

INDUSTRIAL HEATING EQUIPMENT DATASHEET

Gas-Fired Mold Temperature Controller

Thermal-oil circulation equipment for large molds, hot presses, reactors and other industrial heat users where gas or diesel fuel is selected for the project.



Reference range	Heating medium	Customization
100,000–600,000 kcal/h; 120–720 kW model range	320 / 350 thermal oil technical reference	Fuel, load, pump, connections, controls and layout

Technical note: Model data supports initial selection. Fuel consumption, temperature and capacity depend on fuel, load, exhaust, heat recovery, thermal-oil circuit and operating conditions.

Applications and configuration

Typical applications - Reaction kettles - Foaming machines - Woodworking hot presses - Drying kilns - Plastic and rubber processing - Textile printing and dyeing	Configurable items - Natural gas, LNG or diesel option - Heat-load class - Oil-pump flow and head - Connection size and pipeline distance - PLC and safety interlocks - Exhaust and installation layout
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Engineering notes

- A burner heats the thermal-oil circuit; a circulation pump transfers heat to the mold, press, reactor or process machine.
- Gas or diesel selection should consider local utility availability, fuel pressure, tariff, emissions requirements and installation constraints.
- The waste-heat recovery structure preheats burner intake air. Project-specific savings depend on the load, exhaust condition and operating schedule.
- Final safety scope, purge logic, gas-train components, explosion-protection requirements and exhaust treatment must be defined for the site.

Reference model table

Diesel consumption is quoted separately by selected duty and fuel. Final parameters depend on the approved configuration and operating conditions.

Item	Unit	100,000 kcal	200,000 kcal	300,000 kcal	400,000 kcal	600,000 kcal
Rated power	kW	120	240	360	480	720
Gas pressure	kPa	5–7	5–7	5–7	5–7	5–7
Maximum temperature	°C	300	300	300	300	300
Fuel	-	Piped natural gas / LNG / diesel	Piped natural gas / LNG / diesel	Piped natural gas / LNG / diesel	Piped natural gas / LNG / diesel	Piped natural gas / LNG / diesel
Heating medium	-	320/350 thermal oil	320/350 thermal oil	320/350 thermal oil	320/350 thermal oil	320/350 thermal oil
Oil storage	kg	110	200	300	350	500
Pump power	kW	4	5.5	11	15	15
Pump flow	m³/h	20	25	45	45	60
Pump head	m	32	35	40	40	46
Inlet diameter	mm	50	50	65	80	80
Gas consumption	m³/h	12	24	36	48	72
Overall L x W x H	mm	2000 x 900 x 2000	2400 x 1070 x 2400	2900 x 1300 x 2850	3200 x 1450 x 2900	3400 x 1450 x 2900
Equipment weight	t	1.5	2	3.3	3.8	5

Selection and order information

Data needed for engineering selection

1. Target operating temperature and required heating time
2. Heat load or process-equipment dimensions
3. Preferred fuel and available fuel pressure
4. Thermal-oil type and total circuit volume
5. Pipeline distance, connection sizes and elevation
6. Site layout, exhaust route, voltage and destination country

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 project documents

- 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.

Technical note: Canonical product page: <https://www.yigao-heater.com/products/gas-mold-warming-machine/>
Contact: sales@yigao-heater.com | +86 18105104455 | Yancheng, Jiangsu, China
Send drawings and operating conditions for an engineering review.