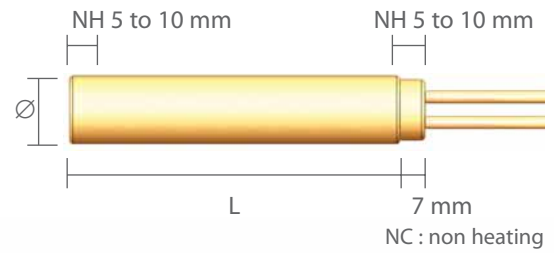



# STANDARD CARTRIDGE HEATERS

- Whether they are kept in stock or not, standard cartridge heaters are manufactured according to high density technology.
- This technology requires a H7 bore fit (see p.8).
- Stocked cartridge heaters are available within 48 hours, within the limit of our stock.
- Maximum watt density over the surface of the cartridge can reach 50 W/cm<sup>2</sup>, under specific conditions.
- Rated Wattage : from 75 to 2500 W.
- Rated Voltage : 230 V single phase.
- Stainless steel sheath.
- Ceramic end cap protecting the connection leads.
- Standard connection leads ; flexible multi strands, nickel core wire with fiberglass silk silicone impregnated insulation.
- Tolerance over the length : L < 100 mm : ± 2 mm.  
L ≥ 100 mm : ± 2 %.
- Manufactured in accordance with EN 60335-1 standards  
Tolerance over the wattage : +5% -10%  
Leakage current < 0.5 mA/kW

- Standard cartridge heater's dimensions :



Nominal Ø- mm (equiv. inches)	Tolerance over Ø – mm	Min Length - mm (equiv. inches)	Max Length. - mm (equiv. inches)
6.35 - (1/4")	-0.03 / -0.05	31.75 (1"1/4)	152.4 (6")
6.5	-0.03 / -0.05	32	160
8	-0.04 / -0.06	32	160
9.52 - (3/8")	-0.04 / -0.07	31.75 (1"1/4)	203.2 (8")
10	-0.04 / -0.07	32	200
12.5	-0.05 / -0.08	40	300
12.7 - (1/2")	-0.05 / -0.08	38.1 (1"1/2)	304.8 (12")
15.87 - (5/8")	-0.05 / -0.08	50.8 (2")	304.8 (12")
16	-0.05 / -0.08	40	300
19.05 - (3/4")	-0.06 / -0.1	63.5 (2"1/2)	304.8 (12")
20	-0.06 / -0.1	40	300
25.4 - (1")	-0.06 / -0.16	63.5 (2"1/2)	Nous consulter

- Some standard cartridge heaters can be fitted with built in "J" thermocouples (shown in the table as P+tcj), see the layout sketches and the assembling recommendations p.8 & 16. In this case, the standard length of connection leads and thermocouple wires is 1000 mm.
- Our full range of CCHC can be manufactured to be UL recognized by Underwriters Laboratories Inc. for the USA and Canada.  (please specify this request with the inquiry or the order)
- Standard cartridge heaters can be fitted with several types of connection (see p.9) and/or accessories (see p.12).
- Special manufacturing : odd sizes, variable power zone, built in thermocouple .... (see p.16)

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked
6.35 (1/4")	31.7 (1"1/4)	75	250	17	-	H1/4X1.2X75
		100	250	22	H1/4X1.2X100	-
		150	250	34	-	H1/4X1.2X150
		175	250	39	H1/4X1.2X175	-
		175+tcj	1000	39	HJ1/4X1.2X175	-
	38.1 (1"1/2)	75	250	15	H1/4X1.5X75	-
		100	250	20	-	H1/4X1.5X100
		100+tcj	1000	20	HJ1/4X1.5X100	-
		125	250	25	H1/4X1.5X125	-
		150	250	29	H1/4X1.5X150	-
		150+tcj	1000	29	HJ1/4X1.5X150	-
		175	250	34	H1/4X1.5X175	-
		200	250	39	H1/4X1.5X200	-
		200+tcj	1000	39	HJ1/4X1.5X200	-
		250	250	49	H1/4X1.5X250	-
	50.8 (2")	100	250	13	H1/4X2X100	-
100+tcj		1000	13	HJ1/4X2X100	-	
125		250	16	H1/4X2X125	-	
150		250	20	-	H1/4X2X150	
175		250	23	H1/4X2X175	-	
175		500	23	H1/4X2X175A	-	
200		250	26	H1/4X2X200	-	
200+tcj		1000	26	HJ1/4X2X200	-	
250		250	33	H1/4X2X250	-	
300		250	39	H1/4X2X300	-	
63.5 (2"1/2)	100	250	10	-	H1/4X2.5X100	
	125	250	12	-	H1/4X2.5X125	

