

SINGLE MODE HEATING POWER SUPPLY HEAT1-PS

Description

The HEAT1-PS is used for resistance heating. The Power Supply can additionally be used for effusion cell evaporators. The unit is equipped with a PID temperature controller (Eurotherm 2408). Ramp power heating protects the heater from overheating the sample. The unit can be operated in AUTO mode (with temperature control) or MANUAL mode (without temperature control). The EBV40A-PS can be supplied as a full width 19" rack mounting unit (3U height) or free standing.

The unit is also fully **software controlled** and **web-enabled** so that it can be operated over any network, including the internet.

Only one communication interface can be chosen at time of order (please refer to table) but this can be easily changed in the future via simple rear panel plugin connection modules, without ever having to access the internals of the unit.

Application

The HEAT1-PS power supply is designed for accurate, stable power delivery for heating a sample under clean UHV-conditions. It is suitable for resistively heating sample for temperatures up to 1500°C. The maximum temperature depends upon the rating of the specifically configured version of the HEAT1-PS*.

Software

Full dedicated software application or library module.

* Please check with our technical department prior to purchase.

** Only one communications interface can be used at once. Please specify at time of order.

Specification	
Supply voltage	110V or 230V, 50 - 60Hz specify at order
Max Power Heating*	Standard: 300W - resistance heating (max 600W for order); 30VDC; 10A
Temperature Range	20°C - 1500°C for thermocouple type C (dependent on sample holder type or evaporator) - 200°C - 1300°C for thermocouple K (dependent on sample holder type and conditions in the chamber)
Thermoelement type	Standard thermocouple type K and C (other thermocouple for order)
Temperature control	Process temperature control with PID Controller Eurotherm 2408
Process parameters	Eurotherm 2408 finds optimized process PID parameters with autotuning function
Ramp heating	Ramp function of Eurotherm 2408 protects the sample against overheating
Communication Interface**	RS232/485/422, USB, Profibus DPV1, Modbus, EtherNet/IP, Bluetooth
Dimensions	483 x 133 x 350mm (W x H x D) 19" rack mountable or stand alone
Weight, approx	16 kg

