

EVAPORATION

Sample Concentration/Nitrogen Blow-Down Systems

Available To Suit Every Block Size

Evaporation systems can be fitted to any Ratek block heaters to allow a controlled gas flow into tubes and vials. Gas manifolds with stainless steel removable needles to suit all standard size blocks are available, with blanking needles available for use when not all outlets are required. The EM96 fixed needle manifold is also available to suit 96 well plates.

Retort stands attached to the heater are used to hold the manifolds, these stands allow height and clearance adjustment and manifolds can be easily removed when not required. A simple quick-set clamping screw holds the manifold in place whilst individual valves are provided on the rear of the heater allowing independent control of gas flow to each manifold.

Evaporation systems can be retrofitted in our workshop to all existing DBH/D series block heaters or supplied fitted and ready to use with new block heaters.



Available for all DBH10/20/30/40/D heater models

EVAPORATION ORDER CODES

	DBH10	DBH10D/DP	DBH20D/DP	DBH30	DBH30D/DP	DBH40D/DP
Gas block & stand	EMS1	EMS1	EMS2	EMS3	EMS3	EMS4
Manifold series	EM + No. of Holes + S eg Manifold to suit 20 hole block = EM20S	EM + No. of Holes + S eg Manifold to suit 12 hole block = EM12S	EM + No. of Holes eg Manifold to suit 9 hole block = EM9	EM + No. of Holes eg Manifold to suit 6 hole block = EM6	EM + No. of Holes eg Manifold to suit 4 hole block = EM4	EM + No. of Holes eg Manifold to suit 96 well plate = EM96
Max no. of manifolds	1 x standard	1 x standard	2 x standard or 1 x EM96	3 x standard or 1 x EM96 + 1 x standard	3 x standard or 1 x EM96 + 1 x standard	4 x standard or 2 x EM96 or 1 x EM96 + 2 x standard

DRY BLOCK HEATER SPECIFICATIONS

	DBH10	DBH10D/DP	DBH20D/DP	DBH30	DBH30D/DP	DBH40D/DP
Block positions	1 x standard	1 x standard	2 x standard or 1 x MBx	3 x standard or 1 x MBx + 1 x standard	3 x standard or 1 x MBx + 1 x standard	4 x standard or 2 x MBx or 1 x MBx + 2 x standard
Control type	Solid-state analogue	Custom digital PID	Custom digital PID	Solid-state analogue	Custom digital PID	Custom digital PID
Max temp °C	110°C	DBH10D - 150° (1° increments) DBH10DP - 99.9° (0.1° increments)	DBH20D - 150° (1° increments) DBH20DP - 99.9° (0.1° increments)	110°C	DBH30D - 150° (1° increments) DBH30DP - 99.9° (0.1° increments)	DBH40D - 150° (1° increments) DBH40DP - 99.9° (0.1° increments)
Control stability	+/- 0.5°C	+/- 0.2°C	+/- 0.2°C	+/- 0.5°C	+/- 0.2°C	+/- 0.2°C
Safety features	• Over temp cutout	• Over temp alarm • Over temp cutout	• Over temp alarm • Over temp cutout	• Over-temp cutout	• Over temp alarm • Over temp cutout	• Over temp alarm • Over temp cutout
Power input	240V AC/165W	240V AC/165W	240V AC/165W	240V AC/330W	240V AC/330W	240V AC/330W
Overall dimensions	W165 x D200 x H100mm	W165 x D200 x H100mm	W216 x D265 x H100 mm	W283 x D265 x H100 mm	W283 x D265 x H100 mm	W362 x D265 x H100 mm
Nett weight	1.6 kg (without block)	2.5 kg (without block)	3.5 kg (without block)	3.7 kg (without block)	4.5 kg (without block)	4.9 kg (without block)