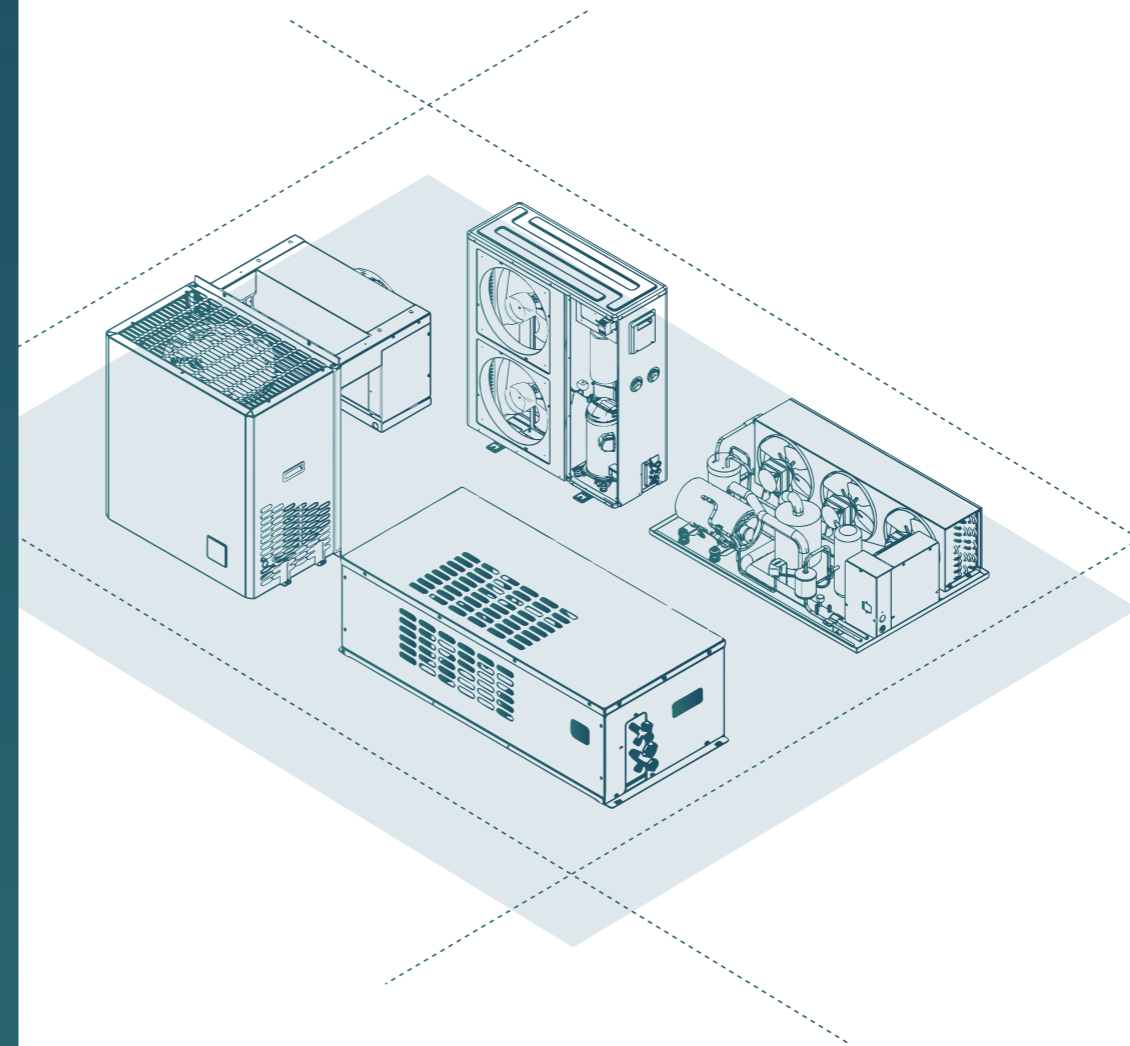


BOYARD SYSTEMS CATALOG



Trusted By



BOYARD

BOYARD SYSTEMS CO., LTD.

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BOYARD



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/ FIGURE OF BOYARD

20+

The company has been established for over 20 years.



30+

It owns more than 30 patents.



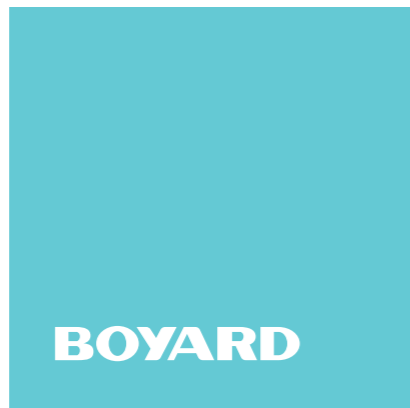
300+

Employs nearly 300 people.



30000+

The company covers an area of 33,000 m².



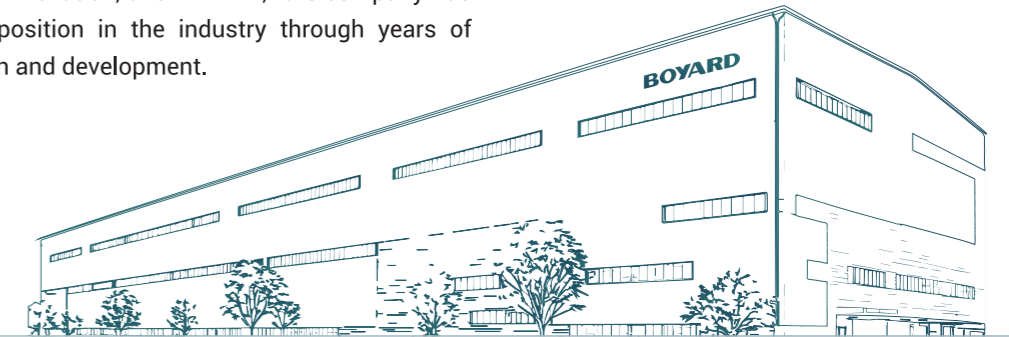
1000000+

Annual production capacity of 1 million units.



Boyard Compressor Co., Ltd., established in 2001, is a national high-tech enterprise specializing in the R&D, production, manufacturing, sales, and service of refrigeration compressors for trucks, new energy vehicles, RVs, mobile cold chain transport vehicles, as well as medium-low temperature compressors and condensing units. Adhering to the core corporate values of "integrity, dedication, innovation, and win-win," the company has achieved a leading position in the industry through years of continuous innovation and development.

About us



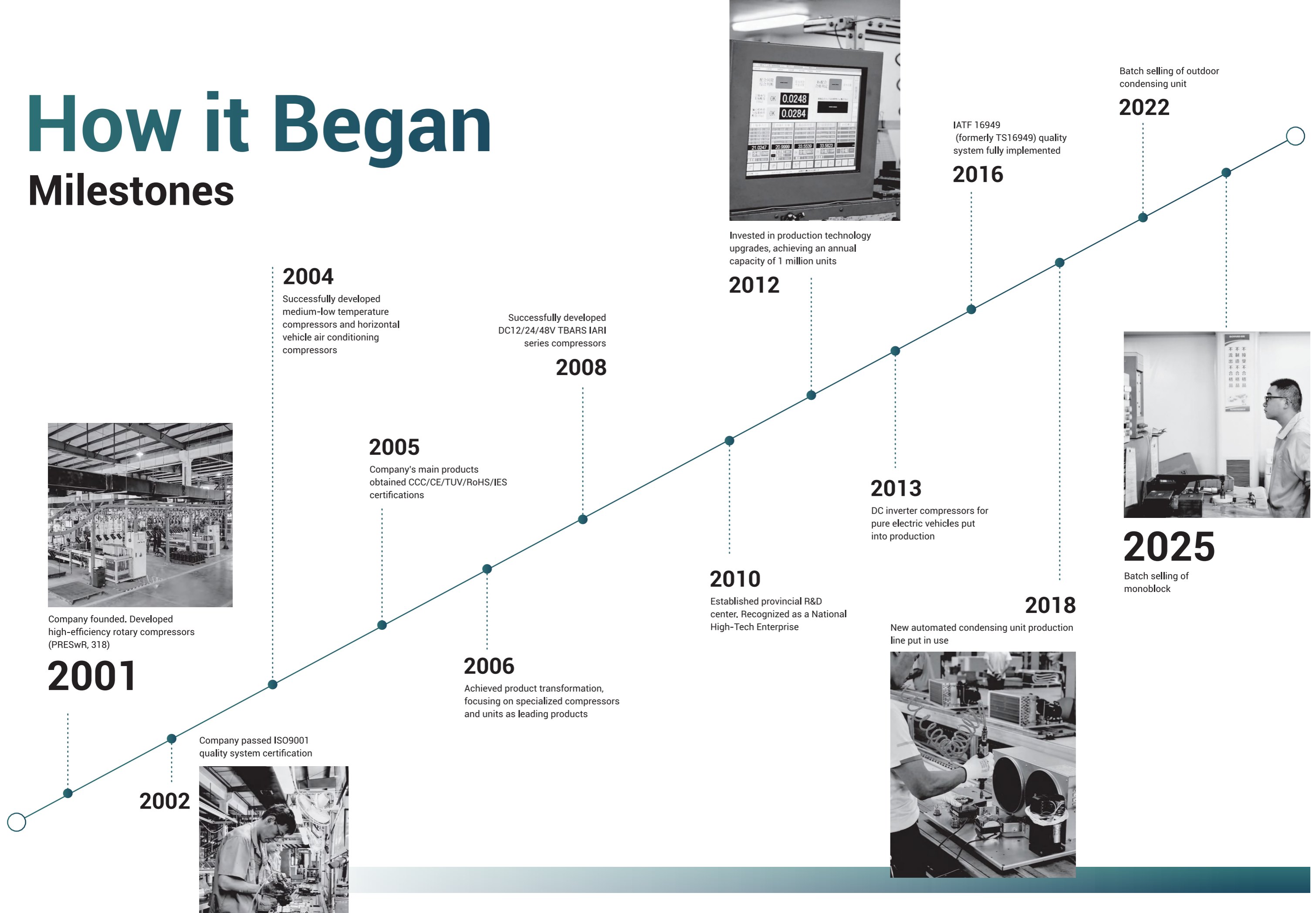
Rooted in technological innovation and advocating green environmental protection, the company's products have been honored as Zhejiang Famous Brand Products. It operates as a provincial-level high-tech enterprise R&D center and serves as a drafting unit for cold chain compressor standards under the National Household Appliance Standardization Technical Committee. The company was also invited to participate in drafting the "Industry Standard for Liquid-Injected Rotary Compressors for Refrigeration and Freezing." With a strong emphasis on independent innovation, the company has been granted 34 patents by the National Patent Office, including 7 invention patents and 29 utility model patents.

