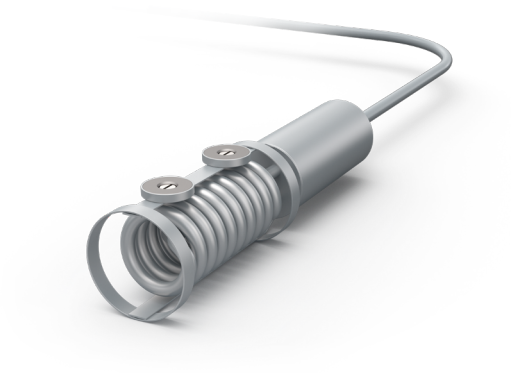
Tank heater

Model tank heater for hydraulic fluid

APPLICATION

- temperature control of hydraulic oil up to 50 °C to prevent malfunctions caused by cooling of the hydraulic systems of machine tools, presses, hydraulic lifts, etc.



DESIGN

- 1 coiled tubular heating element made of steel
- temperature controller, adjustable from 15 to 50 °C (factory-made)
- 3-wire plastic cable, 2.5 m long, with an attached cable gland
- with or without magnetic clamps
- up to 390 mm length with 2 magnetic clamps, 600 mm length with 3 magnetic clamps

ELECTRICAL CONNECTION

- 230 V single-phase current
- single-pole thermostat switches directly, for example: thermostat turns off at approx. 20 °C and turns on at approx. 17 °C
- please specify the turn-off temperature that you require

TECHNICAL DATA

LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM²)	ARTICLE NO. (WITHOUT MAGNETS)	ARTICLE NO. (WITH MAGNETS)
			for HLP	
250	250	1.2	04013011	4013041
290	500	1.2	04013021	04013051
390	1 000	1.2	04013031	04013061
600	2 000	1.2	04013301	04013311
			for HFC / HFD-R	
290	250	0.6	04013111	04013141
390	500	0.6	04013121	04013151
600	1 000	0.6	04013321	04013331
			for HFA	
290	250	0.6	04013211	04013241
390	500	0.6	04013221	04013251
600	1 000	0.6	04013341	04013351

HYDRAULIC FLUID		SPECIFIC SURFACE LOAD
Hydraulic oil	HLP	1.2 W/cm²
Oil-in-water-emulsion	HFA	0.6 W/cm²
Water-glycol fluid*	HFC	0.6 W/cm²
Phosphoric acid ester*	HFD-R	0.6 W/cm²

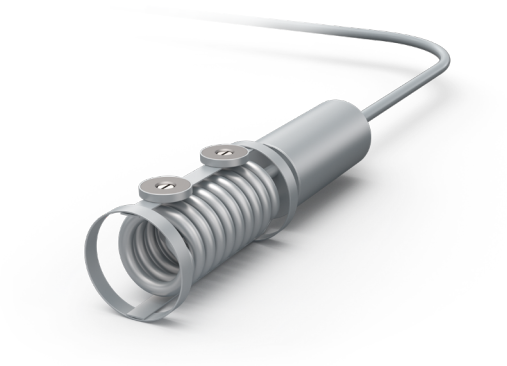
*with special cable

Tank heater

Model tank heater for hydraulic fluid

INSTALLATION

- place the heater in a horizontal position at the ground or set it up vertically
- the cable is led outside through the side wall or the cover and attached with the cable gland
- In steel tanks the heater can be held up by magnetic clamps. In addition, the magnetic clamps will pull the unavoidable fine metallic parts from the oil and thus protect the aggregates from wear

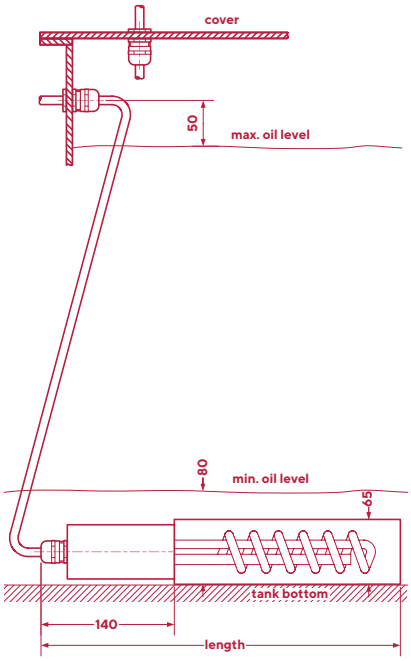


POWER DESIGN*

For example: At an ambient temperature of 0 °C it will be possible to hold approx. X liters at a temperature of Y °C with a power of Z

POWER (APPROX. WATT)	10 °C TANK CAPACITY (APPROX. LITER)	20 °C TANK CAPACITY (APPROX. LITER)	30 °C TANK CAPACITY (APPROX. LITER)	40 °C TANK CAPACITY (APPROX. LITER)
250	250	125	85	60
500	500	250	165	125
1 000	1 000	500	330	250
2 000	2 000	1 000	660	500

*non-binding calculation



ALTERNATIVE DESIGN

- other cable lengths
- other specific surface load
- other voltage or power
- other materials
- three-phase connection
- stronger magnetic clamps