



DUALIS

Heating-Cooling Circulators

Precision In Every Degree

Advanced Temperature Control for Unmatched Performance

Features



Advanced Temperature Control

A feedforward controller ensures precise temperature regulation with no overshoot or callback.



High-Lift Design

Designed for efficient long-distance fluid transfer



Reliable Performance

Featuring a Reliable compressor and a magnetic drive pump for reliable and efficient performance



Built-in Safety

Equipped with self-diagnostic capabilities, overload protection, and multiple other safety features for reliable operation



Sealed Oil Circulation System

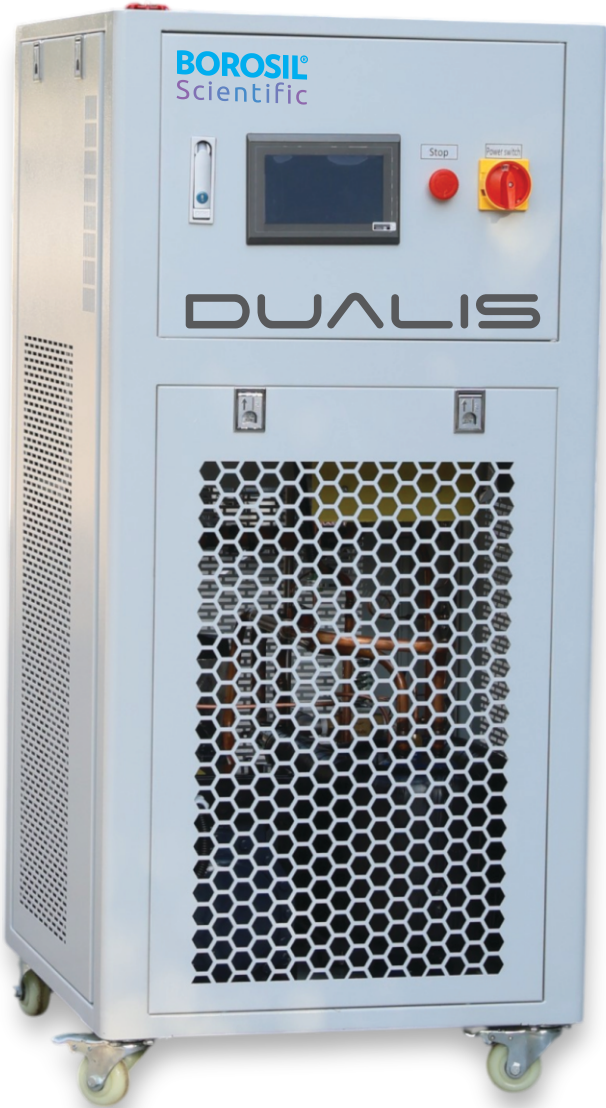
Designed to prevent leaks, enhancing safety and extending fluid lifespan



Programmable Operation

Stores up to 20 programs, each with 45 steps, for precise temperature control across different materials. Preset options enhance accuracy, minimize manual adjustments, and improve stability.

Features



Efficient Heat Exchange

A sealed pipeline with a high-efficiency heat exchanger optimizes heat utilization and enables rapid temperature transitions



User-Friendly Interface

7-inch color touchscreen with USB, RS232, RS485, PT100 input, and fault alarm output.



Real-Time Temperature Monitoring

A high-resolution touchscreen displays temperature curves for oil, target, and reactor materials, with USB storage for convenient data recording



Eco-Friendly Cooling

Utilizes eco-friendly refrigerants, complying with sustainability standards

 **Temperature range : -25 ~+ 200 °C**

High temprature can be extended to 300 °C/ 350°C

Model	Heating (KW)	Temp range (°C)	Accuracy (± °C)	Cooling Capacity (KW)						Pump flow (L / min)	Pressure bar	Approx Dimensions in mm
				200 °C	100 °C	50 °C	20 °C	-5 °C	-20 °C			
HC-10-200-25-A HC-10-200-25-W	3.5	-25 ~+ 200	≤ 0.5	3.5	3.5	3.5	3.5	3	1.8	35	2	490*580*1300
HC-20/30-200-25-A HC-20/30-200-25-W	5.5	-25 ~+ 200	≤ 0.5	5.5	5.5	5.5	5.5	4.5	2.8	50	2	490*580*1300
HC-50-200-25-A HC-50-200-25-W	7.5	-25 ~+ 200	≤ 0.5	7.5	7.5	7.5	7.5	6.6	3.8	75	2	530*650*1400
HC-100-200-25-A HC-100-200-25-W	10	-25 ~+ 200	≤ 0.5	10	10	10	10	8	4.6	110	2.5	650*700*1400