The company covers an area of 33,000 m² with a building area of 21,000 m² and employs nearly 300 people. Equipped with modern standard workshops, a technical R&D center, and advanced testing facilities, it holds an industrial product production license and has an annual production capacity of 1 million rotary compressors. The company has established a comprehensive product quality assurance system and an environmental management system, certified with IATF 16949 quality system certification, ISO 14001 environmental management system certification, as well as CCC, CE, UL, RoHS, REACH, and other certifications.

Adhering to the principle of "quality first, reputation first," the company leverages scientific management and strong technical capabilities to continuously deepen reforms, innovate mechanisms, adapt to the market, and achieve comprehensive development. It continually expands the application fields of compressors, which are widely used in commercial refrigerated counters, logistics cold chains, cold storage, dehumidification and drying equipment, liquid cooling, battery thermal management, new energy vehicles, trucks, ships, and other diverse areas. With excellent product cost-effectiveness and a comprehensive after-sales service system, the company has established strong cooperative relationships with numerous domestic and international clients, exporting products to the EU, North America, Australia, the Middle East, Southeast Asia, South Africa, South America, and other regions and countries.

How it Began

Milestones



Company founded. Developed high-efficiency rotary compressors (PRESwR, 318)



Company passed ISO9001 quality system certification



Invested in production technology upgrades, achieving an annual capacity of 1 million units



Batch selling of monoblock



New automated condensing unit production line put in use

Nomenclature

Naming Method 1 HQHD-23KBZP

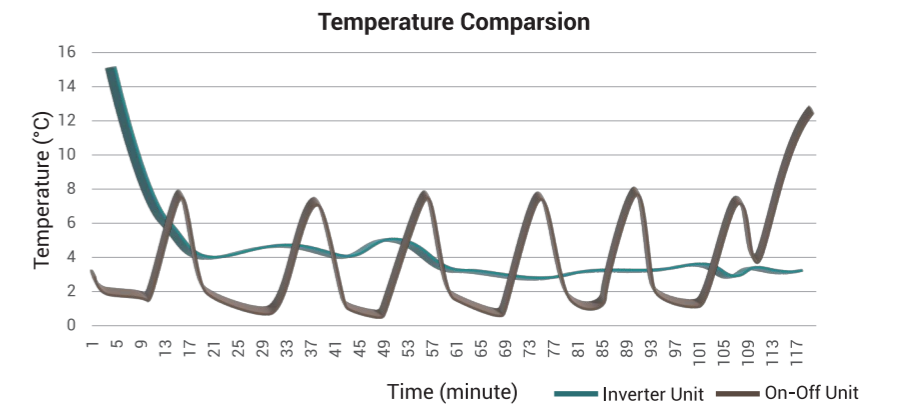
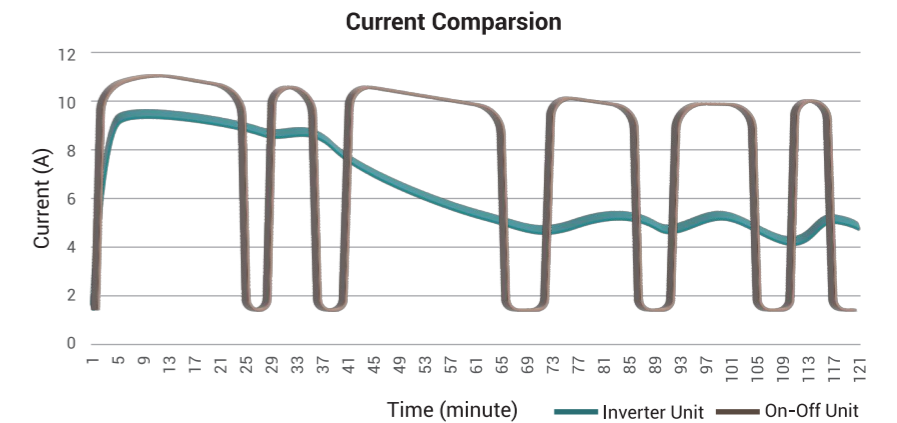
ref	DESCRIPTION	H	Q	H	D	23	K	B	Z	P	
		1	2	3	4	5	6	7	8	9	
1	Condensing Unit										
2	Unit Type	Q-Plug-in Unit, G-Out-Door									
3	Compressor Structure	H-Horizontal, X-Vertical, S-Twins Rotary									
4	Refrigerant	L-R22, C-R407C, D-R404A, A-R410A, B-R134a, P-R290									
5	Displacement cm ³										
6	Power Supply	E-1PH 220V/50Hz, Y-1PH 220V/60Hz, T-1PH 115V/60Hz, K-1PH 220-240V/50Hz, M-3PH 50/60Hz, J-AC Inverter, Z-DC Inverter									
7	Condenser Type	A-Shell and Tube, B-Internal Thread, C-Micro Channel, D-Water-Cooling, N-Without Condenser									
8	Without Stop Valve	None									
	Accumulator	Z									
9	Pressure Control	O-Automatic, P-Manual, I-Stylus									

Naming Method 2 BYGF-025-QXL-SEDP

ref	DESCRIPTION	BYGF	025	QX	L	S	E	D	P	
		1	2	3	4	5	6	7	8	
1	Unit 1 Serial Number	BYGF-Split Box Type, BYGL-Lateral Integration, BYGD-Top Mounted Integrated								
2	Nominal Power of Compressor	025-2.5HP								
3	Compressor Type	QX-BOYARD QX Series, QH-BOYARD QH Series, TH-BOYARD TH Series, ZB-EMERSON ZB Series, ML-Danfoss ML Series, SX-Panasonic Compressor								
4	Applicable Evaporation Temperature Range	H-High Temperature 0~10°C, M-Middle Temperature -15~0°C, D-Low Temperature -15~-35°C, L-Middle and Low Temperature								
5	Condenser Structure	R-Air-Cooled Ejection Wind, S-Air-Cooling Side Ventilation, T-Water Cooling, Evaporative Cooling, N-Non Condenser								
6	Power Supply	E-220V/50Hz, Y-220V/60Hz, M-380V/50Hz, T-115V/60Hz, Z-Variable Frequency								
7	Refrigerant	A-R410A, B-R134a, C-R407C, D-R404A, R-R290, L-R22								
8	Control	Default-Only high and low pressure protection, no electric control. C-Only Master Control, P-With Master Control and Related Control								

Due to the horizontal low profile feature, Boyard system can be easily integrated into the bottom or top of the freezer, without occupying the main storage or display space inside the cabinet. For commercial display cabinets, this allows for the design of larger transparent glass panels or wider access openings, enabling customers to view the products inside more intuitively, thereby enhancing the display effect and sales potential.

COMMERCIAL REFRIGERATION PLUG-IN CABINET



Inverter units achieve precise matching between cooling output and real-time thermal load through stepless speed adjustment, eliminating losses from frequent start-stop cycling. Also, by making minute speed adjustments to compensate for minor heat infiltration, it can maintain chamber or process temperatures within a range of $\pm 1^\circ\text{C}$.

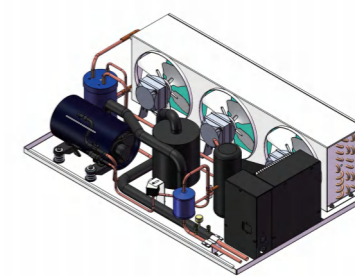
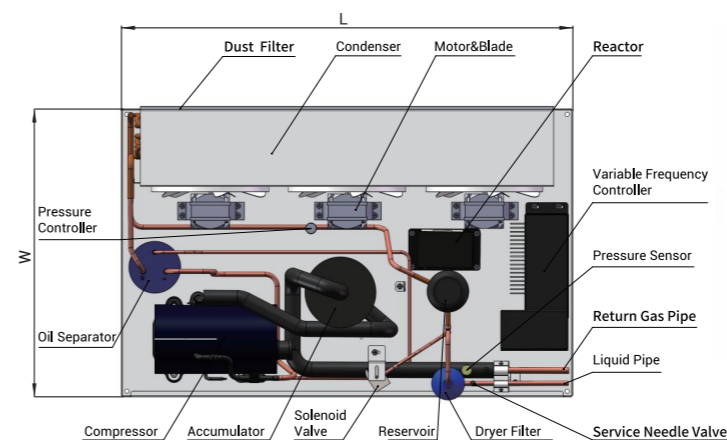


