LEAVE ANYTHING TO REIKEN, WATER EXPERTISE!

DYNACOOL®

DYNATHERM

®

Temp. Range : 7℃～30℃

(Chiller) 8℃～95℃

(cooling & Heating)

KCW-*i* SERIES

Dyna EcoWater Systems

Large7 "LCD Controller

HL*i*2 Series

L*i* Series

More Convenience

Evolution Type Controller

Equipped

KCW-05HL*i*

KCW-05HL*i*2

Best Heat Transfer

REIKEN

Feature of KCW-i series

Revamped R-shaped design.
Flow meter is standard equipment. It can be used for quality control.（It is optional for type-Li.）
Type-HLi： Setting low temperature　8℃～.

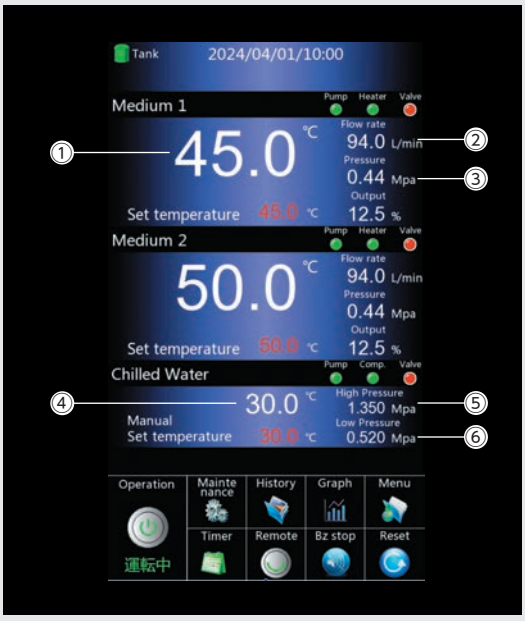
Type-Li:7℃～.

Have various interfaces for IoT

Changed the front door cover to a hinged door for control panel maintenance.
The disconnect switch was adopted to shut down the power supply from outside.

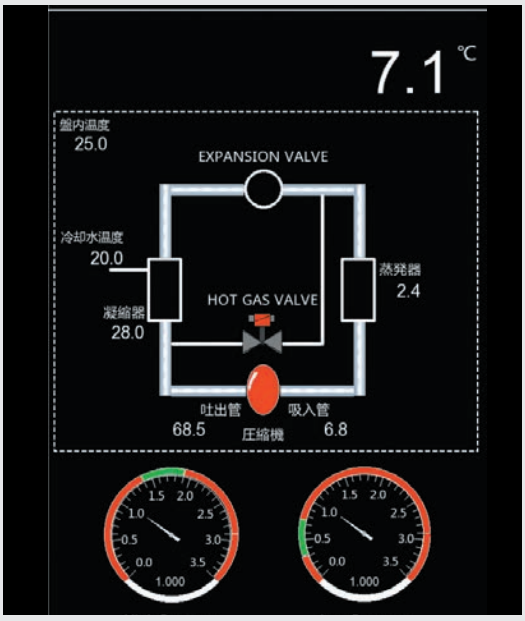
Remote to the temperature setting DC4～20mA is equipped standard.
A new 7-inch touch panel display is adopted.
Improved operability by the easy interface.

Main screen
Display all the information you need on the main screen
It is optional for type-Li



Chiller flow screen
Constantly monitor the chiller status with 4
sensors.
Notify the sign of abnormality　※It is optional for type-Li Display cooling water temperature

※*It is optional for type-Li*



①	Medium temp.	③	Medium Pressure	⑤	High pressure
②	Medium flow	④	Tank of the cooling water temp.	⑥	Low pressure

