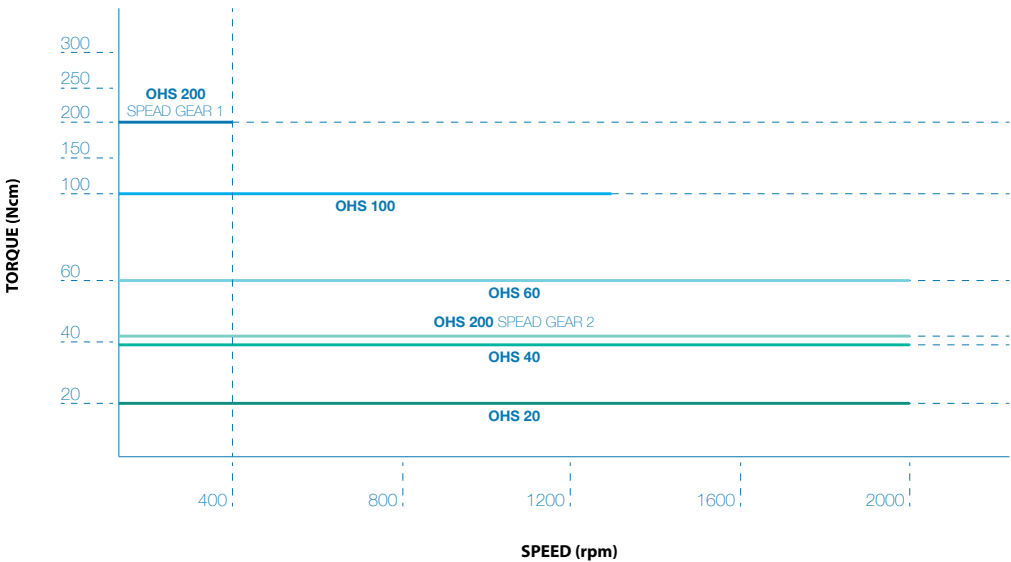


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE



## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

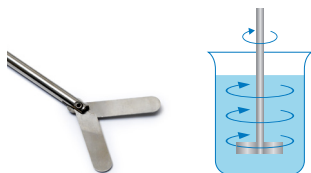
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

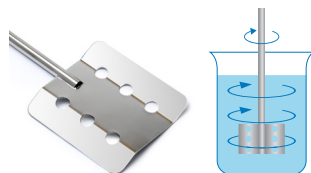
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

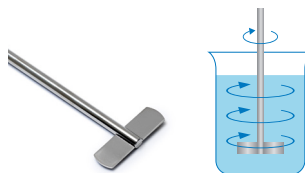
Code **A00001308**



Viscosity Range: L - M  
**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M  
**Flow: Radial**

### ■ Stirring shaft with turbo propeller

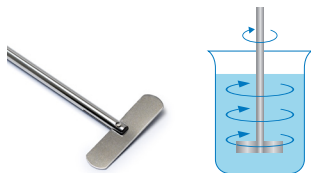
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

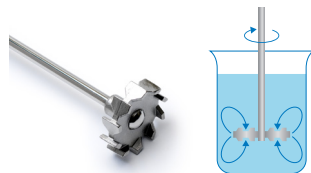
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

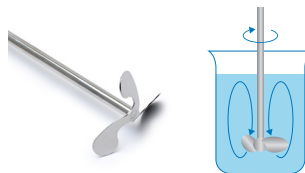
Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

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velpchina@velp.com





# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

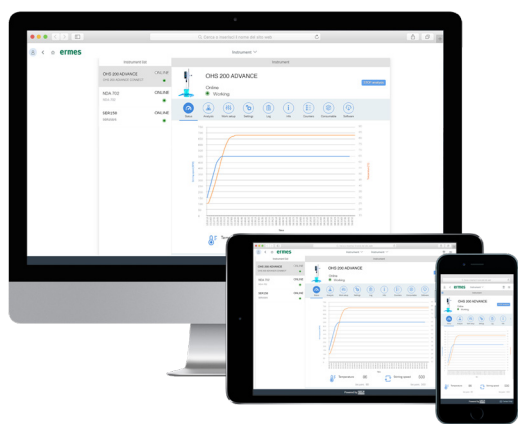
- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

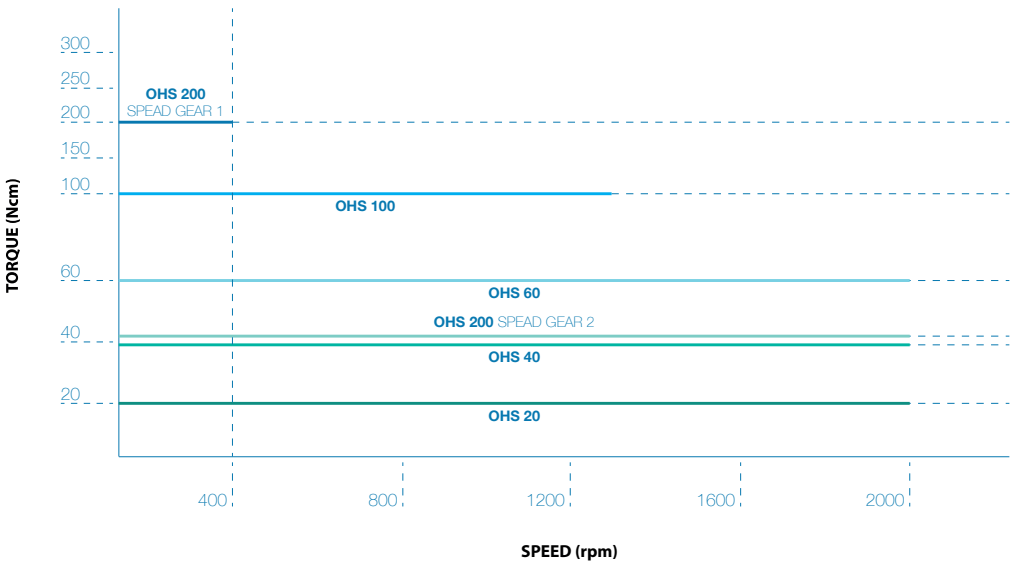


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE





## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

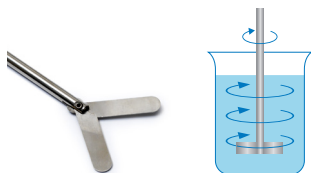
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

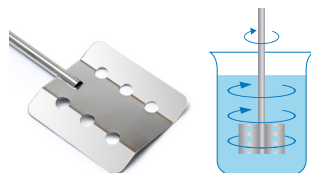
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

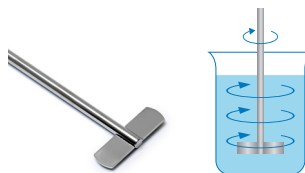
Code **A00001308**



Viscosity Range: L - M  
**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M  
**Flow: Radial**

### ■ Stirring shaft with turbo propeller

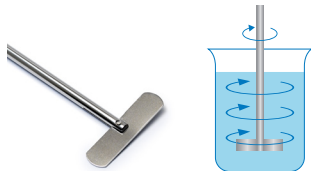
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

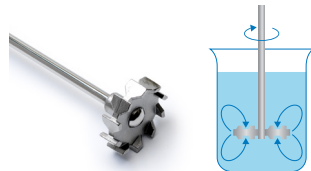
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000



# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



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VELP Official Partner

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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

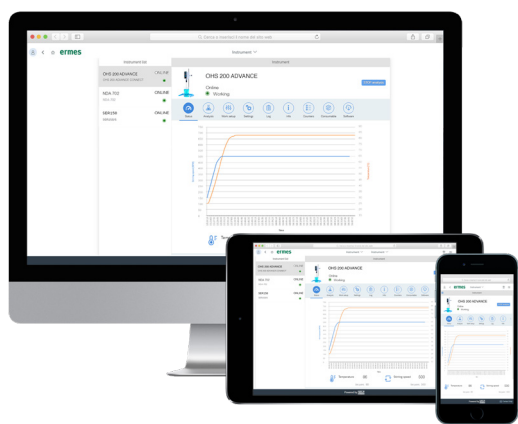
- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

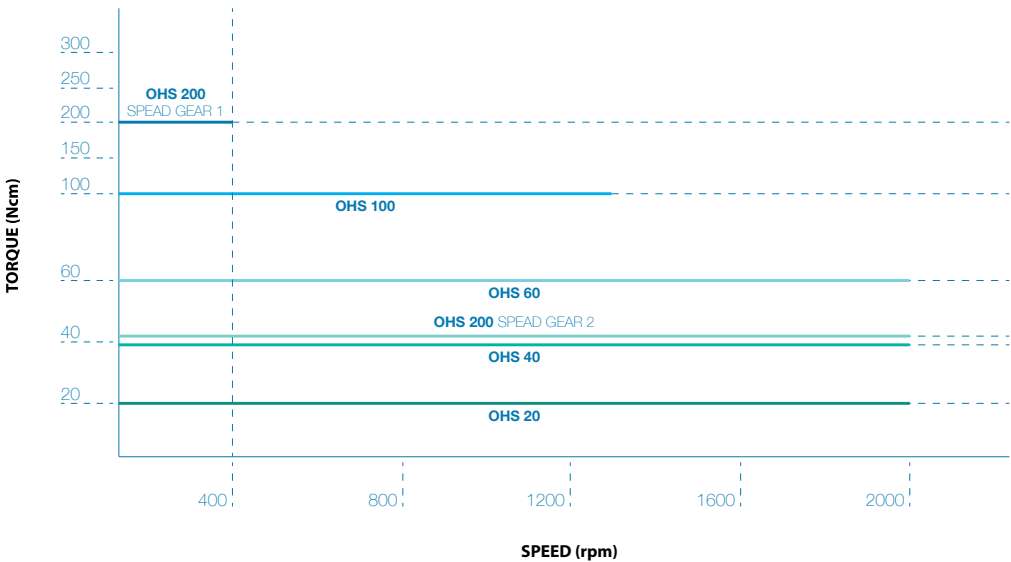


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE





## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

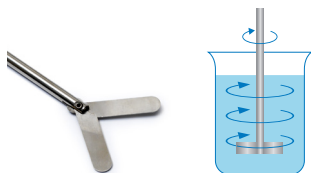
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

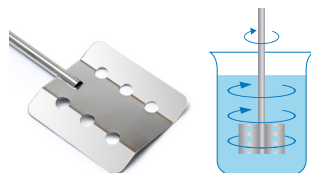
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

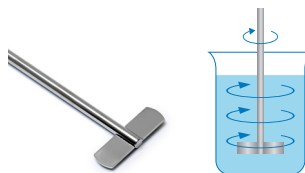
Code **A00001308**



Viscosity Range: L - M  
**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M  
**Flow: Radial**

### ■ Stirring shaft with turbo propeller

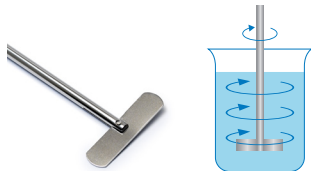
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

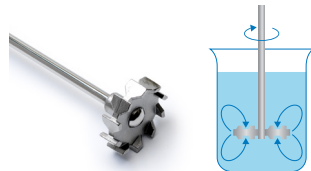
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

DESIGNED AND MANUFACTURED IN ITALY



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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

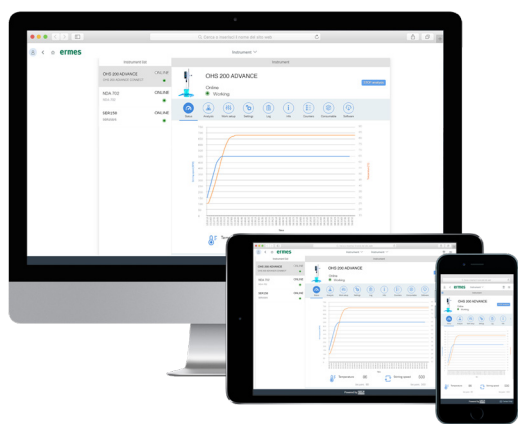
- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital