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
6.35 (1/4")	63.5 (2"1/2)	150	250	15	-	H1/4X2.5X150	
		175	250	17	-	H1/4X2.5X175	
		200	250	20	H1/4X2.5X200	-	
		200+tcj	1000	20	HJ1/4X2.5X200	-	
		250	250	25	H1/4X2.5X250	-	
		250+tcj	1000	25	HJ1/4X2.5X250	-	
	76.2 (3")	100	250	8	-	H1/4X3X100	
		150	250	12	H1/4X3X150	-	
		175	250	14	-	H1/4X3X175	
		200	250	16	H1/4X3X200	-	
88.9 (3"1/2)	200+tcj	1000	16	HJ1/4X3X200	-		
		250	250	20	H1/4X3X250	-	
		250+tcj	1000	20	HJ1/4X3X250	-	
		300	250	24	H1/4X3X300	-	
	300+tcj	1000	24	HJ1/4X3X300	-		
		400	250	31	H1/4X3X400	-	
		101.6 (4")	150	250	10	-	H1/4X3.5X150
			200	250	13	H1/4X3.5X200	-
			250	250	16	-	H1/4X3.5X250
			300	250	20	H1/4X3.5X300	-
101.6 (4")	300+tcj	1000	17	HJ1/4X4X300	-		
		125	250	7	-	H1/4X4X125	
		150	250	8	-	H1/4X4X150	
		175	250	10	-	H1/4X4X175	
		200	250	11	H1/4X4X200	-	
		250	250	14	H1/4X4X250	-	
		300	250	17	H1/4X4X300	-	
		300+tcj	1000	17	HJ1/4X4X300	-	

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Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
<b>6.35</b> (1/4")	<b>101.6</b> (4")	350	250	20	H1/4X4X350	-	
		<b>127</b> (5")	150	250	7	-	H1/4X5X150
			200	250	9	H1/4X5X200	-
			250	250	11	-	H1/4X5X250
			300	250	13	H1/4X5X300	-
	350	250	15	-	H1/4X5X350		
	400	250	18	-	H1/4X5X400		
	<b>152.4</b> (6")	150	250	5	-	H1/4X6X150	
		200	250	7	-	H1/4X6X200	
		300	250	11	-	H1/4X6X300	
		350	250	13	-	H1/4X6X350	
		400	250	14	H1/4X6X400	-	
		500	250	18	-	H1/4X6X500	
	<b>6.5</b>	<b>32</b>	75	250	16	H6.5X32X75	-
			100	250	22	-	H6.5X32X100
150			250	32	-	H6.5X32X150	
175			250	37	-	H6.5X32X175	
<b>40</b>			100	250	16	H6.5X40X100	-
		100+tcj	1000	16	HJ6.5X40X100	-	
		125	250	20	H6.5X40X125	-	
		150	250	25	H6.5X40X150	-	
		175	250	29	H6.5X40X175	-	
		200	250	33	H6.5X40X200	-	
		200+tcj	1000	33	HJ6.5X40X200	-	
		250	250	41	-	H6.5X40X250	
<b>50</b>		125	250	16	H6.5X50X125	-	
		150	250	20	H6.5X50X150	-	
		150+tcj	1000	20	HJ6.5X50X150	-	
		175	250	23	-	H6.5X50X175	
		200	250	26	H6.5X50X200	-	
		200+tcj	1000	26	HJ6.5X50X200	-	
		250	250	32	H6.5X50X250	-	
		250+tcj	1000	32	HJ6.5X50X250	-	
<b>60</b>		125	250	13	H6.5X60X125	-	
		125+tcj	1000	13	HJ6.5X60X125	-	
		150	250	15	H6.5X60X150	-	
		175	250	18	-	H6.5X60X175	
		200	250	21	H6.5X60X200	-	
		200+tcj	1000	21	HJ6.5X60X200	-	
		250	250	26	H6.5X60X250	-	
		250+tcj	1000	26	HJ6.5X60X250	-	
		300	250	31	-	H6.5X60X300	
		<b>80</b>	125	250	9	H6.5X80X125	-
175			250	13	H6.5X80X175	-	
200			250	15	H6.5X80X200	-	
200+tcj			1000	15	HJ6.5X80X200	-	
250			250	18	H6.5X80X250	-	
300			250	22	H6.5X80X300	-	
300+tcj			1000	22	HJ6.5X80X300	-	
350			250	24	H6.5X80X350	-	
<b>100</b>		125	250	7	-	H6.5X100X125	
		125+tcj	1000	7	HJ6.5X100X125	-	
		150	250	8	H6.5X100X150	-	
		200	250	11	-	H6.5X100X200	
		250	250	14	H6.5X100X250	-	
		300	250	17	H6.5X100X300	-	
		300+tcj	1000	17	HJ6.5X100X300	-	
		350	250	20	-	H6.5X100X350	
	400	250	22	H6.5X100X400	-		
	<b>130</b>	125	250	5	H6.5X130X125	-	
200		250	6	-	H6.5X130X150		