Main Specification

			Cooling		heating			
Model			KCW-03L*i*	KCW-05L*i*	KCW-03HL*i*	KCW-05HL*i*	KCW-03HL*i*2	KCW-05HL*i*2
Medium temperature range			7℃～30℃		8℃～95℃			
Medium			Water					
Chilling capacity(kW) 50/60Hz		10℃	9.7/11.9	15.9/19.2	9.7/11.9	15.9/19.2	9.7/11.9	15.9/19.2
		15℃	11.0/13.0	17.7/20.9	11.0/13.0	17.7/20.9	11.0/13.0	17.7/20.9
Tank capacity		(ℓ)	60	75	30	40	42	
Compressor output		(kW)	3	3.75	3	3.75	3	3.75
Refrigerant			R407C					
Internal circ. pump 50/60Hz Output		(kW)	——	——	0.74/0.74	0.74/1.28 High-efficiency motor		
Medium circ. pump 50/60Hz	Output	(kW)	1.27/2.2 High-efficiency motor		0.74/0.74	1.27/2.2 High-efficiency motor	0.74×2/0.74×2	1.27×2/2.2×2
	Max. flow rate	(ℓ/min)	105/126		72/86	105/126	72×2/86×2	105×2/126×2
	Max. output pressure	(MPa)	0.45/0.51		0.44/0.38	0.45/0.51	0.44×2/0.38×2	0.45×2/0.51×2
Heater capacity		(kW)	——	——	6(5.4～6.6)	9(8.2～9.9)	6(5.4～6.6)×2	
Pipe connection size	Medium process Medium return		25A(Socket)		25A(Valve)		25A(Valve)×2	
	Cooling water inlet		20A Socket	25A Socket	2 Socket	25A Socket	20A Socket	25A Socket
	Cooling water outlet		20A Socket	25A Socket	20A Socket	25A Socket	20A Socket	25A Socket
	Water supply port		15A(Socket)					
	Drain		20A(Ball valve)					
	Over flow		25A(Socket)					
	Drain for drain pan		15A(Socket)					
Utility	Cooling water volume	(ℓ/min)	32/39	52/62	32/39	52/62	32/39	52/62
	Weight	(kg)	210	225	235	260	330	360
	Electricity	(kVA)	6.3	8.3	12.8	20.3	21.3	26.9
	Breaker	(AT)	30	30	50	63	75	100
	Power source		AC200V 50/60Hz･AC220V 60Hz 3Phase 3W					
Paint Color			Nittoko N-93					
Alarm			※1		※2			
Dynakleen･N Deo			Options					
Dimensions (W×D×Hmm)			550×655×1300		550×655×1300		450×1100×1425	

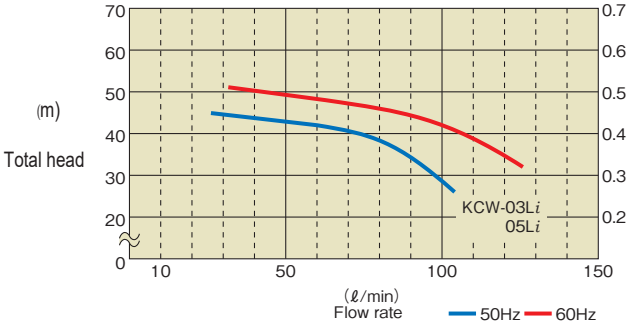
1kW=860kcal/h
1MPa=10.197kg/cm²

※※ 1 Medium short, Overload(compressor, pump), Chiller high-pressure alarm, Chiller low-pressure alarm, Freezing alarm, Chiller over-heat, Temp. High alarm, Temp. low alarm, Sensor error, Reverse phase, others
※ 2 Medium short, Overload(compressor, pump), Chilled water short, Chiller high-pressure alarm, Chiller low-pressure, others

