

Super cool SC-60 α

The SC-60 α has an additional "cooling capacity increase" over the conventional SC-60! Ultra-low temperature chiller unit with a wide operating temperature range of -60°C to +40°C. Dual refrigeration system provides high cooling capacity in spite of its compact size. Dedicated for fluorine-based heating media.



Features

- Can be stable cooling even in ultra-low temperature range (-60°C to +40°C)
 - Temperature control with high accuracy
 - Sealed Tank
- The pump is risk free from liquid leakage

Applications

- Temperature control for Etching equipment
- Temperature control for Optical fiber production

Model	SC-60 α	
Temperature range (*1)	-60°C to +40°C	
Control accuracy (*2)	±0.5°C, Heater PID Controller	
Cooling capacity (*3)	1.3 kW (Circulating temperature: -40°C)	
Compressor output, Refrigerant	1.5 kW, R404A, R23	
Pumping capacity	Flow rate [L/min]	11 (at 0.15 MPa)
	Motor output [kW]	0.40 *Operated by inverter drive at 60 Hz
Heater output	2.4 kW	
Safety device/function	Leakage breaker, Liquid low-level, Refrigerant pressure, Refrigerant overload, Pump overload, Circulating fluid high temperature, Control circuit protection (overcurrent), Phase-reversal relay	
Warning Functions (*4)	Low liquid level (Replenishment), Circulating fluid pressure rise, Heater overheat	
INPUT/OUTPUT Functions	Safety device actuation signal output, Circulating fluid temp. output, Circulating fluid temp. external setting input, Device operation signal output, Remote operation signal input, Replenishment signal output	
Heating medium (Circulating fluid)	Fluorine-based heating medium	
Circulating fluid tank capacity	approx. 15 L (Circulating tank + Reserve tank)	
Required primary cooling water rate (*5)	cooling water temperature +20°C: 15 L/min, cooling water temperature +30°C: 30 L/min	
Connecting pipe diameter	Circulating fluid in/out: Rc1/2 (with valve) Primary cooling water in/out: Rc1/2 (Equipped with the strainer at the input and water control valve at the output.) Tank/Drain: Rc1/2 (with valve)	
Dimensions (W×D×H)/Weight	640 × 820 × 1305 mm, approx. 250 kg	
Power Supply (three phase AC 200 V, 50/60 Hz) (*6)	30 A	
Operation current	approx. 20 A	

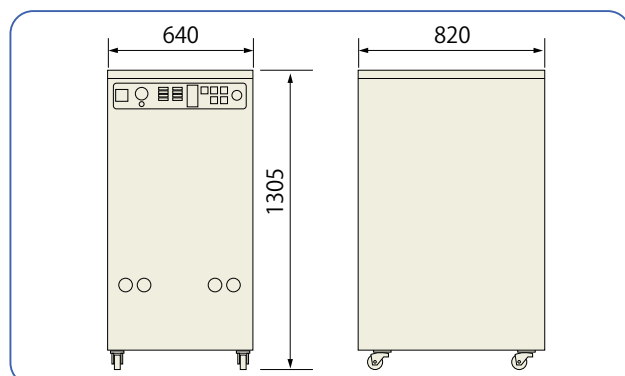
(*1)The minimum temperature (-60°C) when no-load performance. (*2)Capacity when circulating flow 6 L/min or more. (*3)Capacity varies with the circulating flow rate. (*4)Even if the warning function is activated, the operation continues. (*5)Please note it may cause defect and reduction in the cooling capacity. (*6)Need a step-down transformer outside when used.

•The specifications described when using Galden® HT110 (specified circulating fluid).

•Ambient temperature: +5°C to +35°C (no condensation).

•The fee for Delivery and Installing are quoted separately.

External dimensions



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Freeze dryers

Submarine Electrophoresis apparatus Blotting device for hybridization

Constant-temperature water circulating system [Chiller]

Appendix