

REIKEN

FLUID THERMO & FLOW CONTROLLER (OIL)

Medium : Oil

Temperature range : Max. 300°C

DYNATHERM®

KCO-i SERIES Medium (OIL) Circulation Equipment



2 zone oil temperature controller for die-casting molding

- Two temperature control systems integrated into a compact body
- A high pressure pump is used for die casting.
increase mold cooling efficiency
- Uses a large 7-inch LCD controller for greater convenience



Best Heat Transfer

REIKEN

Features of the KCO-KCO-ii series

A high pressure pump is used for die casting. Increase mold cooling efficiency.

Ensuring greater cooling capacity for die casting.

Two temperature control systems integrated into a compact body.

Uses a large 7-inch LCD controller for greater convenience. (Picture ①)

Abundant communication standards (MODBUS, SPI)

Medium flow rate display (pressure conversion formula)

Traceability compatible.

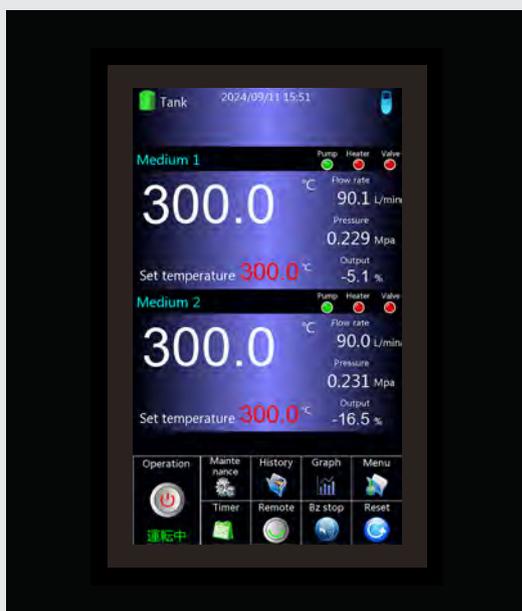
Maintenance is improved by installing the cooler outside the machine, which is concerned about problems caused by scaling. (Pic. ②)

Uses flange connection to prevent media leakage. (Pic. ③)



① Main screen

Display all the information you need on the main screen



② Cooler



③ Flange connection

A new 7-inch touch panel display is adopted.

Improved operability by easy interface.

Display maintenance list

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



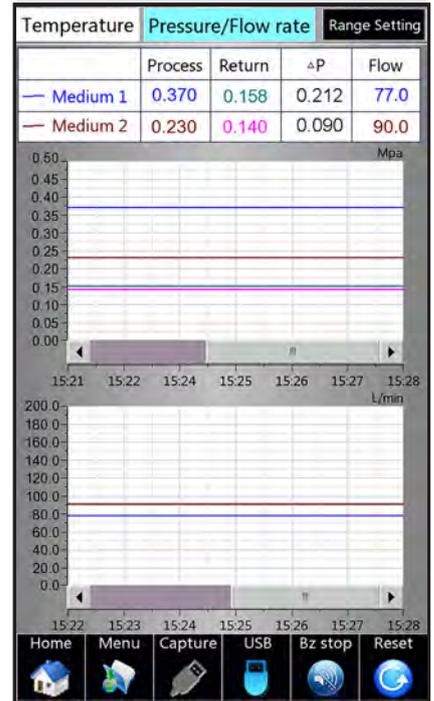
Weekly timer operation function

Easy to set up with easy operation.



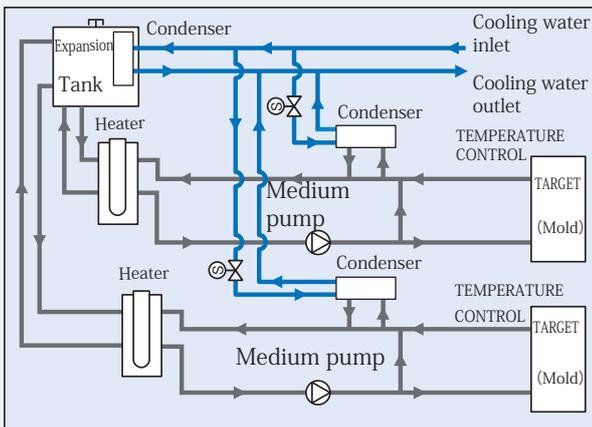
Graph display function

You can check your data at a glance.