Product Features



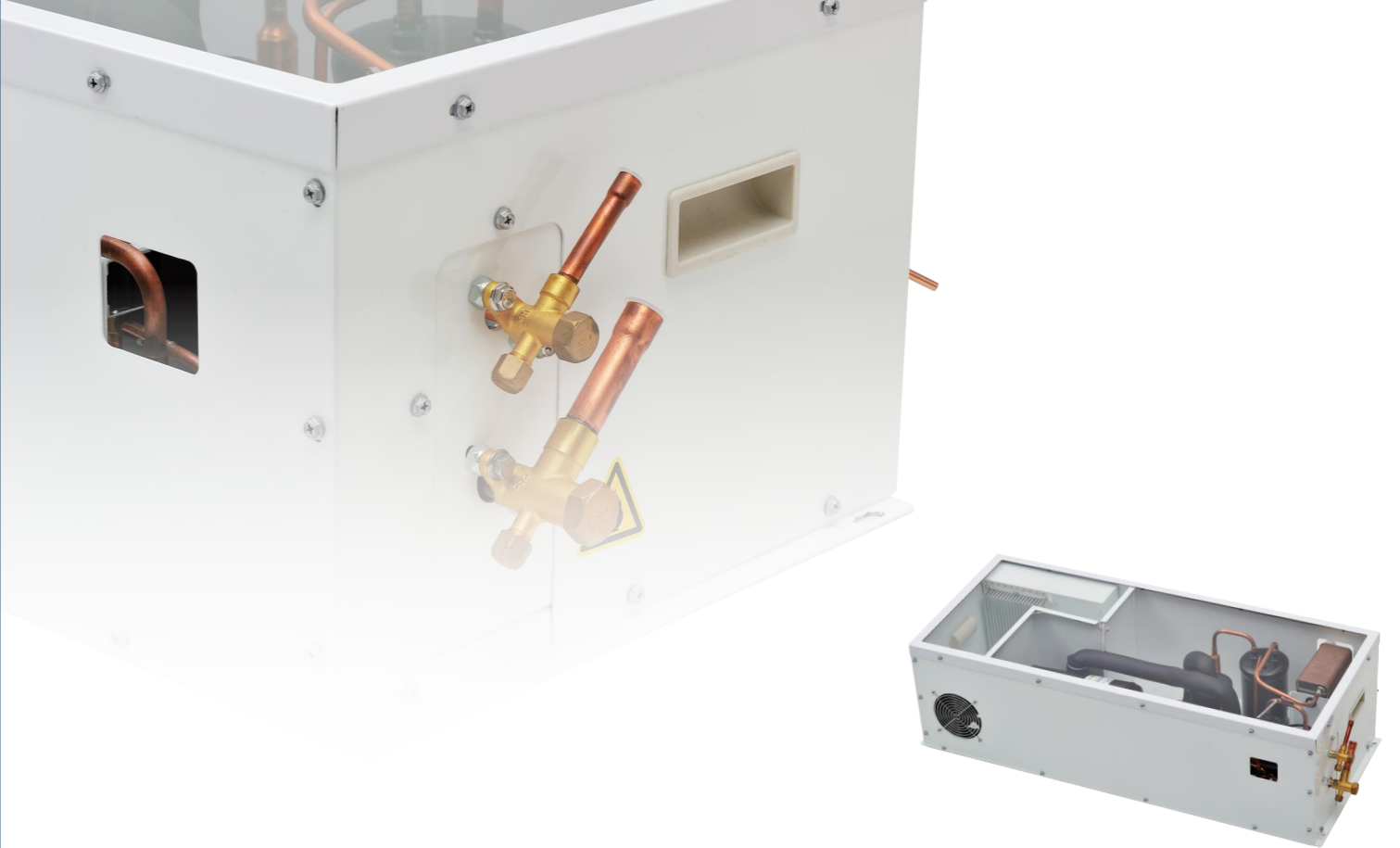
Inverter Unit

- The compressor adjusts its operating frequency based on suction pressure or refrigerated cabinet temperature to reduce the number of start-stop cycles.
- Precise temperature control minimizes suction pressure fluctuations, stabilizes evaporation temperature, and reduces product dehydration.
- Suitable for multiple refrigerated cabinets or cold storage rooms, with quick response to refrigeration load changes.
- Capable of operating within an evaporation temperature range of -40°C to +5°C.
- Configurable control schemes allow selection between target temperature control or suction pressure-based regulation of compressor frequency.



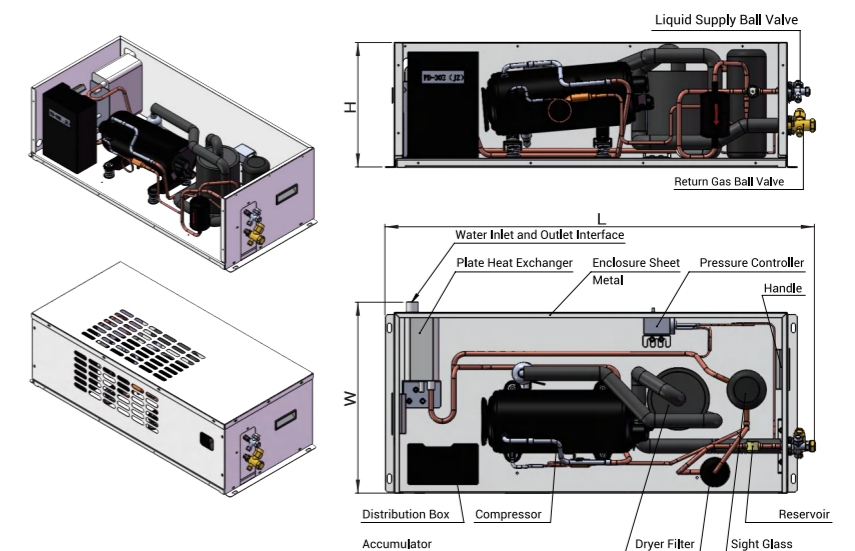
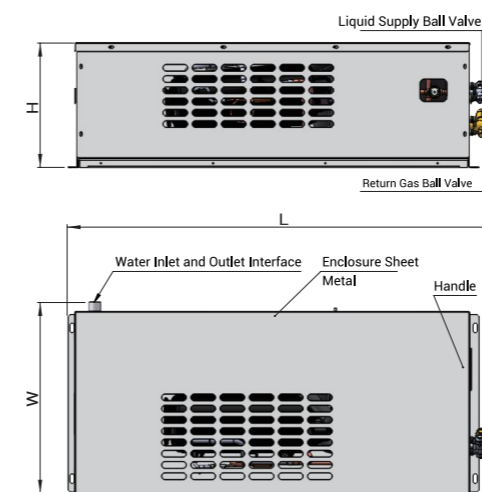
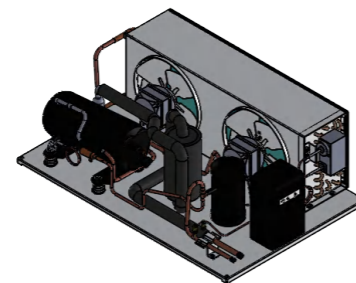
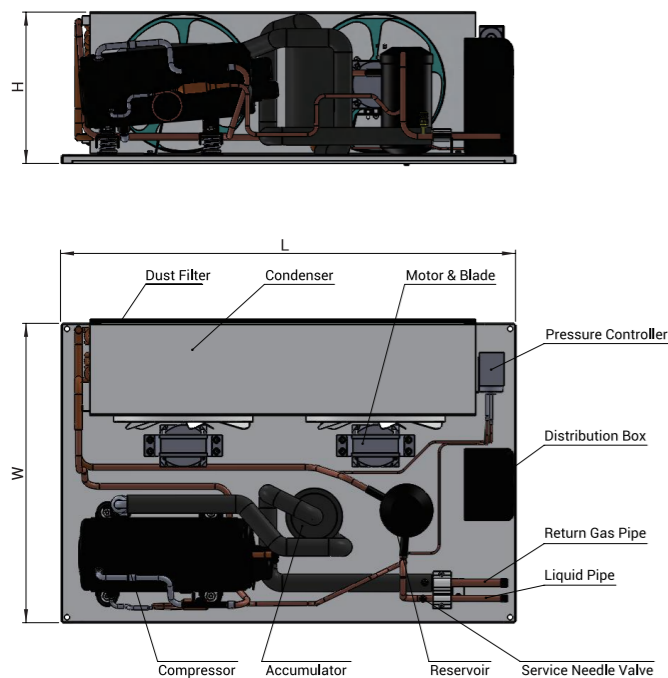
On-Off Units

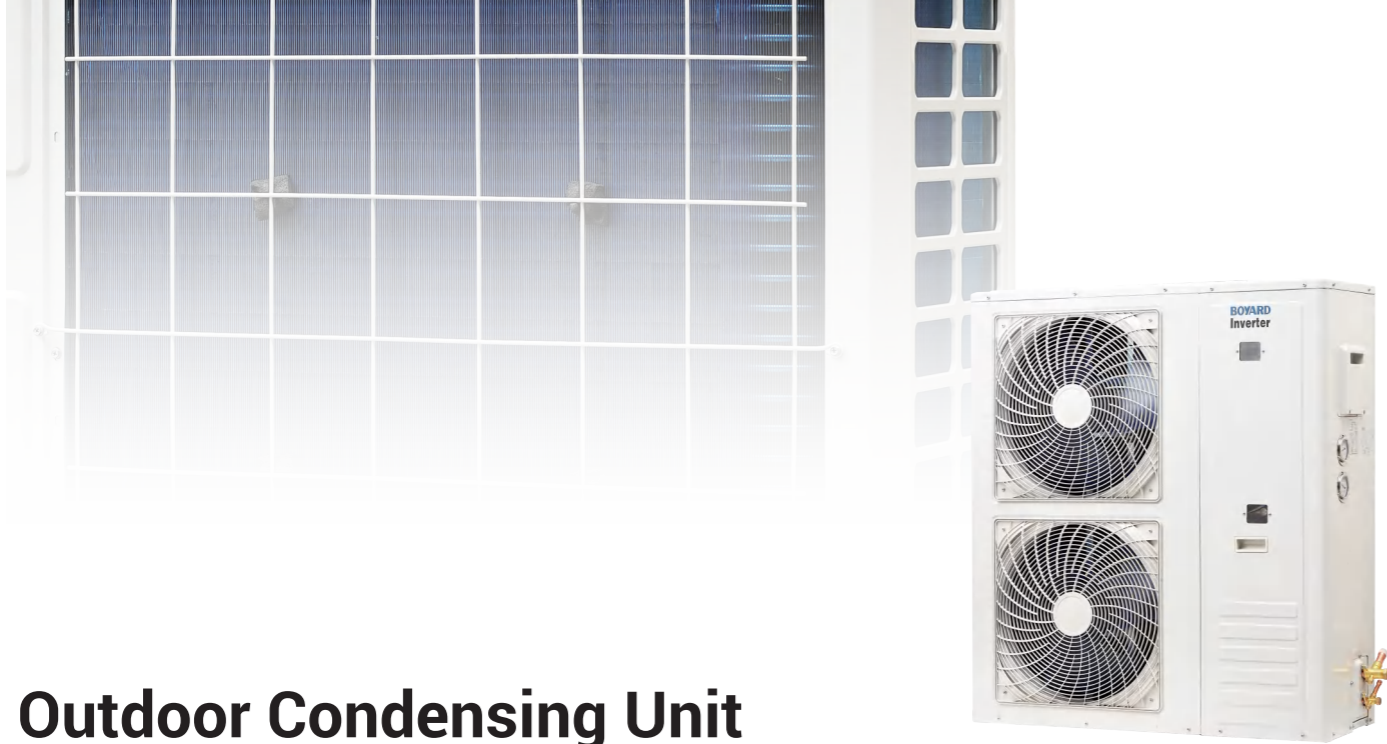
- Suitable for medium to low temperature operating conditions, capable of operating within an evaporation temperature range of -40°C to 5°C.
- Compatible with various power supply specifications, such as 220V~50Hz, 220V~60Hz, and 115V~60Hz.
- Able to meet different horsepower requirements, covering 0.75–3.0 HP.
- Features a compact structure, simple installation, and supports differentiated customization, with an installation height as low as 200mm.



