LIAT
INNOVATION DRIVES FUTURE

LIAT V Series

Inverter-Controlled Precision Chiller

VS010-W-32/ VD100-W-32/ VT410-W-33

Real-time load matching control **Adaptive** Faster heating and cooling response **Responsiveness** Optimized energy consumption reduction **Efficiency**

Full-Range Wide Span

Single-channel covers -20℃ ~ +90℃, VT series three channels cover -45℃, +90℃, and +55℃ independently, one-stop solution from deep-cool to high-temp for complete process chain

Inverter Energy Efficient

Standard inverter compressors modulate output based on real-time thermal load, eliminating start-stop losses of fixed-speed units, superior energy efficiency reducing long-term Fab electricity costs

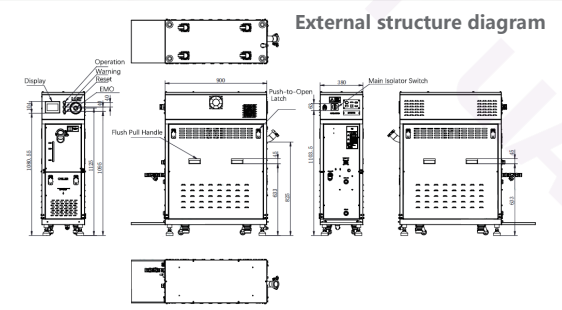
High-Precision Stable Control

±0.1℃ steady-state accuracy across all series with fast dynamic response and minimal overshoot, ensuring batch-to-batch consistency for nano-scale manufacturing

Compact Standard Design

Ultra-narrow 380mm footprint minimum, fully SEMI S2/S8 compliant

VS010-W-32F



SEMI Standard S2, S8

CE

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Precisely Right.

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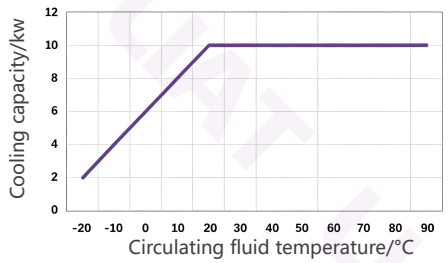
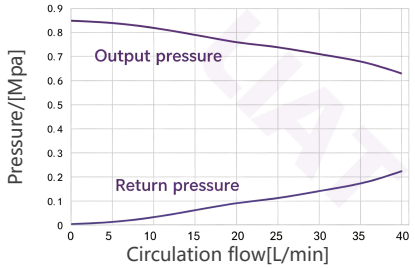
Model	VS010-W-32	VS407-W-33	VD010-W-32	VT410-W-33
Cooling Method	Water-Cooling			
Control Mode	PID Control			
Temperature Control Range	-20℃~+90℃	-40℃~+80℃	-20℃~+90℃	CH1:-45~+60℃ CH2:+30~+90℃ CH3:+10~+55℃
Precision	±0.1℃	±0.1℃		
Refrigeration Capacity	-20℃@2 KW - 10℃@4 KW 20℃@10 KW	-40℃@6 KW -20℃@12 KW 0℃@25 KW 20℃@25 KW 40℃ @25 KW	CH1/ CH2: -20℃@2 KW - 10℃@4 KW 0℃@6 KW 20℃@10 KW 80℃@10 KW	CH1:6KW@-40℃ CH2:30KW@+30℃ CH3:28KW@+20℃
Heater	3kW	3kW	CH1:3KW CH2:3KW	CH1:4KW CH2:14KW CH3:4KW
Tank	20L	25L	CH1: 20 L CH2: 20 L	CH1 / CH2 shared expansion tank 30L + hot water tank 25L
Circulating Liquid Flow Rate	20L/min(0.7Mpa)	20L/min(0.7Mpa)	CH1:20 L/min (0.7MPa) CH2:20 L/min (0.7MPa)	CH1:17 L/min @ 0.9MPa CH2:17 L/min @ 0.9MPa CH3:25 L/min @ 0.76MPa
PCW Traffic	15 L/min@15~25℃	50 L/min@15~25℃	CH1: 15 L/min@15~25 ℃ CH2: 15 L/min@15~25 ℃	CH1: 50 L/min@15~25℃@0.3MPa CH2: 20 L/min@15~25℃@0.3MPa CH3: 50 L/min@15~25℃@0.3MPa
Types of Circulating Fluid	Ethylene glycol mixture, fluorinated liquid	Ethylene glycol mixture, fluorinated liquid	Ethylene glycol mixture, fluorinated liquid	FC3283
Refrigerant	R410A	R410A	R410A	R410A
Circulating Liquid Interface	Rc3/4"	Rc3/4"	Rc3/4" x 2	CH1/CH2/CH3: Rc 3/4"
PCW Interface	Rc1/2"	Rc1-1/4"	Rc1/2" x 2	CH1/CH2/CH3: Rc1"
External Dimensions (mm)	380W*900D*1250H	500W*1150D*1500H	600W*920D*1300H	600W*1370D*2000H
Input Power Supply	3Ph,208-220V,50Hz	3Ph,380-400V,50Hz	3Ph,208-220V,50Hz	3Ph,380-400V,50Hz
Machine Power	7.7kW	14kW	16kW	41.1 KW
net Weight	200kg	360kg	350kg	600 kg
Design Standards	SEMI			

Cooling capacity curves at different temperatures



Pump Performance[50HZ]



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