

LIAT HP Series

Heat-Exchange Temperature Controller

HPS012-W-32F/ HPS008-W-32W/ HPD008-W-32W-L4-CW

Zero-Refrigerant
Safety

Security

High-temperature
process

200°C

High-power heat
exchange

Efficiency



Zero-Refrigerant Safe

Pure water-cooled exchange technology with no refrigerants, fundamentally eliminating fluorinated leak threats to Fab environment and personnel



High-Power Coverage

Heat exchange from 8KW to 200KW across $+20^{\circ}\text{C} \sim +200^{\circ}\text{C}$, one-stop solution for all heat exchange scenarios



Ultra-High Temp Compatible

HPS012/HPD012 supports up to $+200^{\circ}\text{C}$, specifically for high-temperature CVD and PECVD with thermally validated materials



Fluid Flexible

Compatible with both DI water and ethylene glycol mixtures, no hardware modifications for different Fab conditions



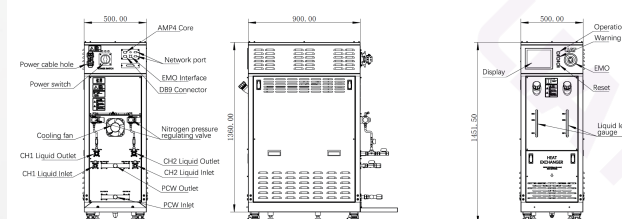
HPD008-W-32W-L4-CW

SEMI Standard
S2, S8



TÜVRheinland
Precisely Right.

External structure diagram



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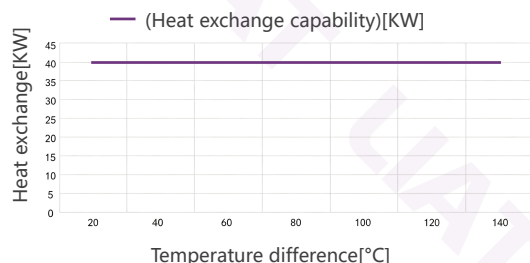


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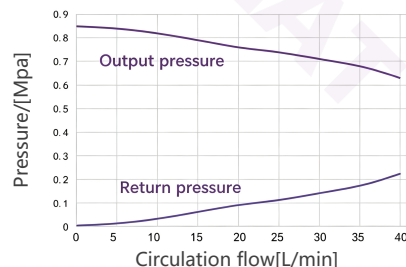
Heat-Exchange Temperature Controller

Model		HPS012-W-32F	HPS008-W-32W	HPD008-W-32W-L4-CW
Channel		Channel 1	Channel 1	Channel 1 / Channel 2
Temperature range		+30°C to +140°C	30°C to +90°C	+30°C to +90°C
Fluid		HT200/LH200	EG、DI Water	DI Water / Ethylene Glycol Mixture
Tank		35L	20 L	35L
Filter canister		—	—	18 L (Resistivity > 2 MΩ·cm)
Temperature accuracy ((idle)		± 0.1 °C	± 0.1 °C	± 0.1 °C
Temperature control		PID control	PID control	Electrical heater PID control / 3-way valve PID control
Heat exchanger	Heat exchange	12KW @+30°C	8 kW @+30°C	8KW @+30°C
	PCW	10 ~ 30 LPM @15 ~ 25°C 0.3MPa	15 LPM @15 ~ 25°C @0.3 ~ 0.4Mpa	10 ~ 30 LPM @15 ~ 25°C 0.3MPa
	Heat exchanger type	Plate Heat Exchanger	Plate Heat Exchanger	Nickel-Brazed Stainless Steel Plate Heat Exchanger
Heater		6KW	3 kW x 2	6KW
Pump	Pump type	Variable Frequency Magnetic Drive Pump	Variable Frequency Centrifugal Pump	Variable Frequency Centrifugal Pump
	Power	1.5KW	1.1 kW	1.1 KW
	Pump capacity	25 LPM @0.6MPa	30 LPM @0.6MPa	20 LPM @0.65MPa
Certification		SEMI S2、F47	SEMI S2、F47	SEMI S2、F47
Interface		EtherCAT (RJ45, 1 In / 1 Out)	RS485	EtherCAT (RJ45, 1 In / 1 Out)
Rated Power		7.5KW	7.3 kW	15KW
Maximum Current		20A	—	52A
Operating Current		—	6.3 A (@+30°C,15% Heating Load)	23 A (@ +30°C, 30% Heating Load)
Breaker		32A	25A	63A
Dimensions		380W 900D 1300H(mm)	380W 900D 1300H (mm)	600W 900D 1500H(mm)
Power supply		208 ~ 220 VAC, 3ø, 50Hz/60Hz	3Ph,208-220V,50/60Hz	208 ~ 220 VAC, 3ø, 50Hz/60Hz

Heat capacity curves at different temperatures



Pump performance[50HZ]



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