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
<b>6.5</b>	<b>130</b>	200	250	8	-	H6.5X130X200	
		250	250	10	H6.5X130X250	-	
		300	250	13	-	H6.5X130X300	
		300+tcj	1000	13	HJ6.5X130X300	-	
		350	250	15	-	H6.5X130X350	
		400	250	17	H6.5X130X400	-	
		<b>160</b>	150	250	5	-	H6.5X160X150
	200		250	7	H6.5X160X200	-	
	300		250	10	-	H6.5X160X300	
	350		250	12	-	H6.5X160X350	
	400		250	13	-	H6.5X160X400	
	<b>8</b>	<b>32</b>	200	250	38	H8X32X200	-
			<b>40</b>	50	250	7	H8X40X50
		100		250	14	H8X40X100	-
		125		250	19	H8X40X125	-
125+tcj		1000		19	HJ8X40X125	-	
150		250		23	H8X40X150	-	
200		250		30	H8X40X200	-	
200+tcj		1000		30	HJ8X40X200	-	
<b>50</b>		125	250	15	H8X50X125	-	
		125+tcj	1000	15	HJ8X50X125	-	
		150	250	18	H8X50X150	-	
		200	250	23	H8X50X200	-	
		200+tcj	1000	23	HJ8X50X200	-	
<b>60</b>		125	250	11	H8X60X125	-	
		125	500	11	H8X60X125A	-	
	150	250	14	H8X60X150	-		
	200	250	18	-	H8X60X200		
	200+tcj	1000	18	HJ8X60X200	-		
	250	250	23	H8X60X250	-		
	250+tcj	1000	23	HJ8X60X250	-		
	300	250	27	H8X60X300	-		
	400	250	36	H8X60X400	-		
	400+tcj	1000	36	HJ8X60X400	-		
<b>80</b>	150	250	9	H8X80X150	-		
	175	250	11	H8X80X175	-		
	200	250	12	H8X80X200	-		
	200+tcj	1000	12	HJ8X80X200	-		
	250	250	16	H8X80X250	-		
	300	250	19	H8X80X300	-		
	400	250	25	H8X80X400	-		
	400+tcj	1000	25	HJ8X80X400	-		
	<b>100</b>	175	250	8	-	H8X100X175	
		200	250	10	H8X100X200	-	
250		250	12	H8X100X250	-		
250+tcj		1000	12	HJ8X100X250	-		
300		250	14	H8X100X300	-		
300+tcj		1000	14	HJ8X100X300	-		
400		250	19	H8X100X400	-		
400+tcj		1000	19	HJ8X100X400	-		
600		250	28	H8X100X600	-		
<b>130</b>		175	250	6	-	H8X130X175	
	200	250	7	H8X130X200	-		
	250	250	9	H8X130X250	-		
	300	250	11	H8X130X300	-		
	400	250	14	H8X130X400	-		
	400	500	14	H8X130X400A	-		
	400+tcj	1000	14	HJ8X130X400	-		
<b>160</b>	200	250	6	-	H8X160X200		
	250	250	7	H8X160X250	-		

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# STANDARD CARTRIDGE HEATERS

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked
<b>8</b>	<b>160</b>	250+tcj	1000	7	HJ8X160X250	
		300	250	8	H8X160X300	-
		400	250	11	H8X160X400	-
		400+tcj	1000	11	HJ8X160X400	-
		500	250	14	-	H8X160X500
	600	250	17	-	H8X160X600	
<b>9.52</b> (3/8")	<b>31.75</b> (1"1/4)	75	250	13	H3/8X1.2X75	-
		100	250	18	-	H3/8X1.2X100
		150	250	26	-	H3/8X1.2X150
		200	250	35	H3/8X1.2X200	-
	<b>38.1</b> (1"1/2)	100	250	14	H3/8X1.5X100	-
		125	250	18	-	H3/8X1.5X125
		150	250	21	H3/8X1.5X150	-
		200	250	28	H3/8X1.5X200	-
		200+tcj	1000	28	HJ3/8X1.5X200	-
		250	250	35	-	H3/8X1.5X250
	250+tcj	1000	35	HJ3/8X1.5X250	-	
	400	250	42	-	H3/8X1.5X400	
	<b>50.8</b> (2")	100	250	10	H3/8X2X100	-
		125	250	13	-	H3/8X2X125
		150	250	15	-	H3/8X2X150
175		250	18	H3/8X2X175	-	
175		500	18	H3/8X2X175A	-	
200		250	20	H3/8X2X200	-	
250		250	25	H3/8X2X250	-	
250+tcj		1000	25	HJ3/8X2X250	-	
300		250	30	-	H3/8X2X300	
500		250	51	H3/8X2X500	-	
<b>63.5</b> (2"1/2)	100	250	7	-	H3/8X2.5X100	
	125	250	9	-	H3/8X2.5X125	
	150	250	11	-	H3/8X2.5X150	
	200	250	15	H3/8X2.5X200	-	
	250	250	18	H3/8X2.5X250	-	
	300	250	22	H3/8X2.5X300	-	
	350	250	26	-	H3/8X2.5X350	
	400	250	29	-	H3/8X2.5X400	
<b>76.2</b> (3")	150	250	9	H3/8X3X150	-	
	200	250	12	H3/8X3X200	-	
	250	250	14	H3/8X3X250	-	
	300	250	17	H3/8X3X300	-	
	300+tcj	1000	17	HJ3/8X3X300	-	
	400	250	23	H3/8X3X400	-	
	400+tcj	1000	29	HJ3/8X3X400	-	
	500	250	29	H3/8X3X500	-	
600	250	34	H3/8X3X600	-		
<b>88.9</b> (3"1/2)	250	250	12	-	H3/8X3.5X250	
	300	250	14	-	H3/8X3.5X300	
	350	250	17	-	H3/8X3.5X350	
	400	250	19	H3/8X3.5X400	-	
	400+tcj	1000	19	HJ3/8X3.5X400	-	
500	250	24	-	H3/8X3.5X500		
<b>101.6</b> (4")	150	250	6	H3/8X4X150	-	
	200	250	8	H3/8X4X200	-	
	250	250	10	H3/8X4X250	-	
	300	250	12	H3/8X4X300	-	
	400	250	16	H3/8X4X400	-	
	400+tcj	1000	16	HJ3/8X4X400	-	
	500	250	20	H3/8X4X500	-	
600	250	24	-	H3/8X4X600		
750	250	30	H3/8X4X750	-		
<b>127</b> (5")	175	250	5	-	H3/8X5X175	
	250	250	8	-	H3/8X5X250	