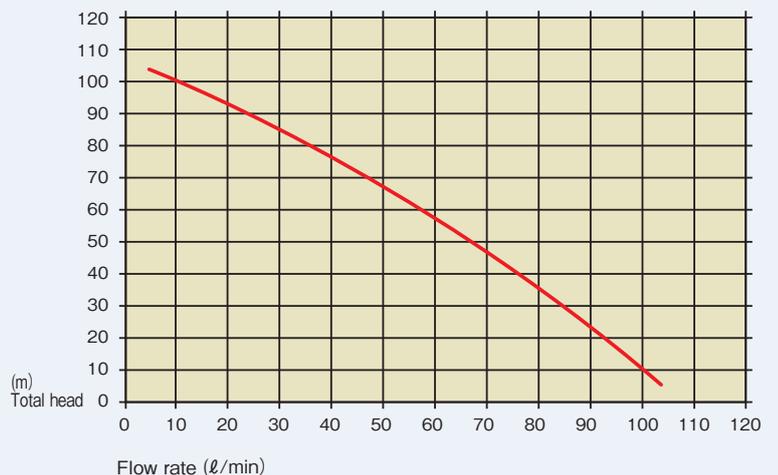
Flow-chart

KCO-9030Ni2/300



Performance curve of medium flow rate

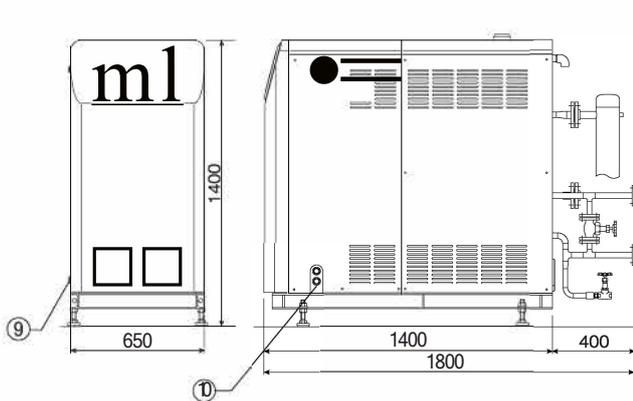
KCO-9030Ni2/300



Main Specifications

Model		KCO-9030Ni2/300
Medium max. temperature		300 °C
Medium		Barrel THERM #400 (Heating medium oil)
Temperature control method		PIDfunction
Heater capacity (kW)		30X2
Pump 50/60Hz	Motor output (kW)	2.8
	Max. pump head (m)	107
	Max. flow rate (R/min)	106
Expansion tank capacity (R) Expansion effective capacity (R)		33
		16
Heating medium oil volume in the unit (R)		73
Cooling	Cooling method	Indirect cooling method
	Cooling capa. adj.	Standard
Cooling capacity (kW)		80X2 medium temp. 280 °C • cooling water 20 °C, Water volume 20LX2 Medium Oil flow 60 L/min x2
Pipe connection size	Medium process Medium return	20A 10K Flange
	Cooling water inlet	20A
	Cooling water outlet	20A
	Drain	15A (Valve, 4 places)
Utility 50/60Hz	Cooling water valume (R/min)	45
	I Weight (kg)	690
	Electricity (kVA)	74.4
	Breake (AT)	250
	Power source	AC200V 50/60Hz • AC220V 60Hz 3 p
Paint color		3W Nittoko N-93: Full gloss paint
Alarm		Phase-reverse, Lack of medium, Pump overload, Temp. Upper limit, Temp. Lower limit, Over heat
Option		Different voltages, output temp. Control (Switch by parameter), Output temp. Control (Added selection switch) with sensor, Display return temperature, 64 temperature selection by external signal, Program temperature control (External signal start), Pump reverse purge, Operating indicator light (With signal output during operation)Alarm indicator light (With comprehensive alarm signal output), Laminated indicator light (During operation/no alarm output signal), Laminated indicator light (Added During operation/alarm output signal), SPI communication specifications (with converter), Added buzzer output, Temperature rise completion output, Control voltage AC100V, Specified color painting, Water supply pressure-reducing valve (Water supply pressure: 0.3Mpa or above is necessary), medium back strainer
Dimension (W X D X H mm)		650X 1400X 1400

Outline dimensions



①	Medium process (10K. Flange)
②	Medium return (10K.Flange)
③	Cooling water inlet
④	Cooling water outlet
⑤	Drain for medium
⑥	Drain for medium
⑦	Drain for drainpan
⑧	Overflow
⑨	Port for power source
⑩	Port for signal wiring

The Specifications are subject to change without notice.

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