

# E4800 / E3500 Recirculating Heater / Chillers

recirculating heater / chillers and thermocirculator



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HEATER / CHILLERS



## rugged, quiet and reliable

### E4800 Recirculating Heater/Chiller Series

The E4800 series of water recirculating heater/chillers are recommended for a wide range of open and closed loop applications, offering simplicity, reliability and quiet operation. A 3-term digital temperature controller ensures ease of use and accuracy; water temperature can be accurately controlled over the range -10 to +60°C.

### Choosing the Correct Heater/Chiller

In order to optimise performance from a heater/chiller the correct specification must be selected for a particular application. To cool or heat any instrument or system it is important to obtain the following information from the manufacturer.

- Heat load to be dissipated to water, e.g. for an SEM/TEM: diffusion pump heater, lenses, etc
- Flow rate and size of tubing
- Minimum pressure

With this information consult the specification table below and select the appropriate heater/chillers.

Flow rate x wt. of fluid x Sp. heat x DT = heat extraction rate (in Watts)

	-20°C	-10°C	0°C	+10°C	+20°C
E4860	75W	105W	180W	300W	420W
E4870	125W	250W	500W	900W	1.2KW
E4880	200W	425W	700W	1.6kW	2.2KW
E4890	350W	600W	1.2kW	2kW	3KW

E4800 recirculating heater/chiller



E3500 thermocirculator



### Options

High pressure pumps for E4860 and E4870 (standard in E4880 and E4890), water failure alarms and over and under temperature cut-outs.

### E3500 Thermocirculator (heating only)

E3500 Thermo-circulator is a low cost, portable water circulating system for supplying a constant temperature supply for closed and open loop applications at near ambient to +60°C temperature. The E3500 will give controlled heating of Quorum E3000 and E3100 critical point dryers.

See: [www.quorumtech.com](http://www.quorumtech.com) for full technical specification and additional details.



### PRODUCT SPECIFICATIONS

Specifications	E4860	E4870	E4880	E4890
Extraction rate (Watts) at 20°C	400W	1400W	2200W	3000W
Temperature range (°C)	-20° to +70°	-20° to +70°	-20° to +70°	-20° to +70°
Refrigeration (HP)	1/5	1/2	3/4	1
Heater rating (kW)	1	1.5/2.0	2.5	2.5
Max. pump flow litre/hour	450	450	900	900
gal./hour	200	200	275	275
Height	37cm	45cm	50cm	50cm
Width	32cm	38cm	45cm	45cm
Depth	46cm	61cm	62cm	62cm
Weight	40kg	62kg	70kg	82kg
Water connections	16mm hose or 1/8 BSP	16mm hose or 1/8 BSP	16mm hose or 1/8 BSP	16mm hose or 1/8 BSP



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