Water-Loop Condensing Unit

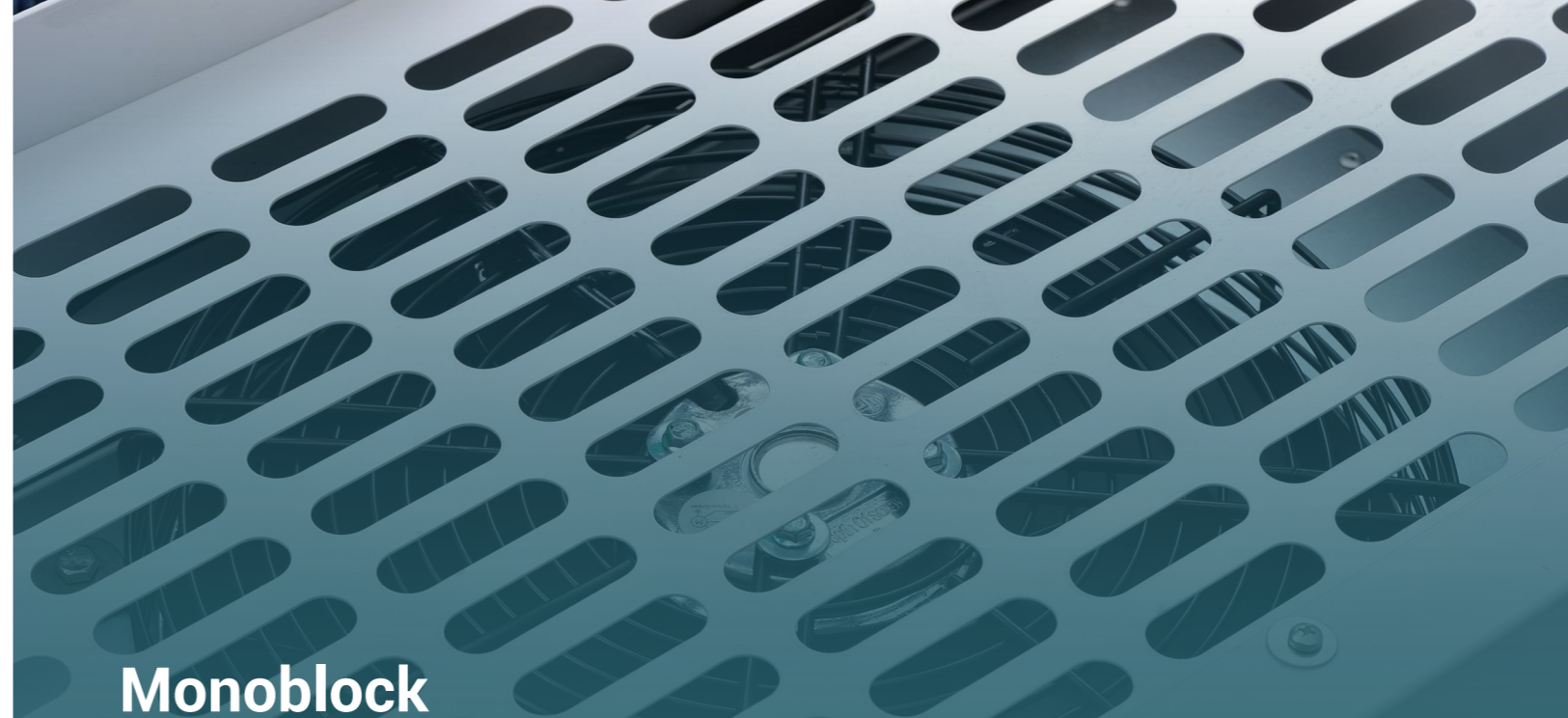
- 60% reduction in refrigerant charge with whisper-quiet operation.
- Optional closed-circuit dry cooler (featuring 1+1 backup pump system) minimizes water loop maintenance.
- Heat exchanger: plate or coaxial.
- Variable speed, energy saving up to 30%.
- Applicable to multi-split system, compact design, small footprint, easy installation.





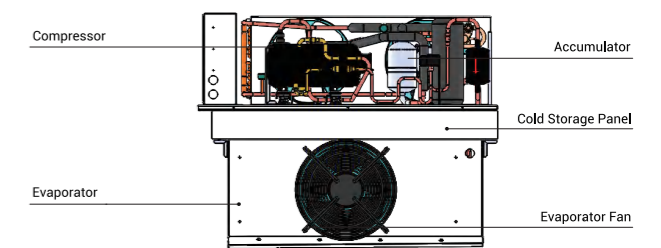
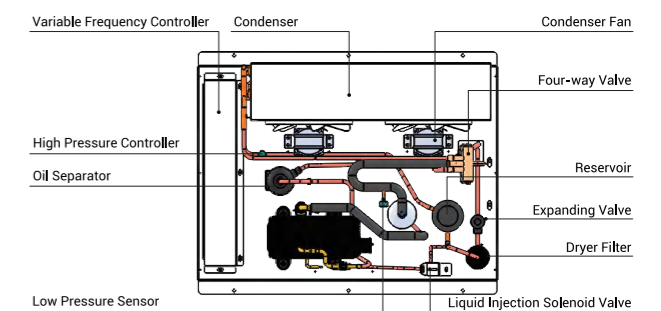
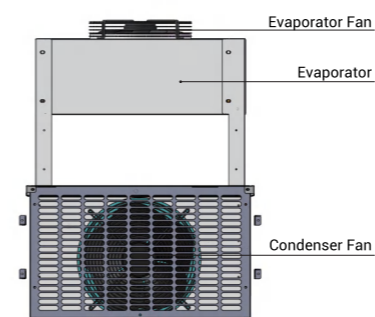
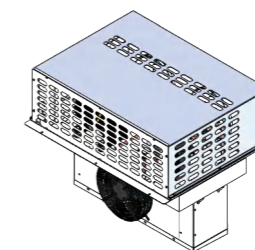
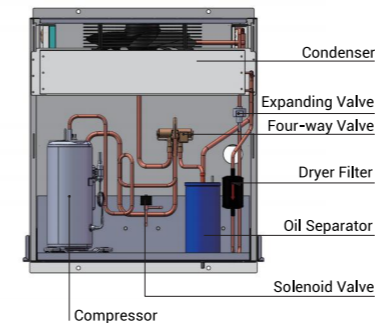
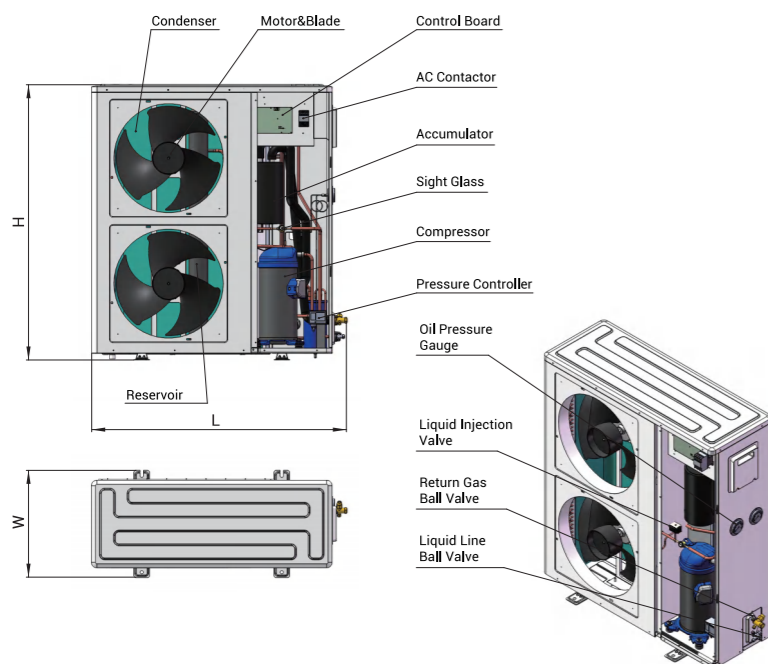
Outdoor Condensing Unit

- The product line includes both fixed-frequency and inverter units, with a horsepower range from 1 to 12 HP.
- Compatible with compressors from multiple brands.
- Features an optimized and upgraded condenser that reduces refrigerant charge requirements while increasing heat exchange surface area by over 20% compared to similar products, enabling reliable operation in ambient temperatures up to 48°C.
- High energy efficiency, with inverter series delivering over 25% energy savings.
- Standard equipment includes a microprocessor control board and sight glass for convenient field debugging.
- Flexible control strategies: frequency can be regulated based on target temperature or low-pressure setpoints. The controller offers open access to internal parameters, allowing manufacturers to perform custom configurations.
- Customized solutions are available to meet specific requirements.

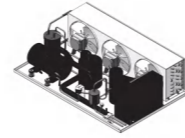


Monoblock

- The product line includes fixed-frequency and inverter monoblock, with horsepower ranging from 1 to 3 HP.
- The inverter monoblock enables rapid cooling and precise temperature control of the cold storage within $\pm 0.5^{\circ}\text{C}$.
- Compatible with refrigerants including R290, R404A, R448A, R449A, and R454C.
- Operational within an evaporating temperature range of -40°C to $+5^{\circ}\text{C}$.
- Simple installation with plug-and-play functionality; no on-site welding or refrigerant charging required.
- Utilizes electronic expansion valves for throttling control.
- Employs a four-way valve for hot gas defrosting, with defrost modes selectable between timed defrost or on-demand defrost.
- Supports self-evaporation of condensate water.

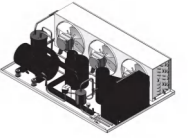


R448A/R449A/R454C Horizontal Inverter Unit



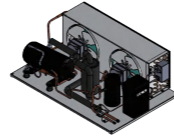
Model			HQSD-210KBI41	HQSD-285KBI40	HQSD-360KBI40	HQSD-460KBI40	HQSD-540KBI40
Nominal Input(W)			1200	1550	1950	2550	2890
Power Supply			1PH 220V 50/60 Hz(380V 50/60Hz 200V 50/60Hz 220V 50/60Hz)				
Refrigerant			R448A / R449A / R454C / R455A / R404A				
Max Refrigerant Charging(kg)			1.8	2.5	3.5	3.5	4.5
Max Running Current(A)			6	10.5	13.5	16.5	20.0
Evap.Temp.(°C)			-40~-5				
Ambient Temp.(°C)			10~43				
Compressor Model			JHSD150Z312	KHSD203Z312	KHSD300Z312	KHSD300Z312	THSD456Z312
Condenser	Style		Copper tube fin condenser or microchannel condenser				
	Fan Motor	Diameter*Quantity(mm)	φ230*2	φ230*3	φ230*3	φ230*4	φ254*4
		Air Flow(m³/hr)	730*2	730*3	730*3	730*4	840*4
Pipe(mm)	Gas Inlet OD		φ12.7(1/2")			φ15.88(5/8")	
	Liquid Outlet OD		φ9.53(3/8")				
Product Dimension(mm)	Length(mm)		790	940	1145	1350	1350
	Width(mm)		600	620	600	600	600
	Height(mm)		251				
Weight(kg)			33.5	47	53	62	62
Cooling Capacity(W)	Evap.Temp.(°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C				
	-40		495	705	830	1105	1260
	-35		600	870	1055	1315	1510
	-30		760	1050	1240	1680	1930
	-25		965	1260	1470	1980	2275
	-20		1325	1775	2115	2780	3210
	-15		1595	2105	2585	3005	3475
	-10		1880	2490	3100	4040	4870
-5		2180	2770	3690	4745	5495	
Wiring Capacity	Residual Current Device	Rated Current(A)	15	20	20	20	20
		Leakage Current(mA)	30	30	30	30	30
	Wire Diameter(mm²)	L≤10m	2.0	4.0	4.0	4.0	4.0
		10<L≤20m	2.5	6.0	6.0	6.0	6.0
		20<L≤30m	2.5	6.0	6.0	6.0	6.0

