

MEDICA
DIAGNOSTICS

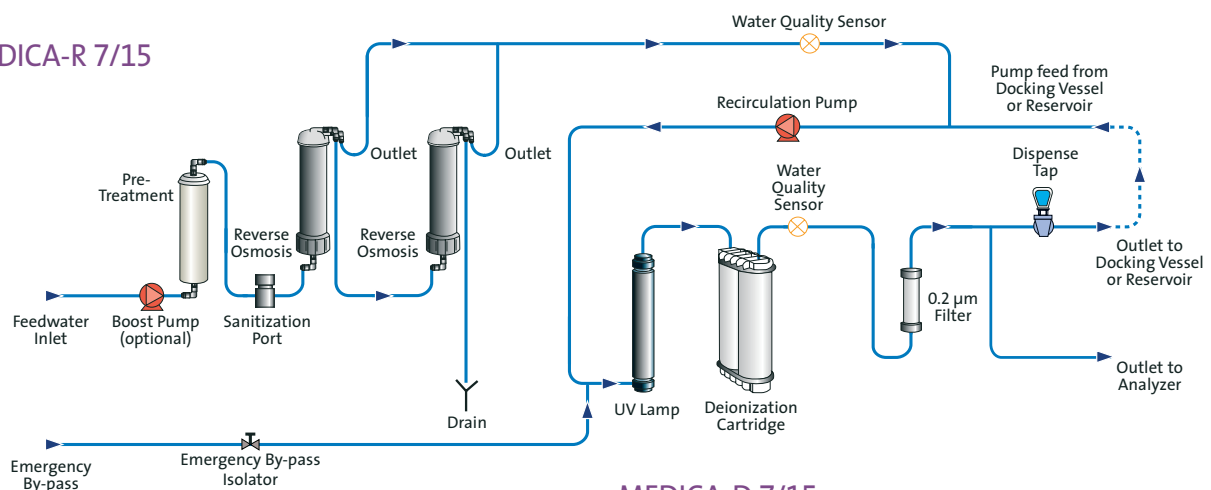


MEDICA[®]-R/D 7/15

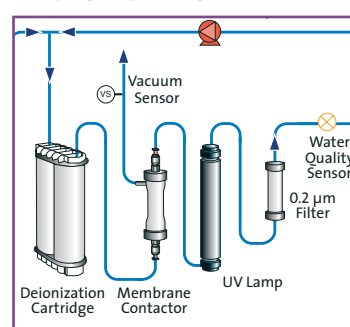
The MEDICA-R/D 7/15 is a compact, high performance water purification system that directly feeds Clinical Diagnostic Analyzers with up to 1.8 l/min of CLRW standard grade water. Innovative technology, combined with it's unique features, makes the MEDICA-R/D 7/15 a highly reliable and cost-effective choice.

- Space saving design – smallest footprint available on the market for the pure water specification. Optional Docking Vessel water reservoir facilitates bench top or wall mounting as a single unit
- The MEDICA-D features a membrane contactor to deliver a reduced dissolved oxygen specification required by some analyzers
- Guaranteed performance at all times through self monitoring software, easy system maintenance and emergency by-pass facility
- Guaranteed bacterial specification, provided by onboard technology combined with easy system sanitization
- Pure water ready to go – water specification is maintained in the reservoir by regular recirculation through the system's purification process

MEDICA-R 7/15



MEDICA-D 7/15



Includes deaeration membrane

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Treated Water Specifications

MODEL	MEDICA-R 7	MEDICA-R 15	MEDICA-D 7	MEDICA-D 15
Make-up rate @15°C	7.5 l/hr	15 l/hr	7.5 l/hr	15 l/hr
Delivery flow rate – maximum	Up to 1.8 l/min @ 30psi (2bar)	Up to 1.8 l/min @ 30psi (2bar)	Up to 1.8 l/min @ 30psi (2bar)	Up to 1.8 l/min @ 30psi (2bar)
Inorganics (resistivity @25°C)	>10 MΩ-cm	>10 MΩ-cm	>10 MΩ-cm	>10 MΩ-cm
Organics (TOC) – typical	<30 ppb	<30 ppb	<30 ppb	<30 ppb
Bacteria – typical	<1 CFU/ml	<1 CFU/ml	<1 CFU/ml	<1 CFU/ml
Particles	0.2 µm filter	0.2 µm filter	0.2 µm filter	0.2 µm filter
Silica	<0.05 mg/l	<0.05 mg/l	<0.05 mg/l	<0.05 mg/l
Dissolved oxygen (MEDICA-D)	N/A	N/A	6-8 ppm	6-8 ppm

Dimensions and weights

Dimensions	Height 460 mm (18.1in), Width 550 mm (21.7in), Depth 270mm (10.6in)			
Operational weight	18.5Kg	19Kg	19Kg	19.5Kg
Installation	Bench/wall	Bench/wall	Bench/wall	Bench/wall

Feedwater Requirement

Source	Tap water as detailed below			
Conductivity	<2000 µS/cm*	<2000 µS/cm*	<2000 µS/cm*	<2000 µS/cm*
Contaminant				
Hardness	<350 ppm as CaCO ₃	<350 ppm as CaCO ₃	<350 ppm as CaCO ₃	<350 ppm as CaCO ₃
Free chlorine	<0.5 ppm	<0.5 ppm	<0.5 ppm	<0.5 ppm
Chloramine	<0.2 ppm	<0.2 ppm	<0.2 ppm	<0.2 ppm
Silica	<30 ppm	<30 ppm	<30 ppm	<30 ppm
Fouling index	<10	<10	<10	<10
Iron/manganese	<0.2 ppm	<0.2 ppm	<0.2 ppm	<0.2 ppm
Organics	<3 ppm TOC	<3 ppm TOC	<3 ppm TOC	<3 ppm TOC
Temperature	4 - 40°C (Recommended 15 - 25°C)			
Flowrate (requirement at 15°C)	1.3 l/min	1.4 l/min	1.3 l/min	1.4 l/min
Drain requirements (gravity fall with air gap)	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min

* Deionization cartridge life may vary with feedwater >1400 µS/cm

Feedwater Pressure

Maximum – without internal boost pump	90psi (6bar)	90psi (6bar)	90psi (6bar)	90psi (6bar)
Minimum without internal boost pump	60psi (4bar)	60psi (4bar)	60psi (4bar)	60psi (4bar)
Maximum with internal boost pump	30psi (2bar)	30psi (2bar)	30psi (2bar)	30psi (2bar)
Minimum without internal boost pump	Flooded Suction	Flooded Suction	Flooded Suction	Flooded Suction

Electrical Requirements

Mains Input	100-240V ac, 50-60Hz
System control voltage (not including pumps and UV)	24V dc
Power consumption with boost pump	83VA
Power consumption without boost pump	60VA
Noise level	<45dBA

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