

Ultra-pure water systems



Series Ultra Clear Basic

We have created our newest water purification systems for laboratories. Our advantage is achieving the highest water quality with a cost-effective price.

The **Ultra Clear Basic** series provides 18.2 MΩ-cm water for analytical applications and many other ultra pure water requirements. The systems exceeds all the well known water quality standards like:

ASTM type 1, NCCLS type 1 and ISO 3696 type 1.

The **Ultra Clear Basic** series incorporates all the necessary features to produce your required water quality like integrated dual wavelength UV-oxidizer for a TOC-level of < 3ppb and/or ultra filtration for endotoxins level of < 0.002 Eu/ml .

The dispense rate is up to 1.5 LPM of ultra pure water. The graphic display shows the conductivity in μS/cm or the Resistivity in MegOhm-cm as well as water temperature.

All operating data can be recorded by the integrated RS 485 interface.

Cartridge changes are very simple and



fast in cause of the quick connectors and the easy access. The system operates with very low decibel and has our new 24-hour program (Day and Night) with interval function providing longer lifetime of the pump and the UV-lamp.

Typical Applications

- **Ultra Clear Basic:**
AAS, IC, GC
- **Ultra Clear Basic UV:**
AAS, IC, GC, HPLC
- **Ultra Clear Basic plus:**
AAS, IC, GC, life science, pharmacology
- **Ultra Clear Basic UV plus:**
AAS, IC, GC, HPLC, life science, pharmacology

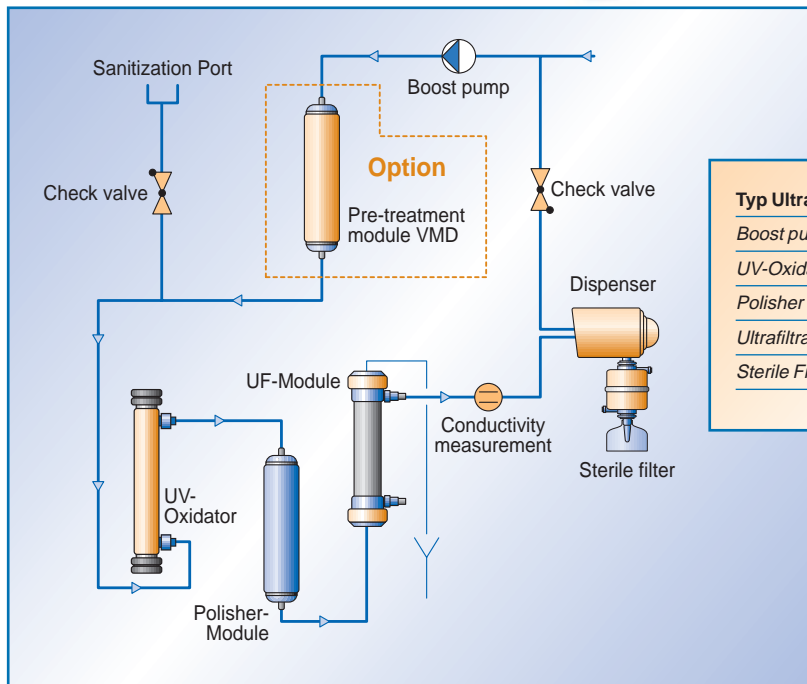
Technical Data Ultra Clear Basic

Typ Ultra Clear Basic...		Basic	UV	plus	UV plus
Performance specifications					
Output	l/min	1,5	1,5	1,2	1,2
Conductivity at 25° C	μS/cm	0,055	0,055	0,055	0,055
Resistivity at 25° C	MΩ-cm	18,2	18,2	18,2	18,2
TOC	ppb	<20	<5	<20	<5
Bacteria	cfu/ml	<1	<1	<1	<1
Endotoxins	EU/ml	-	-	<0,002	<0,002
Particle > 0,1 μm	per/ml	<1	<1	<1	<1
Feed water specification					
Feed water pressure	bar	0-2	0-2	0-2	0-2
Feed conductivity	μS/cm	<10	<10	<10	<10
TOC	ppb	<50	<50	<50	<50
Power supply	V/Hz	90-240/50-60	90-240/50-60	90-240/50-60	90-240/50-60
Dimensions : H/W/D	mm	535/340/320	535/340/320	535/340/320	535/340/320
Shipping weight	kg	31	32	32	33
Part-No.		2001-B	2002-B	2003-B	2004-B

Series Ultra Clear Basic



Flowsheet Ultra Clear Basic UV plus



Typ Ultra Clear Basic...	Basic	UV	plus	UV plus
Boost pump	√	√	√	√
UV-Oxidation	–	√	–	√
Polisher Module	√	√	√	√
Ultrafiltration	–	–	√	√
Sterile Filter	√	√	√	√

Options

Article	Part.-No.
<i>Pre-Treatment Module set for extension of the life time of the Polisher Module</i>	2063
<i>Pressure regulator (Only for feed pressure > 2 bar for ULTRA CLEAR BASIC ...plus and ...UV plus)</i>	2065

Consumables

Article	Change frequency	Part.-No.
<i>Pre-Treatment Module VMD</i>	6 – 12 monthly	2056
<i>Polisher Module MF III D</i>	6 – 12 monthly	2051
<i>0,2 µm Final Filter 400 cm²</i>	6 monthly	2064
<i>UF Membrane Preventor 5000</i>	2 – 3 Years	00089
<i>UV- Lamp</i>	12 monthly	2053

All options are integrated before shipping. Please specify the accessories upon ordering more than one unit.



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