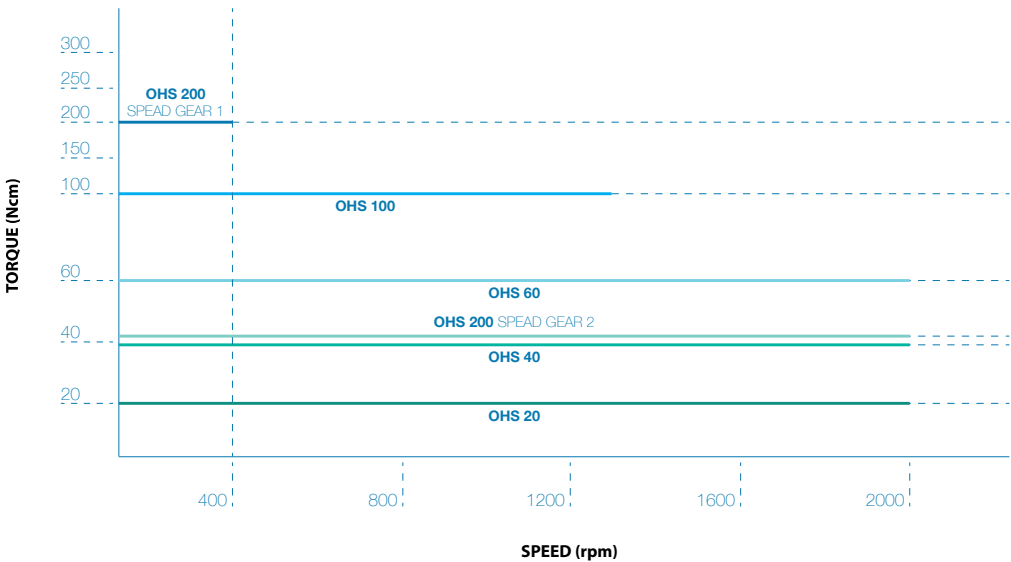
OHS 200 Digital



PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE



## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

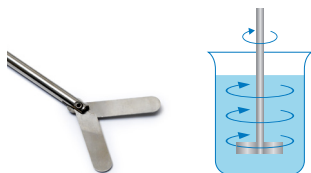
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

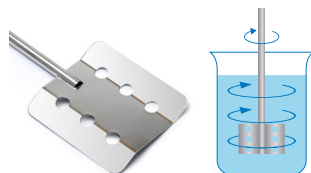
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

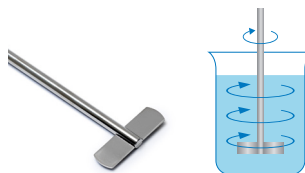
Code **A00001308**



Viscosity Range: L - M  
**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M  
**Flow: Radial**

### ■ Stirring shaft with turbo propeller

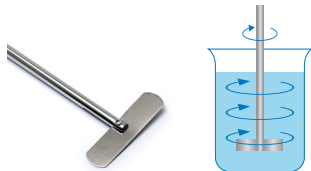
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

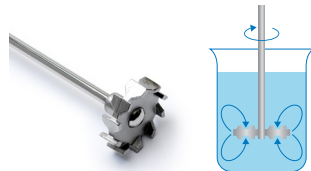
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

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- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



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We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

## DESIGNED AND MANUFACTURED IN ITALY



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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included



# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

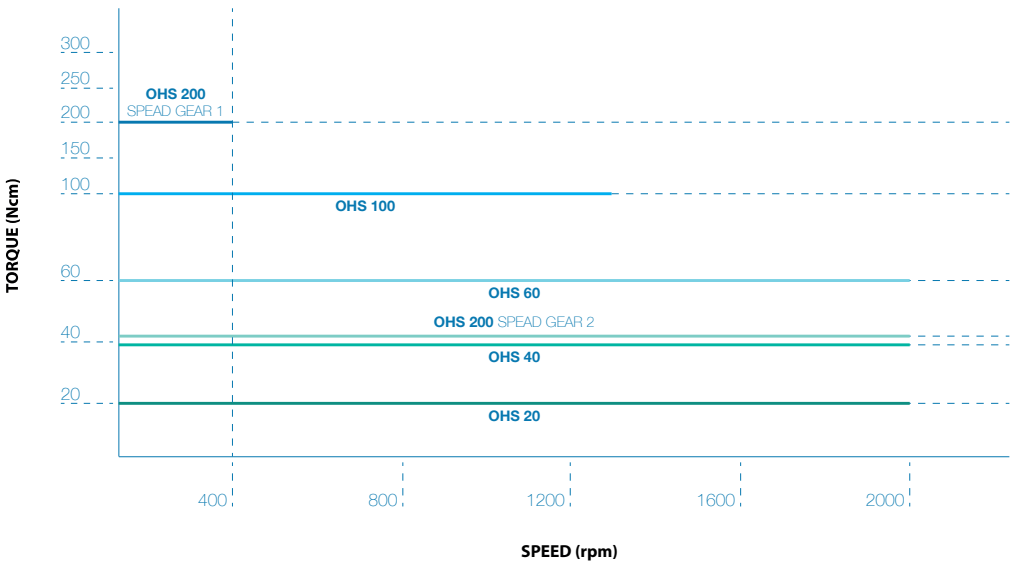


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE



## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

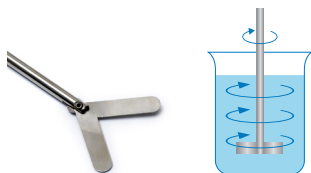
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

Code **A00001304**

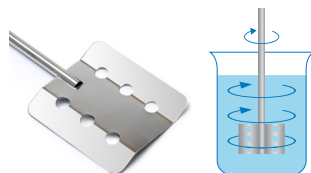


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

Code **A00001308**

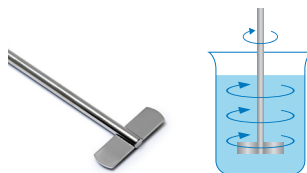


Viscosity Range: L - M

**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M

**Flow: Radial**

### ■ Stirring shaft with turbo propeller

Code **A00001310**

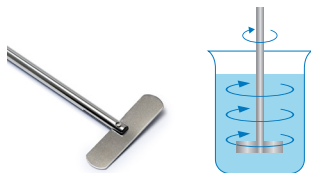


Viscosity Range: M - H

**Flow: Axial**

### ■ Stirring shaft with folding blade

Code **A00001305**

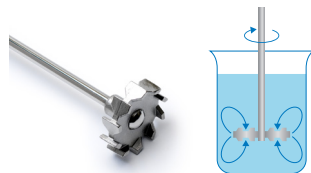


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H

**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M

**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H

**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGHT	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

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velpchina@velp.com



# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger





# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

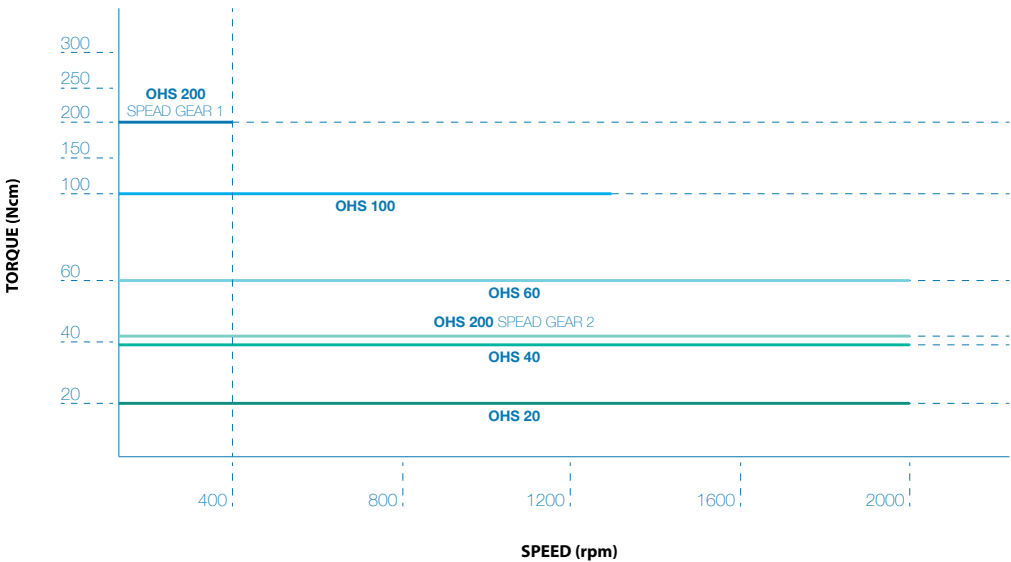


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE



## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

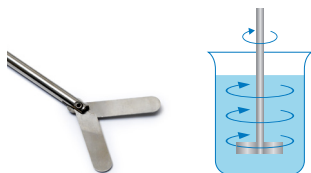
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

Code **A00001304**

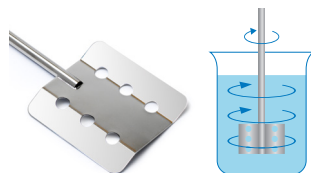


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

Code **A00001308**

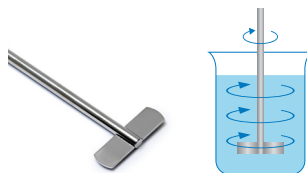


Viscosity Range: L - M

**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M

**Flow: Radial**

### ■ Stirring shaft with turbo propeller

Code **A00001310**

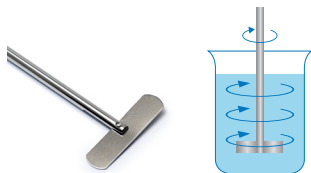


Viscosity Range: M - H

**Flow: Axial**

### ■ Stirring shaft with folding blade

Code **A00001305**

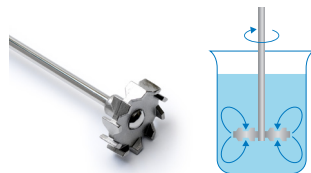


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H

**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M

**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H

**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

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- Analytical Support



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VELP Official Partner

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# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## UNRIVALLED SAFETY

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## SUPERIOR STIRRING POWER

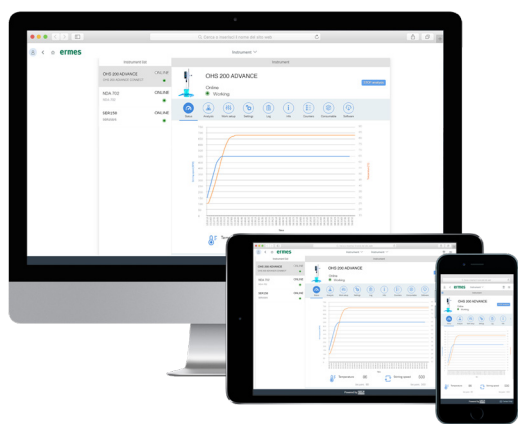
- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## DESIGNED TO SIMPLIFY YOUR WORK

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## EXCLUSIVE TECHNOLOGY

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to VELP Ermes Cloud Platform



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## SAFE AND ROBUST

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## SUPERIOR STIRRING POWER

- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## PREMIUM FEATURES

- Integral Timer for unattended operations
- Real time torque tendency led indicator
- USB Interface



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital



OHS 100 Digital

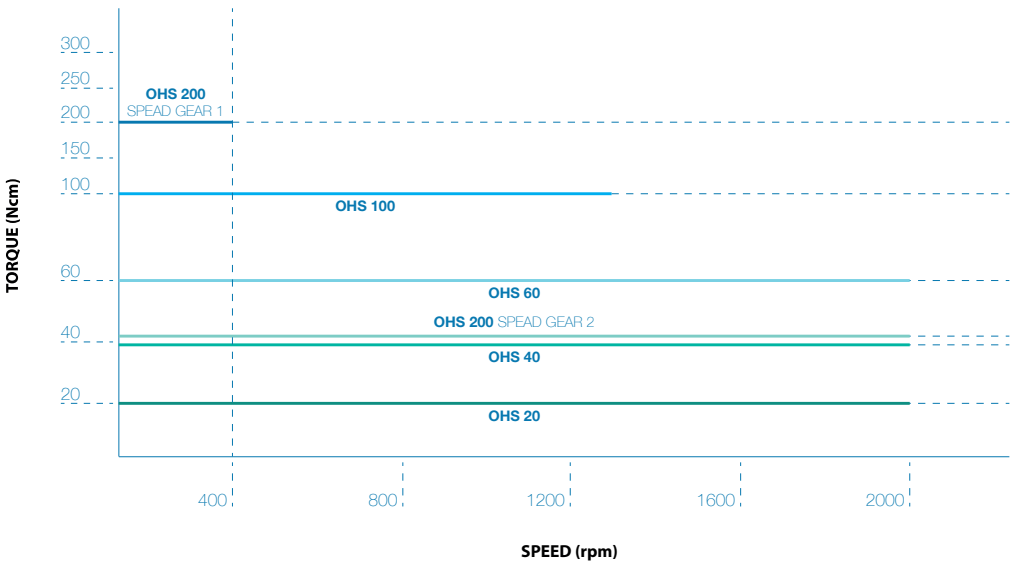


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE





## OPTIONAL ACCESSORIES

Double clamp	A00001301
Ribbon clamp	A00001302
Probe extension cable, lenght 1 m	A00000002
Glass temperature probe	A00000003
Kit Pt100 probe XL for OHS	TA00000394
Support rod for probe	A00000372
Chuck guard OHS	A00001312
OHS/ControllerSoft	A00000391
IQ/OQ Manual OHS ADVANCE	A00000380
IQ/OQ Manual OHS DIGITAL	A00000381
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

