RECIRCULATING HEATER

RH-ETL

Recirculating Heater 200°C, 5L to 50L, ETL Certified

The RH Series is a compact, air-cooled heating circulator that heats bath fluids electrically for reactors and process equipment, from room temperature up to 200 °C. Touch screen PID control holds ±1 °C precision (ambient-dependent), and a DC brushless pump drives jackets and coils at 20 to 68 L/min.

- **ETL certified.** Certified to UL and CSA standards.
- **Precise PID control.** Touch screen PID controller with ±1 °C precision (ambient-dependent).
- **Strong circulation.** DC brushless pump delivers 20 to 68 L/min with 8-12 m lift.
- **Air-cooled design.** No facility water loop required.
- **Stainless open bath.** 304 stainless steel inner tank with open bath access.

MODEL RH-ETL



200 °C	2 to 8 kW	20 to 68 L/min	10 to 48 L	8 to 12 m
MAX TEMPERATURE FROM RT	HEATING POWER	PUMP FLOW	TANK CAPACITY	PUMP LIFT

Technical Specifications

Model **RH-ETL**

TEMPERATURE CONTROL

Temperature range	RT-200 °C
Precision	±1 °C (ambient-dependent)
Control	PID Controller
Controller	Touch Screen PID
Maximum use	200°C; do not use above or the probe will break

OPERATION

Controls	Touchscreen on front; pump speed control on rear
Flow setting	Knob Setting
Cooling	Air-cooled; no facility water loop required
Bath type	Open bath
Ambient temperature	5-35 °C / 41-95 °F
Certification	ETL Certified to UL & CSA Standards

CIRCULATION

Pump	DC Brushless, 60 W to 180 W
Flow	20 to 68 L/min
Lift	8-12 m
Inlet and outlet	1/2" NPT to 3/4" NPT
Recommended fluid	Caldera 7 Silicone Oil

ELECTRICAL

Power	220 V, 60 Hz, Single Phase
Input range	219-253 V; not compatible with 208V
Current	10.0 A to 34.6 A
Heating power	2 kW to 8 kW
Plug	NEMA 6-20P, NEMA L6-30P, or Hardwire

BATH AND DIMENSIONS

Tank capacity	10 L / 2.64 gal to 48 L / 12.68 gal
Tank size (L×W×H)	8.6" × 7.1" × 10.7" to 17" × 13" × 13.5"
Inner tank	304 Stainless Steel
Exterior size	15.2" x 12.5" x 19.5" to 23" x 19" x 23.5"
Weight	18kgs / 40lbs to 36kgs / 80lbs

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	ELECTRICAL
RH5L-ETL	Recirculating Heater 200°C - 5L - ETL Certified RT-200 °C, 10 L tank, 2 kW	220 V, 60 Hz, Single Phase NEMA 6-20P
RH20L-ETL	Recirculating Heater 200°C - 20L - ETL Certified RT-200 °C, 20 L tank, 3 kW	220 V, 60 Hz, Single Phase NEMA 6-20P
RH30L-ETL	Recirculating Heater 200°C - 30L - ETL Certified RT-200 °C, 34 L tank, 5 kW	220 V, 60 Hz, Single Phase NEMA L6-30P
RH50L-ETL	Recirculating Heater 200°C - 50L - ETL Certified RT-200 °C, 48 L tank, 8 kW	220 V, 60 Hz, Single Phase Hardwire
U-RH30L-ETL	Recirculating Heater 200°C - 30L - ETL Certified Used, Like new, 90 day warranty	
U-RH50L-ETL	Recirculating Heater 200°C - 50L - ETL Certified Used, Like new, 90 day warranty	

IDEAL APPLICATIONS

JR / JRE series reactors · Reactor jackets and coils · Pharmaceutical · Chemical processing · Petrochemical · Pilot and scale-up labs

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Specifications by Size

Model **RH-ETL**

Specification	5 L RH5L-ETL	20 L RH20L-ETL	30 L RH30L-ETL	50 L RH50L-ETL
Heating power	2 kW	3 kW	5 kW	8 kW
Pump power	60 W	100 W	150 W	180 W
Flow	20 L/min	30 L/min	50 L/min	68 L/min
Inlet and outlet	1/2" NPT	1/2" NPT	1/2" NPT	3/4" NPT
Tank capacity	10 L / 2.64 gal	20 L / 5.28 gal	34 L / 8.98 gal	48 L / 12.68 gal
Tank size (L×W×H)	8.6" × 7.1" × 10.7"	11" × 10.7" × 10.7"	15" × 13" × 10.7"	17" × 13" × 13.5"
Exterior size	15.2" x 12.5" x 19.5"	17.5" x 15.8" x 20.7"	21.25" x 18" x 20.5"	23" x 19" x 23.5"
Weight (manual)	18kgs / 40lbs	25kgs / 55lbs	29kgs / 64lbs	36kgs / 80lbs
Measured size (L x W x H)	14 × 16 × 23 in	18 × 19 × 24 in	20 × 23 × 25 in	21 × 25.5 × 27 in
Measured weight	55 lb	77 lb	93 lb	113 lb
Current	220 V / 10.0 A	220 V / 14.2 A	220 V / 23.9 A	220 V / 34.6 A
Plug	NEMA 6-20P	NEMA 6-20P	NEMA L6-30P	Hardwire
Included hoses	1/2" FNPT Insulated Bellow Hose - 6Ft., 2 pcs	1/2" FNPT Insulated Bellow Hose - 6Ft., 2 pcs	1/2" FNPT Insulated Bellow Hose - 6Ft., 2 pcs	3/4" FNPT Insulated Bellow Hose - 6Ft., 2 pcs

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