INDUSTRIAL HEATING EQUIPMENT DATASHEET

Electric Thermal Oil Heater

Electric thermal-oil circulation heater for reactors, rollers, molds and process machines requiring indirect liquid-phase heat transfer.

Reference range	Heating medium	Customization
5-1000 kW source-sheet reference	Thermal oil; 0-300 C reference	Voltage, power, pump, pipe size, controls and layout

Reference-data notice: The model table is a configuration reference, not a final selection. Confirm thermal-oil properties, heat load, voltage, pipe losses, pump duty, expansion volume and applicable safety requirements before ordering.

Applications and configuration

Typical applications
- Reaction kettles
- Rollers and calenders
- Food and chemical process heating
- Oil and grease processing
- Synthetic-fiber production
- Plastic, rubber and wood processing

Configurable items
- Heating power and voltage
- Oil-pump flow and head
- Expansion tank volume
- Inlet and outlet connection
- Temperature sensors and control cabinet
- Alarm and interlock scope

Engineering notes

- Electric heating elements heat the thermal oil directly; the pump circulates oil through the heat user and back to the heater.
- Power selection should account for process heat, equipment warm-up, material heat capacity, heat loss and the required heating time.
- Pump flow and head must be checked against thermal-oil viscosity, pipe diameter, total line length, valves, elevation and equipment pressure drop.
- Actual temperature stability depends on sensor placement, circulation, load variation, controller tuning and site conditions.

YY series reference model table

Source-sheet dimensions and pump data. Final design is selected from the complete process condition and approved drawing.

Model	Power	Barrel	Expansion tank	Connection	Pump head	Pump flow	Motor	Temperature
YY-5	5 kW	80 x 700 mm	400 x 400 mm	DN20	22 m	1.5 m3/h	0.75 kW	0-300 C
YY-10	10 kW	80 x 700 mm	400 x 400 mm	DN20	22 m	1.5 m3/h	0.75 kW	0-300 C
YY-15	15 kW	150 x 800 mm	400 x 400 mm	DN25	28 m	3 m3/h	1.5 kW	0-300 C
YY-20	20 kW	150 x 800 mm	400 x 400 mm	DN25	28 m	3 m3/h	1.5 kW	0-300 C
YY-25	25 kW	150 x 800 mm	400 x 400 mm	DN32	28 m	6 m3/h	1.5 kW	0-300 C
YY-30	30 kW	150 x 800 mm	400 x 400 mm	DN32	28 m	6 m3/h	1.5 kW	0-300 C
YY-40	40 kW	150 x 800 mm	500 x 600 mm	DN40	28 m	10 m3/h	2.2 kW	0-300 C
YY-50	50 kW	150 x 800 x 2	500 x 600 mm	DN40	28 m	10 m3/h	2.2 kW	0-300 C
YY-60	60 kW	150 x 800 x 2	500 x 600 mm	DN50	30 m	12.5 m3/h	3 kW	0-300 C
YY-70	70 kW	150 x 800 x 2	500 x 600 mm	DN50	30 m	12.5 m3/h	3 kW	0-300 C
YY-80	80 kW	150 x 800 x 2	500 x 600 mm	DN50	30 m	12.5 m3/h	3 kW	0-300 C
YY-90	90 kW	150 x 800 x 3	500 x 600 mm	DN50	40 m	18 m3/h	5.5 kW	0-300 C
YY-100	100 kW	150 x 800 x 3	500 x 600 mm	DN50	40 m	18 m3/h	5.5 kW	0-300 C
YY-120	120 kW	150 x 800 x 3	500 x 600 mm	DN65	48 m	30 m3/h	7.5 kW	0-300 C
YY-135	135 kW	150 x 800 x 4	500 x 600 mm	DN65	48 m	30 m3/h	7.5 kW	0-300 C
YY-150	150 kW	150 x 800 x 4	700 x 800 mm	DN65	48 m	30 m3/h	7.5 kW	0-300 C
YY-180	180 kW	200 x 1200 x 3	700 x 800 mm	DN65	40 m	45 m3/h	11 kW	0-300 C
YY-240	240 kW	200 x 1200 x 4	700 x 800 mm	DN65	40 m	45 m3/h	11 kW	0-300 C
YY-280	280 kW	250 x 1600 x 3	700 x 800 mm	DN65	40 m	45 m3/h	11 kW	0-300 C
YY-300	300 kW	250 x 1600 x 3	800 x 1000 mm	DN80	50 m	50 m3/h	15 kW	0-300 C
YY-360	360 kW	250 x 1600 x 3	800 x 1000 mm	DN80	50 m	50 m3/h	15 kW	0-300 C
YY-400	400 kW	250 x 1600 x 4	800 x 1000 mm	DN100	54 m	60 m3/h	22 kW	0-300 C
YY-450	450 kW	250 x 1600 x 4	1000 x 1200 mm	DN100	54 m	60 m3/h	22 kW	0-300 C
YY-480	480 kW	250 x 1600 x 4	1000 x 1200 mm	DN100	54 m	60 m3/h	22 kW	0-300 C
YY-600	600 kW	300 x 1800 x 3	1000 x 1200 mm	DN150	65 m	90 m3/h	30 kW	0-300 C
YY-1000	1000 kW	300 x 1800 x 4	1000 x 1200 mm	DN150	72 m	95 m3/h	37 kW	0-300 C

Selection, evidence and order confirmation

Data needed for engineering selection

1. Voltage, frequency and available electrical capacity
2. Target power, temperature and heating time
3. Thermal-oil type, volume and operating limit
4. Reactor, roller, mold or machine dimensions
5. Pipe diameter, length, elevation and pressure drop
6. Control, alarm, drawing and destination-market requirements

Commercial confirmation

MOQ, lead time, warranty, commissioning, spare parts, certification, inspection documents and destination-market compliance are order-specific. Confirm them in the written quotation or contract for the selected model.

How to use this datasheet

This document helps buyers prepare a technical inquiry and compare a reference equipment range. It is not a type-test report, certificate, final design drawing or universal performance guarantee. The selected model, duty, material, controls, utility conditions and applicable documents must be reconciled with the written quotation and approved drawings before production.

Recommended evidence to request

- Model-specific quotation and technical specification.
- Approved equipment and connection drawings.
- Material, component-brand and control-list confirmation where relevant.
- Factory inspection or test records agreed for the order.
- Certificates or compliance documents applicable to the selected model and destination market.

Reference-data notice: Canonical product page: https://www.yigao-heater.com/products/electric-heater/
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Send drawings and operating conditions for an engineering review.