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked
<b>9.52</b> (3/8")	<b>127</b> (5")	300	250	9	H3/8X5X300	-
		400	250	12	H3/8X5X400	-
		500	250	15	H3/8X5X500	-
		800	250	25	H3/8X5X800	-
		1000	250	31	-	H3/8X5X1000
	<b>152.4</b> (6")	250	250	6	-	H3/8X6X250
		300	250	8	H3/8X6X300	-
		400	250	10	H3/8X6X400	-
		500	250	12	H3/8X6X500	-
		500	1000	12	H3/8X6X500B	-
600	250	15	-	H3/8X6X600		
800	250	19	H3/8X6X800	-		
1000	250	25	-	H3/8X6X1000		
<b>165.1</b> (6"1/2)	400	250	9	H3/8X6.5X400	-	
<b>177.8</b> (7")	350	250	7	-	H3/8X7X350	
	400	250	8	-	H3/8X7X400	
	500	250	11	H3/8X7X500	-	
	600	250	13	H3/8X7X600	-	
	750	250	16	H3/8X7X750	-	
	1000	250	21	H3/8X7X1000	-	
<b>203.2</b> (8")	300	250	5	H3/8X8X300	-	
	400	250	7	-	H3/8X8X400	
	500	250	9	H3/8X8X500	-	
	600	250	11	-	H3/8X8X600	
	750	250	14	H3/8X8X750	-	
1000	250	18	H3/8X8X1000	-		
<b>10</b>	<b>32</b>	75	250	12	-	H10X32X75
		100	250	16	-	H10X32X100
		150	250	24	-	H10X32X150
		200	250	32	-	H10X32X200
	<b>40</b>	100	250	13	H10X40X100	-
		125	250	16	H10X40X125	-
		150	250	19	H10X40X150	-
		200	250	25	H10X40X200	-
		200+tcj	1000	25	HJ10X40X200	-
		250	250	31	H10X40X250	-
300	250	38	H10X40X300	-		
300+tcj	1000	38	HJ10X40X300	-		
<b>50</b>	125	250	12	-	H10X50X125	
	150	250	14	H10X50X150	-	
	150+tcj	1000	14	HJ10X50X150	-	
	200	250	19	H10X50X200	-	
	250	250	24	H10X50X250	-	
300	250	29	-	H10X50X300		
400	250	38	H10X50X400	-		
400+tcj	1000	38	HJ10X50X400	-		
<b>60</b>	125	250	9	H10X60X125	-	
	150	250	11	H10X60X150	-	
	200	250	15	H10X60X200	-	
	200+tcj	1000	15	HJ10X60X200	-	
	250	250	19	H10X60X250	-	
	300	250	22	H10X60X300	-	
400	250	30	H10X60X400	-		
400+tcj	1000	30	HJ10X60X400	-		
<b>80</b>	150	250	8	-	H10X80X150	
	200	250	10	H10X80X200	-	
	250	250	13	H10X80X250	-	
	300	250	15	H10X80X300	-	
	400	250	20	H10X80X400	-	
	400+tcj	1000	25	HJ10X80X400	-	
	500	250	25	H10X80X500	-	

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# STANDARD CARTRIDGE HEATERS