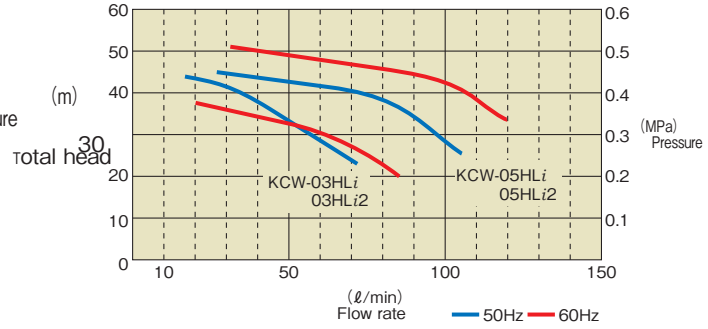
※Performance curve of medium flow rate

※

KCW-03,05L*i*



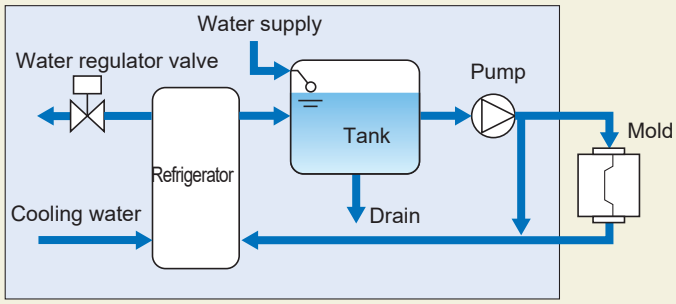
KCW-03,05HL*i*



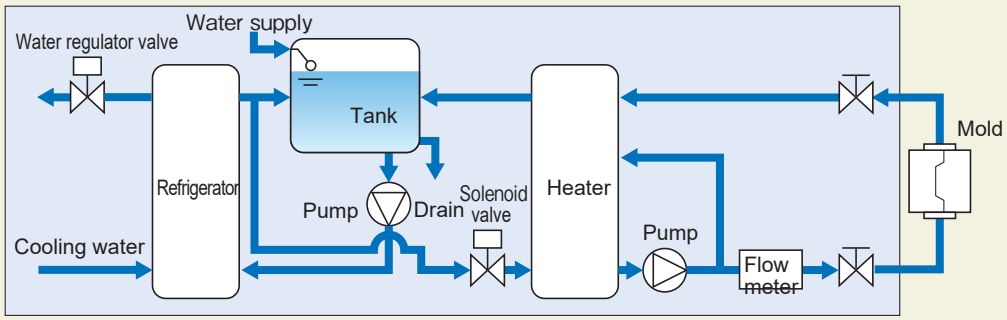
Cooling water volume is figured at 7℃ of chilling water, 30℃ of inlet cooling water, and 35℃ outlet cooling water.

