IDR
IBDR
IDR-IBDR-CON

D100
0AT0
011A

Drum and base drum heaters

These types of Isopad drum and base drum heaters are used to provide medium flow and process temperature in ordinary environments. The special design including a high powered resistance heating cable embedded in a solid metal housing ensures the maximum on power output at operating conditions. These heating units can be used for higher temperatures and faster heat up times. These heaters are designed for standard drum sizes of 200L.

Drum Heater

The drum heater is made out of a two-pieced metal housing to be opened and closed via hinges and fasteners standing on special castors. The solid design ensures stable operation even on unlevel surfaces. The metal housing carries the heating cable and evenly distributes the temperature to the drum. A mechanical thermostat regulates the operating temperature. Each drum heater includes a lid. To reduce heat loss at top it is recommended to use our insulated lid.

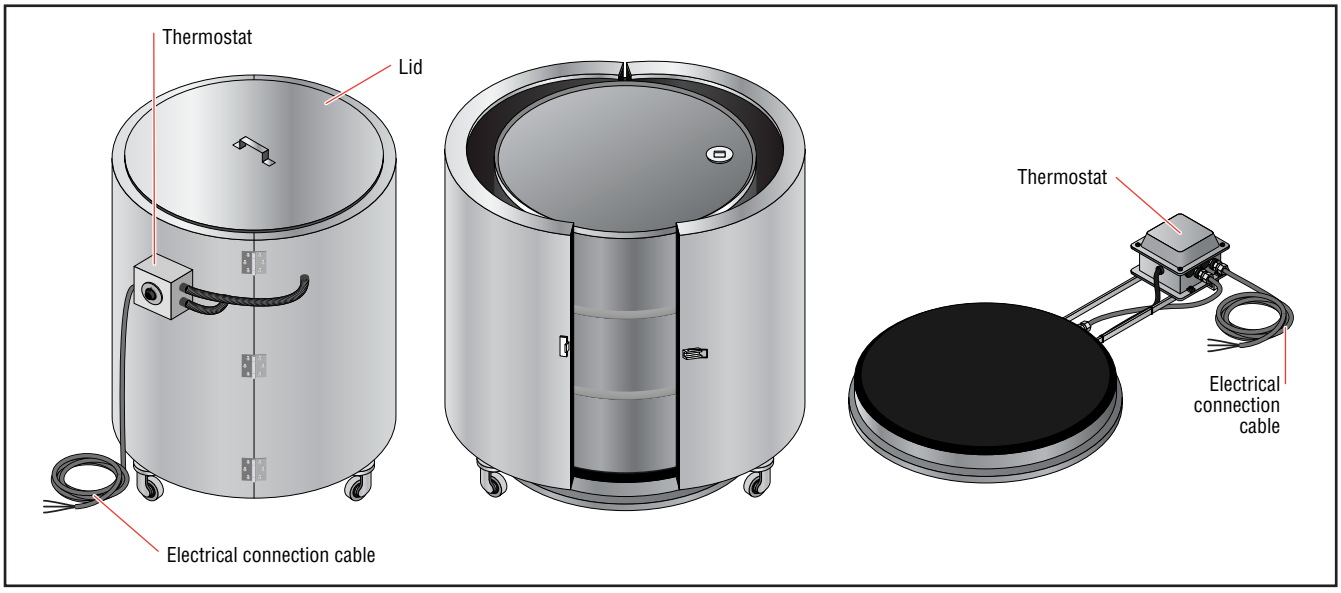
Base Drum Heater

The base drum heater is a perfect addition to the the drum heater to prevent heat loss from below. A metal housing carries the heating cable and evenly distributes the temperature to the drum. An aluminum casted mechanical thermostat regulates the operating temperature by achieving a maximum on safety during operation.

Drum and Base Drum Heater Unit

A combination of a drum and base drum heater was created to just use a single control mechanism. The Base drum heater can be connected to the drum heater and is thereby controlled by one thermostat. This unit was designed for drum sizes of 200L.

For hazardous area drum heater systems see our FIDR-SR/FIBDR-SR datasheet.



	IDR drum heater	IDBR base drum heater
Area Specifications		
Area classification	Nonhazardous, ordinary area	Nonhazardous, ordinary area
Ingress protection	IP52	IP52
Electrical protection class	Class I	Class I
Ambient temperature range	–20 to +40°C	–20 to +40°C
Standard Manufacturing Sizes		
Height	980 mm including castors	75 mm heating surface
Inner diameter	650 mm	–
Outer diameter	770 mm	570 mm
Other dimensions on request		

Heater Construction		
Type	Resistance heating cable	Resistance heating cable
Material	Various alloys	Various alloys
Material of heater insulation	Glass-silk	Glass-silk
Carrier	Woven glass-silk	Woven glass-silk
Material of thermal insulation	Glass-fibre	Mineral-fibre
Thickness	50 mm	50 mm
Outer protection type	Sheet steel	Sheet steel
Paint	Matt black heat resistant and hammer trimite silver-grey	Matt black heat resistant and hammer trimite silver-grey
Fixation and closure type	Quick-snap fastener	–

Lead Connection		
Connection length	2 m	3 m
Cross section	2.5 mm²	2.5 mm²
Maximum operating temperature	80°C	80°C
Insulation material	PVC	Armoured PVC

Temperature Control		
Thermostat type	TS-C	TSW
Sensor type	Capillary tube	Capillary tube
Controller range	50 to 300°C	50 to 300°C
Ingress protection	IP52	IP65
Maximum ambient temperature	–25 to +40°C	–20 to +80°C
Housing dimension (LxWxH)	110 x 110 x 90 mm	170 x 150 x 100 mm
Housing material	Thermoplast PS	Aluminium cast

Technical Data		
Frequency	50-60 Hz	50-60 Hz
Nominal operating voltage	230 / 400 Vac (~1ph / ~3ph)	230 Vac (~1ph)
Nominal power	4000 W	900 W
Maximum operating temperature	300°C	300°C

Options

Alternative controller setting range 0°C to +43°C or +30°C to +110°C
Additional insulation-lid for reduction of heat loss (see order information accessories)

Ordering Information

Part number	Description	For standard sizes (Ltr)	Height[1] (mm)	Inner diameter[1] (ID) (mm)	Outer diameter[1] (OD) (mm)	Nominal power[2] (W)	Nominal voltage (Vac)	Weight (kg)
151746-000	Drum heater	200	990	650	770	4000	230 ~1ph	46
150560-000	Drum heater	200	990	650	770	4000	400 ~3ph	46
514096-000	Base drum heater	200	–	–	–	900	230 ~1ph	20
931092-000	Drum and base drum heater combination	200	–	–	–	4900	230 ~1ph	60
1235-99900673	Drum and base drum heater combination	200	–	–	–	4900	400 ~3ph	60
463570-000	Insulated lid	200	85	790	798	–	–	20

(1) Tolerances according to DIN ISO 2768 c
(2) Tolerances ±10%



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Management System
ISO 9001:2015
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Our products satisfy the requirements of the relevant European Directives.

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