Temperature range : -45 ~+ 250 °C

High temperature can be extended to 300 °C/ 350°C

Model	Heating (KW)	Temp range(°C)	Accuracy (± °C)	Cooling Capacity (KW)						Pump flow (L / min)	Pressure bar	Approx Dimensions in mm
				250 °C	100 °C	20 °C	0 °C	-20 °C	-40 °C			
HC-10-250-45-A HC-10-250-45-W	3.5	-45 ~+ 250	≤ 0.5	3.5	3.5	3.5	3	1.5	0.45	35	2	490*580*1300
HC-20/30-250-45-A HC-20/30-250-45-W	5.5	-45 ~+ 250	≤ 0.5	5.5	5.5	5.5	5	2.9	0.9	50	2	490*580*1300
HC-50-250-45-A HC-50-250-45-W	7.5	-45 ~+ 250	≤ 0.5	7.5	7.5	7.5	7	4.2	1.5	75	2	530*650*1400
HC-100-250-45-A HC-100-250-45-W	10	-45 ~+ 250	≤ 0.5	10	10	10	10	6	2	110	2.5	650*700*1400

Optimized for Growth

Consistent Thermal Control at Every Level



Temperature range : -80 ~+ 250 °C

High temperature can be extended to 300 °C/ 350°C

Model	Heating (KW)	Temp range (°C)	Accuracy (± °C)	Cooling Capacity (KW)						Pump flow (L / min)	Pressure bar	Approx Dimensions in mm
				250 °C	50 °C	0 °C	-40 °C	-60 °C	-75 °C			
HC-10-250-80-W	3.5	-80 ~+ 250	≤ 0.5	3.5	3.5	3.5	2.6	1.4	0.42	35	2	490*580*1300
HC-20/30-250-80-W	5.5	-80 ~+ 250	≤ 0.5	5.5	5.5	5.5	3.3	1.6	0.7	50	2	650*700*1400
HC-50-250-80-W	7.5	-80 ~+ 250	≤ 0.5	7.5	7.5	7.5	5.8	3	1.3	75	2	700*800*1560
HC-100-250-80-W	10	-80 ~+ 250	≤ 0.5	10	10	10	6.4	3.5	1.5	110	2.5	750*1300*1400