Flow-chart

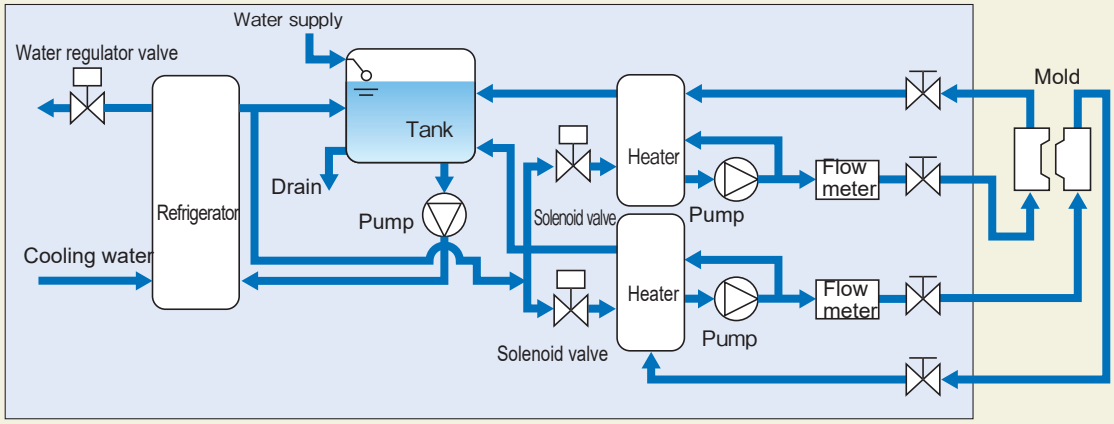
KCW-03L*i*, KCW-05L*i*



KCW-03HL*i*, KCW-05HL*i*



KCW-03HL*i*2, KCW-05HL*i*2

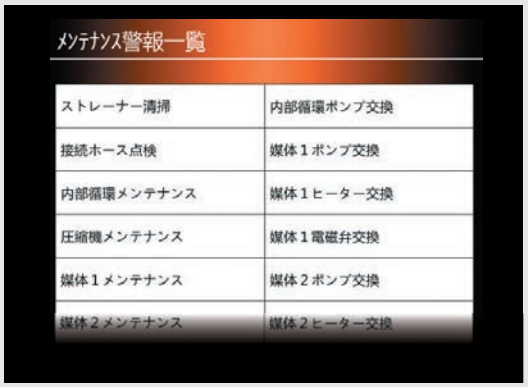


Standard equipment list

Item	KCW-03,05HL*i*	KCW-03,05HL*i*2	KCW-03,05L*i*
Branch pipe	Option	Option	Option
Medium valve	25A×1 standard valve	25A×1 standard valve	Option
Earth leakage breaker	standard	standard	standard
Connection hose	Option	Option	Option
Nominated-color	Option	Option	Option
Signal light	Option	Option	Option
Medium flow sensor	standard	standard	Option
Medium pressure gauge (digital type)	standard	standard	Option
Medium pressure gauge (analog type)	—	—	standard
Evaporator temp. sensor	standard	standard	standard
Condenser temp. sensor	standard	standard	standard
Discharge pipe temp. sensor	standard	standard	Option
Cooling water temp. sensor	standard	standard	Option
Cooling water temp. sensor	standard	standard	Option
Return temp. control	Option	Option	—
RS-485 MODBUS	standard	standard	standard
RS-485 SPI	standard	standard	standard
Remote temp. setting(DC4~20mA)	standard	standard	standard
Different voltage	Option	Option	Option
5m Power cable	standard	Option	standard

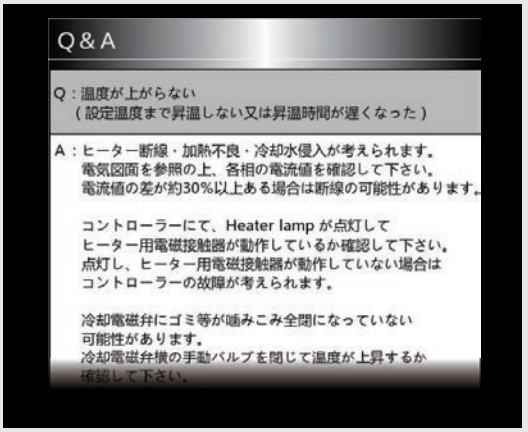
Display maintenance list

Providing advance notice of maintenance timing for trouble can be prevented.



Help function

Display solutions in Q&A when you are in trouble.



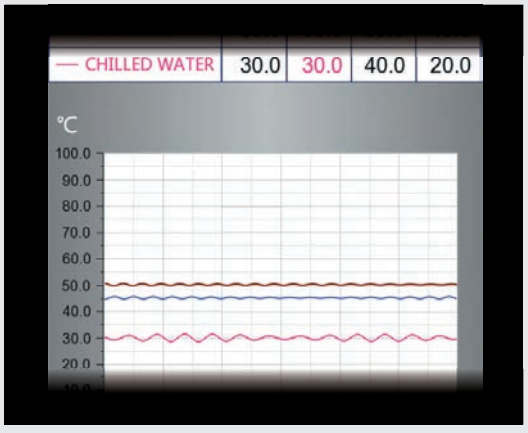
Weekly timer operation function

Easy to set up with easy operation.

The operation, abnormal value, occurred alarm, and maintenance history

You can easily identify the cause of the problem.

Graph display function: You can check your data at a glance.



Ability to save externally

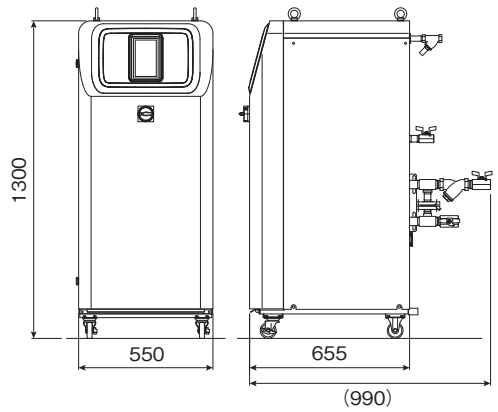
You can save a lot of data in CSV format on a USB memory. They can be used for traceability.