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
<b>10</b>	<b>80</b>	630	250	29	H10X80X630	-	
		<b>100</b>	200	250	8	H10X100X200	-
			250	250	10	H10X100X250	-
			250+tcj	1000	10	HJ10X100X250	-
			300	250	12	H10X100X300	-
			350	250	13	H10X100X350	-
			350+tcj	1000	13	HJ10X100X350	-
	400		250	15	H10X100X400	-	
	500	250	19	H10X100X500	-		
	500+tcj	1000	19	HJ10X100X500	-		
	600	250	23	H10X100X600	-		
	700	250	26	H10X100X700	-		
	<b>130</b>	250	250	7	H10X130X250	-	
		300	250	8	H10X130X300	-	
		400	250	11	H10X130X400	-	
		500	250	14	H10X130X500	-	
		600	250	17	H10X130X600	-	
		800	250	23	H10X130X800	-	
		800	500	23	H10X130X800A	-	
	<b>160</b>	300	250	7	-	H10X160X300	
		400	250	9	H10X160X400	-	
		400+tcj	1000	9	HJ10X160X400	-	
		500	250	11	-	H10X160X500	
		600	250	13	H10X160X600	-	
		600	500	13	H10X160X600A	-	
		800	250	18	-	H10X160X800	
	<b>200</b>	400	250	7	-	H10X200X400	
500		250	9	H10X200X500	-		
600		250	10	-	H10X200X600		
750		250	13	-	H10X200X750		
1000		250	17	H10X200X1000	-		
<b>250</b>	1000	250	14	H10X250X1000	-		
<b>12.5</b>	<b>40</b>	125	250	13	-	H12.5X40X125	
		160	250	16	-	H12.5X40X160	
		200	250	20	-	H12.5X40X200	
		250	250	25	H12.5X40X250	-	
		300	250	30	-	H12.5X40X300	
		350	250	35	-	H12.5X40X350	
		400	250	40	-	H12.5X40X400	
	500	250	50	-	H12.5X40X500		
	<b>50</b>	160	250	12	H12.5X50X160	-	
		200	250	14	H12.5X50X200	-	
		250	250	18	-	H12.5X50X250	
		300	250	22	H12.5X50X300	-	
		350	250	25	-	H12.5X50X350	
		400	250	29	H12.5X50X400	-	
		500	250	36	-	H12.5X50X500	
	600	250	43	-	H12.5X50X600		
	<b>60</b>	125	250	8	-	H12.5X60X125	
		160	250	10	-	H12.5X60X160	
		200	250	12	H12.5X60X200	-	
		250	250	15	H12.5X60X250	-	
		300	250	18	H12.5X60X300	-	
		350	250	21	-	H12.5X60X350	
		400	250	24	H12.5X60X400	-	
		500	250	30	-	H12.5X60X500	
	600	250	36	-	H12.5X60X600		
	<b>80</b>	125	250	5	-	H12.5X80X125	
		160	250	7	-	H12.5X80X160	
		200	250	8	H12.5X80X200	-	
		250	250	10	H12.5X80X250	-	
		300	250	12	H12.5X80X300	-	

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
<b>12.5</b>	<b>80</b>	350	250	14	-	H12.5X80X350	
		400	250	17	H12.5X80X400	-	
		500	250	21	H12.5X80X500	-	
		600	250	25	H12.5X80X600	-	
		600	500	25	H12.5X80X600A	-	
		750	250	31	H12.5X80X750	-	
		<b>100</b>	160	250	5	H12.5X100X160	-
	200		250	6	-	H12.5X100X200	
	250		250	8	H12.5X100X250	-	
	300		250	9	H12.5X100X300	-	
	400		250	12	H12.5X100X400	-	
	400+tcj		1000	12	HJ125X100X400	-	
	500		250	16	H12.5X100X500	-	
	600		250	19	H12.5X100X600	-	
	800		250	25	H12.5X100X800	-	
	1000		250	31	H125X100X1000	-	
	<b>130</b>		250	250	6	-	H12.5X130X250
			350	250	8	-	H12.5X130X350
		400	250	9	H12.5X130X400	-	
		500	250	11	H12.5X130X500	-	
		600	250	14	H12.5X130X600	-	
		800	250	18	H12.5X130X800	-	
		800	500	18	H125X130X800A	-	
		1000	250	23	H125X130X1000	-	
		1000	1000	23	125X130X1000B	-	
		<b>160</b>	400	250	7	H12.5X160X400	-
			400+tcj	1000	7	HJ125X160X400	-
			500	250	9	H12.5X160X500	-
	500		1000	9	H125X160X500B	-	
	600		250	11	H12.5X160X600	-	
	800		250	14	H12.5X160X800	-	
	800		500	14	H125X160X800A	-	
	800		2000	14	H125X160X800E	-	
1000	250		18	H125X160X1000	-		
1000	1000		18	125X160X1000B	-		
1200	250		22	H125X160X1200	-		
<b>180</b>	630		250	10	H12.5X180X630	-	
	1000	250	16	H125X180X1000	-		
	<b>200</b>	300	250	4	H12.5X200X300	-	
		500	250	7	H12.5X200X500	-	
		600	250	8	H12.5X200X600	-	
		800	250	11	H12.5X200X800	-	
800		2000	11	H125X200X800E	-		
1000		250	14	H125X200X1000	-		
<b>250</b>	1200	250	17	H125X200X1200	-		
	1500	250	19	H125X200X1500	-		
	2000	250	22	-	H125X200X2000		
	500	250	6	H12.5X250X500	-		
	800	250	9	H12.5X250X800	-		
	1000	250	11	H125X250X1000	-		
<b>300</b>	1000	1000	11	125X250X1000B	-		
	1250	250	14	H125X250X1250	-		
	1500	250	17	H125X250X1500	-		
	2000	250	22	-	H125X250X2000		
	500	250	5	H12.5X300X500	-		
	800	250	7	H12.5X300X800	-		
<b>12.7 (1/2")</b>	<b>38.1 (1 1/2")</b>	125	250	14	-	H1/2X1.5X125	
		150	250	17	-	H1/2X1.5X150	
		200	250	22	H1/2X1.5X200	-	

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# STANDARD CARTRIDGE HEATERS