Five level security protection

Complies with DIN12876 safety level I, II/II standards

Level 1

— High and low liquid level protection

Level 2

— Adjustable safety temperature protection

Level 3

— Can set high and low temperature limit protection

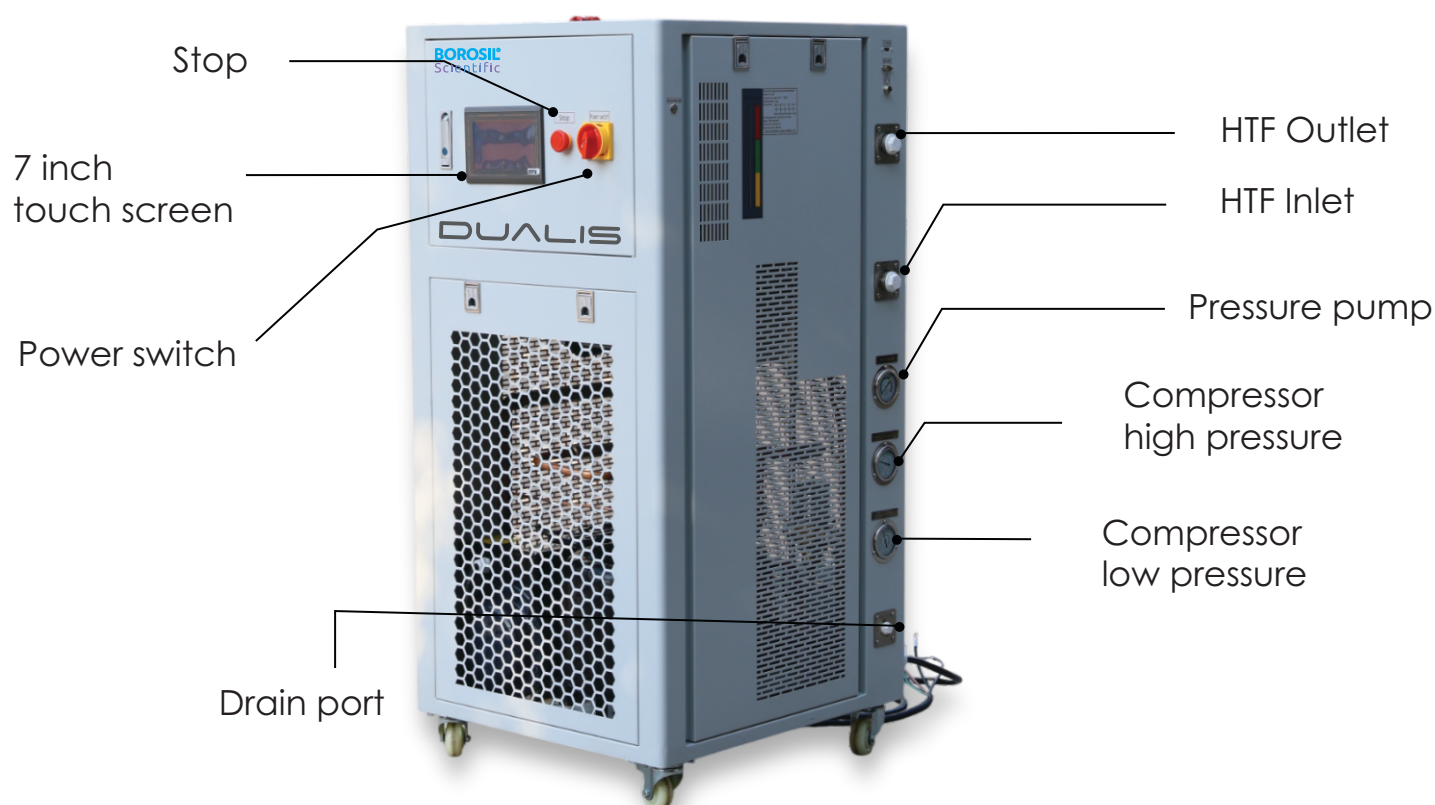
Level 4

— Safety protection for circulating pumps

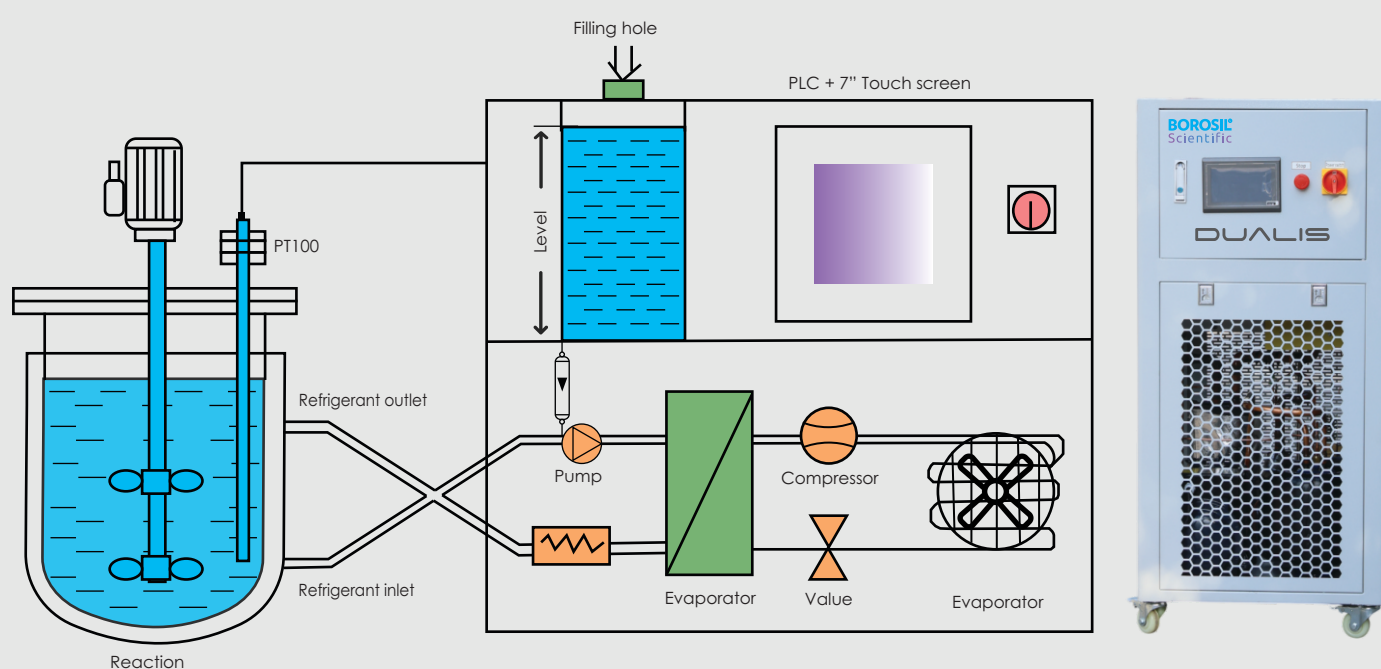
Level 5

— Ensures safe and reliable containment of high and low-temperature fluids with advanced sealing technology

Component overview



Schematic diagram of the principle





The Transparent Specialist

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