HIGH-DENSITY CARTRIDGE HEATERS

High-density cartridge heaters (CCHC) are used to heat items requiring relatively high power in physically confined conditions, such as in tools, welding-vice jaws, medical equipment and packing machinery, as well as in the food industry.

A broad range of various services and materials adapted to each individual task is available.

TOLERANCES

All high density cartridges come with a tolerance in terms of dimensions and power.

- Longitudinal: +/-2%
- Power: +5%/-10%
- Resistance: +10%/-5%
- Cold zone, top: 8–12 mm
- Cold zone, bottom: 5–10 mm

High-density cartridge heaters must be installed in and fit an H7 opening, in which it fits tightly. The cartridge generates heat so quickly that it will burn out if it does not fit tightly.

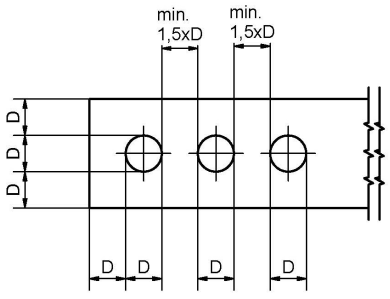
Nominal diameter		Hole
Above mm	Up to and including, mm	H7
-	3	+10 0
(3)	6	+12 0
(6)	10	+15 0
(10)	14	+18 0
(14)	18	
(18)	24	+21 0
(24)	30	
(30)	40	+25 0
(40)	50	
(50)	65	+30 0
(65)	80	

TECHNICAL DATA

- Standard: 230V
- Sheath material: AISI 321
- Heating conductor: Ni/Cr 80/20
- Power supply cable: 250mm
- Operating temperature: must not exceed 650°C
- Available with an in-built type J or K thermocouple placed in the bottom of the cartridge

PLACEMENT OF HIGH-DENSITY CARTRIDGE HEATERS IN TOOLS OR SIMILAR:

The space between high-density cartridge heaters in a tool should be no less than 1.5 x D (D = diameter of the high-density cartridge heater). The recommended distance to the outer edge of the tool is 1 x D.
To achieve an even distribution of heat in a tool or similar, we recommend a reciprocal distance of 3–5 x D.



See our standard product range on page 2

NOVEMBER 2018

STANDARD PRODUCT RANGE

Item no.	Dimensions	Voltage	Power
91800003	Ø6.5 x 40	230 V	100 W
91800029	Ø6.5 x 40	230 V	175 W
91800102	Ø6.5 x 60	230 V	200 W
91800110	Ø6.5 x 60	230 V	250 W
91800151	Ø6.5 x 80	230 V	300 W
91800177	Ø6.5 x 100	230 V	150 W
91800193	Ø6.5 x 100	230 V	400 W
91800201	Ø8.0 x 40	230 V	50 W
91800219	Ø8.0 x 40	230 V	160 W
91800235	Ø8.0 x 40	230 V	200 W
91800292	Ø8.0 x 60	230 V	125 W
91800342	Ø8.0 x 80	230 V	200 W
91800375	Ø8.0 x 100	230 V	200 W
91800391	Ø8.0 x 100	230 V	400 W
91800409	Ø8.0 x 130	230 V	250 W
91800417	Ø8.0 x 130	230 V	400 W
91800425	Ø10.0 x 40	230 V	100 W
91800441	Ø10.0 x 40	230 V	200 W
91800458	Ø10.0 x 40	230 V	250 W
91800524	Ø10.0 x 60	230 V	150 W
91800540	Ø10.0 x 60	230 V	300 W
91800557	Ø10.0 x 60	230 V	400 W
91800573	Ø10.0 x 80	230 V	200 W
91800581	Ø10.0 x 80	230 V	250 W
91800599	Ø10.0 x 80	230 V	400 W
91800623	Ø10.0 x 100	230 V	200 W
91800631	Ø10.0 x 100	230 V	350 W
91800649	Ø10.0 x 100	230 V	500 W
91800672	Ø10.0 x 130	230 V	300 W
91800680	Ø10.0 x 130	230 V	500 W
91800698	Ø10.0 x 130	230 V	800 W
91800706	Ø10.0 x 160	230 V	400 W
91800714	Ø10.0 x 160	230 V	600 W
91800847	Ø12.5 x 60	230 V	300 W
91800870	Ø12.5 x 80	230 V	200 W
91800896	Ø12.5 x 80	230 V	500 W
91800912	Ø12.5 x 80	230 V	750 W

Item no.	Dimensions	Voltage	Power
91800946	Ø12.5 x 100	230 V	600 W
91800961	Ø12.5 x 100	230 V	1000 W
91800979	Ø12.5 x 130	230 V	400 W
91800995	Ø12.5 x 130	230 V	1000 W
91801019	Ø12.5 x 160	230 V	500 W
91801043	Ø12.5 x 200	230 V	630 W
91801050	Ø12.5 x 200	230 V	1000 W
91801265	Ø16.0 x 100	230 V	315 W
91801266	Ø16.0 x 100	230 V	500 W
91801308	Ø16.0 x 130	230 V	500 W
91801357	Ø16.0 x 160	230 V	600 W
91801373	Ø16.0 x 160	230 V	1600 W
91801431	Ø16.0 x 250	230 V	1600 W

NOVEMBER 2018