



Expertise – Passion – Automatisation






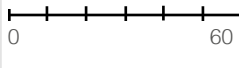

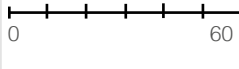

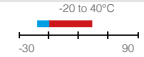

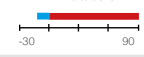
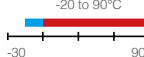




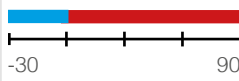



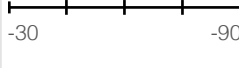
4D-3D

CENTRE DE SERVICE AGRÉÉ



Temperature Control Equipment

Thermo-chiller Variations

Series	Features	Temperature range setting	Cooling capacity	Cooling method	Temperature stability	Pump capacity
Thermo-chiller Standard type Series HRS  CE MET (Only 60 Hz)	<ul style="list-style-type: none"> With this chiller, cooling water can be obtained anywhere it is necessary because of easy installation and easy operation. For a wide range of applications such as laser machine tool, analytical equipment, L C D manufacturing equipment, mold temperature control, etc. Compact: W 377 x H 615 x D 500 mm, 40 kg (HRS012/018/024) 	5 to 40°C 	1.3 kW 1.9 kW 2.4 kW 3.2 kW 5.1 kW 5.9 kW (60 Hz)	Air-cooled Water-cooled	±0.1°C	42 L/min
Thermo-chiller Inverter type Series HRSH090  CE MET (Only 400 VAC type)	<ul style="list-style-type: none"> Power consumption reduced by 53% Outstanding energy saving effect with the triple inverter! Max. ambient temperature: W 377 x H 1080 x D 970 mm Low-noise design: Max.66 dB Max. ambient temperature: 45°C 	5 to 40°C 	9.5 kW	Air-cooled Water-cooled	±0.1°C	60 L/min
Thermo-chiller Inverter type Series HRSH  CE (400 V as standard, 200 V as an option) MET (Only 200 V as an option)	<ul style="list-style-type: none"> Outstanding energy saving effect with the triple inverter! Outdoor installation: IPX4 Max. ambient temperature: 45°C Space-saving, Lightweight 280 kg (25 kW type) 	5 to 35°C 	10 kW 15 kW 20 kW 25 kW 28 kW	Air-cooled Water-cooled	±0.1°C	180 L/min
Thermo-chiller High-performance type Series HRZ  CE SEMI	<ul style="list-style-type: none"> Suitable for semiconductor processing equipment with a wide variety of features such as high temperature stability, wide temperature range, failure diagnosis, external communication, etc. Can respond to change of process conditions flexibly, which is suitable for semiconductor equipment with a short innovation cycle. Conforming to various safety standards Inverter type is selectable. Energy saving is achieved through use of a DC inverter compressor. 	-20 to 40°C  20 to 90°C  -20 to 90°C 	1 kW 2 kW 4 kW 8 kW	Water-cooled	±0.1°C	40 L/min
		-20 to 90°C  10 to 60°C 	10 kW	Water-cooled	±0.1°C	40 L/min
Water-cooled thermo-chiller High-performance type Series HRW  CE SEMI	<ul style="list-style-type: none"> Direct heat exchanger for in-plant circulating fluid Can control the temperature over a wide range since a compressor is not required. Suitable for semiconductor processing equipment with a wide variety of features such as high temperature stability, wide temperature range, failure diagnosis, external communication, etc. Inverter type is selectable. 	20 to 90°C 	2 kW 8 kW 15 kW 30 kW	Water-cooled (Without compressor)	±0.3°C	50 L/min
Thermo-chiller High-performance inverter type Series HRD  CE SEMI	<ul style="list-style-type: none"> Temperature for two systems can be controlled separately by one chiller. Double inverter: More effective energy saving is achieved through use of a DC inverter compressor and an inverter pump. Space-saving: Footprint 23% reduction Reduced wiring, piping and labor: Single 	-30 to 90°C 	9.5 kW x2	Water-cooled	±0.1°C	40 L/min
Thermo-chiller Rack Mount type Series HRR  CE MET	<ul style="list-style-type: none"> Mountable in a 19-inch rack Space can be saved by mounting multiple pieces of equipment together in a single rack. Comes with a built-in bypass valve and particle filter as standard Built-in DI filter (option) specifications Performance and functions: Equivalent to the HRS 	5 to 35°C 	1 kW 1.6 kW 2 kW 2.5 kW	Air-cooled Water-cooled	±0.1°C	15 L/min
Thermo-chiller Rack Mount type Series HECR  CE MET	<ul style="list-style-type: none"> Mountable in a 19-inch rack. Saves space by mounting multiple equipment together in a rack. Learning control function Low vibration, Low noise Peltier-Type temperature Controller 	10 to 60°C 	200 W 400 W 510 W 800 W 1000 W 1200 W	Air-cooled Water-cooled	±0.01°C à ±0.03°C	5 L/min

CHILLERS MAINTENANCE

INTERVENTIONS ON CUSTOMERS' SITES AND IN 40-30 WORKSHOP



With 30 years of experience, 40-30 knows the maintenance business of Chillers. A technical and commercial team listens to customers to meet the needs. A strong partnership with SMC has been established on the basis of exchanges and technical expertises to face the challenges



Installation, check, assessment, preventive & corrective maintenance. Customer Asset Management.



