



OCP
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THERMAL SOLUTIONS >>

FOR

HIGH PERFORMANCE COMPUTING



With the continuous advancements in artificial intelligence (AI) technology and high-performance computing (HPC), the demand for efficient, high-quality, and reliable thermal solutions has grown exponentially. Our advanced high-performance cooling fans are specifically engineered to address the challenges in modern HPC applications, meeting the needs of both AI training and scientific computing. As the power density of next-generation processors and gpus continues to rise, maintaining optimal thermal performance is critical to achieving maximum computational efficiency.

INNOVATIVE FEATURES AND BENEFITS

1. Low Power Consumption

Our cooling solutions are designed to minimize energy usage, reducing operational costs while maintaining peak performance under heavy workloads. This ensures sustainable operations even in power-intensive environments.

2. Low Noise and Vibration

With a focus on quiet operation, our fans incorporate advanced noise-reduction and vibration-dampening technologies. This makes them ideal for noise-sensitive environments without compromising thermal efficiency.

3. Enhanced Reliability

Built with high-quality materials and precision engineering, our fans deliver exceptional reliability. They ensure stable operation under extreme workloads, maintaining the integrity of HPC infrastructure even in demanding conditions.

4. Customizable Solutions

Understanding that every customer's needs are unique, we offer tailored solutions to meet specific application requirements. Whether scaling AI training clusters, optimizing data center operations, or pursuing breakthroughs in scientific research, our products adapt seamlessly to your needs.

FUTURE READY DESIGN

Our cooling systems are developed with a vision for the future of computing. They integrate advanced air and liquid cooling technologies to handle increasing power densities while prioritizing energy efficiency. By combining these methods, we address both current demands and future challenges posed by more energy-intensive applications.

SUSTAINABILITY FOCUS

In addition to technical excellence, our products emphasize environmental responsibility. By reducing energy consumption and operational costs, we help data centers achieve greener operations while ensuring optimal system performance.

WHY CHOOSE US?

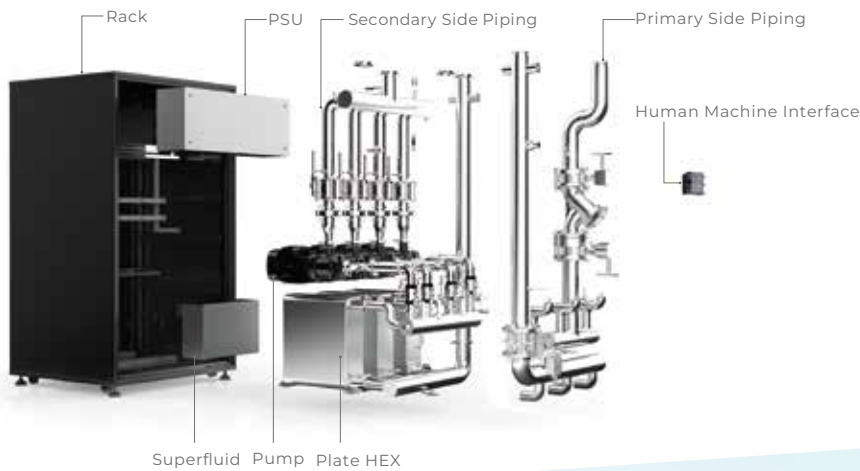
Our cooling solutions are built for the future of computing—where advanced thermal designs will play a pivotal role in enabling next-generation AI and HPC systems. By selecting our cooling systems, you can ensure your equipment remains efficient and reliable even as computational demands grow more intense.

>> IN_ROW CDU SOLUTIONS



- Features & Specifications:
- Built-in SuperFluid Generator
 - High-efficiency ATD 6°C (PG25)
 - LTL (Liquid to Liquid) cooling system
 - High-efficiency plate heat exchanger (PHE)
 - Friendly Human-Machine Interface to control and monitor the cooling system, including the inlet/outlet fluid, pressure and pump (N+1)
 - Smart pressure relief and liquid leak-proof design

Model	LSC-1400D000
Dimension (W x D x H)	1320 x 1200 x 2410mm
Cooling Capacity	1.4 MW
Coolant	PG25
Approach Temperature Difference (ATD)	6°C
Primary Side Liquid Temp. (in/out)	20°C/30°C
Secondary Side Liquid Temp. (in/out)	36°C/26°C
Secondary Side Rated Flow rate	1,500 LPM
Power Consumption	25.6 kW
Pump	Redundant pumps (3+1)
Filter	25 µm
Communication	Modbus RTU & TCP/IP & SNMP & Redfish
Unit Dry Weight	1,600 kg
Unit Operating Weight	1,800 kg