R290 Horizontal Inverter Unit



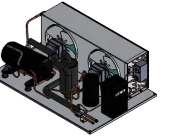
Model			HQSP-210KBI40	HQSP-260KBI41	HQSP-330KBI40	HQSP-400KBI41
Nominal Input (W)			950	1270	1400	1710
Power Supply			1PH 220V 50/60 Hz			
Refrigerant			R290			
Max Refrigerant Charging (kg)			350	400	500	500
Max Running Current t(A)			5.5	7.5	9.5	10.5
Evap.Temp (°C)			-40~-5			
Ambient Temp (°C)			5~43			
Compressor Model			JHSP150Z312	KHSP203Z312	KHSP300Z312	KHSP300Z312
Condenser	Style		Copper tube fin condenser or microchannel condenser			
	Fan Motor	Diameter*Quantity (mm)	φ230*2(EC)	φ230*2(EC)	φ230*3(EC)	φ230*4
		Air Flow (m³/hr)	820*2	820*2	820*3	820*3
Standard Configuration	Pressure Controller (Mpa)		Diaphragm type high pressure switch Low Pressure Sensor or Low Pressure Switch			
	Reservoir		/	0.6L		
	Oil Separator		4808S	BLR/A-W 55833		
	Accumulator		650CC			1L
	Dryer filter		052S		083S	
	Liquid Injection Valve		1/4'			
	Variable Frequency Control Function		Compressor frequency control, electronic expansion valve control, condensing fan control, defrosting control, high and low pressure protection, spray control, exhaust temperature protection, current protection and fault code output.			
Pipe (mm)	Gas Inlet OD		φ12.7(1/2")			φ15.88(5/8")
	Liquid Outlet OD		φ6.35(1/4")			φ9.53(3/8")
Product Dimension (mm)	Length (mm)		680	790	940	1145
	Width (mm)		600	600	600	600
	Height (mm)		263		275	
	Weight (kg)			33	40	50
R290 Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C			
	-40		640	790	860	1040
	-35		805	960	1100	1330
	-30		970	1100	1320	1600
	-25		1150	1320	1500	1810
	-20		1340	1700	1950	2350
	-15		1790	2080	2400	2900
	-10		2240	2420	2800	3380
-5		2430	2700	3200	3750	
Wiring Capacity	Residual Current Device	Rated Current (A)	16	20	20	20
		Leakage Current (mA)	30	30	30	30
	Wire Diameter (mm²)	L≤10m	2.5	2.5	4.0	4.0
		10<L≤20m	2.5	2.5	6.0	6.0
		20<L≤30m	2.5	2.5	6.0	6.0

R448A/R449A/R454C Horizontal 50Hz On-Off Unit



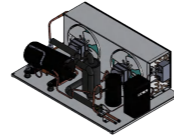
Model	HQHD-13KBP	HQHD-16KBP	HQSD-203KBP	HQHD-23KBP	HQHD-30KBP	HQSD-329KBP20	HQHD-36KBP	HQSD-456KBP		
Nominal Input (W)	820	1000	1175	1540	1910	2010	2130	2800		
Power Supply	1PH 220~240V 50Hz									
Refrigerant	R448A / R449A / R454C / R455A / R404A									
Max Refrigerant Charging (kg)	1.2	1.5	2.0	2.0	3.0	3.0	3.0	3.5		
Start-Up Current (A)	20	27	30	38	42	38	50	65		
Max Running Current (A)	5.0	6.2	8.0	9.2	11	12.0	12.5	16.0		
Evap.Temp (°C)	-40~-5									
Ambient Temp (°C)	0~43									
Compressor Model	QHD-13K	QHD-16K	KHSD203KS	QHD-23K	QHD-30K	THSD329KS	QHD-36K	THSD456KS		
Condenser	Style		Copper tube fin condenser or microchannel condenser							
	Fan Motor	Diameter*Quantity (mm)	φ230*2 (10W*2)	φ230*2 (16W*2)	φ230*2 (16W*2)	φ230*2 (16W*2)	φ230*3 (16W*3)	φ230*3 (16W*3)	φ230*3 (16W*3)	φ230*4 (16W*4)
		Air Flow (m³/hr)	630*2	730*2	730*2	730*2	730*3	730*3	730*3	730*4
Pipe(mm)	Gas Inlet OD		φ12.7(1/2")					φ15.88(5/8")		
	Liquid Outlet OD		φ9.53(3/8")							
Product Dimension (mm)	Length (mm)		680	790	940	1145	1350			
	Width (mm)		485	520	540					
	Height (mm)		263							
Weight (kg)		29	31	35.5	37.5	47	53.5	50.5	60	
R449A Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C							
	-40		325	430	485	550	720	770	810	1145
	-35		445	560	595	715	890	960	1040	1365
	-30		550	650	745	805	1085	1165	1260	1730
	-25		615	775	945	1015	1275	1350	1550	2055
	-20		870	1110	1320	1390	1825	1960	2090	2895
	-15		1045	1420	1575	1650	2170	2315	2555	3150
	-10		1315	1590	1850	2090	2570	2755	3060	4225
	-5		1565	1810	2165	2405	2875	3275	3655	4940
Wiring Capacity	Residual Current Device	Rated Current (A)	16	16	20	20	20	20	20	25
		Leakage Current (mA)	30	30	30	30	30	30	30	30
	Wire Diameter (mm²)	L≤10m	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
		10<L≤20m	2.5	2.5	2.5	2.5	6.0	6.0	6.0	6.0
		20<L≤30m	2.5	2.5	2.5	2.5	6.0	6.0	6.0	6.0

R448A/R449A/R454C Horizontal 60Hz On-Off Unit



Model	HQHD-135YBI01	HQHD-164YBI01	HQHD-236YBI01	HQHD-307YBI01	HQHD-357YBI01	HQHD-135TBI	HQSD-203TBI		
Nominal Input (W)	1020	1130	1740	2100	2640	1020	1500		
Power Supply	1PH 220V 60Hz					1PH 115V 60Hz			
Refrigerant	R448A / R449A / R454C / R455A / R404A								
Max Refrigerant Charging (kg)	1.5	2.0	2.5	3.0	3.0	1.5	2.5		
Start-Up Current (A)	26	30	40	52	60	53	68		
Max Running Current (A)	5.5	6.5	9.5	12	14.5	10.5	15		
Evap.Temp (°C)	-40~-5								
Ambient Temp (°C)	0~43								
Compressor Model	KHD135YS	KHD164YS	SHD236YS	THD307YS	THD357YS	KHD135TS	KHSD203TS		
Condenser	Style		Copper tube fin condenser or microchannel condenser						
	Fan Motor	Diameter*Quantity (mm)	φ230*2 (16W*2)	φ230*2 (16W*2)	φ230*3 (16W*3)	φ230*3 (16W*3)	φ230*4 (16W*4)	φ230*2 (18W*2)	φ230*2 (18W*2)
		Air Flow (m³/hr)	750*2	750*2	750*3	750*3	750*4	750*2	750*2
Pipe(mm)	Gas Inlet OD		φ12.7(1/2")						
	Liquid Outlet OD		φ9.53(3/8")						
Product Dimension (mm)	Length (mm)		680	790	940	1145	1350	680	790
	Width (mm)		520			540	520		
	Height (mm)		251						
Weight (kg)		32	34	42	53	60	32	38	
R449A Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C						
	-40		420	470	665	840	1040	420	570
	-35		545	720	825	1075	1240	545	710
	-30		630	715	1005	1260	1575	630	865
	-25		755	905	1175	1485	1890	755	1005
	-20		1065	1250	1670	2140	2610	1065	1435
	-15		1360	1500	1970	2630	2820	1360	1690
	-10		1525	1755	2350	3145	3805	1525	2020
	-5		1735	2115	2820	3760	4465	1735	2425
Wiring Capacity	Residual Current Device	Rated Current (A)	16	16	20	20	20	20	20
		Leakage Current (mA)	30	30	30	30	30	30	30
	Wire Diameter (mm²)	L≤10m	2.5	2.5	2.5	2.5	4.0	4.0	4.0
		10<L≤20m	2.5	2.5	2.5	2.5	6.0	6.0	6.0
		20<L≤30m	2.5	2.5	2.5	2.5	6.0	6.0	6.0

R290 Horizontal On-Off Unit



Model		HQHP-06KBI01	HQSP-12KBI01	HQHP-16KBI01	HQSP-18KBI01	HQSP-20KBI01	HQHP-23KBI01	HQHP-33KBI01	
Power Supply		1PH 220~240V 50/60 Hz							
Refrigerant		R290							
Max Refrigerant Charging (kg)		150	150	150	350	400	400	500	
Start-Up Current (A)		8.8	12	21	21	29	29	50	
Max Running Current (A)		2.1	3.5	4.5	5.5	6	8	10	
Evap.Temp (°C)		-40~-5							
Ambient Temp (°C)		10~43							
Compressor Model		JHP058K	JHSP116KS	KHP164KS	KHSP176KS	KHSP203KS	SHP236KS	THSP329KS	
Condenser	Style		Copper tube fin condenser or microchannel condenser						
	Fan Motor	Diameter*Quantity (mm)	φ230*1 (15W*1)	φ230*1 (15W*1)	φ230*2 (15W*2)			φ230*3 (15W*3)	
		Air Flow (m³/hr)	730		730*2			730*3	
Pipe (mm)	Gas Inlet OD		φ9.53 (3/8")			φ12.7(1/2")			
	Liquid Outlet OD		6.35 (1/4")			φ9.53 (3/8")			
Product Dimension (mm)	Length (mm)		460	680	790	940			
	Width (mm)		500	485	520	520			
	Height (mm)		263			275			
R290 Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C						
	-40		160	300	440	465	500	570	790
	-35		210	395	570	605	645	740	980
	-30		245	455	660	700	725	830	1200
	-25		290	540	785	830	910	1040	1380
	-20		365	685	995	1055	1150	1260	1780
	-15		470	880	1270	1345	1315	1500	2100
	-10		525	980	1420	1505	1665	1900	2500
	-5		605	1125	1630	1730	1930	2200	3000
Wiring Capacity	Residual Current Device	Rated Current (A)	16	16	16	16	20	20	20
		Leakage Current (mA)	30	30	30	30	30	30	30
	Wire Diameter (mm²)	L≤10m	1.5	1.5	2.5	2.5	2.5	2.5	4.0
		10<L≤20m	1.5	1.5	2.5	2.5	2.5	2.5	6.0
20<L≤30m		1.5	1.5	2.5	2.5	2.5	2.5	6.0	

