

Labaqua Bio, ultrapure water system

DESCRIPTION

Labaqua ultrapure systems are multi-purpose water purification systems. The Labaqua systems produce ultrapure and pure water directly from tap water.

Labaqua Bio system produces water with very low organic and RNase/DNase content that is intended for the use in molecular biology, including RNase sensitive applications.

Any configuration of a Labaqua ultrapure system produces both ultrapure and pure water. Ultrapure (Grade 1) water is dispensed through the point-of-use filter on the front panel. Pure (Grade 2) water is dispensed directly from the storage tank.

Labaqua ultrapure water can be used for the most demanding applications including, but not limited to: Inorganic trace analysis, Liquid chromatography, Cell culture, Molecular biology.

With resistivity of 18.2 Mega — Ohm*cm (0.055 µS/cm) ultrapure water produced by a Labaqua system exceeds requirements of all relevant standards (ISO 3696 Grade 1, ASTM Type I, CLSI Type I). Purified water is collected in a storage tank. An integrated recirculation system ensures consistent quality of water and reduces total organic carbon (TOC) to very low levels: <5ppb.

Pure water produced by the Labaqua systems complies with the requirements of ISO 3696 Grade 2 water and can be used for labware washing, wet chemistry methods, flame spectrophotometers, etc.

All Labaqua systems have a controller with a color graphic LCD display for water quality indication. The LCD display provides all necessary information about system status, as well as system flow-chart the remaining pre-filter life and deionization (DI) module performance. The smart DI module monitoring system also provides a reduction in running costs. A user is instructed to replace the DI module only when the module is near the end of its service life.

All cartridges and filters are easily accessible and no tools are required to replace them. The Labaqua system can be installed on a laboratory bench or mounted on a wall.

Features:

- Volumetric dispense enables the user to set accurate dispensing volume for each dispense cycle. The dispense volume can be set either from the keyboard or by using "teaching" mode.
- Water quality embedded recirculation loop ensures stable premium water quality and enables practical elimination of Total Organic Carbon (TOC).
- Low running costs performance of the deionization and polishing modules is constantly monitored. Monitoring algorithm enables cutting running costs, as replacement of the modules is requested only when service life is close to the end.
- Total organic carbon (TOC) monitor- organic contaminants may not have effect on conductivity of water, so conductivity sensors cannot be used for TOC monitoring. Therefore, a special TOC monitoring module is needed to measure TOC level.
- Color graphic LCD display system component status is reflected on the display in an intuitive color pattern (Green/Yellow/Red).
- System flowchart shows all component status and water quality parameters at a glance.

The Labaqua systems include:

- Boost pump
- Pre-filter set
- Reverse osmosis module
- Deionization module
- Final stage polishing module
- 30L storage tank with an integrated Grade 2 dispensing valve
- Recirculation system



📕 CAT. NUMBER

	30l storage tank
BS-070106-A02	230VAC 50Hz Euro plug
BS-070106-A06	230VAC 50/60Hz UK plug
BS-070106-A03	230VAC 50/60Hz AU plug
	60l storage tank
BS-070107-A01	230VAC 50/60Hz Euro plug
BS-070107-A06	230VAC 50/60Hz UK plug
BS-070104-HK	IQ/OQ/PQ/DQ documentation for LabAqua

Model specific modules:

- Labaqua Trace Point-of-use microfilter
- Labaqua HPLC Point-of-use microfilter, TOC monitor
- Labaqua Bio Point-of-use ultrafilter, UV sterilization module, TOC monitor

Compliance of the system with the technical specification is ensured if the following minimum tap water requirements are followed and the maintenance requirements specified in the user manual are carried out in a timely manner.

- Type of feedwater: Potable
- Minimum pressure: ≥ 0.5 bar
- Maximum pressure: ≤ 5 bar
- Conductivity: <1300 µS/cm
- Temperature: 5 to 35°C
- pH: 4 10
- Fouling Index: <10
- Iron: <0.1 ppm as CaCO3
- Aluminum: <0.05 ppm as CaCO3
- Manganese: <0.05 ppm as CaCO3
- Free Chlorine: <1 ppm
- Langerier Saturation Index: <+0.2
- TOC: <2000 ppb