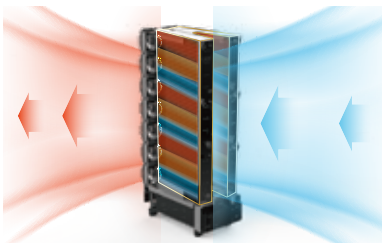


>> SIDECAR(120KW) SOLUTIONS



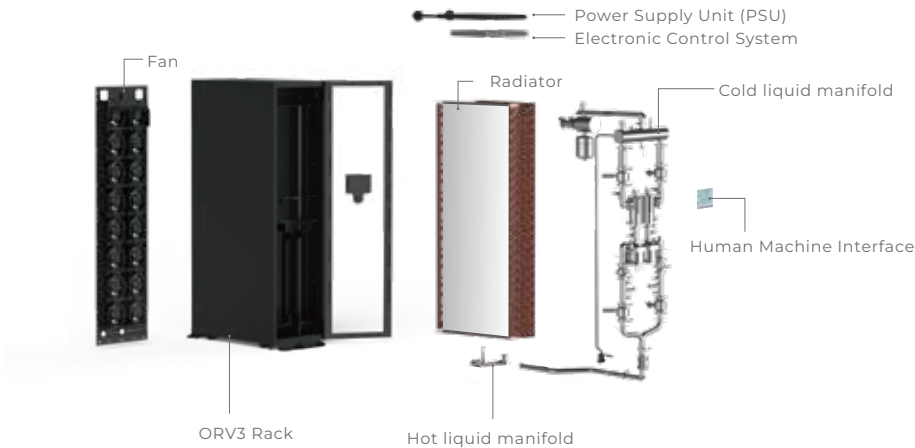
Features & Specifications:

- Built-in SuperFluid Generator
- High-efficiency ATD 10°C (PG25)
- LTA (Liquid-to-Air) cooling system
- Low-power Consumption/noise, high-efficiency backdoor cooling fan
- High-efficiency microfluidic heat exchanger
- Friendly Human-Machine Interface to control and monitor the cooling system, including the inlet/outlet fluid, pressure and pump (N+1)
- Innovative heat exchanger design optimized for superior thermal dissipation performance.
- Smart pressure relief and liquid leak-proof design



- Low-Resistance Airflow Runner Design
- Industry-Leading Energy Efficiency

Model	LSS-0120D001
Dimension (W X D X H)	600 x 1100 x 2300 mm
Cooling Capacity	120 KW
Coolant	PG25
Approach Temperature Difference (ATD)	10°C
Air Side Temp. (in/out)	35°C/45°C
Liquid Side Temp. (in/out)	55°C/45°C
Rated Air Flow	17,000 CFM
Power Consumption	12.6 kW
Pump	Redundant pumps (1+1)
Fan	16
Filter	25 μm
Communication	Modbus RTU & TCP/IP & SNMP & Redfish
Weight	500 kg



>> SIDECAR(300KW) SOLUTIONS



Features & Specifications:

- Built-in SuperFluid Generator
- High-efficiency ATD 15°C (PG25)
- LTA (Liquid-to-Air) cooling system
- Low-power Consumption/noise, high-efficiency backdoor cooling fan
- High-efficiency microfluidic heat exchanger
- Friendly Human-Machine Interface to control and monitor the cooling system, including the inlet/outlet fluid, pressure and pump (N+1)
- Innovative heat exchanger design optimized for superior thermal dissipation performance.
- Smart pressure relief and liquid leak-proof design

Model	LSS-0300D000
Dimension (W X D X H)	1200 x 1200 x 2400 mm
Cooling Capacity	300 KW
Coolant	PG25
Approach Temperature Difference (ATD)	15°C
Air Side Temp. (in/out)	35°C/50°C
Liquid Side Temp. (in/out)	65°C/50°C
Rated Air Flow	35,600 CFM
Rated Fluid flow	320 LPM
Power Consumption	25.6 kW
Pump	Redundant pumps(1+1)
Fan	8
Filter	25 μm
Communication	Modbus RTU & TCP/IP & SNMP & Redfish
Weight	1,100 kg