## INSTRUMENT - CODE

OHS 20 Digital	230 V / 50-60 Hz	F20100494
OHS 20 Digital	115 V / 60 Hz	F20110494
OHS 40 Digital	230 V / 50-60 Hz	F20100493
OHS 40 Digital	115 V / 60 Hz	F20110493
OHS 60 Digital	230 V / 50-60 Hz	F20100492
OHS 60 Digital	115 V / 60 Hz	F20110492
OHS 100 Digital	230 V / 50-60 Hz	F20100491
OHS 100 Digital	115 V / 60 Hz	F20110491
OHS 200 Digital	230 V / 50-60 Hz	F20100490
OHS 200 Digital	115 V / 60 Hz	F20110490
OHS 60 Advance	230 V / 50-60 Hz	F20100482
OHS 60 Advance	115 V / 60 Hz	F20110482
OHS 100 Advance	230 V / 50-60 Hz	F20100481
OHS 100 Advance	115 V / 60 Hz	F20110481
OHS 200 Advance	230 V / 50-60 Hz	F20100480
OHS 200 Advance	115 V / 60 Hz	F20110480

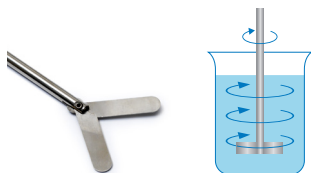
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

Code **A00001304**

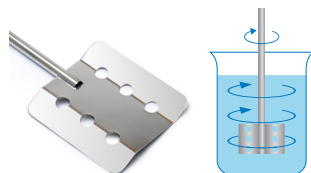


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

Code **A00001308**

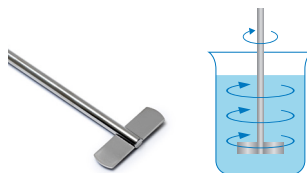


Viscosity Range: L - M

**Flow: Tangential**

### ■ Stirring shaft with fixed blade

Code **A00001306**



Viscosity Range: VL - L - M

**Flow: Radial**

### ■ Stirring shaft with turbo propeller

Code **A00001310**

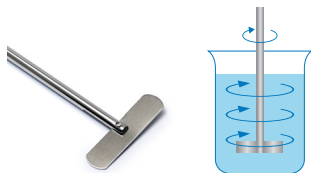


Viscosity Range: M - H

**Flow: Axial**

### ■ Stirring shaft with folding blade

Code **A00001305**

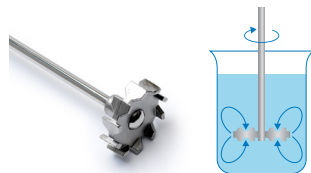


Viscosity Range: VL - L

**Flow: Radial**

### ■ Stirring shaft with turbine

Code **A00001309**



Viscosity Range: M - H

**Flow: Radial**

### ■ Stirring shaft with propeller

Code **A00001307**



Viscosity Range: VL - L - M

**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H

**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
Very Low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000 - 100,000

## SAMPLE VISCOSITY

Sample	mPa*s
Water	1
Kerosene	10
Lubricating oil	100
Castrol oil, Glycerin	1,000

Shampoo	3,000
Refined honey	7,000
Body cream	8,000
Honey	10,000

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000



# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
USER INTERFACE	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MOTOR	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
STIRRING VOLUME (H2O)	Up to 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED SETTING RESOLUTION	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
SPEED CONTROL	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
MAX VISCOSITY (mPa*s)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER PASS-THROUGH	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
SAFETY VIBRATION SENSOR	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
METHODS	-	-	-	-	-	Yes	Yes	Yes
LOCK OF THE INSTRUMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C
TEMPERATURE RESOLUTION	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



VELP Scientifica products are designed by our engineers to resist years of laboratory use. Our products are manufactured with premium materials to guarantee the best performance with maximum safety. According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.



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# OV 625 Digital

## Dispersers

---

Powerful digital disperser designed for excellent homogenization, suspension, emulsification and mixing.



# OV 625 Digital

The OV 625 Digital ensures the maximum level of reproducibility for a wide range of applications. Cutting-edge technology and engineering expertise guarantee precision and high shearing force for fast homogenization, emulsification, suspensions, and high-speed mixing of biological tissues, pharmaceuticals, cosmetics and food products.

## SIMPLY POWERFUL

- Speed range from 3,000 to 25,000 rpm, working at high circumferential speed
- Volume range from 0.2 ml to 2.5 litres (H<sub>2</sub>O)
- Handles samples up to 5,000 mPa\*s viscosity

## INTUITIVE AND EASY-TO-OPERATE

- The bright and intuitive digital display and the comfortable rotating knob enable precise electronic speed setting
- Fast and simple dispersing tool installation
- Innovative design for an optimized user experience

## SAFE AND RESISTANT

- Various safety functions, such as a soft start, motor overload protection, and overtemperature alarms, ensure the highest safety in daily operations
- A resistant and robust housing protects the internal electronic parts and ensures the instrument works even in the most challenging applications
- Premium construction materials guarantee excellent mechanical properties and chemical resistance



OV 625 Digital



OV 625 Digital System

## CONFIGURATIONS

## OPTIONAL ACCESSORIES

Double Rod Mini H-Stand Set	A00000383
-----------------------------	-----------

## INSTRUMENT - CODE

OV 625 Digital	230 V / 50-60 Hz	F20900470*
OV 625 Digital	115 V / 60 Hz	F20910470*
OV 625 Digital System	230 V / 50-60 Hz	SA20900470**
OV 625 Digital System	115 V / 60 Hz	SA20910470**

\*Includes: OV 625 Digital Disperser; Tool disassembly kit.

\*\*Includes: OV 625 Digital Disperser; Tool disassembly kit; Double Rod Mini H-Stand; D20-S20C-P-R20S Dispersing tool.

# VELP Dispensing Tools

High-quality stainless steel dispensing tools featuring a PTFE seal. VELP D20 series tools ensure high chemical resistance and easy and quick installation procedure.

## Included in the system

### D20-S20C-P-R20S

Code A00000478



Dispensing tool suitable for the majority of laboratory applications.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 10 µm
- ULTIMATE FINENESS SUSPENSION: 10 - 50 µm

INDUSTRY:

### D20-S20F-P-R20C

Code A00000462



Dispensing tool for solid-liquid dispersion, suitable for fibrous samples.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7 µm
- ULTIMATE FINENESS SUSPENSION: 5 - 40 µm

INDUSTRY:

### D20-S20F-P-R20E

Code A00000463



Emulsifying tool for liquid-liquid dispersions requiring a high final fineness.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7 µm
- ULTIMATE FINENESS SUSPENSION: 5 - 40 µm

INDUSTRY:

### D20-S20F-P-R20M

Code A00000464



Dispensing tool, suitable for emulsions (liquid-liquid) and suspensions (solid-liquid), requiring high final fineness.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7 µm
- ULTIMATE FINENESS SUSPENSION: 5 - 40 µm

INDUSTRY:

### D20-S25C-P-R25C

Code A00000479



Universal dispensing tool for high volumes, particularly suitable for dispersing solid phases.

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 10 µm
- ULTIMATE FINENESS SUSPENSION: 15 - 50 µm

INDUSTRY:

### D20-S20F-P-R25E

Code A00000480



High peripheral speed emulsifying tool suitable for particularly fine liquid-liquid dispersions.

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 5 µm
- ULTIMATE FINENESS SUSPENSION: 5 - 25 µm

INDUSTRY:

### D20-S25F-P-R25M

Code A00000469



Dispensing tool for particularly fine emulsions (liquid-liquid) and suspensions (solid-liquid).

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 5 µm
- ULTIMATE FINENESS SUSPENSION: 5 - 25 µm

INDUSTRY:

### D20-S40C-P-R25C

Code A00000472



Dispensing tool for high-speed stirring and crushing of solid samples in a liquid.

- VOLUME RANGE: 1,000 - 4,000 ml
- STATOR DIAMETER: 40 mm
- ROTOR DIAMETER: 18 mm

INDUSTRY:

### D20-S5S-P-R5S

Code A00000473



Dispensing tool for solid-liquid and liquid-liquid dispersions, suitable for processing particularly small volumes.

- VOLUME RANGE: 0,2 - 50 ml
- STATOR DIAMETER: 5 mm
- ROTOR DIAMETER: 3.2 mm
- ULTIMATE FINENESS EMULSION: 1 - 10 µm
- ULTIMATE FINENESS SUSPENSION: 10 - 50 µm

INDUSTRY:

## INDUSTRY LEGEND

# TECHNICAL DATA

	OV 625 Digital
USER INTERFACE	Digital
HOUSING MATERIAL	Aluminum - Technopolymer
VOLUME (H <sub>2</sub> O)	0.2 ml - 2,500 ml
SPEED RANGE	3,000 – 25,000 rpm
SPEED CONTROL	Digital
SPEED SETTING RESOLUTION	200 rpm
NOISE (WITHOUT ELEMENT)	75 dBA
PERMISSIBLE AMBIENT TEMPERATURE	+5 ... +40 °C
PERMISSIBLE RELATIVE HUMIDITY	Up to 80%
MOTOR	BAC
POWER INPUT	800 W
WEIGHT	2.4 kg (5.3 lb)
DIMENSIONS (WXHxD)	92x280x130 mm (3.6x11x5.1 in)



## SERVICE & SUPPORT

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Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

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# OV 725 Digital

## Dispersers

---

Achieve More, Experience More in your dispersion, homogenization  
and mixing challenges



# OV 725 Digital

The OV 725 Digital ensures accurate results, effortless operation, and lasting durability. Engineered for homogenizing, emulsifying, suspending, and rapidly mixing cosmetics, food items, pharmaceuticals, and biological tissues across all laboratory applications.

## SUPERIOR PERFORMANCE AND LASTING DURABILITY

- Powerful brushless motor running from 2,000 up to 25,000 rpm.
- Volume range from 0.2 ml to 2.5 L (H<sub>2</sub>O).
- Handles samples up to 5,000 mPa\*s viscosity.

## SMART MAINTENANCE AND RELIABLE MONITORING

- LED indicators signal the time remaining before maintenance for prompt gasket replacement.
- The integral cyclic timer (up to 99:59 hours) guarantees accurate results, unattended operations and helps process a large number of a samples in series.
- The efficient motor dissipates heat better, reducing instrument overheating risk.

## SAFE AND EASY-TO-USE

- Quick and simple dispersing tool installation system.
- Dedicated alarms provide user with proactive alerts for potential risks like overtemperature, motor failure, and improper tool installation.
- The control panel is designed to optimize user experience with the bright and intuitive 4-digit LED display.



OV 725 Digital



OV 725 Digital System

## CONFIGURATIONS

## OPTIONAL ACCESSORIES

Double Rod Mini H-Stand Set	A00000484
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## INSTRUMENT - CODE

OV 725 Digital	230 V / 50-60 Hz	F20900475*
OV 725 Digital	115 V / 60 Hz	F20910475*
OV 725 Digital System	230 V / 50-60 Hz	SA20900475**
OV 725 Digital System	115 V / 60 Hz	SA20910475**

\*Includes: OV 725 Digital Disperser; Tool disassembly kit.

\*\*Includes: OV 725 Digital Disperser; Tool disassembly kit; Double Rod Mini H-Stand; D20-S20C-P-R20S Dispersing tool.

# VELP Dispensing Tools

High-quality stainless steel dispensing tools featuring a PTFE seal. VELP D20 series tools ensure high chemical resistance and easy and quick installation procedure.

## Included in the system

### D20-S20C-P-R20S

Code A00000478



Dispensing tool suitable for the majority of laboratory applications.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 10  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 10 - 50  $\mu$ m

INDUSTRY:

### D20-S20F-P-R20C

Code A00000462



Dispensing tool for solid-liquid dispersion, suitable for fibrous samples.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 5 - 40  $\mu$ m

INDUSTRY:

### D20-S20F-P-R20E

Code A00000463



Emulsifying tool for liquid-liquid dispersions requiring a high final fineness.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 5 - 40  $\mu$ m

INDUSTRY:

### D20-S20F-P-R20M

Code A00000464



Dispensing tool, suitable for emulsions (liquid-liquid) and suspensions (solid-liquid), requiring high final fineness.