Ultrapure (Grade 1) water resistivity	18.2 MΩ x cm
Ultrapure (Grade 1) water conductivity	0.055 µS/cm
Pure (Grade 2) water resistivity	10 MΩ x cm
Pure (Grade 2) water conductivity	0.1 µS/cm
ТОС	< 5 ppb
RNase	< 0.01 ng/ml
DNase	< 4 pg/µl
Bacteria	< 0.01 CFU/ml
Endotoxins	< 0.001 EU/ml
Particles > 0.22 µm	< 1/ml
Deionization module life (standard module)	1 m3
Storage tank	30 I
Feed water pressure	0.5 – 5 bar
Feed water conductivity	< 1300 µS/cm
Dimensions (W×D×H)	320×560×620 mm
Weight	26 kg
Power consumption	130 W
Nominal operating voltage	100-240VAC 50/60Hz





External pre-filter set (polyphosphate/carbon/1 µm) with manometer BS-070104-LK



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Microfilter - 0.22µm sterile

Microfilter - 0.22µm non sterile BS-070104-EK



Storage tank 60l BS-070102-SK

Storage tank with base, tap and multipoint level switch, 60 l



External pre-filter set (carbon/1µm) with manometer BS-070104-KK



Internal prefilter set BS-070104-AK



Polishing module BS-070104-BK

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Deionization module BS-070104-IK



UV bulb 185 nm BS-070104-DK



Storage tank 1001 BS-070102-FK

Storage tank with base, tap and multipoint level switch, 100 l



Ultrafilter

BS-070104-GK

Remote grade 1 water dispenser BS-070110-AK

Ultrapure water dispenser is designed to dispense ultrapure water that complies with ISO 3696 Grade I water requirements.



UV bulb 254 nm

Remote grade 2 water dispenser BS-070104-JK



Labaqua Bio, ultrapure water system

DESCRIPTION

Labaqua ultrapure systems are multi-purpose water purification systems. The Labaqua systems produce ultrapure and pure water directly from tap water.

Labaqua Bio system produces water with very low organic and RNase/DNase content that is intended for the use in molecular biology, including RNase sensitive applications.

Any configuration of a Labaqua ultrapure system produces both ultrapure and pure water. Ultrapure (Grade 1) water is dispensed through the point-of-use filter on the front panel. Pure (Grade 2) water is dispensed directly from the storage tank.

Labaqua ultrapure water can be used for the most demanding applications including, but not limited to: Inorganic trace analysis, Liquid chromatography, Cell culture, Molecular biology.

With resistivity of 18.2 Mega — Ohm*cm (0.055 µS/cm) ultrapure water produced by a Labaqua system exceeds requirements of all relevant standards (ISO 3696 Grade 1, ASTM Type I, CLSI Type I). Purified water is collected in a storage tank. An integrated recirculation system ensures consistent quality of water and reduces total organic carbon (TOC) to very low levels: <5ppb.

Pure water produced by the Labaqua systems complies with the requirements of ISO 3696 Grade 2 water and can be used for labware washing, wet chemistry methods, flame spectrophotometers, etc.

All Labaqua systems have a controller with a color graphic LCD display for water quality indication. The LCD display provides all necessary information about system status, as well as system flow-chart the remaining pre-filter life and deionization (DI) module performance. The smart DI module monitoring system also provides a reduction in running costs. A user is instructed to replace the DI module only when the module is near the end of its service life.

All cartridges and filters are easily accessible and no tools are required to replace them. The Labaqua system can be installed on a laboratory bench or mounted on a wall.

Features:

- Volumetric dispense enables the user to set accurate dispensing volume for each dispense cycle. The dispense volume can be set either from the keyboard or by using "teaching" mode.
- Water quality embedded recirculation loop ensures stable premium water quality and enables practical elimination of Total Organic Carbon (TOC).
- Low running costs performance of the deionization and polishing modules is constantly monitored. Monitoring algorithm enables cutting running costs, as replacement of the modules is requested only when service life is close to the end.
- Total organic carbon (TOC) monitor- organic contaminants may not have effect on conductivity of water, so conductivity sensors cannot be used for TOC monitoring. Therefore, a special TOC monitoring module is needed to measure TOC level.
- Color graphic LCD display system component status is reflected on the display in an intuitive color pattern (Green/Yellow/Red).
- System flowchart shows all component status and water quality parameters at a glance.

The Labaqua systems include:

- Boost pump
- Pre-filter set
- Reverse osmosis module
- Deionization module
- Final stage polishing module
- 30L storage tank with an integrated Grade 2 dispensing valve
- Recirculation system



📕 CAT. NUMBER

	30l storage tank
BS-070106-A02	230VAC 50Hz Euro plug
BS-070106-A06	230VAC 50/60Hz UK plug
BS-070106-A03	230VAC 50/60Hz AU plug
	60l storage tank
BS-070107-A01	230VAC 50/60Hz Euro plug
BS-070107-A06	230VAC 50/60Hz UK plug
BS-070104-HK	IQ/OQ/PQ/DQ documentation for LabAqua

Model specific modules:

- Labaqua Trace Point-of-use microfilter
- Labaqua HPLC Point-of-use microfilter, TOC monitor
- Labaqua Bio Point-of-use ultrafilter, UV sterilization module, TOC monitor

Compliance of the system with the technical specification is ensured if the following minimum tap water requirements are followed and the maintenance requirements specified in the user manual are carried out in a timely manner.

