

# HercoTherm

## Heat Disinfection for HercoPur RO units

Fully automatic thermal disinfection with individually adjustable heating intervals, heating times, temperature holding times and cooling-down period.

### Preventative thermal disinfection

Automatic device for preventive thermal disinfection of the permeate ringmain and the dead zone-free double-hose connections for connection to the dialysis machines, heating up to 95°C.

The HercoTherm unit consists of orbital welded stainless steel piping with dead-zone free heating elements separated from purified water and a circulation pump for constant distribution of temperature in the complete system. The unit also incorporates ringmain pressure and temperature control with over-limit safety features to ensure maximum regulation.

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### Ready to Use

Outputs for signal transmission to the dialysis rooms during heat disinfection. Quick interruption of the heat disinfection process in case of emergency dialysis possible. Cooling down of the ringmain is adaptable to site requirements.

TGA registered and certified in accordance to MDD class IIb as per EC regulation to annex III of council directive No. 93/42/EWG

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## Heat Disinfection for HercoPur RO units

### Space saving concept

The HercoTherm is an extension of the HercoPur reverse osmosis system, located at the rear of the HercoPur RO unit. The HercoTherm enables automatic preventative thermal disinfection (Between 80 oC and 90 oC) of the entire purified water system, including the RO membranes, permeate ringmain and dead-zone free double-hose adaptors that connect directly to the dialysis machines.

### Operational flexibility for microbial compliance

The HercoTherm unit is designed with heating elements strategically installed to ensure the ringmain temperature is always maintained between 80°C-90°C. This prevents the thermal disinfection cycle from exceeding the selected hours, regardless of ringmain length.

### Disinfection can be adapted to:

- thermal disinfect the RO membranes only
- thermal disinfect the ringmain only
- thermal disinfect the hose connection to dialysis machines
- thermal disinfect both the RO and the ringmain

The disinfection process can be manually or automatically controlled and monitored by the 7" HMI microprocessor controller, located on the HercoPur RO unit.

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### Ready to connect unit consisting of:

- rugged, durable stainless steel tubing
- designed without dead zones
- circulation pump for homogeneous distribution of the temperature within the whole system
- overflow valve to control the ringmain pressure within the set maximum value
- cooling down of the ring main with programmable amount of water depending on the site conditions

### Programmable micro processor control including:

- LCD full graphic display and keypad
- pre selection of interval-, heat up- and hold time including cool down control and fully automated computer operation
- emergency interruption control anytime
- monitoring of each heating element by PT 100 including over temperature protection and minimum temperature monitoring
- pressure monitoring for minimum and maximum of the permeate ring main

### Volt free outputs for:

- collective alarm
- report for the treatment rooms during thermal disinfection

Technical Data	HercoTherm 9	HercoTherm 18
Electrical connection	3ph 415 VAC, 50Hz	3ph 415 VAC, 50Hz
Power consumption	9 kW	18kW
Thermal disinfection temperature	80°C - 90°C	80°C - 90°C
Hot water withdrawal. Maximum	70 L/hr	150 L/hr
Height	1700mm	1700mm
Width	910mm	910mm
Depth	220mm	220mm