- VOLUME RANGE: 50 - 2,000 ml
- STATOR DIAMETER: 20 mm
- ROTOR DIAMETER: 15 mm
- ULTIMATE FINENESS EMULSION: 1 - 7  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 5 - 40  $\mu$ m

INDUSTRY:

### D20-S25C-P-R25C

Code A00000479



Universal dispensing tool for high volumes, particularly suitable for dispersing solid phases.

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 10  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 15 - 50  $\mu$ m

INDUSTRY:

### D20-S20F-P-R25E

Code A00000480



High peripheral speed emulsifying tool suitable for particularly fine liquid-liquid dispersions.

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 5  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 5 - 25  $\mu$ m

INDUSTRY:

### D20-S25F-P-R25M

Code A00000469



Dispensing tool for particularly fine emulsions (liquid-liquid) and suspensions (solid-liquid).

- VOLUME RANGE: 100 - 2,500 ml
- STATOR DIAMETER: 25 mm
- ROTOR DIAMETER: 18 mm
- ULTIMATE FINENESS EMULSION: 1 - 5  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 5 - 25  $\mu$ m

INDUSTRY:

### D20-S40C-P-R25C

Code A00000472



Dispensing tool for high-speed stirring and crushing of solid samples in a liquid.

- VOLUME RANGE: 1,000 - 4,000 ml
- STATOR DIAMETER: 40 mm
- ROTOR DIAMETER: 18 mm

INDUSTRY:

### D20-S5S-P-R5S

Code A00000473



Dispensing tool for solid-liquid and liquid-liquid dispersions, suitable for processing particularly small volumes.

- VOLUME RANGE: 0,2 - 50 ml
- STATOR DIAMETER: 5 mm
- ROTOR DIAMETER: 3.2 mm
- ULTIMATE FINENESS EMULSION: 1 - 10  $\mu$ m
- ULTIMATE FINENESS SUSPENSION: 10 - 50  $\mu$ m

INDUSTRY:

## INDUSTRY LEGEND

# TECHNICAL DATA

	OV 725 Digital
USER INTERFACE	Digital
HOUSING MATERIAL	Aluminum - Technopolymer
VOLUME (H <sub>2</sub> O)	0.2 ml - 2.5 L
SPEED RANGE	2,000 – 25,000 rpm
SPEED CONTROL	Digital
SPEED SETTING RESOLUTION	100 rpm
NOISE (WITHOUT ELEMENT)	70 dBa
PERMISSIBLE AMBIENT TEMPERATURE	+5 ... +40 °C
PERMISSIBLE RELATIVE HUMIDITY	Up to 80%
WORKING TIMER	Yes (up to 99:59 hours)
DISPERSING TOOL MAINTENANCE TIMER	Yes
ALARM IF DISPERSING TOOL IS NOT PRESENT	Yes
INSTRUMENT OVERTEMPERATURE ALARM	Yes
MOTOR	Brushless (BLDC)
MOTOR COUNTER	Yes, Hours or days of working
POWER INPUT	500 W
WEIGHT	3.7 kg (8.1 lb)
DIMENSIONS (WXHxD)	100x280x235 mm (3.9x11x9.3 in)



## SERVICE & SUPPORT

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# PW

## Overhead Stirrers

---

Powerful overhead stirrer with 120 Ncm torque  
ideal for stirring high viscosity applications





# Resistant and Easy-to-Use

The PW is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

- Maximum torque of 120 Ncm
- Supports applications with a maximum viscosity of 100 000 mPa\*s
- Electronic speed regulation from 20 to 1200 rpm, up to 70 L
- Long life, robust motor
- Easy-chuck to change the shafts without tools
- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection
- Sealed to IP 40 standard



## INSTRUMENT - CODE

PW

110-230 V / 50-60 Hz

F201A0150

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Technopolymer and epoxy painted aluminum alloy
CHUCK RANGE	1 - 10 mm
ELECTRONIC PROTECTION RATING CEI EN 60529	IP 40
ELECTRONIC SPEED REGULATION	From 20 to 1200 rpm
STIRRING VOLUME MAX (H <sub>2</sub> O)	Up to 70 L
MAX VISCOSITY	100 000 (mPa*s)*
TORQUE MAX	120 Ncm
ALLOWED ROOM TEMPERATURE	From 0 to 40 °C
DIMENSION (WXHxD)	80x230x196 mm (3.1x9x7.7 in)
POWER	190 W
WEIGHT	2.9 Kg (6.4 lb)



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# RC 2

## Heating Plates

---

Safety, ease-of-use, and excellent heating  
in two independent positions



# Practical and Easy to use

- Excellent Heating Performance
- Two independent positions able to heat the medium up to 310 °C
- The 135 mm diameter aluminum alloy top plate ensures great temperature homogeneity and optimum heat transfer across the entire surface
- Two illuminated indicators always inform the operator when heating is on and temperature above 50°C
- Different combinations of AluBlocks™ are accepted to maximize temperature control and save handling time
- Designed for the longest lifespan and guaranteed by 3 years warranty with online product registration



## INSTRUMENT - CODE

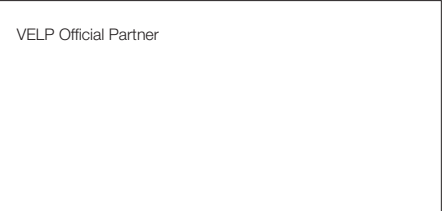
RC 2	230 V / 50-60 Hz	F20700620
RC 2	115 V / 50-60 Hz	F20710620

## TECHNICAL DATA

USER INTERFACE	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure
NUMBER OF POSITIONS	Two positions
PLATE MATERIAL	Aluminum alloy
PLATE DIAMETER	135 mm
TEMPERATURE RANGE	Room temp - 310 °C
HEATING CONTROL	Analog
HOT PLATE WARNING SYSTEM	Illuminated Icons (when the temperature is above 50 °C)
POWER INPUT	1200 W
WEIGHT	2.6 kg (5.8 lb)
DIMENSIONS (WXHXD)	340x90x270 (13.4x3.5x10.6 in)



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# RC 5

## Heating Plates

---

Single-position heating plate with aluminum top



# Excellent Heating Performance

The RC 5 is equipped with a 135 mm diameter aluminum alloy top plate ensuring a great temperature homogeneity and optimum heat transfer across the entire surface.

Designed to guarantee ease of use, the longest lifespan and excellent resistance to chemicals.

- Maximum temperature 310 °C
- Accepts flasks of up to 15 L volume
- Hot plate warning indicators
- IP 42 certified



## INSTRUMENT - CODE

RC 5	230 V / 50-60 Hz	F20700610
RC 5	115 V / 50-60 Hz	F20710610

## TECHNICAL DATA

	RC 5
HOUSING MATERIAL	Epoxy painted aluminum structure
PLATE MATERIAL	Aluminum alloy
PLATE DIMENSION	135 mm
TEMPERATURE RANGE	Room temp. - 310 °C
HOT TOP WARNING SYSTEM	Illuminated Icon (when the temperature is above 50 °C)
POWER INPUT	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C
PROTECTION CLASS	IP 42
WEIGHT	1.4 Kg (3.1 lb)
DIMENSIONS (WxHxD)	160x85x270 mm (6,3x3,3x10,6 in)



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# REC 7

## Heating Plates

---

Digital hot plate with ceramic top ensuring excellent heating performance and ease-of-use



# Resistant and Easy to use

The VELP REC 7 is the laboratory digital heating plate with ceramic top ensuring high resistance to corrosion, and precise temperature setting.

- Cutting-edge heating plate technology ensuring homogeneity, thermal efficiency and excellent heating performance over time
- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals
- Bright digital display for precise temperature setting showing actual and setpoint temperature
- Hot Surface Safety message displayed when the temperature is above 50 °C
- Run-off groove to protect the electronics



## INSTRUMENT - CODE

REC 7	230 V / 50-60 Hz	F20700553
REC 7	115 V / 60 Hz	F20710553

## TECHNICAL DATA

	REC 7
HOUSING MATERIAL	Technopolymer
PLATE MATERIAL	Ceramic
PLATE DIMENSION	180x180 mm (7x7 in)
HEATING CONTROL	Digital
TEMPERATURE SETTING RESOLUTION	5 °C
TEMPERATURE RANGE	Room temp. - 550 °C
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)
POWER INPUT	780 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C
WEIGHT	2.7 kg (5.9 lb)
DIMENSIONS (WxHxD)	203x94x344 mm (8x3.7x13.5 in)



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

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# REC 10 Digital

## Heating Plates

---

Digital heating plate with ceramic with a large surface  
for demanding heating tasks



# Large Surface Heating Plate

The REC 10 Digital provides a 10-inch spacious plate for demanding heating tasks, ensuring great temperature homogeneity and optimum heat transfer.

- Designed to guarantee ease of use and excellent resistance to chemicals
- Digital display for precise temperature settings up to 550 °C
- A "Hot Surface" warning message is displayed when the temperature exceeds 50 °C, even when inactive
- Accepts flasks of up to 25 L volume
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1\text{ }^{\circ}\text{C}$ ) and VTF Digital Thermoregulator ( $\pm 0.5\text{ }^{\circ}\text{C}$ )
- Designed for the longest lifespan and guaranteed by 3 years warranty with online product registration



## INSTRUMENT - CODE

REC 10 Digital	230 V / 50-60 Hz	F20700693
REC 10 Digital	115 V / 60 Hz	F20710693
REC 10 Digital	100 V / 50-60 Hz	F20780693

## TECHNICAL DATA

USER INTERFACE	Digital
HOUSING MATERIAL	Aluminum body - Technopolymer enclosure
PLATE MATERIAL	Ceramic
PLATE DIMENSION	260x260 mm; 10x10 in
TEMPERATURE RANGE	Room temp - 550 °C
HEATING CONTROL	Digital
EXTERNAL TEMPERATURE SENSOR CONNECTION	PT100 Pt1000 VTF
THERMOREGULATION RANGE	Room temp. - 350 °C
THERMOREGULATION ACCURACY	$\pm 1\text{ }^{\circ}\text{C}$ (Pt100; Pt1000) $\pm 0.5\text{ }^{\circ}\text{C}$ (VTF)
HOT PLATE WARNING SYSTEM	On Display (when the temperature is above 50 °C)
POWER INPUT	1510 W (230 V / 50-60 Hz) 1500 W (115 V / 60 Hz) 1300 W (100 V / 50-60 Hz)
WEIGHT	5.3 kg 11.6 lb
DIMENSIONS (WXHxD)	280x100x420 mm 11.02x3.93x16.53 in



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velpchina@velp.com

Rev 2 12.2024



# RESPIROMETRIC Sensor

## BOD and Respirometers

---

Versatile, compact and reliable solution  
for Aerobic and Anaerobic Respiration Tests





# RESPIROMETRIC Sensor

The RESPIROMETRIC Sensor is the new VELP measuring sensor designed to perform multiple respiration and degradation tests in a wide range of application such as Biochemical Oxygen Demand (BOD), Biochemical Methane Potential (BMP), Soil respiration test, Plastic Biodegradability test and more.

## VERSATILE AND PRECISE

- VELP RESPIROMETRIC Sensor is able to perform any kind of respirometric studies thanks to its powerful pressure sensor reading results in the range of 500 ÷ 2000 mbar (hPa).
- It is possible to perform Aerobic and Anaerobic analysis with the same Sensor by choosing the proper System.
- The RESPIROMETRIC Sensor allows results reading on display and through the software in BOD, BMP and Pressure.

## UNIQUE WIRELESS CONTROL

- The RESPIROMETRIC Sensor transmits data directly to the PC enabling real-time monitoring of the analysis curve.
- Respirometric studies can last days and even months, the VELP solution ensures constant monitoring of multiple analysis from an intuitive proprietary software, RESPIROSoft™.

## COMPREHENSIVE AND COMPACT

- VELP RESPIROMETRIC Sensor Systems come with all the required accessories to be operational right from the start.
- Different sizes and types of bottles and stirring stations to match any application requirement.
- The space-saving design of the systems maximize the number of sensors fitting inside the incubator.

## SCALABLE AND CLOUD ENABLED

- Wireless transmission of the RESPIROMETRIC Sensor measurement to the DataBox™ that is able to store data of up to 400 sensors, 66 systems.
- Thanks to the Wi-Fi module the DataBox™ sends the data to the VELP Ermes cloud platform ensuring revolutionary lab experience.
- Both VELP Respirometric Sensor and FOC Connect Incubator can be monitored and controlled from VELP Ermes for a total control of the analyses.