- Type of feedwater: Potable
- Minimum pressure: ≥ 0.5 bar
- Maximum pressure: ≤ 5 bar
- Conductivity: <1300 µS/cm
- Temperature: 5 to 35°C
- pH: 4 10
- Fouling Index: <10
- Iron: <0.1 ppm as CaCO3
- Aluminum: <0.05 ppm as CaCO3
- Manganese: <0.05 ppm as CaCO3
- Free Chlorine: <1 ppm
- Langerier Saturation Index: <+0.2
- TOC: <2000 ppb

Ultrapure (Grade 1) water resistivity	18.2 MΩ x cm
Ultrapure (Grade 1) water conductivity	0.055 µS/cm
Pure (Grade 2) water resistivity	10 MΩ x cm
Pure (Grade 2) water conductivity	0.1 µS/cm
ТОС	< 5 ppb
RNase	< 0.01 ng/ml
DNase	< 4 pg/µl
Bacteria	< 0.01 CFU/ml
Endotoxins	< 0.001 EU/ml
Particles > 0.22 µm	< 1/ml
Deionization module life (standard module)	1 m3
Storage tank	30 I
Feed water pressure	0.5 – 5 bar
Feed water conductivity	< 1300 µS/cm
Dimensions (W×D×H)	320×560×620 mm
Weight	26 kg
Power consumption	130 W
Nominal operating voltage	100-240VAC 50/60Hz





External pre-filter set (polyphosphate/carbon/1 µm) with manometer BS-070104-LK



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Microfilter - 0.22µm sterile

Microfilter - 0.22µm non sterile BS-070104-EK



Storage tank 60l BS-070102-SK

Storage tank with base, tap and multipoint level switch, 60 l



External pre-filter set (carbon/1µm) with manometer BS-070104-KK



Internal prefilter set BS-070104-AK



Polishing module BS-070104-BK

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Deionization module BS-070104-IK



UV bulb 185 nm BS-070104-DK



Storage tank 1001 BS-070102-FK

Storage tank with base, tap and multipoint level switch, 100 l



Ultrafilter

BS-070104-GK

Remote grade 1 water dispenser BS-070110-AK

Ultrapure water dispenser is designed to dispense ultrapure water that complies with ISO 3696 Grade I water requirements.



UV bulb 254 nm

Remote grade 2 water dispenser BS-070104-JK



DESCRIPTION

Labaqua ultrapure systems are multi-purpose water purification systems. The Labaqua systems produce ultrapure and pure water directly from tap water.

Labaqua HPLC produces water with very low organic carbon (TOC) content meeting requirements of liquid chromatography methods. Labaqua HPLC water can also be used for some microbiological and molecular biology applications.

Any configuration of a Labaqua ultrapure system produces both ultrapure and pure water. Ultrapure (Grade 1) water is dispensed through the point-of-use filter on the front panel. Pure (Grade 2) water is dispensed directly from the storage tank.

Labaqua ultrapure water can be used for the most demanding applications including, but not limited to: Inorganic trace analysis, Liquid chromatography, Cell culture, Molecular biology.

With resistivity of 18.2 Mega — Ohm*cm (0.055 µS/cm) ultrapure water produced by a Labaqua system exceeds requirements of all relevant standards (ISO 3696 Grade 1, ASTM Type I, CLSI Type I). Purified water is collected in a storage tank. An integrated recirculation system ensures consistent quality of water and reduces total organic carbon (TOC) to very low levels: <5ppb.

Pure water produced by the Labaqua systems complies with the requirements of ISO 3696 Grade 2 water and can be used for labware washing, wet chemistry methods, flame spectrophotometers, etc.

All Labaqua systems have a controller with a color graphic LCD display for water quality indication. The LCD display provides all necessary information about system status, as well as system flow-chart the remaining pre-filter life and deionization (DI) module performance. The smart DI module monitoring system also provides a reduction in running costs. A user is instructed to replace the DI module only when the module is near the end of its service life.

All cartridges and filters are easily accessible and no tools are required to replace them. The Labaqua system can be installed on a laboratory bench or mounted on a wall.