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked
<b>12.7</b> (1/2")	<b>38.1</b> (1"1/2)	250	250	28	-	H1/2X1.5X250
		300	250	33	-	H1/2X1.5X300
<b>50.8</b> (2")	<b>150</b>	250	250	11	H1/2X2X150	-
		200	250	15	H1/2X2X200	-
		250	250	19	H1/2X2X250	-
		300	250	23	H1/2X2X300	-
		400	250	30	H1/2X2X400	-
<b>63.5</b> (2"1/2)	<b>150</b>	250	250	8	-	H1/2X2.5X150
		250	250	14	-	H1/2X2.5X250
		300	250	16	-	H1/2X2.5X300
		400	250	22	H1/2X2.5X400	-
		500	250	27	H1/2X2.5X500	-
<b>76.2</b> (3")	<b>200</b>	250	250	9	H1/2X3X200	-
		250	250	11	-	H1/2X3X250
		300	250	13	H1/2X3X300	-
		400	250	17	H1/2X3X400	-
		500	250	21	H1/2X3X500	-
		500	500	21	H1/2X3X500A	-
		600	250	26	H1/2X3X600	-
750	250	32	H1/2X3X750	-		
<b>88.9</b> (3"1/2)	<b>250</b>	250	250	9	-	H1/2X3.5X250
		300	250	11	H1/2X3.5X300	-
		350	250	12	-	H1/2X3.5X350
		500	250	18	-	H1/2X3.5X500
<b>101.6</b> (4")	<b>250</b>	250	250	8	H1/2X4X250	-
		300	250	9	H1/2X4X300	-
		300+tcj	1000	9	H1/2X4X300	-
		350	250	10	-	H1/2X4X350
		400	250	12	H1/2X4X400	-
		500	250	15	H1/2X4X500	-
		600	250	18	H1/2X4X600	-
<b>127</b> (5")	<b>300</b>	250	250	7	H1/2X5X300	-
		350	250	8	H1/2X5X350	-
		400	250	9	-	H1/2X5X400
<b>152.4</b> (6")	<b>300</b>	250	250	6	H1/2X6X300	-
		400	250	7	H1/2X6X400	-
		500	250	9	H1/2X6X500	-
		600	250	11	H1/2X6X600	-
		750	250	14	H1/2X6X750	-
		850	250	16	H1/2X6X850	-
<b>165.1</b> (6"1/2)	<b>1000</b>	250	250	17	H1/2X6.5X1000	-
<b>177.8</b> (7")	<b>500</b>	250	250	8	H1/2X7X500	-
		600	250	9	-	H1/2X7X600
		700	250	11	H1/2X7X700	-
		1000	250	16	H1/2X7X1000	-
<b>203.2</b> (8")	<b>500</b>	250	250	7	H1/2X8X500	-
		800	250	11	H1/2X8X800	-
		1000	250	14	H1/2X8X1000	-
		1500	250	20	H1/2X8X1500	-
		2000	250	27	-	H1/2X8X2000

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	Wdens. (W/cm <sup>2</sup> )	Stocked	Non stocked	
<b>12.7</b> (1/2")	<b>228.6</b> (9")	500	250	6	H1/2X9X500	-	
		600	250	7	-	H1/2X9X600	
		750	250	9	-	H1/2X9X750	
		1000	250	12	H1/2X9X1000	-	
		1200	250	14	H1/2X9X1200	-	
	<b>254</b> (10")	<b>500</b>	250	250	5	H1/2X10X500	-
			750	250	8	-	H1/2X10X750
			1000	250	11	H1/2X10X1000	-
			1200	250	13	-	H1/2X10X1200
			1500	250	18	H1/2X10X1500	-
	<b>279.4</b> (11")	<b>800</b>	250	250	8	H1/2X11X800	-
<b>304.8</b> (12")	<b>600</b>	250	250	5	H1/2X12X600	-	
		800	250	7	-	H1/2X12X800	
		1000	250	9	H1/2X12X1000	-	
		1500	250	13	H1/2X12X1500	-	
		2000	250	18	H1/2X12X2000	-	
<b>15.87</b> (5/8")	<b>50.8</b> (2")	200	250	12	H5/8X2X200	-	
		300	250	18	-	H5/8X2X300	
		500	250	30	-	H5/8X2X500	
	<b>63.5</b> (2"1/2)	<b>175</b>	250	250	8	-	H5/8X2.5X175
			250	250	11	-	H5/8X2.5X250
			300	250	13	-	H5/8X2.5X300
			400	250	18	-	H5/8X2.5X400
			500	250	22	-	H5/8X2.5X500
	<b>76.2</b> (3")	<b>250</b>	250	250	9	-	H5/8X3X250
			300	250	10	-	H5/8X3X300
			400	250	14	H5/8X3X400	-
			500	250	17	H5/8X3X500	-
			600	250	21	-	H5/8X3X600
	<b>101.6</b> (4")	<b>300</b>	250	250	7	-	H5/8X4X300
			400	250	10	H5/8X4X400	-
500			250	12	H5/8X4X500	-	
600			250	14	-	H5/8X4X600	
750			250	18	H5/8X4X750	-	
<b>127</b> (5")	<b>400</b>	250	250	7	-	H5/8X5X400	
		500	250	9	-	H5/8X5X500	
		600	250	11	-	H5/8X5X600	
		800	250	15	H5/8X5X800	-	
		1000	250	18	H5/8X5X1000	-	
<b>152.4</b> (6")	<b>400</b>	250	250	6	H5/8X6X400	-	
		600	250	9	H5/8X6X600	-	
		800	250	12	H5/8X6X800	-	
		1000	250	15	H5/8X6X1000	-	
		1500	250	22	-	H5/8X6X1500	
<b>177.8</b> (7")	<b>500</b>	250	250	6	H5/8X7X500	-	
		600	250	8	-	H5/8X7X600	
		1000	250	13	H5/8X7X1000	-	
		1500	250	19	H5/8X7X1500	-	
<b>203.2</b> (8")	<b>500</b>	250	250	5	-	H5/8X8X500	
		750	250	8	H5/8X8X750	-	
		1000	250	11	H5/8X8X1000	-	