**ermes enabled**

## EASY-TO-USE SENSOR

Intuitive buttons to set the analysis type, start the test and read the data



Bright 4-digit LED display

Fits easily on VELP bottles and kits

# RESPIROSoft™ Software

The RESPIROMETRIC Sensor comes with the proprietary software RESPIROSoft™ designed by VELP to operate with the new sensors. RESPIROSoft™ is extremely intuitive and easy to use providing all the important information of the analysis and the sensors batteries status in one window.

- Real-time analysis curve (BOD, Pressure)
- Most important info clearly displayed at a glance
- Sensors batteries status monitoring
- Preinstalled methods
- Customized test reports
- Results comparison

## SAMPLING TIME:

- From 30m to 48h, depending on the test duration

## MEASURING PERIOD:

- From 1 to 730 days



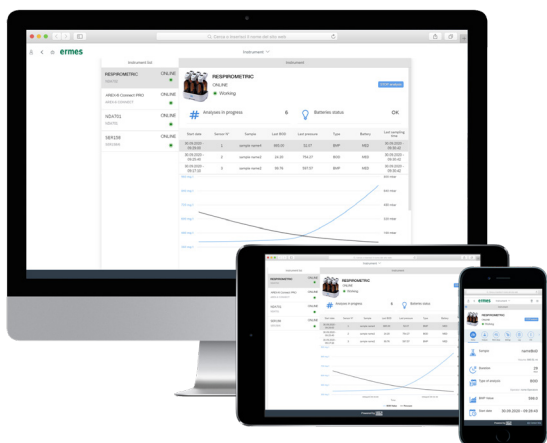
## Wireless DataBox™

The VELP DataBox™ is included in the Systems together with the RESPIROSoft™ Software and enables wireless data transmission from the RESPIROMETRIC Sensor to the PC. The DataBox™ store results for up to 400 RESPIROMETRIC Sensors (66 systems).

The DataBox™ comes with an integrated Wi-Fi module to transmit data from the sensors to the VELP ERMES Cloud Platform. It is also possible to connect the DataBox™ to a plug and send the data to VELP Ermes without the need to connect it to the PC (after starting the analysis from the software).



## VELP ERMES CONNECTION



Connect the RESPIROMETRIC Sensor to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud Platform connection will unburden you from tedious tasks improving your lab productivity.

- Real time visualization of your analysis with graph, even on multiple locations from PC, Tablet and Smartphone.
- Real time instrument working conditions.
- Enhanced service and application support.
- Access to your analysis database anytime, anywhere.
- Create and share analysis report in multiple formats.
- Immediate event and alert notifications based on your settings (on platform and email).

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# The Right System for your Application

The VELP RESPIROMETRIC Sensor Systems contain all the required parts and accessories in order to be operational right from the start. VELP has designed different systems suitable for aerobic and anaerobic applications.

## RESPIROMETRIC Sensor System

### BOD AND OTHER AEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD5, BOD7, BOD Ultimate, Assessment of disinfection on BOD.
- BOD scales: 90, 250, 600, 999, 4000 (higher values after dilution).
- Biodegradation of monomers application to study the microbial activities involved in the production plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).

**Included in the system:** Stirring station, 500 ml amber bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System MAXI

### BMP AND OTHER ANAEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System Maxi is designed to support anaerobic respiration studies to determine the Biochemical Methane Potential (BMP) of biomass. The BMP analysis studies the production of biogas from organic wastes mainly for Waste and Wastewater treatment and for Renewable Energy Production.

- Results reading in Pressure (millibar) and automatic conversion in BMP value (NmLCH4/gSV)
- The system is suitable also for other anaerobic studies such as Denitrification Tests (Requires 6 Denitrification glass bottles A00000410).

**Included in the system:** Maxi stirring station, 1000 ml bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Plastic Biodegradability

### AEROBIC BIODEGRADABILITY OF PLASTICS

The RESPIROMETRIC Sensor System for plastic biodegradability is designed to support aerobic degradation test for the determination of the degree of aerobic biodegradability of plastic materials, including those containing formulation additives, in an aqueous medium.

- Multistirrer Digital 6-positions to precisely set stirring speed and enable the lock feature to avoid unintentional modification of the stirring speed.
- Results reading in Pressure values (millibar).

**Included in the system:** Multistirrer Digital 6-positions, 6 Kits plastic biodegradability analysis, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Soil Analysis

### AEROBIC SOIL AND COMPOST RESPIRATION TESTS

The RESPIROMETRIC Sensor System for soil analysis is designed to support aerobic degradation tests on soil and compost. The analysis provides microbial soil respiration results from the mineralization of organic substances. A major application of these test is related to the detection and monitoring processes during decontaminations and clean-ups.

- The analysis is carried out directly on soil/compost in the 1000ml flask.
- Results reading in Pressure values (millibar).

**Included in the system:** 6 Kits soil analysis, DataBox™ and RESPIROSoft™ software.





# INSTRUMENT - CODE

RESPIROMETRIC Sensor System 6	230 V / 50-60 Hz	SA10200146
RESPIROMETRIC Sensor System 6	115 V / 60 Hz	SA10210146
RESPIROMETRIC Sensor System 6 no Databox™	230 V / 50-60 Hz	SB10200146
RESPIROMETRIC Sensor System 6 no Databox™	115 V / 60 Hz	SB10210146
RESPIROMETRIC Sensor System 6 Maxi	230 V / 50-60 Hz	SA10200156
RESPIROMETRIC Sensor System 6 Maxi	115 V / 60 Hz	SA10210156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	230 V / 50-60 Hz	SB10200156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	115 V / 60 Hz	SB10210156
RESPIROMETRIC Sensor System for Plastic Biodegradability	100-240 V / 50-60Hz	SA102A0166
RESPIROMETRIC Sensor System for Plastic Biodegradability no Databox™	100-240 V / 50-60Hz	SB102A0166
RESPIROMETRIC Sensor System for Soil Analysis	-	SA102B0176
RESPIROMETRIC Sensor System for Soil Analysis no Databox™	-	SB102B0176

## OPTIONAL ACCESSORIES

Multi-socket extension cable EU	A00000221
Multi-socket extension cable UK	A00000222
Multi-socket extension cable AU	A00000223
USA plug for power supply	10003083
UK plug for power supply	10003084
AU plug for power supply	10003085
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## TESTING ACCESSORIES



A00000135  
Sensor check



A00000136  
Control Test  
tablets

## BOTTLE & KITS



A00000419  
Kit plastic  
biodegradability  
analysis



A00000418  
Kit Soil Analysis



A00000410  
Denitrification  
glass bottle



# TECHNICAL DATA

	RESPIROMETRIC SENSOR
NUMBER OF SENSORS PER SYSTEM	6
SENSOR DISPLAY	4-digit LED display
MEASUREMENT	Electronic pressure sensor
TEST TYPOLOGY	BOD (mg/l), BMP (NmLCH4/gSV), PRESSURE (millibar)
PRESSURE RANGE	500 ÷ 2000 mbar (hPa)
BOD SCALES	90, 250, 600, 999, 4000 ppm, Higher values after dilution
BOTTLE VOLUMES	500 ml and 1000 ml
DATABOX SENSOR CAPACITY	Up to 400 RESPIROMETRIC Sensors
DATABOX POWER SUPPLY	USB / Plug
CONNECTIVITY	RESPIROSoft™ via USB / Ermes via Wi-Fi
SAMPLING TIME	From 30m to 48h, depending on the test duration
MEASURING PERIOD	From 1 to 730 days
DATA STORAGE	On Sensor, RESPIROSoft™ Database, Ermes Cloud
SENSOR CONSTRUCTION MATERIAL	Technopolymer
SENSOR DIMENSIONS (WXHDX)	50x70x70 mm (Sensor)
SENSOR POWER	2 W
SENSOR BATTERY TYPE	CR 2430
STIRRING STATION POWER SUPPLY	Stirring Station: 230 V / 50-60 Hz or 115 V / 60 Hz Stirring Station Maxi: 230 V / 50-60 Hz or 115 V / 60 Hz Multistirrer Digital 6: 100-240 V / 50-60 Hz
STIRRING STATION DIMENSIONS (WXHDX)	Stirring Station: 270x300x185 mm Stirring Station Maxi: 432x300x165 mm Multistirrer Digital 6: 230x51.5x370 mm
WEIGHT	Sensor: 80 g Stirring Station: 1 Kg Stirring Station Maxi: 3 Kg Multistirrer Digital 6: 1,75 Kg
SAFETY CLASS	IEC/EN61010-1
SENSOR PROTECTION DEGREE	IP 54-EN 60529



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument.

VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.

### GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Installation
- Preventive Maintenance
- Help-desk and Remote support
- Technical Assistance
- Analytical Support
- Calibration Certification



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# RESPIROMETRIC Sensor

## BOD and Respirometers

---

Versatile, compact and reliable solution  
for Aerobic and Anaerobic Respiration Tests



# RESPIROMETRIC Sensor

The RESPIROMETRIC Sensor is the new VELP measuring sensor designed to perform multiple respiration and degradation tests in a wide range of application such as Biochemical Oxygen Demand (BOD), Biochemical Methane Potential (BMP), Soil respiration test, Plastic Biodegradability test and more.

## VERSATILE AND PRECISE

- VELP RESPIROMETRIC Sensor is able to perform any kind of respirometric studies thanks to its powerful pressure sensor reading results in the range of 500 ÷ 2000 mbar (hPa).
- It is possible to perform Aerobic and Anaerobic analysis with the same Sensor by choosing the proper System.
- The RESPIROMETRIC Sensor allows results reading on display and through the software in BOD, BMP and Pressure.

## UNIQUE WIRELESS CONTROL

- The RESPIROMETRIC Sensor transmits data directly to the PC enabling real-time monitoring of the analysis curve.
- Respirometric studies can last days and even months, the VELP solution ensures constant monitoring of multiple analysis from an intuitive proprietary software, RESPIROSoft™.

## COMPREHENSIVE AND COMPACT

- VELP RESPIROMETRIC Sensor Systems come with all the required accessories to be operational right from the start.
- Different sizes and types of bottles and stirring stations to match any application requirement.
- The space-saving design of the systems maximize the number of sensors fitting inside the incubator.

## SCALABLE AND CLOUD ENABLED

- Wireless transmission of the RESPIROMETRIC Sensor measurement to the DataBox™ that is able to store data of up to 400 sensors, 66 systems.
- Thanks to the Wi-Fi module the DataBox™ sends the data to the VELP Ermes cloud platform ensuring revolutionary lab experience.
- Both VELP Respirometric Sensor and FOC Connect Incubator can be monitored and controlled from VELP Ermes for a total control of the analyses.



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## EASY-TO-USE SENSOR

Intuitive buttons to set the analysis type, start the test and read the data



Bright 4-digit LED display

Fits easily on VELP bottles and kits

# RESPIROSoft™ Software

The RESPIROMETRIC Sensor comes with the proprietary software RESPIROSoft™ designed by VELP to operate with the new sensors. RESPIROSoft™ is extremely intuitive and easy to use providing all the important information of the analysis and the sensors batteries status in one window.

- Real-time analysis curve (BOD, Pressure)
- Most important info clearly displayed at a glance
- Sensors batteries status monitoring
- Preinstalled methods
- Customized test reports
- Results comparison

## SAMPLING TIME:

- From 30m to 48h, depending on the test duration

## MEASURING PERIOD:

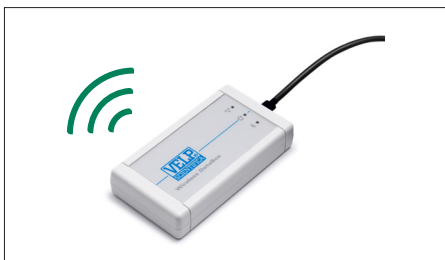
- From 1 to 730 days



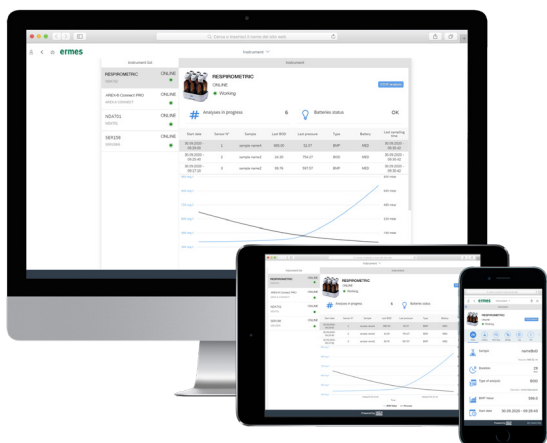
## Wireless DataBox™

The VELP DataBox™ is included in the Systems together with the RESPIROSoft™ Software and enables wireless data transmission from the RESPIROMETRIC Sensor to the PC. The DataBox™ store results for up to 400 RESPIROMETRIC Sensors (66 systems).