>> CONTAINERIZED AI DATA CENTER



Model		Containerized AIDC
Dimension(L x W x H)		7200 x 3100 x 2800
Cooling Capacity(Air Cooling)		300 kW(84 pcs Fans)
Cooling Capacity(Liquid to Liquid Cooling)		300 kW-1.5 MW(optional)
Power Input		380 / 400 / 415 Vac,3P+1N+1PE
PDU Rating Input		16A / 32A / 63A
Communicarion		Modbus, TCP/IP
Cooling Fans Wall	Fans Wall	112 Fans (28 Fans redundant)
	Fan Outline Dimension	220 x 220 x 70 mm
	Single Fan Rated Voltage	DC 48 V
	Single Fan Rated Current	12 A
	Rotational Speed	8,000 RPM $\pm$ 10%
	Single Fan Max. Airflow	1,093 CFM
	Single Fan Max. Static Pressure	5.46 in-H ₂ O
Weight		6,000 kg

>> CHILLER COOLING SYSTEM



Application	Medical Equipment / Food Processing / Ingustrial Manufacturing / Gaming PC / Wofkstation		
Input Power	230V / 50Hz 650W	FluidCapacity,L/min	1.0~1.2
Currenttt(A)	13.0	Fan	48 VDC 3,500 rp, 4 Pin PWM
Regigerant	R1234yf	Fan Life Expectancy	40°C / 80,000hrs
Compressor Voltage	48 VDC / 13.0A	Noise	52 dB(A)
Capacity W(Btu/h)	1,800 (6,138)	Dimensions	H381 x W241x D405 mm
COP	2.4	Weight	35.1 kg
Coolant	CP-40 -40~90°C		

>> COLD PLATE

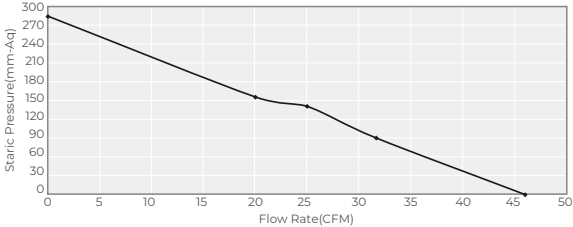


Model		3 kW Liquid Metal + Diamond Cold Plate	
Dimension(W x D x H)	330 x 220 x 45 mm	Cooling Capacity	3 kW
Applicarion	HPC / AI Sever	Materials	Copper / Diamond
Heat Flux Density	200 W / cm ²	Coolant	Liquid Metal / PG25

HIGH EFFICIENCY COOLING FAN

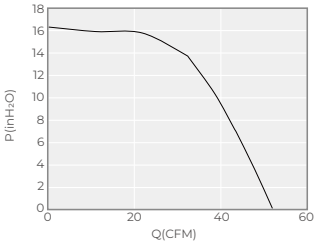
>> 40 X 28

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
HYW04025012BS	2B	12	30,000	33.1	123.85	1.53	63
PYW04025012BS	2B	12	45,000	45.6	283.6	4.27	73.5



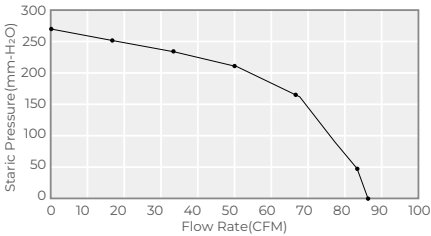
>> 40 X 56

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
PYW04056012BH	2B	12	40,000/38,000	44.5	498.2	8.8	77



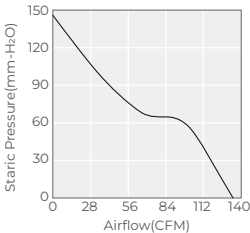
>> 60 X 56

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
PYW06056012BH	2B	12	24,300/22,700	85	275.1	5.60	83.5



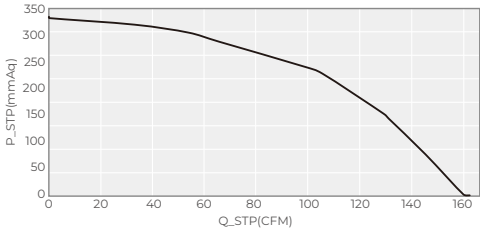
>> 80 X 38

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
EYW08038012BG	2B	12	17,000	135	145	4.8	69.5
EYW08038024BG	2B	24	17,000	135	145	2.3	69.5
EYW08038048BG	2B	48	17,000	135	145	1.2	69.5



