PHP–Series

PHP–Series, Precision Hot Plates non–stop operation

The heating surfaces of the precision hot plates are composed of an efficient heat conducting Aluminium alloy,and have a smooth anodized finish for easy maintenance. The electrical long–term heating ensures that the temperature remains constant, even on the corners and edges. The microprocessor controlled digital regulator allows the operating temperature to be preset in 0.1°C stages up to 99,9°C and in 1.0°C stages for temperatures over 100°C.The preset temperature remains programmed, even when the equipment has been switched off. Presetting is only possible by using two fingers; this is to prevent anyunintentional alterations that could occur by accidentally touching only one key. The actual temperature is permanently displayed by 14mm high numerals after the keys have been released. An adjustable safety device against overheating prevents the hotplate and the substance to be heated, from dangerously high temperatures. A removable Plexiglass cover prevents any un authorised adjustments. All models have an electronic output control that allows the heating output to be adjusted between 10..100%, this pre–vents the hotplate exceeding the preset temperature and/or avoids any after–heating. The temperature of all hotplates is measured with a built–in, quick–reaction sensor (PT 100).All models are equipped with a 3–pole diode output bushing(extra–low voltage), to permit the connection of one of the following appliances:
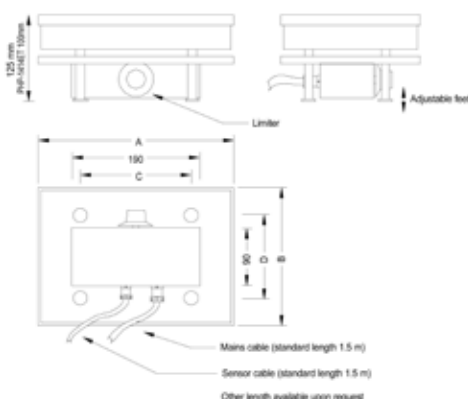
1. Contact Thermometer – to measure the temperature directly from the heated material and to regulate.
2. Time switch – in order to heat or cool the apparatus at preset intervals. Model PHP–6116 (long shape) is equipped with 5 screw–in sockets for support rods, at intervals of 125 mm.

Special Feature: Due to the asymmetrical, quick–reaction special heating and thermal sensors as well as output adaptation to the thermal requirements, very precise temperatures with a good uniform heat are obtainable over the whole heating surface.

* PHP–4358 is also available for 2x400 V,N+PE For an additional charge, all models can be delivered with an anodized black or Teflon coated heating surface.

Model	PHP-2028-1	PHP-2028-2	PHP-3535	PHP-6116	PHP-4358
Plate size (mm)	200x280	200x280	350x350	610x160	430x580
Temperature range (°C)	20 – 110	20 – 300			
Division (K)	bis 99,9°C 0,1K, über 100°C 1K				
Constant temp. (±K)	0.1	0.5			
Limiter (°C)	30 – 110	50 – 300			
Performance (Watt)	500	1100	2200	2000	3300
Voltage (Volt)	230 V, 50–60 Hz*				
Overall dimensions (mm)	210x300		365 x 380	620 x 215	445 x 610
Height (mm)	135		155		185
Weight (Kg)	7		14	12	22

Model	PHP-1414ET	PHP-2020ET	PHP-2820-1ET	PHP-2820-2ET	PHP-3535ET	PHP-6116ET	PHP-5843ET
Plate size (mm)	140x140	200x200	280x200	280x200	350x350	610x160	580x430
Weight (Kg)	2.2	4.0	5.4	5.4	10.8	8.9	21.2
Watt	450	800	500	1100	2200	2000	3300
Volt	230	230	230	230	230	230	230*
Max.Temp.	350	350	110	350	350	350	350
Limiter (°C)	–	100 – 350	30 – 110	100 – 350	100 – 350	100 – 350	100 – 350

300⁰C

PHP–SeriesET

Model	PHP-1414ET	PHP-2020ET	PHP-2820-1ET	PHP-2820-2ET	PHP-3535ET	PHP-6116ET	PHP-5843ET
A	140	200	280	280	350	610	580
B	140	200	200	200	350	160	430
C	100	120	160	160	286	478	510
D	100	120	120	120	286	98	437

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