Features:

- Volumetric dispense enables the user to set accurate dispensing volume for each dispense cycle. The dispense volume can be set either from the keyboard or by using "teaching" mode.
- Water quality embedded recirculation loop ensures stable premium water quality and enables practical elimination of Total Organic Carbon (TOC).
- Low running costs performance of the deionization and polishing modules is constantly monitored. Monitoring algorithm enables cutting running costs, as replacement of the modules is requested only when service life is close to the end.
- Total organic carbon (TOC) monitor organic contaminants may not have effect on conductivity of water, so conductivity sensors cannot be used for TOC monitoring. Therefore, a special TOC monitoring module is needed to measure TOC level.
- Color graphic LCD display system component status is reflected on the display in an intuitive color pattern (Green/Yellow/Red).
- System flowchart shows all component status and water quality parameters at a glance.

The Labaqua systems include:

- Boost pump
- Pre-filter set
- Reverse osmosis module
- Deionization module
- Final stage polishing module
- 30L storage tank with an integrated Grade 2 dispensing valve



CAT. NUMBER

BS-070104-A02	230VAC 50Hz Euro plug
BS-070104-A05	230VAC 50/60Hz UK plug
BS-070104-A06	230VAC 50/60Hz AU plug
BS-070104-HK	IQ/OQ/PQ/DQ documentation for LabAqua

• Recirculation system

Model specific modules:

- Labaqua Trace Point-of-use microfilter
- Labaqua HPLC Point-of-use microfilter, TOC monitor
- Labaqua Bio Point-of-use ultrafilter, UV sterilization module, TOC monitor

Compliance of the system with the technical specification is ensured if the following minimum tap water requirements are followed and the maintenance requirements specified in the user manual are carried out in a timely manner.

- Type of feedwater: Potable
- Minimum pressure: ≥ 0.5 bar
- Maximum pressure: ≤ 5 bar
- Conductivity: <1300 µS/cm
- Temperature: 5 to 35°C
- pH: 4 10
- Fouling Index: <10
- Iron: <0.1 ppm as CaCO3
- Aluminum: <0.05 ppm as CaCO3
- Manganese: <0.05 ppm as CaCO3
- Free Chlorine: <1 ppm
- Langerier Saturation Index: <+0.2
- TOC: <2000 ppb

Ultrapure (Grade 1) water resistivity	18.2 MΩ x cm
Ultrapure (Grade 1) water conductivity	0.055 μS/cm
Pure (Grade 2) water resistivity	10 MΩ x cm
Pure (Grade 2) water conductivity	0.1 µS/cm
ТОС	< 5 ppb
Bacteria	< 0.01 CFU/ml
Endotoxins	< 0.15 EU/ml
Particles > 0.22 μm	< 1/ml
Deionization module life (standard module)	1 m3
Storage tank	30
Feed water pressure	0.5 – 5 bar
Feed water conductivity	< 1300 µS/cm
Dimensions (W×D×H)	320×560×620 mm
Weight	25 kg
Power consumption	130 W
Nominal operating voltage	100-240VAC 50/60Hz





External pre-filter set (polyphosphate/carbon/1 µm) with manometer BS-070104-LK



BS-070104-EK

External pre-filter set

(carbon/1µm) with manometer

BS-070104-KK

Microfilter - 0.22µm non sterile Microfilter - 0.22µm sterile BS-070104-FK



Storage tank 60I BS-070102-SK

Storage tank with base, tap and multipoint level switch, 60 l

Storage tank 100l BS-070102-FK

Storage tank with base, tap and multipoint level switch, 100 l



Internal prefilter set BS-070104-AK

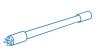


Polishing module BS-070104-BK

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Deionization module BS-070104-IK



UV bulb 185 nm BS-070104-DK



Remote grade 1 water dispenser BS-070110-AK

Ultrafilter

BS-070104-GK

Ultrapure water dispenser is designed to dispense ultrapure water that complies with ISO 3696 Grade I water requirements.



UV bulb 254 nm

Remote grade 2 water dispenser BS-070104-JK



DESCRIPTION

Labaqua ultrapure systems are multi-purpose water purification systems. The Labaqua systems produce ultrapure and pure water directly from tap water.

Any configuration of a Labaqua ultrapure system produces both ultrapure and pure water. Ultrapure (Grade 1) water is dispensed through the point-of-use filter on the front panel. Pure (Grade 2) water is dispensed directly from the storage tank.

Labaqua Trace ultrapure water can be used for the demanding applications including, but not limited to: General laboratory applications, Inorganic trace analysis.

