

## Super cool SC-60

*Ultra-low temperature circulator that is designed to be used with Fluorine-based heating medium for the wide temperature range (Lowest temp. -60°C).*

### Features

- Can be stable cooling even in ultra-low temperature range (Lowest temp. -60°C)
- The sealed tank. The pump is risk free from liquid leakage

### Main Applications

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



### USER'S VOICE

SC-60 works behind the scenes to support the Optical fiber production.

<b>Model</b>	<b>SC-60</b>	
Temperature range (*1)	-60°C to +40°C	
Control accuracy (*2)	±0.5°C, Hearer PID Controller	
Cooling capacity (*3)	1.0 kW (Circulating temperature: -40°C)	
Compressor output, Refrigerant	1.5 kW, 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)	GALDEN HT110	
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/Weight	640×820×1305H mm, approx. 250 kg	
Power Supply	Three phase AC 200 V, 50/60 Hz, 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.

•The specifications described when using Galdden® HT110 (specified circulating fluid). •Ambient temperature: +5°C to +35°C (no condensation). •The fee for Delivery and Installing are quoted separately.

## Chiller unit for low temperature range (Custom-made model)

*The custom-made model performs cold water circulation between -20°C and +5°C.*

### Features

- The standard temperature range is -20°C to +5°C
- The temperature above the upper limit temp. (+5°C as described) can be customized
- Heater output, pumping capacity, wetted member, etc. can be changed

### Main Applications

- The cooling for Processing machinery, etc.



CHV-3750WF  
Custom-made model  
※Please contact us for more information.