The DataBox™ comes with an integrated Wi-Fi module to transmit data from the sensors to the VELP ERMES Cloud Platform. It is also possible to connect the DataBox™ to a plug and send the data to VELP Ermes without the need to connect it to the PC (after starting the analysis from the software).



## VELP ERMES CONNECTION



Connect the RESPIROMETRIC Sensor to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud Platform connection will unburden you from tedious tasks improving your lab productivity.

- Real time visualization of your analysis with graph, even on multiple locations from PC, Tablet and Smartphone.
- Real time instrument working conditions.
- Enhanced service and application support.
- Access to your analysis database anytime, anywhere.
- Create and share analysis report in multiple formats.
- Immediate event and alert notifications based on your settings (on platform and email).

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# The Right System for your Application

The VELP RESPIROMETRIC Sensor Systems contain all the required parts and accessories in order to be operational right from the start. VELP has designed different systems suitable for aerobic and anaerobic applications.

## RESPIROMETRIC Sensor System

### BOD AND OTHER AEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD<sub>5</sub>, BOD<sub>7</sub>, BOD Ultimate, Assessment of disinfection on BOD.
- BOD scales: 90, 250, 600, 999, 4000 (higher values after dilution).
- Biodegradation of monomers application to study the microbial activities involved in the production plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).

**Included in the system:** Stirring station, 500 ml amber bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System MAXI

### BMP AND OTHER ANAEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System Maxi is designed to support anaerobic respiration studies to determine the Biochemical Methane Potential (BMP) of biomass. The BMP analysis studies the production of biogas from organic wastes mainly for Waste and Wastewater treatment and for Renewable Energy Production.

- Results reading in Pressure (millibar) and automatic conversion in BMP value (NmLCH<sub>4</sub>/gSV)
- The system is suitable also for other anaerobic studies such as Denitrification Tests (Requires 6 Denitrification glass bottles A00000410).

**Included in the system:** Maxi stirring station, 1000 ml bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Plastic Biodegradability

### AEROBIC BIODEGRADABILITY OF PLASTICS

The RESPIROMETRIC Sensor System for plastic biodegradability is designed to support aerobic degradation test for the determination of the degree of aerobic biodegradability of plastic materials, including those containing formulation additives, in an aqueous medium.

- Multistirrer Digital 6-positions to precisely set stirring speed and enable the lock feature to avoid unintentional modification of the stirring speed.
- Results reading in Pressure values (millibar).

**Included in the system:** Multistirrer Digital 6-positions, 6 Kits plastic biodegradability analysis, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Soil Analysis

### AEROBIC SOIL AND COMPOST RESPIRATION TESTS

The RESPIROMETRIC Sensor System for soil analysis is designed to support aerobic degradation tests on soil and compost. The analysis provides microbial soil respiration results from the mineralization of organic substances. A major application of these test is related to the detection and monitoring processes during decontaminations and clean-ups.

- The analysis is carried out directly on soil/compost in the 1000ml flask.
- Results reading in Pressure values (millibar).

**Included in the system:** 6 Kits soil analysis, DataBox™ and RESPIROSoft™ software.



## INSTRUMENT - CODE

RESPIROMETRIC Sensor System 6	230 V / 50-60 Hz	SA10200146
RESPIROMETRIC Sensor System 6	115 V / 60 Hz	SA10210146
RESPIROMETRIC Sensor System 6 no Databox™	230 V / 50-60 Hz	SB10200146
RESPIROMETRIC Sensor System 6 no Databox™	115 V / 60 Hz	SB10210146
RESPIROMETRIC Sensor System 6 Maxi	230 V / 50-60 Hz	SA10200156
RESPIROMETRIC Sensor System 6 Maxi	115 V / 60 Hz	SA10210156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	230 V / 50-60 Hz	SB10200156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	115 V / 60 Hz	SB10210156
RESPIROMETRIC Sensor System for Plastic Biodegradability	100-240 V / 50-60Hz	SA102A0166
RESPIROMETRIC Sensor System for Plastic Biodegradability no Databox™	100-240 V / 50-60Hz	SB102A0166
RESPIROMETRIC Sensor System for Soil Analysis	-	SA102B0176
RESPIROMETRIC Sensor System for Soil Analysis no Databox™	-	SB102B0176

## OPTIONAL ACCESSORIES

Multi-socket extension cable EU	A00000221
Multi-socket extension cable UK	A00000222
Multi-socket extension cable AU	A00000223
USA plug for power supply	10003083
UK plug for power supply	10003084
AU plug for power supply	10003085
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## TESTING ACCESSORIES



**A00000135**  
Sensor check

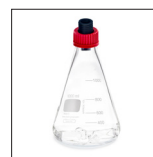


**A00000136**  
Control Test  
tablets

## BOTTLE & KITS



**A00000419**  
Kit plastic  
biodegradability  
analysis



**A00000418**  
Kit Soil Analysis



**A00000410**  
Denitrification  
glass bottle





# TECHNICAL DATA

	RESPIROMETRIC SENSOR
NUMBER OF SENSORS PER SYSTEM	6
SENSOR DISPLAY	4-digit LED display
MEASUREMENT	Electronic pressure sensor
TEST TYPOLOGY	BOD (mg/l), BMP (NmLCH4/gSV), PRESSURE (millibar)
PRESSURE RANGE	500 ÷ 2000 mbar (hPa)
BOD SCALES	90, 250, 600, 999, 4000 ppm, Higher values after dilution
BOTTLE VOLUMES	500 ml and 1000 ml
DATABOX SENSOR CAPACITY	Up to 400 RESPIROMETRIC Sensors
DATABOX POWER SUPPLY	USB / Plug
CONNECTIVITY	RESPIROSoft™ via USB / Ermes via Wi-Fi
SAMPLING TIME	From 30m to 48h, depending on the test duration
MEASURING PERIOD	From 1 to 730 days
DATA STORAGE	On Sensor, RESPIROSoft™ Database, Ermes Cloud
SENSOR CONSTRUCTION MATERIAL	Technopolymer
SENSOR DIMENSIONS (WXHDX)	50x70x70 mm (Sensor)
SENSOR POWER	2 W
SENSOR BATTERY TYPE	CR 2430
STIRRING STATION POWER SUPPLY	Stirring Station: 230 V / 50-60 Hz or 115 V / 60 Hz Stirring Station Maxi: 230 V / 50-60 Hz or 115 V / 60 Hz Multistirrer Digital 6: 100-240 V / 50-60 Hz
STIRRING STATION DIMENSIONS (WXHDX)	Stirring Station: 270x300x185 mm Stirring Station Maxi: 432x300x165 mm Multistirrer Digital 6: 230x51.5x370 mm
WEIGHT	Sensor: 80 g Stirring Station: 1 Kg Stirring Station Maxi: 3 Kg Multistirrer Digital 6: 1,75 Kg
SAFETY CLASS	IEC/EN61010-1
SENSOR PROTECTION DEGREE	IP 54-EN 60529



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument.

VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.

### GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Installation
- Preventive Maintenance
- Help-desk and Remote support
- Technical Assistance
- Analytical Support
- Calibration Certification



We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission

VELP Official Partner

### DESIGNED AND MANUFACTURED IN ITALY



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Tel. +8621 34500630  
velpchina@velp.com



# RESPIROMETRIC Sensor

## BOD and Respirometers

---

Versatile, compact and reliable solution  
for Aerobic and Anaerobic Respiration Tests



# RESPIROMETRIC Sensor

The RESPIROMETRIC Sensor is the new VELP measuring sensor designed to perform multiple respiration and degradation tests in a wide range of application such as Biochemical Oxygen Demand (BOD), Biochemical Methane Potential (BMP), Soil respiration test, Plastic Biodegradability test and more.

## VERSATILE AND PRECISE

- VELP RESPIROMETRIC Sensor is able to perform any kind of respirometric studies thanks to its powerful pressure sensor reading results in the range of 500 ÷ 2000 mbar (hPa).
- It is possible to perform Aerobic and Anaerobic analysis with the same Sensor by choosing the proper System.
- The RESPIROMETRIC Sensor allows results reading on display and through the software in BOD, BMP and Pressure.

## UNIQUE WIRELESS CONTROL

- The RESPIROMETRIC Sensor transmits data directly to the PC enabling real-time monitoring of the analysis curve.
- Respirometric studies can last days and even months, the VELP solution ensures constant monitoring of multiple analysis from an intuitive proprietary software, RESPIROSoft™.

## COMPREHENSIVE AND COMPACT

- VELP RESPIROMETRIC Sensor Systems come with all the required accessories to be operational right from the start.
- Different sizes and types of bottles and stirring stations to match any application requirement.
- The space-saving design of the systems maximize the number of sensors fitting inside the incubator.

## SCALABLE AND CLOUD ENABLED

- Wireless transmission of the RESPIROMETRIC Sensor measurement to the DataBox™ that is able to store data of up to 400 sensors, 66 systems.
- Thanks to the Wi-Fi module the DataBox™ sends the data to the VELP Ermes cloud platform ensuring revolutionary lab experience.
- Both VELP Respirometric Sensor and FOC Connect Incubator can be monitored and controlled from VELP Ermes for a total control of the analyses.



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## EASY-TO-USE SENSOR

Intuitive buttons to set the analysis type, start the test and read the data



Bright 4-digit LED display

Fits easily on VELP bottles and kits

# RESPIROSoft™ Software

The RESPIROMETRIC Sensor comes with the proprietary software RESPIROSoft™ designed by VELP to operate with the new sensors. RESPIROSoft™ is extremely intuitive and easy to use providing all the important information of the analysis and the sensors batteries status in one window.

- Real-time analysis curve (BOD, Pressure)
- Most important info clearly displayed at a glance
- Sensors batteries status monitoring
- Preinstalled methods
- Customized test reports
- Results comparison

## SAMPLING TIME:

- From 30m to 48h, depending on the test duration

## MEASURING PERIOD:

- From 1 to 730 days



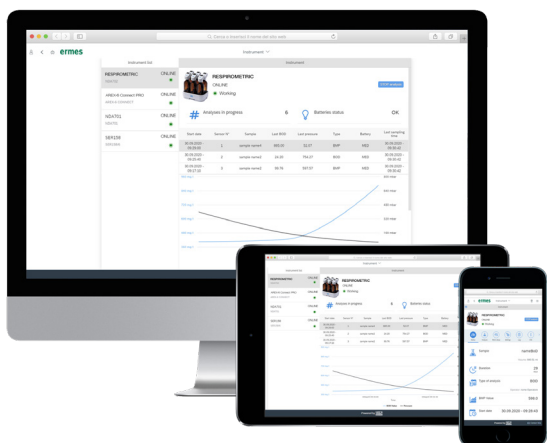
## Wireless DataBox™

The VELP DataBox™ is included in the Systems together with the RESPIROSoft™ Software and enables wireless data transmission from the RESPIROMETRIC Sensor to the PC. The DataBox™ store results for up to 400 RESPIROMETRIC Sensors (66 systems).

The DataBox™ comes with an integrated Wi-Fi module to transmit data from the sensors to the VELP ERMES Cloud Platform. It is also possible to connect the DataBox™ to a plug and send the data to VELP Ermes without the need to connect it to the PC (after starting the analysis from the software).



## VELP ERMES CONNECTION



Connect the RESPIROMETRIC Sensor to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud Platform connection will unburden you from tedious tasks improving your lab productivity.

- Real time visualization of your analysis with graph, even on multiple locations from PC, Tablet and Smartphone.
- Real time instrument working conditions.
- Enhanced service and application support.
- Access to your analysis database anytime, anywhere.
- Create and share analysis report in multiple formats.
- Immediate event and alert notifications based on your settings (on platform and email).

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# The Right System for your Application

The VELP RESPIROMETRIC Sensor Systems contain all the required parts and accessories in order to be operational right from the start. VELP has designed different systems suitable for aerobic and anaerobic applications.

## RESPIROMETRIC Sensor System

### BOD AND OTHER AEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD5, BOD7, BOD Ultimate, Assessment of disinfection on BOD.
- BOD scales: 90, 250, 600, 999, 4000 (higher values after dilution).
- Biodegradation of monomers application to study the microbial activities involved in the production plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).

**Included in the system:** Stirring station, 500 ml amber bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System MAXI

### BMP AND OTHER ANAEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System Maxi is designed to support anaerobic respiration studies to determine the Biochemical Methane Potential (BMP) of biomass. The BMP analysis studies the production of biogas from organic wastes mainly for Waste and Wastewater treatment and for Renewable Energy Production.