With resistivity of 18.2 Mega — Ohm*cm (0.055 µS/cm) ultrapure water produced by a Labaqua system exceeds requirements of all relevant standards (ISO 3696 Grade 1, ASTM Type I, CLSI Type I). Purified water is collected in a storage tank. An integrated recirculation system ensures consistent quality of water and reduces total organic carbon (TOC) to low levels.

Pure water produced by the Labaqua systems complies with the requirements of ISO 3696 Grade 2 water and can be used for labware washing, wet chemistry methods, flame spectrophotometers, etc.

All Labaqua systems have a controller with a color graphic LCD display for water quality indication. The LCD display provides all necessary information about system status, as well as system flow-chart the remaining pre-filter life and deionization (DI) module performance. The smart DI module monitoring system also provides a reduction in running costs. A user is instructed to replace the DI module only when the module is near the end of its service life.

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Features:

- Volumetric dispense enables the user to set accurate dispensing volume for each dispense cycle. The dispense volume can be set either from the keyboard or by using "teaching" mode.
- Water quality embedded recirculation loop ensures stable premium water quality and enables practical elimination of Total Organic Carbon (TOC).
- Low running costs performance of the deionization and polishing modules is constantly monitored. Monitoring algorithm enables cutting running costs, as replacement of the modules is requested only when service life is close to the end.
- Color graphic LCD display system component status is reflected on the display in an intuitive color pattern (Green/Yellow/Red).
- System flowchart shows all component status and water quality parameters at a glance.

The Labaqua systems include:

- Boost pump
- Pre-filter set
- Reverse osmosis module
- Deionization module
- Final stage polishing module
- 30L storage tank with an integrated Grade 2 dispensing valve
- Recirculation system

Model specific modules:

- Labaqua Trace Point-of-use microfilter
- Labaqua HPLC Point-of-use microfilter, TOC monitor
- Labaqua Bio Point-of-use ultrafilter, UV sterilization module, TOC monitor



📕 CAT. NUMBER

BS-070105-A02	230VAC 50Hz Euro plug
BS-070105-A05	230VAC 50/60Hz UK plug
BS-070105-A06	230VAC 50/60Hz AU plug
BS-070104-HK	IQ/OQ/PQ/DQ documentation for LabAqua

Compliance of the system with the technical specification is ensured if the following minimum tap water requirements are followed and the maintenance requirements specified in the user manual are carried out in a timely manner.

- Type of feedwater: Potable
- Minimum pressure: ≥ 0.5 bar
- Maximum pressure: ≤ 5 bar
- Conductivity: <1300 µS/cm
- Temperature: 5 to 35°C
- pH: 4 10
- Fouling Index: <10
- Iron: <0.1 ppm as CaCO3
- Aluminum: <0.05 ppm as CaCO3
- Manganese: <0.05 ppm as CaCO3
- Free Chlorine: <1 ppm
- Langerier Saturation Index: <+0.2
- TOC: <2000 ppb

Ultrapure (Grade 1) water resistivity	18.2 MΩ x cm
Ultrapure (Grade 1) water conductivity	0.055 μS/cm
Pure (Grade 2) water resistivity	10 MΩ x cm
Pure (Grade 2) water conductivity	0.1 µS/cm
TOC	< 10 ppb
Bacteria	< 0.01 CFU/ml
Endotoxins	< 0.15 EU/ml
Particles > 0.22 µm	< 1/ml
Deionization module life (standard module)	1 m3
Storage tank	30
Storage tank Feed water pressure	30 l 0.5 – 5 bar
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Feed water pressure	0.5 – 5 bar
Feed water pressure Feed water conductivity	0.5 – 5 bar < 1300 μS/cm
Feed water pressure Feed water conductivity Dimensions (W×D×H)	0.5 – 5 bar < 1300 μS/cm 320×560×620 mm





External pre-filter set (polyphosphate/carbon/1 µm) with manometer BS-070104-LK



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Microfilter - 0.22µm sterile

External pre-filter set

(carbon/1µm) with manometer

BS-070104-KK

Microfilter - 0.22µm non sterile BS-070104-EK



Storage tank 60I BS-070102-SK

Storage tank with base, tap and multipoint level switch, 60 l



Storage tank 1001 BS-070102-FK

Storage tank with base, tap and multipoint level switch, 100 l



Internal prefilter set BS-070104-AK



Polishing module BS-070104-BK

£



Deionization module BS-070104-IK



UV bulb 185 nm BS-070104-DK



Remote grade 1 water dispenser BS-070110-AK

Ultrafilter

BS-070104-GK

Ultrapure water dispenser is designed to dispense ultrapure water that complies with ISO 3696 Grade I water requirements.



UV bulb 254 nm

Remote grade 2 water dispenser BS-070104-JK