2-8HP MBP/LBP Variable Frequency Water-Loop Condensing Unit



Model		BYGF-010-QHL-TZDP(TZPP)	BYGF-020-QHL-TZDP(TZPP)	BYGF-030-QHL-TZDP(TZPP)	BYGF-040-QHL-TZDP	BYGF-060-HIL-TZDP	BYGF-080-HIL-TZDP
Power Supply		1PH 220V 50/60 Hz (3PH 220V 50/60 Hz)			3PH 380V 50/60 Hz		
Inverter Control Scheme		Frequency control based on the thermostat or low-pressure signal.					
HP Compressor		1 HP	2 HP	3 HP	4 HP	6 HP	8 HP
Refrigerant		R404A/R448A/R449A/A2L R290					
Evap. Temp(°C)		-40~-5					
Standard Configuration	Pressure Controller (Mpa)	Diaphragm type high pressure switch					
	Reservoir	1.1L			2L	6L	
	Dryer Filter	083S			084S	165S	
	Sight Glass	3/8			1/2"	5/8"	
	Oil Separator	BLR/A-W 55833			BLR/A-W 55824		
	Accumulator	1L			3.5L		
	Liquid Injection Valve	Liquid injection solenoid valve or electronic expansion valve					
Electric Control	Circuit Breaker	D63					
	Variable Frequency Control Function	Compressor inverter control, electronic expansion valve control, condenser fan control, defrost control, high and low pressure protection, liquid injection control, discharge temperature protection, current protection, and fault code output.					
Pipe(mm)	Gas Inlet OD	1/2"(12.7)	5/8"(15.88)	3/4"(19.05)	7/8"(22.22)		
	Liquid Outlet OD	3/8"(9.53)			1/2"(12.7)	5/8"(15.88)	
Water Inlet and Outlet Interface Dimension		DN20		DN32		DN40	
Product Dimension (mm)		990*420*280			1150*440*280	800*500*660	
Installation Dimension (mm)		950*335			1100*335	750*335	
Personalization Options	Solenoid Valve	3/8"(9.53)			1/2"(12.7)	5/8"(15.88)	
	Crankshaft Heating Belt	25W			28W	40W	
R449A Cooling Capacity(W)	Evap. Temp (°C)	Test conditions: GB/T 21363-2018 Inlet Water Temperature:30°C Outlet Water Temperature:35°C Subcooling Temp:0°C Suction Temp:18°C					
	-40	540	770	1145	1455	2520	3820
	-35	665	965	1365	1805	3080	4550
	-30	820	1130	1730	2210	3780	5415
	-25	1075	1410	2125	2730	4700	6565
	-20	1540	2065	3055	3810	6670	9020
	-15	1850	2440	3525	4660	8225	10810
	-10	2190	2910	4555	5615	10055	13160
	-5	2585	3290	5495	6935	12500	14910
R290 Cooling Capacity(W)	Evap. Temp (°C)	Test conditions: GB/T 21363-2018 Inlet Water Temperature:30°C Outlet Water Temperature:35°C Subcooling Temp:0°C Suction Temp:18°C					
	-40	545	780	1160	/	/	/
	-35	675	975	1380	/	/	/
	-30	830	1145	1750	/	/	/
	-25	1090	1425	2150	/	/	/
	-20	1390	1870	2760	/	/	/
	-15	1670	2210	3185	/	/	/
	-10	1980	2635	4120	/	/	/
	-5	2335	2975	4970	/	/	/

Technical Data of Dry-Cooler Unit

Model	BYGF-040-TEP-03	BYGF-070-TEP-03	BYGF-100-TMP-03	BYGF-120-TMP-03	BYGF-150-TMP-03	BYGF-200-TMP-03						
Power Supply	1HP 220V 50Hz (1HP 220V 60Hz Optional)		3HP 380V 50Hz (3HP 380V 60Hz Optional)									
Heat Transferring Medium	Pure Water or Glycol mixture											
Ambient Temp (°C)	-20~43											
Water Discharge (m³/h)	2.5	3.5	5.0	6.0	8.0	10.0						
Heat Exchange Amount (KW)	Ambient Temp.:31.5°C Inlet Water Temp.:37°C Outlet Water Temp.:32°C											
	11	19	28	32	40	56						
Standard Configuration	Water pump	Nanfeng Pumps / Grundfos Pumps (One for backup and one for use)										
	Dry-Cooler	Copper tube fin dry-Cooler										
	Fan Motor	Diameter*Quantity (mm)	φ450*1	φ450*2	φ500*2	φ500*2	φ600*2	φ630*2				
		Air Flow (m³/hr)	5300	7600	12200	12200	21000	21000				
	Flow Switch	Piston flow switch										
	Swell can	5L	8L	12L	19L							
	Vent Valve	Automatic exhaust valve										
	Function Valve	Check valve / Water pump maintenance valve / Water inlet valve / Outlet interface valve / Fill water valve / Outfall valve										
	Filter	DN32	DN40	DN50	DN63							
	Personalization Options	Function Gage	Pressure Gage / Thermometer / Water Flow Indicator									
Control Box ③		Phase sequence protection, Water shortage protection, Motor thermal protection, Condenser fan speed regulation, Fault code output, Automatic timed pump switching or manual pmp Switching, pump overheating protection, Pump operation fault alarm.and other functions.										
Electric Control	AC Contactor	18/01										
	Control board	Phase sequence protection, Water shortage protection, Motor thermal protection, Condensing fan speed regulation, Fault code output and other functions.										
Interface Size	Water Inter Size	DN32	DN40	DN50	DN63							
	Water Outlet Size	DN32	DN40	DN50	DN63							
	Fill Wate Sizer	DN25										
	Length (mm)	DN25										
Dimension (mm)	Outfall Size	1250	1550	2150	2200							
	Width (mm)	650	750	1150	1500							
	Height (mm)	1200	1580	1950	1130	1200						
Installation Dimension (mm)	Length*Width (mm)		580*610		680*610		1500*1120	1500*1470				
Packaging Dimension (mm)	Length*Width*Height (mm)						1350*720*1380	1350*820*1760	1650*820*1760	1650*820*2130	2250*1250*1200	2300*1600*1380

1-3HP MBP/LBP Fixed Frequency Outdoor Condensing Unit



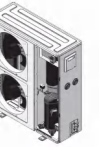
Model	BYGF-010-QXD-SEDP-**	BYGF-015-QXD-SEDP-**	BYGF-020-QXD-SEDP-**	BYGF-025-QXD-SEDP-**	BYGF-030-QXD-SEDP-**	BYGF-030-QXD-SMDP-**	
Power Supply	1PH 220V/50Hz					3PH 380V 50Hz	
HP Compressor	1 HP	1.5 HP	2HP	2.5 HP	3 HP	3 HP	
Refrigerant	R448A / R449A / R454C / R455A / R404A						
Max Refrigerant Charging (kg)	1.5	2.0	2.5	3.0	3.5	3.5	
Evap.Temp (°C)	-40~-5						
Ambient Temp (°C)	-15~46			-15~46			
Standard Configuration	Compressor Model	QXD-16K	QXD-23K	QXD-30K	QXD-36K	TXSD456KS	XFV25B
	Pressure Controller (Mpa)	Diaphragm type high pressure switch and low pressure switch					
	Fam Motor	40W*1			65W*1		
	Reservoir	0.8			2.5L		
	Sight Glass	3/8					
	Oil Pressure Gauge	High pressure oil pressure gauge and low pressure oil pressure gauge					
	Dryer Filter	083S					
	Personalization Options	Accumulator	0.6L		1L		
		Solenoid Valve	3/8				
		Crankshaft Heating Belt	25W		28W		40W
Air Cooler		HQHD-16KB-ZF-01	HQHD-23KB-ZF-01	HQHD-36KB-ZF-01		HQHD-456KB-ZF-01	
Cold storage electrical box		The distribution box is integrated on the outdoor unit side and uses hot gas defrosting. The external dimensions of the 1.5HP unit need to be increased.					
Electric Control	AC Contactor	18/01			25/01		
	Control board	Phase sequence protection and phase loss protection, exhaust temperature protection, liquid injection control, condensing fan speed control, fault code alarm output, and fan start/stop control.					
Pipe (mm)	Gas Inlet OD	1/2"(12.7)			5/8"(15.88)		
	Liquid Outlet OD	1/4"(6.35)		3/8"(9.53)			
R449A Cooling Capacity (W)	Product Dimension (mm)	900*350*610			950*420*800	1015*420*850	
	Installation Dimension (mm)	500*320			615*390	580*385	
R449A Cooling Capacity (W)	Evap.Temp (°C)	Test Conditions: GB/T 21363-2018 Ambient Temp.:32°C Subcooling Temp.:0°C Suction Temp.:18°C					
	-40	445	560	735	820	1145	1205
	-35	585	730	920	1050	1365	1435
	-30	670	820	1130	1215	1730	1815
	-25	810	1030	1300	1450	2085	2195
	-20	1130	1395	1860	2045	2880	3030
	-15	1440	1645	2230	2520	3300	3470
	-10	1625	2090	2600	3020	4205	4425
	-5	1860	2415	2925	3625	5055	5320