- Results reading in Pressure (millibar) and automatic conversion in BMP value (NmLCH4/gSV)
- The system is suitable also for other anaerobic studies such as Denitrification Tests (Requires 6 Denitrification glass bottles A00000410).

**Included in the system:** Maxi stirring station, 1000 ml bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Plastic Biodegradability

### AEROBIC BIODEGRADABILITY OF PLASTICS

The RESPIROMETRIC Sensor System for plastic biodegradability is designed to support aerobic degradation test for the determination of the degree of aerobic biodegradability of plastic materials, including those containing formulation additives, in an aqueous medium.

- Multistirrer Digital 6-positions to precisely set stirring speed and enable the lock feature to avoid unintentional modification of the stirring speed.
- Results reading in Pressure values (millibar).

**Included in the system:** Multistirrer Digital 6-positions, 6 Kits plastic biodegradability analysis, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Soil Analysis

### AEROBIC SOIL AND COMPOST RESPIRATION TESTS

The RESPIROMETRIC Sensor System for soil analysis is designed to support aerobic degradation tests on soil and compost. The analysis provides microbial soil respiration results from the mineralization of organic substances. A major application of these test is related to the detection and monitoring processes during decontaminations and clean-ups.

- The analysis is carried out directly on soil/compost in the 1000ml flask.
- Results reading in Pressure values (millibar).

**Included in the system:** 6 Kits soil analysis, DataBox™ and RESPIROSoft™ software.





## INSTRUMENT - CODE

RESPIROMETRIC Sensor System 6	230 V / 50-60 Hz	SA10200146
RESPIROMETRIC Sensor System 6	115 V / 60 Hz	SA10210146
RESPIROMETRIC Sensor System 6 no Databox™	230 V / 50-60 Hz	SB10200146
RESPIROMETRIC Sensor System 6 no Databox™	115 V / 60 Hz	SB10210146
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RESPIROMETRIC Sensor System 6 Maxi	115 V / 60 Hz	SA10210156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	230 V / 50-60 Hz	SB10200156
RESPIROMETRIC Sensor System 6 Maxi no Databox™	115 V / 60 Hz	SB10210156
RESPIROMETRIC Sensor System for Plastic Biodegradability	100-240 V / 50-60Hz	SA102A0166
RESPIROMETRIC Sensor System for Plastic Biodegradability no Databox™	100-240 V / 50-60Hz	SB102A0166
RESPIROMETRIC Sensor System for Soil Analysis	-	SA102B0176
RESPIROMETRIC Sensor System for Soil Analysis no Databox™	-	SB102B0176

## OPTIONAL ACCESSORIES

Multi-socket extension cable EU	A00000221
Multi-socket extension cable UK	A00000222
Multi-socket extension cable AU	A00000223
USA plug for power supply	10003083
UK plug for power supply	10003084
AU plug for power supply	10003085
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## TESTING ACCESSORIES



**A00000135**  
Sensor check

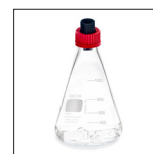


**A00000136**  
Control Test  
tablets

## BOTTLE & KITS



**A00000419**  
Kit plastic  
biodegradability  
analysis



**A00000418**  
Kit Soil Analysis



**A00000410**  
Denitrification  
glass bottle



# TECHNICAL DATA

	RESPIROMETRIC SENSOR
NUMBER OF SENSORS PER SYSTEM	6
SENSOR DISPLAY	4-digit LED display
MEASUREMENT	Electronic pressure sensor
TEST TYPOLOGY	BOD (mg/l), BMP (NmLCH <sub>4</sub> /gSV), PRESSURE (millibar)
PRESSURE RANGE	500 ÷ 2000 mbar (hPa)
BOD SCALES	90, 250, 600, 999, 4000 ppm, Higher values after dilution
BOTTLE VOLUMES	500 ml and 1000 ml
DATABOX SENSOR CAPACITY	Up to 400 RESPIROMETRIC Sensors
DATABOX POWER SUPPLY	USB / Plug
CONNECTIVITY	RESPIROSoft™ via USB / Ermes via Wi-Fi
SAMPLING TIME	From 30m to 48h, depending on the test duration
MEASURING PERIOD	From 1 to 730 days
DATA STORAGE	On Sensor, RESPIROSoft™ Database, Ermes Cloud
SENSOR CONSTRUCTION MATERIAL	Technopolymer
SENSOR DIMENSIONS (WXHDX)	50x70x70 mm (Sensor)
SENSOR POWER	2 W
SENSOR BATTERY TYPE	CR 2430
STIRRING STATION POWER SUPPLY	Stirring Station: 230 V / 50-60 Hz or 115 V / 60 Hz Stirring Station Maxi: 230 V / 50-60 Hz or 115 V / 60 Hz Multistirrer Digital 6: 100-240 V / 50-60 Hz
STIRRING STATION DIMENSIONS (WXHDX)	Stirring Station: 270x300x185 mm Stirring Station Maxi: 432x300x165 mm Multistirrer Digital 6: 230x51.5x370 mm
WEIGHT	Sensor: 80 g Stirring Station: 1 Kg Stirring Station Maxi: 3 Kg Multistirrer Digital 6: 1,75 Kg
SAFETY CLASS	IEC/EN61010-1
SENSOR PROTECTION DEGREE	IP 54-EN 60529



## SERVICE & SUPPORT

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# RESPIROMETRIC Sensor

## BOD and Respirometers

---

Versatile, compact and reliable solution  
for Aerobic and Anaerobic Respiration Tests





# RESPIROMETRIC Sensor

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- VELP RESPIROMETRIC Sensor is able to perform any kind of respirometric studies thanks to its powerful pressure sensor reading results in the range of 500 ÷ 2000 mbar (hPa).
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## UNIQUE WIRELESS CONTROL

- The RESPIROMETRIC Sensor transmits data directly to the PC enabling real-time monitoring of the analysis curve.
- Respirometric studies can last days and even months, the VELP solution ensures constant monitoring of multiple analysis from an intuitive proprietary software, RESPIROSoft™.

## COMPREHENSIVE AND COMPACT

- VELP RESPIROMETRIC Sensor Systems come with all the required accessories to be operational right from the start.
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## SCALABLE AND CLOUD ENABLED

- Wireless transmission of the RESPIROMETRIC Sensor measurement to the DataBox™ that is able to store data of up to 400 sensors, 66 systems.
- Thanks to the Wi-Fi module the DataBox™ sends the data to the VELP Ermes cloud platform ensuring revolutionary lab experience.
- Both VELP Respirometric Sensor and FOC Connect Incubator can be monitored and controlled from VELP Ermes for a total control of the analyses.



**ermes enabled**

## EASY-TO-USE SENSOR

Intuitive buttons to set the analysis type, start the test and read the data



Bright 4-digit LED display

Fits easily on VELP bottles and kits

# RESPIROSoft™ Software

The RESPIROMETRIC Sensor comes with the proprietary software RESPIROSoft™ designed by VELP to operate with the new sensors. RESPIROSoft™ is extremely intuitive and easy to use providing all the important information of the analysis and the sensors batteries status in one window.

- Real-time analysis curve (BOD, Pressure)
- Most important info clearly displayed at a glance
- Sensors batteries status monitoring
- Preinstalled methods
- Customized test reports
- Results comparison

## SAMPLING TIME:

- From 30m to 48h, depending on the test duration

## MEASURING PERIOD:

- From 1 to 730 days



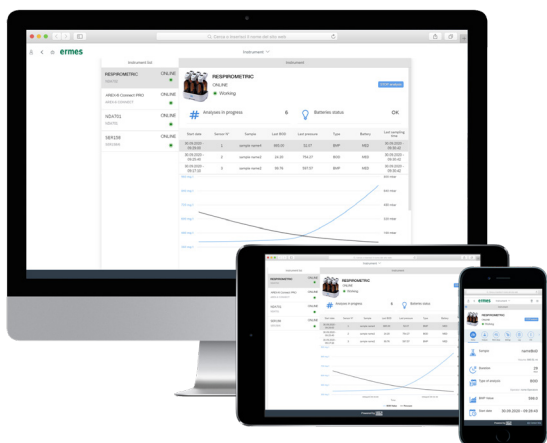
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The VELP DataBox™ is included in the Systems together with the RESPIROSoft™ Software and enables wireless data transmission from the RESPIROMETRIC Sensor to the PC. The DataBox™ store results for up to 400 RESPIROMETRIC Sensors (66 systems).

The DataBox™ comes with an integrated Wi-Fi module to transmit data from the sensors to the VELP ERMES Cloud Platform. It is also possible to connect the DataBox™ to a plug and send the data to VELP Ermes without the need to connect it to the PC (after starting the analysis from the software).



## VELP ERMES CONNECTION



Connect the RESPIROMETRIC Sensor to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud Platform connection will unburden you from tedious tasks improving your lab productivity.

- Real time visualization of your analysis with graph, even on multiple locations from PC, Tablet and Smartphone.
- Real time instrument working conditions.
- Enhanced service and application support.
- Access to your analysis database anytime, anywhere.
- Create and share analysis report in multiple formats.
- Immediate event and alert notifications based on your settings (on platform and email).

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# The Right System for your Application

The VELP RESPIROMETRIC Sensor Systems contain all the required parts and accessories in order to be operational right from the start. VELP has designed different systems suitable for aerobic and anaerobic applications.

## RESPIROMETRIC Sensor System

### BOD AND OTHER AEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD<sub>5</sub>, BOD<sub>7</sub>, BOD Ultimate, Assessment of disinfection on BOD.
- BOD scales: 90, 250, 600, 999, 4000 (higher values after dilution).
- Biodegradation of monomers application to study the microbial activities involved in the production plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).

**Included in the system:** Stirring station, 500 ml amber bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System MAXI

### BMP AND OTHER ANAEROBIC RESPIRATION TESTS

The RESPIROMETRIC Sensor System Maxi is designed to support anaerobic respiration studies to determine the Biochemical Methane Potential (BMP) of biomass. The BMP analysis studies the production of biogas from organic wastes mainly for Waste and Wastewater treatment and for Renewable Energy Production.

- Results reading in Pressure (millibar) and automatic conversion in BMP value (NmLCH<sub>4</sub>/gSV)
- The system is suitable also for other anaerobic studies such as Denitrification Tests (Requires 6 Denitrification glass bottles A00000410).

**Included in the system:** Maxi stirring station, 1000 ml bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Plastic Biodegradability

### AEROBIC BIODEGRADABILITY OF PLASTICS

The RESPIROMETRIC Sensor System for plastic biodegradability is designed to support aerobic degradation test for the determination of the degree of aerobic biodegradability of plastic materials, including those containing formulation additives, in an aqueous medium.

- Multistirrer Digital 6-positions to precisely set stirring speed and enable the lock feature to avoid unintentional modification of the stirring speed.
- Results reading in Pressure values (millibar).

**Included in the system:** Multistirrer Digital 6-positions, 6 Kits plastic biodegradability analysis, stirring bars, DataBox™ and RESPIROSoft™ software.



## RESPIROMETRIC Sensor System for Soil Analysis

### AEROBIC SOIL AND COMPOST RESPIRATION TESTS

The RESPIROMETRIC Sensor System for soil analysis is designed to support aerobic degradation tests on soil and compost. The analysis provides microbial soil respiration results from the mineralization of organic substances. A major application of these test is related to the detection and monitoring processes during decontaminations and clean-ups.

- The analysis is carried out directly on soil/compost in the 1000ml flask.
- Results reading in Pressure values (millibar).

