

PRODUCT DESCRIPTION

LINK-CLOUD series heat pipe rear-door air conditioners are efficient, energy-saving, safe and reliable, intelligent, and boasting exquisite workmanship, In-Rack refrigeration and all-dry operation, which fully meet the cooling requirements of the new generation data room.

It is applied in modular data room, container data center, high-heat density data room and etc.

PRODUCT FEATURES

- Full dry condition to ensure the water-free environment of the data center.
- When the cooling demand of the original data center is increased, it can be easily expanded by installing rear-door air conditioner.
- Sensible heat refrigeration, no need repeated humidification and dehumidification energy consumption, strong cooling capacity for high heat density and even heat dissipation.
- Compatible with gravity type and throttling power type.
- The integration design saves space and adapts to the power consumption of rack server, which can easily realize flexible expansion.
- Super-large LCD screen display, containing historical data curve display and record, which can be imported into computer for secondary analysis and processing.
- Hot-plug fan design supports online maintenance, featuring low system failure rate.
- Exclusive RS485 communication protocol, boasting high communication rate, good stability and real-time monitoring.
- Complete anti-condensation control and refrigerant leakage alarm function.

GRAVITY HEAT PIPE BACKPLANE

Model Parameter		Gravity type			Driven type		
		ZF05HRPF	ZF10HRPF	ZF15HRPF	ZF07HRPF-P	ZF10HRPF-P	ZF15HRPF-P
Cooling capacity	kW	5	10	15	7	10	15
Power supply		AC220V/50Hz			AC220V/50Hz		
Air flow	m³/h(LPM)	1450 (2.42*10 ⁴)	2500 (4.17*10 ⁴)	3750 (6.25*10 ⁴)	1750 (2.92*10 ⁴)	2500 (4.17*10 ⁴)	3750 (6.25*10 ⁴)
Rated power	W	40	100	150	70	120	150
Fan quantity	pc	10	12	14	12	12	14
Fan type		Stepless speed regulation					
Pipe connecting mode		Bottom in and top out					
Air pipe diameter	In(mm)	0.62(16)	0.75(19)	0.87(22)	0.74(19)	0.74(19)	0.74(19)
Liquid pipe diameter	In(mm)	0.5(12.7)	0.63(16)	0.74(19)	0.5(12.7)	0.5(12.7)	0.5(12.7)
Dimension	In(mm) Width	23.62(600)					
	In(mm) Height	78.74(2000)/ 86.61(2200)					
	In(mm) Depth	5.32(135)					
Weight	kg	46	40	55	46	40	55



- Test condition: the inlet air temperature is 95°F(35°C), and the inlet/outlet water temperatures of refrigerant condensing unit are 2) 53.6/64.4°F(12/18°C).
- Power adaptability: AC 220V/50HZ.
- Refrigerant R134a, if other types of refrigerants are needed, please contact Shenling for confirmation.
- Due to the needs of product improvement and upgrading, the parameters can be changed without prior notice. Please confirm before ordering.

REFRIGERANT CONDENSING UNIT

a.Gravity type

Model		LN30RCU	LN60RCU	LN90RCU	LN120RCU	LN150RCU
Parameter						
Condensing load	kW	30	60	90	120	150
Chilled water flow	GPM(LPM)	113.15(86.66)	45.35(171.67)	68.24(258.33)	90.70(343.33)	113.15(428.33)
Refrigerant		R134a				
Chilled water connecting pipe diameter		G1-1/4"	G1-1/2"	G1-3/4"	G2"	G2"
Dimension	In(mm) Width	10.43(265)	10.43(265)	10.43(265)	17.72(450)	17.72(450)
	In(mm) Height	25.59(650)	25.59(650)	25.59(650)	25.59(650)	25.59(650)
	In(mm) Depth	7.87(200)	11.22(285)	14.57(370)	14.57(370)	14.57(370)
Weight	kg	25	31	38	46	54



- The above parameters are measured at the inlet/outlet temperature of 53.6/64.4°F(12/18°C). If the water temperature is different, please contact Shenling.
- The refrigerant condensing unit is selected, after determining the total condensing load according to the cooling capacity of single heat pipe rear-door and the total number of rear-door.
- The connecting hose between the inlet and outlet of the rear-door refrigerant and the main pipe of the system is selected according to the actual need.

b.Driven type

Model		LN60PCU	LN120PCU	LN180PCU	LN240PCU	LN300PCU
Parameter						
Condensing load	kW	60	120	180	240	300
Chilled water flow	kW	1.5	4	4	5.5	7.5
Refrigerant		R134a				
Dimension	In(mm) Width	31.50(800)	35.43(900)	35.43(900)	43.31(1100)	43.31(1100)
	In(mm) Height	23.62(600)	23.62(600)	31.50(800)	31.50(800)	31.50(800)
	In(mm) Depth	70.87(1800)	70.87(1800)	70.87(1800)	78.74(2000)	78.74(2000)
Weight	kg	350	656	716	790	892



- The power supply system of driven type refrigerant condensing unit is 3N~380V/50Hz.
- The refrigerant condensing unit is selected, after determining the total condensing load according to the cooling capacity of single heat pipe rear-door and the total number of rear-door.
- Due to the needs of product improvement and upgrading, the parameters can be changed without prior notice. Please confirm before ordering.
- The above parameters are measured at the inlet/outlet temperature of 53.6/64.4°F(12/18°C). If the water temperature is different, please contact Shenling.