2-8HP MBP/LBP Variable Frequency Outdoor Condensing Unit



Model	BYGF-020-QXL-SZDP-08	BYGF-030-QXL-SZDP-08	BYGF-040-QXL-SZDP-08	BYGF-060-HIL-SZDP-08	BYGF-080-HIL-SZDP-08	
Power Supply	1PH 220V 50/60 Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)			3PH 380V 50/60 Hz		
Inverter Control Scheme	Frequency control based on the thermostat or low-pressure signal.					
HP Compressor	2 HP	3 HP	4 HP	6 HP	8 HP	
Refrigerant	R449A / R448A / R454C / R455A / R404A					
Evap Temp.(°C)	-40~-5					
Standard Configuration	Compressor Model	BOYARD KXSD203Z312	BOYARD KXSD300Z312	BOYARD TXSD456Z312	HITACHI LS400DHD-64D	HITACHI LS600DHD-90D
	Fan Motor	φ480*1	φ480*1	φ480*1	φ480*2	φ480*2
	Pressure Controller(Mpa)	Diaphragm type high pressure switch / Low pressure sensor or low pressure switch				
	Reservoir	2.5L			6L	
	Dryer Filter	083S		084S		165S
	Sight Glass	3/8		1/2"		5/8"
	Oil Pressure Gauge	High pressure gauge and low pressure gauge				
	Liquid Valve	Liquid injection solenoid valve or electronic expansion valve				
	Electric Control	Circuit Breaker	D63			
Variable Frequency Control Function		Compressor inverter control, electronic expansion valve control, condenser fan control, defrost control, high and low pressure protection, liquid injection control, discharge temperature protection, current protection, and fault code output.				
Pipe(mm)	Gas Inlet OD	5/8"(15.88)	3/4"(19.05)	7/8"(22.22)		
	Liquid Outlet OD	3/8"(9.53)	1/2"(12.7)		5/8"(15.88)	
Product Dimension(mm)	1015*420*850		1180*490*860	1200*490*1250		
Installation Dimension(mm)	580*385		640*440			
Personalization Options	Solenoid Valve	3/8"(9.53)	1/2"(12.7)		5/8"(15.88)	
	Oil Separator	BLR/A-W 55833		BLR/A-W 55824		
	Accumulator	1L			3.5L	
	Crankshaft Heating Belt	25W	28W	40W		
R449A Cooling Capacity(W)	Evap Temp.(°C)	Test Conditions: GB/T 21363-2018 Ambient Temp.:32°C Subcooling Temp.:0°C Suction Temp.:18°C				
	-40	770	1145	1455	2520	3820
	-35	965	1365	1805	3080	4550
	-30	1130	1730	2210	3780	5415
	-25	1385	2085	2685	4620	6440
	-20	1970	2910	3715	6345	8600
	-15	2310	3335	4505	7755	10150
	-10	2740	4250	5465	9400	12220
	-5	3055	5110	6585	11560	14380

2-13HP MBP Fixed-Frequency Outdoor Condensing Unit



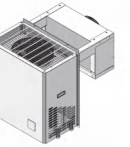
Model	BYGF-020-ZBM-SMDP-01L	BYGF-030-ZBM-SMDP-01L	BYGF-040-ZBM-SMDP-01L	BYGF-050-ZBM-SMDP-01L	BYGF-060-ZBM-SMDP-01L	BYGF-070-ZBM-SMDP-01L	BYGF-080-ZBM-RMDP	BYGF-100-ZBM-RMDP	BYGF-130-ZBM-RMDP	
Power Supply	3PH 380V 50Hz									
HP Compressor	2 HP	3 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10 HP	13 HP	
Refrigerant	R448A / R449A / R454C / R455A / R404A									
Evap.Temp (°C)	-20~10									
Ambient Temp (°C)	-15~45									
Standard Configuration	Compressor Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB76KQE	ZB95KQE
	Pressure Controller (Mpa)	Diaphragm type high pressure switch and low pressure switch. Use a low-pressure pressure switch to control compressor start/stop; the brand must be Danfoss or SAGINOMIYA.								
	Fan Motor	65W*1		65W*2	90W*2	550W	460W*2			
	Reservoir	2.5L			6L			10 L	14L	
	Dryer Filter	083S			084S			165S		
	Sight Glass	3/8			1/2"			5/8"		
	Oil Pressure Gauge	High pressure oil pressure gauge+Low pressure oil pressure gauge								
	Liquid Injection Valve	Liquid Injection Valve or Electronic expansion valve								
	Crankshaft heating belt	40W						90W		
	Electric control	AC contactor	18/01					25/01	32/01	
		Control Board	Phase sequence protection and phase loss protection, discharge temperature protection, liquid injection control, condenser fan speed control, fault code alarm output, and other functions.							
Pipe (mm)	Gas Inlet OD	5/8"(15.88)	3/4"(19.05)	7/8"(22.22)			1 1/8"(28.58)			
	Liquid Outlet OD	3/8"(9.53)			1/2"(12.7)			5/8"(15.88)		
Product Dimension (mm)	1015*420*850			1015*420*1250			1000*810*1230	1400*810*1230		
Installation Dimension (mm)	580*385						450*760	900*760		
Personalization Options	Oil Separator	BLR/A-W 55833			BLR/A-W 55824			BLR/A-W 55877		
	Refrigeration Solenoid Valve	3/8"(9.53)			1/2"(12.7)			5/8"(15.88)		
	Accumulator	1L				3.5L			10.5L	
R449A Cooling Capacity (W)	Evap.Temp (°C)	Test Conditions: GB/T 21363-2018 Ambient Temp.:32°C Subcooling Temp.:0°C Suction Temp.:18°C								
	-20	2090	3250	4450	5600	6600	7200	8350	11300	13750
	-15	2570	3950	5300	6700	7900	8650	10300	13950	17000
	-10	3120	4650	6350	8000	9350	10300	12350	16250	20450
	-5	3720	5550	7500	9450	11150	12150	17450	19500	24150
	0	4410	6500	8800	11150	13000	14300	17200	22950	28050
5	5110	7550	10200	12900	15250	16700	19950	26650	32600	

3-13HP LBP Fixed-Frequency Outdoor Condensing Unit



Model	BYGF-020-ZSL-SMDP	BYGF-030-ZSL-SMDP	BYGF-040-ZSL-SMDP	BYGF-050-ZSL-SMDP	BYGF-060-ZSL-SMDP	BYGF-075-ZFL-SMDP	BYGF-080-ZFL-RMDP	BYGF-100-ZFL-RMDP	BYGF-130-ZFL-RMDP		
Power Supply	3PH 380V 50Hz										
HP Compressor	2 HP	3 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10 HP	13 HP		
Refrigerant	R448A / R449A / R454C / R455A / R404A										
Evap.Temp (°C)	-40~-5										
Ambient Temp (°C)	-15~48										
Standard Configuration	Compressor Model	ZSI Series	ZSI 06KQE	ZSI 09KQE	ZSI 11KQE	ZSI 15KQE	ZSI 18KQE	/	/	/	
		ZF Series	ZF 06KQE	ZF09 KQE	ZF13 KQE	ZF15 KQE	ZF18 KQE	ZF25KQE	ZFI36KQE	ZFI50KQE	ZFI59KQE
Personalization Options	Pressure Controller (Mpa)	Diaphragm type high pressure switch and low pressure switch. Use a low-pressure pressure switch to control compressor start/stop; the brand must be Danfoss or SAGINOMIYA.									
	Fam Motor	65W*1			65W*2		65W*2		65W*2		65W*2
	Reservoir	2.5L			4L		6L		10 L		12 L
	Dryer filter	083S			084S		165S				
	Sight Glass	3/8			1/2"		5/8"				
	Oil Pressure Gauge	High pressure oil pressure gauge and low pressure oil pressure gauge									
	Liquid Injection Valve	Liquid Injection Valve or Electronic expansion valve									
	Accumulator	1L			3.5L			11.2 L			
	Crankshaft Heating Belt	40W						90W			
	Electric Control	AC Contactor	18/01						32/01		
Control Board		Phase sequence protection and phase loss protection, discharge temperature protection, liquid injection control, condenser fan speed control, fault code alarm output, and other functions.									
Pipe (mm)	Gas Inlet OD	5/8"(15.88)		3/4"(19.05)		7/8"(22.22)		1 1/8"(28.58)		1 3/8"(34.93)	
	Liquid Outlet OD	3/8"(9.53)			1/2"(12.7)		5/8"(15.88)				
Product Dimension (mm)	1015*420*850			1015*420*1250		1200*490*1250		1000*810*1230		1400*810*1230	
Installation Dimension (mm)	580*385					640*440		450*760		900*760	
Personalization Options	Oil Separator	BLR/A-W 55833			BLR/A-W 55824			BLR/A-W 55877			
	Refrigeration Solenoid Valve	3/8"(9.53)			1/2"(12.7)			5/8"(15.88)			
R449A Cooling Capacity (W)	Evap.Temp (°C)	Test Conditions: GB/T 21363-2018 Ambient Temp.:32°C Subcooling Temp.:0°C Suction Temp.:18°C									
	-40	920	1250	1700	2200	2700	3200	4700	6550	7950	
	-35	1160	1550	2100	2800	3400	3900	5750	7700	9400	
	-30	1410	2100	2600	3750	4550	4800	7000	9300	11300	
	-25	1710	2350	3150	4200	5050	5850	8300	11300	14400	
	-20	2090	3100	4250	5600	6600	7800	10650	14850	18100	
	-15	2570	3600	5150	6700	7900	9250	12550	17450	21350	
	-10	3120	4400	6250	8000	9350	10800	14850	20450	24600	
-5	3720	5200	7550	9450	11150	12450	16700	23300	27900		

R448A/R449A/R454C MBP/LBP Variable Frequency Wall-Mounted Monoblock



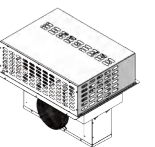
Model	BYGY-010-QXD-RZDP	BYGY-015-QXD-RZDP	BYGY-020-QXD-RZDP	BYGY-030-QXD-RZDP	BYGY-040-QXD-RZDP		
Nominal Input (W)	1120	1465	2020	2610	3200		
Power Supply	1PH 220V 50/60 Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)						
Refrigerant	R449A / R448A / R454C / R455A / R404A						
Max Running Current (A)	6.2	10.5	13.5	16.5	20.0		
Evap. Temp (°C)	-40~-5						
Ambient Temp (°C)	-20~43						
Standard Configuration	Compressor(Model)	JXSD150Z312	KXSD203Z312	KXSD300Z312	KXSD300Z312	TXSD456Z312	
	Condenser	Style					
		Fan Motor	Copper tube fin condenser or microchannel condenser				
			Diameter*Quantity(mm)	φ300*1	φ300*1	φ350*1	φ300*2
	Air Flow (m³/hr)	1800/2000	1800/2000	2500/2800	3600/4000	3600/4000	
	Evaporator	Style					
		Fan Motor	Copper tube fin evaporator				
			Diameter*Quantity(mm)	φ250*1	φ300*1	φ300*1	φ300*2
	Air Flow (m³/hr)	1100/1250	1800/2000	1800/2000	3600/4000	3600/4000	
	Pressure Controller (Mpa)	Diaphragm type high pressure switch / Low pressure sensor					
	Accumulator	/	650cc	1L			
	Reservoir	2L					
	Sight Glass	3/8"					
	Oil Extractor	TDW-4808S		BLR/A-W 55833			
	Filter Drier	083S					
	Check Valve	3/8"					
	Expansion Valve	Electronic Expansion Valve / Thermostatic Expansion Valve					
	Liquid Injection Valve	1/4"					
	Four-way Valve	SHF7		SHF9			
	Defrosting Heating Element	350W		500W			
Defrosting Heating Belt	25W/m, 1.5m		25W/m,3m				
Electric Control	AC Contactor	18/01					
	Air Switch	2P NXB-63 D32					
	Configurable Functions	Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions					
Variable Frequency Control	Compressor frequency control, Electronic expansion valve control, Condensing fan control, Evaporating fan control, Defrosting control, High and low pressure protection, Spray protection, Exhaust temperature protection, Current protection and Fault code output.						
Dimension (mm)	Length(mm)	525	685	855	875		
	Width(mm)	825	885	925	945		
	Height(mm)	705		730	760		
Cooling Capacity(W)	Evap. Temp.(°C)	Ambient Temp.: 32°C Subcooling Temp.: 0°C					
	-40	485	695	820	1130	1440	
	-35	595	860	1045	1345	1780	
	-30	755	1035	1225	1705	2185	
	-25	950	1245	1450	2060	2655	
	-20	1325	1775	2115	2910	3715	
	-15	1595	2105	2585	3335	4505	
	-10	1880	2490	3100	4250	5465	
-5	2180	2770	3690	5110	6585		