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Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stocked	Non stocked
15.87 (5/8")	203.2 (8")	1200	250	13	H5/8X8X1200	-
		1500	250	16	H5/8X8X1500	-
		2000	250	22	-	H5/8X8X2000
	228.6 (9")	500	250	5	-	H5/8X9X500
		1000	250	10	-	H5/8X9X1000
		1250	250	12	H5/8X9X1250	-
	254 (10")	750	250	6	H5/8X10X750	-
		1000	250	9	H5/8X10X1000	-
		1300	250	11	H5/8X10X1300	-
		1600	250	14	H5/8X10X1600	-
		2000	250	17	H5/8X10X2000	-
	304.8 (12")	750	250	5	-	H5/8X12X750
1000		250	7	H5/8X12X1000	-	
1500		250	11	H5/8X12X1500	-	
1800		250	13	H5/8X12X1800	-	
2000		250	14	-	H5/8X12X2000	
2500		250	18	-	H5/8X12X2500	
16	40	160	250	12	-	H16X40X160
		200	250	15	H16X40X200	-
		250	250	19	-	H16X40X250
		300	250	23	-	H16X40X300
		400	250	31	H16X40X400	-
		500	250	39	H16X40X500	-
	50	160	250	9	-	H16X50X160
		200	250	11	H16X50X200	-
		250	250	14	-	H16X50X250
		315	250	17	H16X50X315	-
		400	250	22	H16X50X400	-
		500	250	28	H16X50X500	-
	60	160	250	8	H16X60X160	-
		200	250	9	H16X60X200	-
		250	250	12	-	H16X60X250
		300	250	14	H16X60X300	-
		400	250	19	H16X60X400	-
		400+tcj	1000	19	HJ16X60X400	-
	80	250	250	8	-	H16X80X250
		300	250	10	H16X80X300	-
		400	250	13	H16X80X400	-
		500	250	16	H16X80X500	-
		600	250	19	H16X80X600	-
		800	250	25	H16X80X800	-
100	250	250	32	H16X80X1000	-	
	300	250	7	H16X100X300	-	
	400	250	10	H16X100X400	-	
	500	250	12	H16X100X500	-	
	600	250	15	H16X100X600	-	
	800	250	19	H16X100X800	-	
130	1000	250	24	H16X100X1000	-	
	1200	250	29	-	H16X100X1200	
	400	250	7	-	H16X130X400	
	500	250	9	H16X130X500	-	
	600	250	11	H16X130X600	-	
	800	250	14	H16X130X800	-	
160	1000	250	18	H16X130X1000	-	
	1200	250	21	H16X130X1200	-	
	400	250	6	-	H16X160X400	
	500	250	7	-	H16X160X500	
	600	250	8	H16X160X600	-	

Diam. Ø(mm)	Length L(mm)	Watt. P (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stocked	Non stocked
16	160	800	250	11	H16X160X800	-
		800	1000	11	H16X160X800B	-
		900	250	13	H16X160X900	-
		1000	1000	14	H16X160X1000	-
		1000	1500	14	H16X160X1000D	-
		1250	250	18	H16X160X1250	-
	180	1600	250	22	H16X160X1600	-
		850	250	10	-	H16X180X850
		1000	250	12	-	H16X180X1000
	200	1250	250	15	-	H16X180X1250
		500	250	6	H16X200X500	-
		800	250	9	H16X200X800	-
	250	1000	250	11	H16X200X1000	-
		1000	1500	11	H16X200X1000D	-
		1250	250	14	H16X200X1250	-
		1500	250	16	H16X200X1500	-
		2000	250	22	H16X200X2000	-
		500	250	4	-	H16X250X500
300	800	250	7	H16X250X800	-	
	1000	250	9	H16X250X1000	-	
	1300	250	11	H16X250X1300	-	
	1600	250	14	H16X250X1600	-	
	1600	500	14	H16X250X1600A	-	
	2000	250	17	H16X250X2000	-	
19.05 (3/4")	76.2 (3")	300	250	9	-	H3/4X3X300
		400	250	13	-	H3/4X3X400
		500	250	16	-	H3/4X3X500
	101.6 (4")	350	250	7	-	H3/4X4X350
		450	250	10	-	H3/4X4X450
		600	250	13	-	H3/4X4X600
		1000	250	21	-	H3/4X4X1000
	127 (5")	400	250	6	-	H3/4X5X400
		500	250	8	-	H3/4X5X500
		1000	250	16	-	H3/4X5X1000
	152.4 (6")	1500	250	24	-	H3/4X5X1500
		350	250	5	-	H3/4X6X350
500		250	6	-	H3/4X6X500	
203.2 (8")	1000	250	13	-	H3/4X6X1000	
	1500	250	19	-	H3/4X6X1500	
	500	250	5	H3/4X8X500	-	
254 (10")	600	250	6	-	H3/4X8X600	
	1000	250	9	-	H3/4X8X1000	
	2000	250	19	-	H3/4X8X2000	
	800	250	6	-	H3/4X10X800	
304.8 (12")	1000	250	7	H3/4X10X1000	-	
	2000	250	15	-	H3/4X10X2000	
	800	250	5	-	H3/4X12X800	
	1000	250	6	-	H3/4X12X1000	
	1500	250	9	-	H3/4X12X1500	
304.8 (12")	2000	250	12	H3/4X12X2000	-	
	2500	250	15	-	H3/4X12X2500	