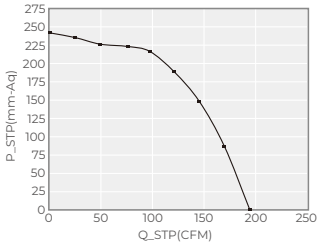
>> 80 X 56

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
PYW08056012BH	2B	12	20,000/ 21,000	163.1	335.3	9.10	83.2
PYW08056024BH	2B	48	20,000/ 21,000	163.1	335.3	3.11	83.2



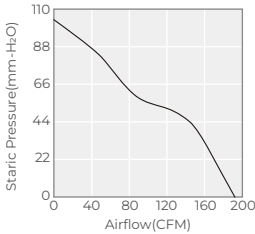
>> 80 X 80

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
PYW08080012BH	2B	12	18,700/ 15,100	198	241	13.5	92
PYW08080048BH	2B	48	18,700/ 15,100	198	241	3.4	92



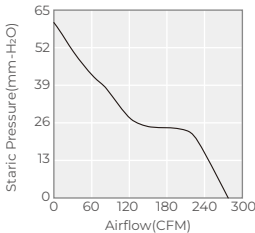
>> 92 X 38

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
EYW09238012BG	2B	12	12,500	184.5	79	4.4	67.5
EYW09238024BG	2B	24	13,500	192.9	103.7	2.2	68.5
EYW09238048BG	2B	48	13,500	192.9	103.7	1.1	68.5



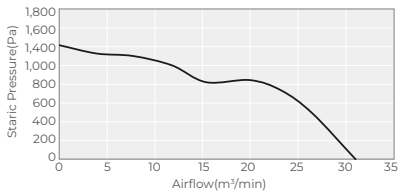
>> 120 X 38

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
EYW012038012BH	2B	12	6,000	236.4	48.1	3.5	64.9
EYW012038024BH	2B	24	7,000	275.9	60.4	2.7	69.2
EYW012038048BH	2B	48	7,000	275.9	60.4	1.3	69.2



>> 220 X 70

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (in-H ₂ O)	Current(A)	Noise Level dB(A)
WYW22070048BH	2B	48	8,000	1,093	5.46	1.8	81



220 x 70mm fans configured in a parallel circuit control system ◻ and each unit delivers an airflow of up to 31 m³/min with a maximum static pressure of 1370 Pa, while consuming less than 600W of power.

Model	WYW22070048BH-ECA		
Outline Dimension	220 x 220 x 70mm		
Rated Voltage	DC 48.0 V		
Operation Voltage	DC 36.0 V ~ DC 56.0 V		
Startion Voltage	DC 36.0 V		a. Rated Voltage b. 25°C, 100% Duty Cycle c. 65%RH d. Measured after 5 min.
Rated Current	10.8 A	+10%	
Rated Power Consumption	518 W		
Rotational Speed	8,000 R.P.M.±10%		a. Rated Voltage b. (Standard):AMCA c. Rated Current
Max. Aiflow	1,081 CFM(ft3/min)		
	30.61 m³/min		
Max. Static Pressure	5.31 in-H₂O		
	1,328 Pa		
Noise Level	81.0 dB(A)		a. Rated Voltage b. Non-Echo Chamber c. (Standard) : CNS 8753 d. (Distance) : 1.0M
Life Expectancy	40,000 hrs at 60°C		a. L10 at Conf. Level 90% b. Rated Voltage
No. Of Pole	8 Ploes		
Rotational Direction	Counter-Clockwise		

THE BUSINESS MODEL IN Y.S. TECH WATER COOLING SOLUTIONS

- Customized Design for water cooling solutions in Side Car, RPU & In-Rack CDU
- High Performance Ventilation Fan, Cold Plate & Radiator
- Customized HMI & Smart Control(CAN & LIN)
- ODM/OEM Service in Taiwan

>> EC

Model	Bearing	Rated Voltage (VDC)	Speed(RPM)	Max. Airflow (CFM)	Max. Static Pressure (mm-H ₂ O)	Current(A)	Noise Level dB(A)
QV222563HBL-9A2	2B	230VAC	3,400	853	104.14	1.68	72.5
QV225057MBL-9A2	2B	230VAC	2,700	915	66.29	1.7	70.5
QV228080MBL-9A2	2B	230VAC	2,100	1,322	63.25	1.4	71.5





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