Ongoing work 7 days a week: week end team to ensure continuity of your maintenances.



Detailed expertises reports and procedures writing to have control of the equipment and its maintenance.

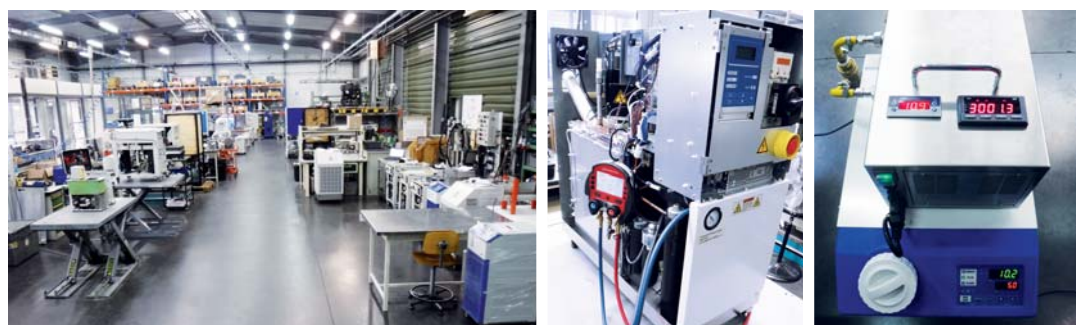


Chillers specialized trainings adapted to customer's request.

CERTIFICATIONS



OUR MAINTENANCE FACILITY



SPECIFIC TOOLS



H2O welding unit



Refrigerant fluids recording Manifold



Helium leak detector

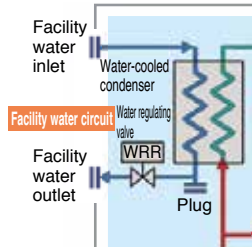


Refrigerant fluids leak detector

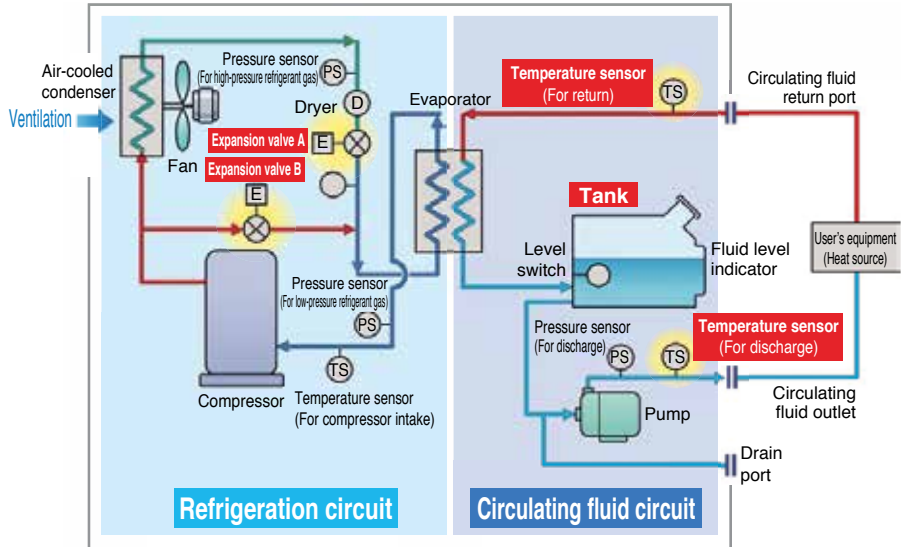
Thermo-chiller - Series HRS□

SMC's Unique Chiller Control — A Challenge to Downsizing

Water-cooled HRS□-W-□



Air-cooled HRS□-A-□



Temperature stability :
± 0,1°C/Compact

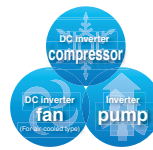
The precision temperature control methods by expansion valve and temperature sensor, realized high temperature stability of ±0,1°C and small-size tank

Reduces the maintenance hours for the pump

Mechanical seal-less immersion pump is used.

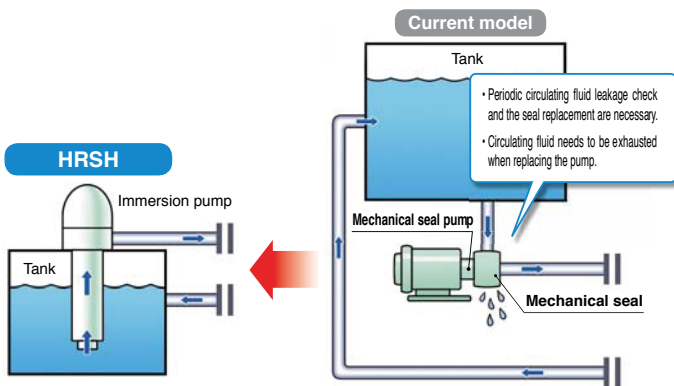
As the pump has no external leakage of the circulating fluid, a periodic check of the pump leakage and replacement of the mechanical seal are not necessary. There is no need to exhaust the circulating fluid when removing the pump.

Triple inverter



The inverter respectively controls the number of motor rotations of the compressor, fan and pump depending on the load from users equipment

Power consumption **Reduced by 53%**



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