

# Cartridge Heaters

High Temperature, Configurable L & W

**Cartridge Heaters – High Temperature / Configurable L & W**

RoHS 10

**MCHLH No Flange**

**MCHLHB Flange Shape B**  
**MCHLHC Flange Shape C**

**Terminal Selection**

- N (No Crimp Terminal)
- M (With Round Crimp Terminal)
- Y (With Y-Shaped Crimp Terminal)

**Material:**  
Heater: Incoloy  
Flange: 304 Stainless Steel  
Lead Wire: Glass Fiber Coating  
Lead Wire Heat Resistance Temperature: 180°C  
Maximum Operating Temperature: 900°C

**Shape B**

**Shape C**

\* When inserting MCHLH into the hot plate, ensure that the 41.5 part does not enter a hole.

Part Number Type	D	L 1mm Increment	V (Voltage) Selection				W (Electrical Power) 10 W Increment	F (Lead Wire Length) 10 mm Increment	Terminal Selection	Electrical Power Density (W/cm <sup>2</sup> )
MCHLH MCHLHB MCHLHC	8	50-200	100	110	200	220	50-500	300-1000	N M Y	$2 \leq W/cm^2 \leq 10$ $W/cm^2 = W / (D \pi (L - 15.5) / 100)$ Calculate with the electrical power density of heat-generating part, not with the full length.
	10		100	110	200	220				
	12	50-300	100	110	200	220	50-900			

- Ⓛ MCHLH is not available between L201-L300 for D8 and D10.
- Ⓛ MCHLHB and MCHLHC are not available between L201-L300 for D8 and D10.
- Ⓛ Please refer to "Precautions for Use" in the Cartridge Heaters Overview on P.3704.

**Part Number Example**

Part Number - L - V - W - F - Terminal  
**MCHLHB8 - 150 - V200 - W250 - F500 - M**

**Type of Terminal**

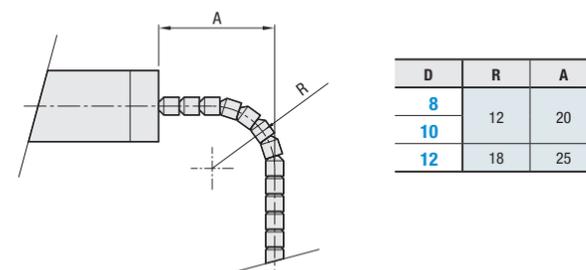
Symbols	Type of Terminal	Nominal Size of Screw
N	No Crimp Terminal	—
M	Crimp Terminal – Round Type	M4
Y	Crimp Terminal – Y-Shaped	M4

**Flanged Type Dimension**

D	Shape C D <sub>1</sub>
8	14
10	16
12	18

**Precautions for Use**

- Do not let heater run exposed in the atmosphere. Operating the heater with the heat-generating part out of heated products may cause the wire to break or ignite due to abnormal heating.
- Keep the temperature around the lead wire exit at 250°C or less.
- Because the ceramic beads are very fragile, be sure to not exceed maximum bending radius R (see details on right). Do not apply strong impacts.



**Features**

- High temperature resistant heater with max. operating temperature of 900°C.
- Maintains high insulation even at high-temperature from 700-900°C, and presents long-life.

# Cartridge Heaters

Selectable Output

**Cartridge Heaters – Lead Wire Protection / Internal Connection**

RoHS 10

**MCH**

(1) (2) Heat resistance: 180°C or lower  
**Material:** SUS304(S30400)(1.4301)

\*L dimension and allowable curving  
 When L<300 0.02 or less  
 When L≥300 0.05 or less

**Dimensional Table**

Type	Part Number	D	L	V (Voltage)	W (Wattage)	W/cm <sup>2</sup> (Watt Density)
				200		
MCH	8	100	100	200	130	5.8
					200	7.1
					300	8.0
					400	9.1
					400	7.5
					450	7.5
	10	100	100		480	5.3
					400	11.2
					550	11.6
					700	12.6
					800	11.9
					900	11.6
	12.6	100	100		950	10.5
					1200	10.5
					400	5.7
					550	6.4
					650	6.8
					750	6.2
	16	100	100		1000	6.9

**Part Number Example**

Part Number - L  
**MCH 12.6 - 250**

