

Mica Band Heaters ZHB 22

Technical Data

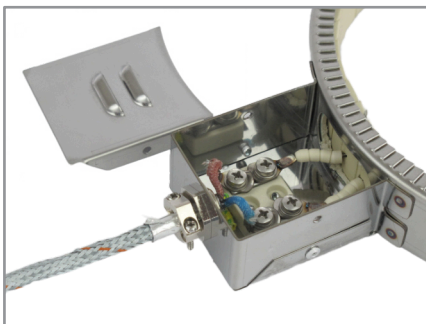


Technical Data

Type ZHB 22	
Inside diameter	$\geq \varnothing 35 \text{ mm}$
Width	$\geq 21 - 800 \text{ mm}$
Material	Steel / stainless steel
Wall thickness	$\approx 3.5 \text{ mm}$
Clamping gap	6 mm
Clamping	Clamping brackets with screws and square nut
Voltage	up to 440 V single-phase, two-phase, three-phase, star or delta connection
Power rating	As required, up to the maximum permissible watt density
Watt density	up to 5 W/cm^2
Power tolerance	+/- 10%
Dielectric strength	1000 V AC
Insulation resistance	Cold condition: $\geq 1 \text{ M}\Omega$ at 500 V
IP rating	IP 40
Temperature	up to 350°C
Connection cable	Nickel wire with glass fibre insulation, steel-braided sheath

Electrical Connections

Cable connection via terminals



In this version, the cable is connected via terminals. This connection design is available with or without a cable.

The cable outlet can be axial, radial or tangential, as required.

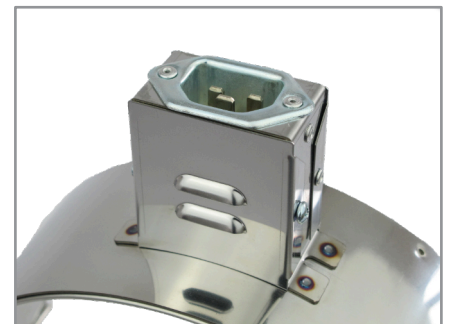
Fixed connection



In this version, the cable is connected via terminals. This connection design is available with or without a cable.

The cable outlet can be axial, radial or tangential, as required.

Plug connection



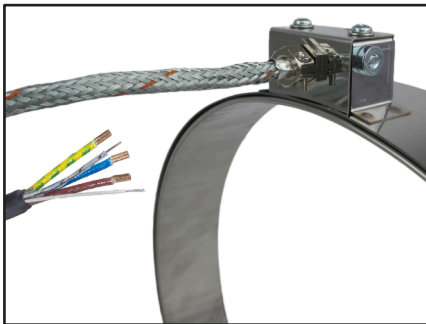
The connection is made using a practical plug contact integrated into the connection fitting. On request, we can supply matching plugs or pre-assembled connection cables for your specific application.

For extra protection against accidental disconnection, an optional locking clip is available.

The cable outlet can also be arranged axially, radially or tangentially to suit your requirements.

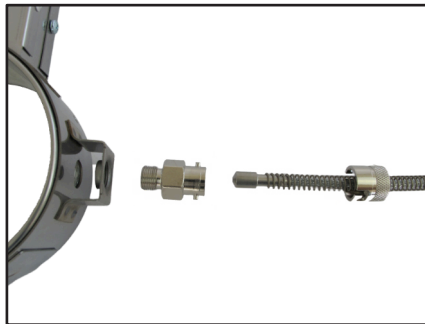
Temperature Measurement

With integrated temperature sensor



A temperature sensor is positioned beneath the connection cover to measure the temperature inside the heating element. Special designs are available.

With bore and threaded fitting for an external temperature sensor



To measure the surface temperature of the object being heated using an external temperature sensor, the heating element has a bore and a bracket with a threaded hole. A nipple can be screwed into this hole to secure the external bayonet sensor.

Versions:

- Thermocouple Fe-CuNi Type J, Ni-CrNi Type K
- PT 100 resistance sensor
- Grounded or ungrounded
- Threads: M12, M12x1, M14x1.5, R3/8"

Options

With heat protection jacket



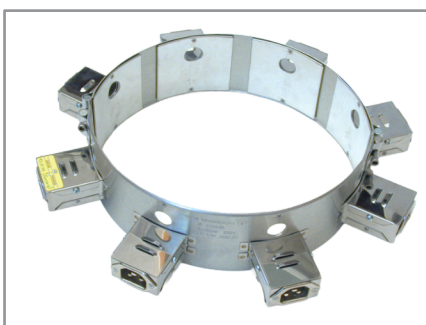
Heating/cooling combination



With thermal insulation "Saves energy costs"



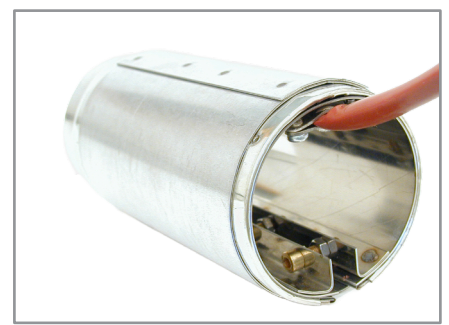
Multi-part design



Segments



With internal clamping



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