

Best Heat Transfer



DYNATHERM[®]

FLUID THERMO & FLOW CONTROLLER (WATER)



KCT 230°C

Ver.2

High temperature fluid thermo & flow controller (Water)

Mold temperature controller for Thermal engineering plastics

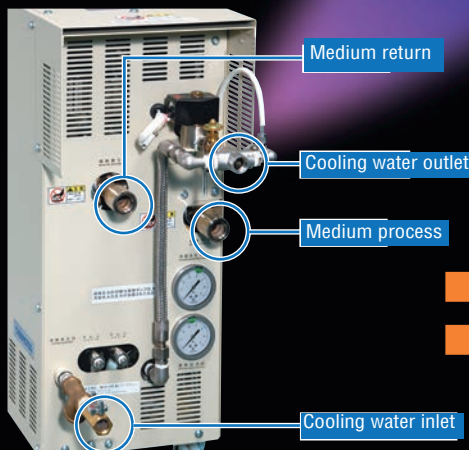
Temperature controller for CVD device

Heat source device for various chambers

The lineups that support MAX 230°C with high-temperature water have increased.

Features

- Uses a new non-seal magnet pump
Max pressure and max flow rate increased compared to conventional machines
- Uses low noise and low vibration booster pump
- As a measure against leakage, we reviewed all the conventional designs and implemented heat resistance and pressure resistance measures for the internal structure.



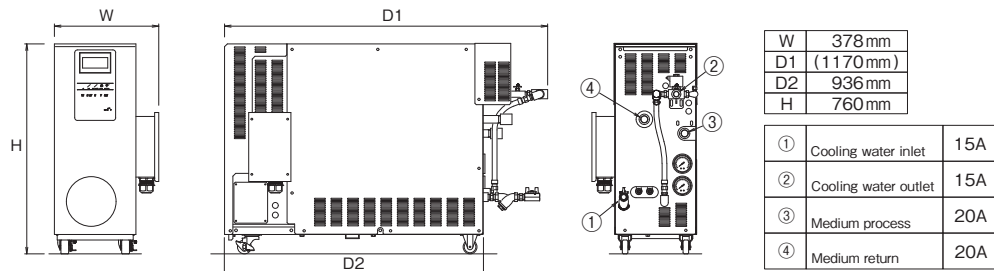
- Easy to maintenance
- The booster pump uses a unique control technology to reduce the frequency of maintenance. To change the oil, turn the oil supply / disposal port, drain the old oil, and then refill with new oil.



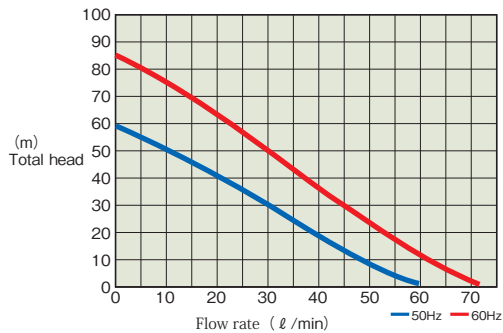
Model		KCT-5012BC/230	
Medium temperature range		Max.230°C	
Medium		Water ※Calcium hardness should be 50mgCaCO ₃ /ℓ or less.	
Cooling method		Direct Cooling	
Temperature control method		PID function	
Cooling capacity(kW) Δt=30°C、ΔP=0.2MPa		4.2kW	
Heater capacity (kW)		12 (6×2)	
Medium process pump 50/60Hz	Output (kW)	1.0/1.1	
	Max. flow rate (ℓ /min)	60/72	
	Max. output pressure (MPa)	0.6/0.85	
Booster pump 50/60Hz	Output (kW)	0.75	
	Max. flow rate (ℓ /min)	3.0/3.6	
	Max. output pressure (MPa)	3.0	
Lubricating oil		Filling amount 0.3ℓ (engine oil SJ class or higher SAE10W-30)	
Pipe connection size	Medium process·Medium return	20A (Socket)	
	Cooling water inlet	15A (Ball valve)	
	Cooling water outlet	15A (Socket)	
	Drain	8A×2 (Socket)	
Utility	Cooling water volume (ℓ /min)	15	
	Weight (kg)	115	
	Electricity (kVA)	16.2	
	Breaker (AT)	50	
	Power source	AC200V 50/60Hz·AC220V 60Hz 3φ 3W	
Paint color		Nittoko S4-389	
Alarm		Reverse Phase, Medium short, Pump overload, Temp. over, Temp. low, Booster low press, Booster overload	
Options		Temp. control by the local temp.sensor, Electric leakage breaker, High performance filter, Pres. reduction valve for water supply, Nominated-color, Display °F, Power cable, Branch pipe, Valve for medium	
Dimensions (W×D×Hmm)		378×936×760	

※Cooling water pressure needs to be 0.25 to 0.4MPa

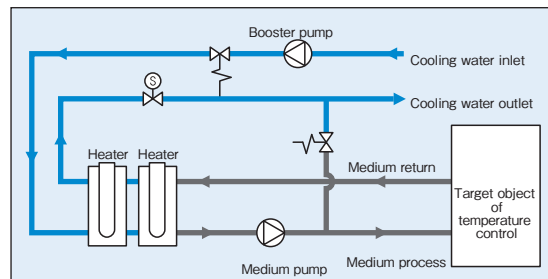
■ Outline dimensions



■ Performance curve of medium flow rate.



■ Flow-chart



※The Specifications are subject to change without notice.