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# STANDARD CARTRIDGE HEATERS

Diam. Ø(mm)	Length L(mm)	Watt. (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stockées	Non stockées
20	60	200	250	8	-	H20X60X200
		300	250	12	-	H20X60X300
		500	250	21	-	H20X60X500
		600	250	25	-	H20X60X600
		800	250	33	-	H20X60X800
	80	300	250	8	-	H20X80X300
		400	250	11	-	H20X80X400
		500	250	14	-	H20X80X500
		600	250	16	-	H20X80X600
		800	250	22	-	H20X80X800
		1000	250	27	-	H20X80X1000
	100	1250	250	34	-	H20X80X1250
		350	250	7	H20X100X350	-
		450	250	9	-	H20X100X450
		600	250	12	H20X100X600	-
800		250	16	H20X100X800	-	
1000		250	20	-	H20X100X1000	
1400		250	28	-	H20X100X1400	
130	1600	250	33	-	H20X100X1600	
	400	250	6	-	H20X130X400	
	500	250	7	H20X130X500	-	
	600	250	96	-	H20X130X600	
	800	250	12	-	H20X130X800	
	1000	250	15	H20X130X1000	-	
1500	250	22	H20X130X1500	-		

Diam. Ø(mm)	Length L(mm)	Watt. (W)	Leads (mm)	W.dens. (W/cm <sup>2</sup> )	Stockées	Non stockées	
20	130	2000	250	29	H20X130X2000	-	
		160	500	250	6	H20X160X500	-
			800	250	9	H20X160X800	-
			1000	250	12	-	H20X160X1000
			1500	250	17	-	H20X160X1500
	2000		250	23	-	H20X160X2000	
	200	800	250	7	H20X200X800	-	
		1000	250	9	H20X200X1000	-	
		1500	250	13	H20X200X1500	-	
		1800	250	16	-	H20X200X1800	
		2000	250	18	H20X200X2000	-	
		2500	250	22	-	H20X200X2500	
	250	800	250	6	-	H20X250X800	
		1000	250	7	H20X250X1000	-	
		1500	250	11	-	H20X250X1500	
2000		250	14	H20X250X2000	-		
2500		250	17	-	H20X250X2500		
300	1000	250	6	H20X300X1000	-		
	1500	250	9	H20X300X1500	-		
	2000	250	11	H20X300X2000	-		
	2500	250	14	-	H20X300X2500		
25.4 (1")	76.2 (3")	600	250	15	-	H1X3X600	

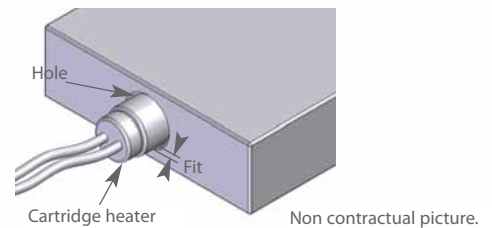
- All these cartridge heaters can be fitted with specific accessories and connection types (see p 9 et p12).
- In addition to standard cartridge heaters, see our special product range (p16)

## ASSEMBLY RECOMMENDATIONS FOR CARTRIDGE HEATERS

### BORING AND FIT OF STANDARD CARTRIDGE HEATERS

In order to facilitate the heat transfer between the cartridge heater and the mass to be heated, a bore with an H7 tolerance is recommended.

Nominal boring diameter in mm	H7 Bore	
	Mini value (mm)	Maxi value (mm)
6.35 (1/4") - 6.5 - 8 - 9.52 (3/8") - 10	- 0	+0.015
12.5 - 12.7 (1/2") - 15.87 (5/8") - 16	- 0	+0.018
19.05 (3/4") - 20	- 0	+0.021



Standard cartridge heaters require a H7 bore fit. However, when needed for applications with high watt density or high temperature requirements, fitting tolerances can be tighter.

### ASSEMBLY RECOMMENDATIONS

In order to improve heat transfer, some basic cares should be taken. For further details, see our technical assembly section.

- Cartridge heaters should never operate in the open air.



- To protect the heater from damage, we recommend using thermal transfer paste like GRIPACIM. It will improve heat transfer between the heater and the object to be heated.

**Caution ! Do not apply paste over connection wires.**

- It is highly recommended to protect connections from excessive bending and to keep lead wires away from moisture, and from any possible matter spillover ...
- Cartridge heaters are manufactured to be part of an assembly. As standard, they are not fitted with an earth wire ; it is up to the user to make sure that the systems is in accordance with the local safety standards.