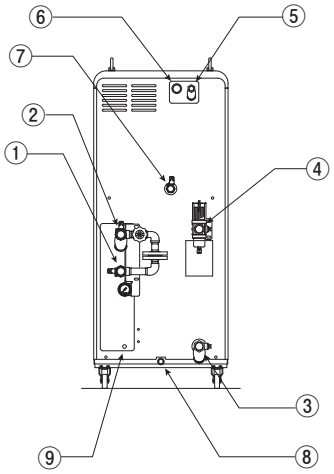
Newly installed alarm

- *Chiller high-pressure caution warning*
- *Medium flow high & low ※It is optional for type-Li*
- *Superheat level Decrease warning ※It is optional for type-Li*
- *Superheat level high warning ※ It is optional for type-Li*
- *Control panel temperature high warning ※It is optional for type-Li*

Outline dimensions

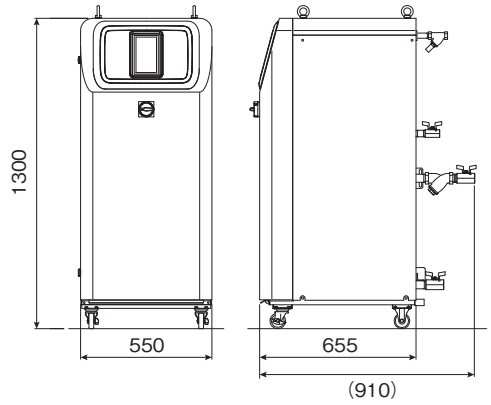
KCW-03L*i*, KCW-05L*i*

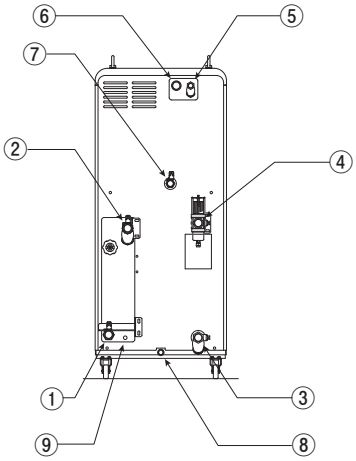




①	Medium process
②	Medium return
③	Cooling water inlet
④	Cooling water outlet
⑤	Water supply port
⑥	Over flow
⑦	Tank drain
⑧	Drain for drainpan
⑨	Cable for power source

KCW-03HL*i*, KCW-05HL*i*





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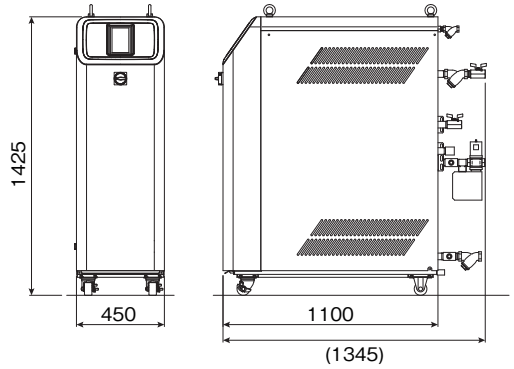
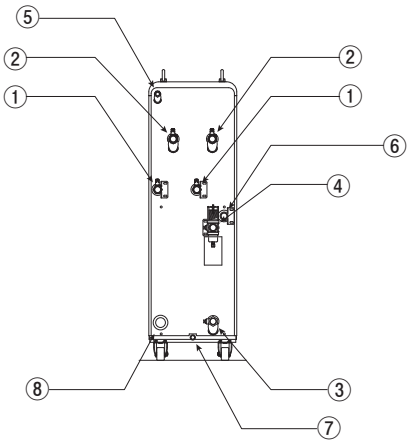
⑧	Drain for drain pan
⑨	Cable for power source

KCW-03HL*i*2, KCW-05HL*i*2





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⑤	Water supply port
⑥	Over flow, the Tank drain
⑦	Drain for drain pan
⑧	Port for power source

※The Specifications are subject to change without notice.

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