

MEDICA
DIAGNOSTICS

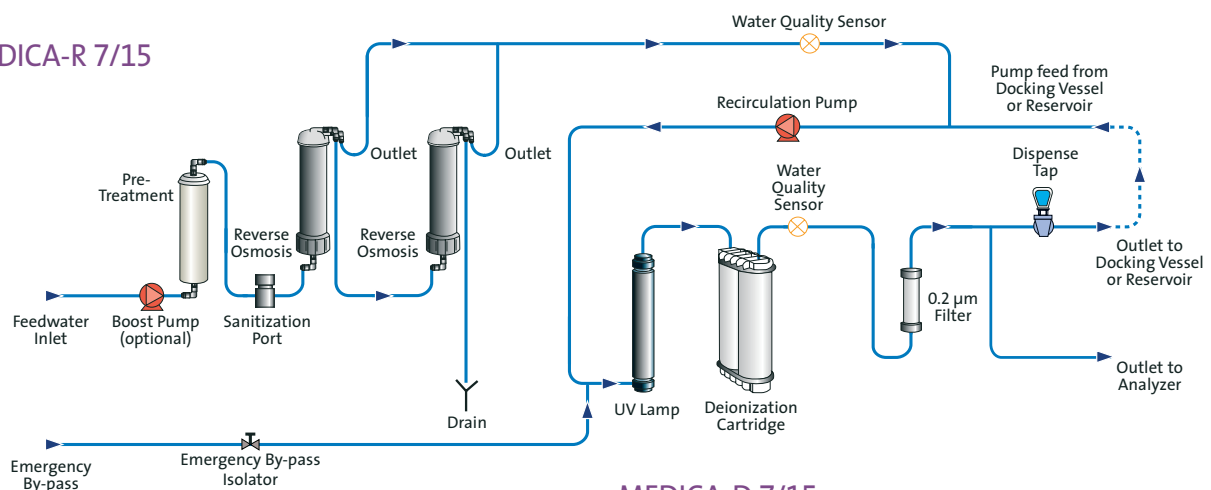


MEDICA[®]-R/D 7/15

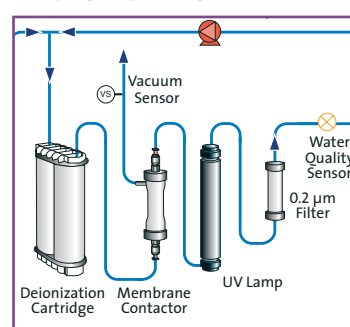
The MEDICA-R/D 7/15 is a compact, high performance water purification system that directly feeds Clinical Diagnostic Analyzers with up to 1.8 l/min of CLRW standard grade water. Innovative technology, combined with it's unique features, makes the MEDICA-R/D 7/15 a highly reliable and cost-effective choice.

- 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

MEDICA

DIAGNOSTICS

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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LITR 38758-04