**Included in the system:** 6 Kits soil analysis, DataBox™ and RESPIROSoft™ software.



## INSTRUMENT - CODE

RESPIROMETRIC Sensor System 6	230 V / 50-60 Hz	SA10200146
RESPIROMETRIC Sensor System 6	115 V / 60 Hz	SA10210146
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RESPIROMETRIC Sensor System 6 Maxi no Databox™	115 V / 60 Hz	SB10210156
RESPIROMETRIC Sensor System for Plastic Biodegradability	100-240 V / 50-60Hz	SA102A0166
RESPIROMETRIC Sensor System for Plastic Biodegradability no Databox™	100-240 V / 50-60Hz	SB102A0166
RESPIROMETRIC Sensor System for Soil Analysis	-	SA102B0176
RESPIROMETRIC Sensor System for Soil Analysis no Databox™	-	SB102B0176

## OPTIONAL ACCESSORIES

Multi-socket extension cable EU	A00000221
Multi-socket extension cable UK	A00000222
Multi-socket extension cable AU	A00000223
USA plug for power supply	10003083
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VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year Connection	E00010036

## TESTING ACCESSORIES



**A00000135**  
Sensor check

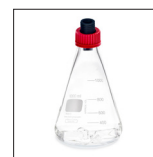


**A00000136**  
Control Test  
tablets

## BOTTLE & KITS



**A00000419**  
Kit plastic  
biodegradability  
analysis



**A00000418**  
Kit Soil Analysis



**A00000410**  
Denitrification  
glass bottle



# TECHNICAL DATA

	RESPIROMETRIC SENSOR
NUMBER OF SENSORS PER SYSTEM	6
SENSOR DISPLAY	4-digit LED display
MEASUREMENT	Electronic pressure sensor
TEST TYPOLOGY	BOD (mg/l), BMP (NmLCH4/gSV), PRESSURE (millibar)
PRESSURE RANGE	500 ÷ 2000 mbar (hPa)
BOD SCALES	90, 250, 600, 999, 4000 ppm, Higher values after dilution
BOTTLE VOLUMES	500 ml and 1000 ml
DATABOX SENSOR CAPACITY	Up to 400 RESPIROMETRIC Sensors
DATABOX POWER SUPPLY	USB / Plug
CONNECTIVITY	RESPIROSoft™ via USB / Ermes via Wi-Fi
SAMPLING TIME	From 30m to 48h, depending on the test duration
MEASURING PERIOD	From 1 to 730 days
DATA STORAGE	On Sensor, RESPIROSoft™ Database, Ermes Cloud
SENSOR CONSTRUCTION MATERIAL	Technopolymer
SENSOR DIMENSIONS (WXHDX)	50x70x70 mm (Sensor)
SENSOR POWER	2 W
SENSOR BATTERY TYPE	CR 2430
STIRRING STATION POWER SUPPLY	Stirring Station: 230 V / 50-60 Hz or 115 V / 60 Hz Stirring Station Maxi: 230 V / 50-60 Hz or 115 V / 60 Hz Multistirrer Digital 6: 100-240 V / 50-60 Hz
STIRRING STATION DIMENSIONS (WXHDX)	Stirring Station: 270x300x185 mm Stirring Station Maxi: 432x300x165 mm Multistirrer Digital 6: 230x51.5x370 mm
WEIGHT	Sensor: 80 g Stirring Station: 1 Kg Stirring Station Maxi: 3 Kg Multistirrer Digital 6: 1,75 Kg
SAFETY CLASS	IEC/EN61010-1
SENSOR PROTECTION DEGREE	IP 54-EN 60529



## SERVICE & SUPPORT

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Shanghai, China  
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velpchina@velp.com

# ROTAX 6.8

## Overhead mixer

The overhead mixer developed by VELP Scientifica

- Provided with digital display
- More simple, precise, safe
- In accordance with UNI 10802 norm



The overhead mixer ROTAX 6.8 is a VELP solution purposely designed and developed for the evaluation of pollutants solubility in water, from sludges, sediments and solid wastes by wastes treatment plants, wastewater treatment plants, laboratories for wastes analysis, laboratories for environmental analysis (sludges, sediments).

The constant commitment aimed to increase continuously the performances of the equipment has created a NEW VERSION by VELP for this laboratory solution, used with satisfactory results in many laboratories.

The new ROTAX 6.8 is provided with a digital display, an advanced system for speed regulation able to assure a better precision, and with innovative safety devices.

The instrument works in accordance with DIN 38414 standard and UNI 10802 norm.



## Features and Benefits

ROTAX 6.8 is able to hold 6 bottles having 2 litres volume (or, by means of a suitable adapter, 8 bottles having a 1liter volume).

The instrument can be used when rotating, shaking and mixing is required.

Some benefits of this new unit:

**EASY TO USE** - new digital display, giving the possibility to select and visualize the speed

**PRECISE** - electronic regulation of the speed, from 0 to 30 rpm, 1 rpm selection

**SAFE** – new safety device, to stop the unit if something blocking the rotation occurs

The instrument works in accordance with DIN 38414 and UNI 10802 (“Criteria to admit wastes to dump”).

Technical features	Description
Structure	Metallic, epoxy painted
Number of bottles	6 bottles, 2 liters or 8 bottles, 1 liter, by an adapter
Max height of the 2-liter bottle	280 mm
Min height of the 2-liter bottle	220 mm
Max diameter of the 2-liter bottle	135 mm
Max height of the 1-liter bottle (with adapter)	270 mm
Min height of the 1-liter bottle (with adapter)	200 mm
Max diameter of the 1-liter bottle (with adapter)	110 mm
Display	LCD
Power supply	115 - 230 V / 50 - 60 Hz
Electronic speed control	0 - 30 rpm
Speed selection	1 rpm
Power	100 W
Weight	30 Kg (66 lb)
Dimension (W x H x D)	665 x 520 x 470 mm (26.2 x 20.5 x 18.5 in)

Cod. N°	Description
F10600118	Rotax 6.8 overhead mixer
A00001023	Accessory to fit 8 bottles, 1 liter (n° 2 pieces)
A00001021	Bottle, 2 liters, polyethylene
A00001024	Glass bottle, with ground glass cap, 2 liters
A00001022	Bottle, 1 liter, polyethylene

Your authorized agent:

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# TB1

## Portable Turbidimeter

High quality, easy to use and totally waterproof



# Friendly use, Supply and Safety

The TB1 portable turbidimeter allows you to measure, in a simple and precise way, the turbidity of aqueous samples. The measurement is supplied in Nephelometric Turbidity Units (NTU). The compact design allows easy, on-site handling and is highly resistant wear and tear

- Portable
- Intuitive and easy to calibrate
- Premium results provided in seconds
- Up to 1200 samples can be tested with one set of batteries
- Supplied with 4 calibration standards (800, 100, 20 and 0.02 NTU)
- IP 67 protection against ingress of particles and water
- Tough ABS casing
- Measurement to ISO 7027 standard



## INSTRUMENT - CODE

TB1 - R109B12150



## TECHNICAL DATA

CONSTRUCTION MATERIAL	ABS
MEASUREMENT METHOD	ISO 7027 compliant nephelometric method (90°)
CALIBRATION STANDARD	0.02, 20, 100, 800 NTU
LIGHT SOURCE	Infrared emitting-diode (850 nm wavelength)
PROTECTION DEGREE CEI EN 60529	IP 67
WEIGHT	0.2 Kg (0.4 lb)
DIMENSIONS (WXHxD)	68x50x155 mm (2.7x2x6.1 in)
MEASUREMENT RANGE	From 0 to 1000 NTU
ACCURACY	±2% in the range from 0 to 500 NTU ±3% in the range from 501 to 1000 NTU
REPEATABILITY	±0.01 NTU or ±1% of reading, whichever is greater with gel samples



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# TX4

## Vortex Mixer

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Digital vortex mixer with adjustable stirring speed, in continuous or with the exclusive infrared sensor



# IR Sensor, New Conception of Vortex Mixers

Exclusive digital vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. The bright digital display ensures precision and reproducibility. The integrated timer allows programming the vortex for unattended operations.

- Vibration starts when tube is detected by IR (VELP patent)
- IR sensor and continuous modes
- Variable speed operation, electronically controlled up to 3000 rpm
- Digital control of vibration time and speed
- Large, bright LCD multi-parameter display
- Timed operation up to 999:59 minutes
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- IP 42 protection against particles and liquids
- No fatigue as no pressure is required



## INSTRUMENT - CODE

**TX4**

100-240 V / 50-60 Hz

**F202A0270**

\* Included: Mixing cup head

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Zinc alloy and technopolymer
SUPPORT SYSTEM	4 anti-sliding feet
OPERATIONAL MODE	Infrared sensor, continuous
TIMER	0 - 999:59
SPEED SETTING	Digital (Display LCD)
SPEED CONTROL	Electronic
STIRRING SPEED	0 - 3000 rpm
ORBITAL DIAMETER	4,5 mm
ELECTRONIC PROTECTION DEGREE CEI EN 60529	IP 42
POWER	15 W
WEIGHT	2.7 Kg (5.9 lb)
DIMENSIONS (WxHxD)	150x130x165 mm (5.9x5.1x6.5 in)



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# WIZARD

## Vortex Mixer

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Exclusive and compact vortex mixer with settable speed, provided with the revolutionary IR sensor or continuous mode





# IR Sensor, New Conception of Vortex Mixers

Vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. IR sensor and Continuous mode available. Large choice of complementary accessories to accommodate tubes, plates and flasks.

- Vibration starts when tube is detected by IR (VELP patent)
- IR sensor and continuous modes
- Variable speed operation, electronically controlled up to 3000 rpm
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- IP 42 protection against particles and liquids
- No fatigue as no pressure is required
- Eliminates repetitive strain injury



## INSTRUMENT - CODE

**WIZARD**

100-240 V / 50-60 Hz

**F202A0175**

\* Included: Mixing cup head

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Zinc alloy and technopolymer
SUPPORT SYSTEM	3 anti-sliding feet
OPERATIONAL MODE	Sensor / Continuous
SPEED SETTING	Analog
SPEED CONTROL	Electronic
STIRRING SPEED	0 - 3000 rpm
ORBITAL DIAMETER	4,5 mm
TYPE OF MOVEMENT	Orbital
ELECTRONIC PROTECTION DEGREE CEI EN 60529	IP 42
POWER	15 W
WEIGHT	2.2 Kg (4.9 lb)
DIMENSIONS (WxHxD)	180x70x220 mm (7.1x2.8x8.7 in)



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# ZX3

## Vortex Mixer

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Vortex mixer with adjustable stirring speed,  
with touch or continuous mode



# Reliable and Universal

Reliable vortex mixer with adjustable stirring speed, touch or continuous mode. ZX3 features large, anti-slip rubber feet to ensure maximum stability. It is also highly resistant to chemicals.

- Automatic start in touch mode or continuous operation
- Variable speed operation, electronically controlled up to 3000 rpm
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- IP 42 protection against particles and liquids



## INSTRUMENT - CODE

ZX3 *	100-240 V / 50-60 Hz	F202A0176
ZX3 and Foam Stands **	100-240 V / 50-60 Hz	SA202A0176

\* Included: Mixing cup head  
\*\* Included: ZX3 Vortex Mixer, Stand for 19 microvials Eppendorf 1,5 ml, Customizable soft foam top, Small rubber supporting plate Ø 50 mm, Mixing cup head

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Zinc alloy and technopolymer
SUPPORT SYSTEM	4 anti-sliding feet
OPERATIONAL MODE	Touch / Continuous
SPEED SETTING	Analog
SPEED CONTROL	Electronic
STIRRING SPEED	0 - 3000 rpm
ORBITAL DIAMETER	4,5 mm
ELECTRONIC PROTECTION DEGREE IEC/EN 60529	IP 42
POWER	15 W
WEIGHT	2.7 Kg (5.9 lb)
DIMENSIONS (WxHxD)	150x130x165 mm (5.9x5.1x6.5 in)



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# ZX4

## Vortex Mixer

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Vortex mixer with adjustable stirring speed, in continuous or with the exclusive IR sensor



# IR Sensor, New Conception of Vortex Mixers

ZX4 Vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. IR sensor and Continuous mode available.

- Vibration starts when tube is detected by IR (VELP patent)
- IR sensor and continuous modes
- Variable speed operation, electronically controlled up to 3000 rpm
- Optimum resistance to chemicals from technopolymer casing
- Excellent stability with zinc alloy base
- IP 42 protection against particles and liquids
- No fatigue as no pressure is required



## INSTRUMENT - CODE

<b>ZX4 *</b>	100-240 V / 50-60 Hz	<b>F202A0280</b>
<b>ZX4 and Foam Stands **</b>	100-240 V / 50-60 Hz	<b>SA202A0280</b>

\* Included: Mixing cup head

\*\* Included: ZX4 IR Vortex Mixer, Stand for 19 microvials Eppendorf 1,5 ml, Customizable soft foam top, Small rubber supporting plate Ø 50 mm, Mixing cup head

## TECHNICAL DATA

CONSTRUCTION MATERIAL	Zinc alloy and technopolymer
SUPPORT SYSTEM	4 anti-sliding feet
OPERATIONAL MODE	Infrared sensor, continuous
SPEED SETTING	Analog
SPEED CONTROL	Electronic
STIRRING SPEED	0 - 3000 rpm
ORBITAL DIAMETER	4,5 mm
ELECTRONIC PROTECTION DEGREE CEI EN 60529	IP 42
POWER	15 W
WEIGHT	2.7 Kg (5.9 lb)
DIMENSIONS (WxHxD)	150x130x165 mm (5.9x5.1x6.5 in)



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