R290 MBP/LBP Variable Frequency Wall-Mounted Monoblock



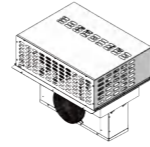
Model	BYGY-010-QXD-RZPP	BYGY-015-QXD-RZPP	BYGY-020-QXD-RZPP			
Nominal Input (W)	750	1175	1410			
Power Supply	1PH 220V 50/60 Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)					
Refrigerant	R290					
Max Running Current (A)	5.5	7.5	9.5			
Evap. Temp (°C)	-40~-5					
Ambient Temp (°C)	-20~43					
Standard Configuration	Compressor Model		JXSP150Z312	KXSP203Z312	KXSP300Z312	
	Condenser	Style		Copper tube fin condenser or microchannel condenser		
		Fan Motor	Diameter*Quantity (mm)	φ300*1	φ300*1	φ350*1
	Air Flow (m³/hr)		1800/2000	1800/2000	2500/2800	
	Evaporator	Style		Copper tube fin evaporator		
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ300*1	φ300*1
	Air Flow (m³/hr)		1100/1250	1800/2000	1800/2000	
	Pressure Controller (Mpa)		Diaphragm type high pressure switch / Low pressure sensor			
	Accumulator		/	650cc		
	Sight Glass		3/8"			
	Oil Extractor		TDW-4808S	BLR/A-W 55833		
	Filter Drier		083S			
	Check Valve		3/8"			
	Expansion Valve		Electronic Expansion Valve / Thermostatic Expansion Valve			
	Liquid Injection Valve		1/4"			
	Four-way Valve		SHF7			
Defrosting Heating Element		350W	500W			
Defrosting Heating Belt		25W/m,1.5m	25W/m,3m			
Electric Control	AC Contactor		18/01			
	Air Switch		2P NXB-63 D32			
	Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions			
	Variable Frequency Control		Compressor frequency control, Electronic expansion valve control, Condensing fan control, Evaporating fan control, Defrosting control, High and low pressure protection, Spray protection, Exhaust temperature protection, Current protection and Fault code output.			
Dimension (mm)	Length (mm)		525	685		
	Width (mm)		825	885		
	Height (mm)		705			
R290 Cooling Capacity(W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C			
	-40		500	710	865	
	-35		630	855	990	
	-30		755	980	1190	
	-25		900	1175	1350	
	-20		1045	1510	1755	
	-15		1400	1850	2160	
	-10		1750	2150	2520	
	-5		1900	2400	2790	

R448A/R449A/R454C MBP/LBP Variable Frequency Top-Mounted Monoblock



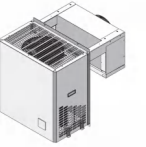
Model	BYGD-010-QHD-SZDP	BYGD-015-QHD-SZDP	BYGD-020-QHD-SZDP	BYGD-030-QHD-SZDP			
Nominal Input (W)	1100	1425	1920	2530			
Power Supply	1PH 220V 50/60 Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)						
Refrigerant	R449A / R448A / R454C / R455A / R404A						
Max Running Current (A)	6.2	10.5	13.5	16.5			
Evap.Temp (°C)	-40~-5						
Ambient Temp (°C)	5~43						
Standard Configuration	Compressor Model		JHSD150Z312	KHSD203Z312	KHSD300Z312	KHSD300Z312	
	Condenser	Style		Copper tube fin condenser or microchannel condenser			
		Fan Motor	Diameter*Quantity (mm)	φ230*2(EC)	φ230*2(EC)	φ230*3(EC)	φ230*4(EC)
	Air Flow (m³/hr)		730*2/750*2	730*2/750*2	730*3/750*3	730*4/750*4	
	Evaporator	Style		Copper tube fin evaporator			
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ250*1	φ300*1	φ300*2
	Air Flow (m³/hr)		1100/1250	1100/1250	1800/2000	3600/4000	
	Pressure Controller (Mpa)		Diaphragm type high pressure switch / Low pressure sensor				
	Oil Extractor		TDW-4808S	BLR/A-W 55833			
	Accumulator		650cc		1L		
	Reservoir		1.1L		2L		
	Sight Glass		3/8"				
	Filter Drier		083S				
	Check Valve		3/8"				
	Expansion Valve		Electronic Expansion Valve / Thermostatic Expansion Valve				
	Liquid Injection Valve		1/4"				
Four-way Valve		SHF7	SHF9				
Defrosting Heating Element		350W	550W				
Defrosting Heating Belt		25W/m,1.5m	25W/m,3m				
Electric Control	AC Contactor		18/01				
	Air Switch		2P NXB-63 D32				
	Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions				
	Variable Frequency Control		Compressor frequency control, Electronic expansion valve control, Condensing fan control, Evaporating fan control, Defrosting control, High and low pressure protection, Spray protection, Exhaust temperature protection, Current protection and Fault code output.				
Dimension (mm)	Length (mm)		840	940	1350		
	Width (mm)		676				
	Height (mm)		695	830			
R449A Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C				
	-40		485	695	820	1130	
	-35		595	860	1045	1345	
	-30		755	1035	1225	1705	
	-25		950	1245	1450	2060	
	-20		1325	1775	2115	2910	
	-15		1595	2105	2585	3335	
	-10		1880	2490	3100	4250	
	-5		2180	2770	3690	5110	

R290 MBP/LBP Variable Frequency Top-Mounted Monoblock



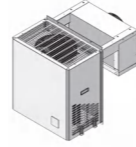
Model	BYGD-010-QHD-SZPP	BYGD-015-QHD-SZPP	BYGD-020-QHD-SZPP			
Nominal Input (W)	740	1145	1310			
Power Supply	1PH 220V 50/60 Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)					
Refrigerant	R290					
Max Running Current (A)	5.5	7.5	9.5			
Evap.Temp (°C)	-40~-5					
Ambient Temp (°C)	5~43					
Standard Configuration	Compressor Model		JHSP150Z312	KHSP203Z312	KHSP300Z312	
	Condenser	Style		Copper tube fin condenser or microchannel condenser		
		Fan Motor	Diameter*Quantity (mm)	φ230*2(EC)	φ230*2(EC)	φ230*3(EC)
			Air Flow (m³/hr)	730*2/750*2	730*2/750*2	730*3/750*3
	Evaporator	Style		Copper tube fin evaporator		
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ250*1	φ300*1
			Air Flow (m³/hr)	1100/1250	1100/1250	1800/2000
	Pressure Controller (Mpa)		Diaphragm type high pressure switch / Low pressure sensor			
	Oil Extractor	TDW-4808S	BLR/A-W 55833			
	Sight Glass	650cc				
	Accumulator	3/8"				
	Filter Drier	083S				
	Check Valve	3/8"				
	Expansion Valve	Electronic Expansion Valve / Thermostatic Expansion Valve				
	Liquid Injection Valve	1/4"				
	Four-way Valve	SHF7				
	Defrosting Heating Element	350W	500W			
	Defrosting Heating Belt	25W/m,1.5m		25W/m,3m		
Electric Control	AC Contactor	18/01				
	Air Switch	2P NXB-63 D32				
	Configurable Functions	Cold storage light, door switch, and other functions				
	Variable Frequency Control	Compressor frequency control, Electronic expansion valve control, Condensing fan control, Evaporating fan control, Defrosting control, High and low pressure protection, Spray protection, Exhaust temperature protection, Current protection and Fault code output.				
Dimension (mm)	Length (mm)	840	940			
	Width (mm)	676				
	Height (mm)	695	830			
R290 Cooling Capacity (W)	Evap.Temp (°C)	Ambient Temp.: 32°C Subcooling Temp.: 0°C				
	-40	500	710	865		
	-35	630	855	990		
	-30	755	980	1190		
	-25	900	1175	1350		
	-20	1045	1510	1755		
	-15	1400	1850	2160		
	-10	1750	2150	2520		
	-5	1900	2400	2790		

R448A/R449A/R454C MBP/LBP Fixed Frequency Wall-Mounted Monoblock



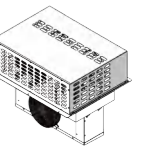
Model	BYGY-010-QXD-REDP	BYGY-015-QXD-REDP	BYGY-020-QXD-REDP	BYGY-030-QXD-REDP			
Nominal Input (W)	1120	1465	2020	2800			
Power Supply	220V 50/60 Hz						
Refrigerant	R449A / R448A / R454C / R455A / R404A						
Max Running Current (A)	6.2	10.5	13.5	16.0			
Evap.Temp (°C)	-40~-5						
Ambient Temp (°C)	-20~43						
Standard Configuration	Compressor Model		KXSD176KS	KXSD203KS	TXSD329KS	TXSD456KS	
	Condenser	Style		Copper tube fin condenser or microchannel condenser			
		Fan Motor	Diameter*Quantity (mm)	φ300*1	φ300*1	φ350*1	φ300*2
			Air Flow (m³/hr)	1800/2000	1800/2000	2500/2800	3600/4000
	Evaporator	Style		Copper tube fin evaporator			
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ300*1	φ300*1	φ300*2
			Air Flow (m³/hr)	1100/1250	1800/2000	1800/2000	3600/4000
	Pressure Controller (Mpa)		Diaphragm type high pressure switch /Diaphragm type low pressure switch				
	Accumulator	650cc		1L			
	Reservoir	2L					
	Filter Drier	083S					
	Check Valve	SR-08		SR-10			
	Expansion Valve	Electronic Expansion Valve / Thermostatic Expansion Valve					
	Liquid Injection Valve	1/4"(φ6.35)					
	Four-way Valve	SHF7		SHF9			
	Defrosting Heating Element	350W		550W			
	Defrosting Heating Belt	25W/m,1.5m		25W/m,3m			
	Electric Control	AC Contactor	18/01*2				
Air Switch		2P NXB-63 D32					
Fixed Frequency Control		Control via operation panel, phase sequence and phase loss protection, discharge temperature protection,liquid injection control, condenser fan speed control, evaporator fan control, defrost control,high/low pressure protection, fault code alarm output.					
Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions					
Dimension (mm)	Length (mm)	525	685	855			
	Width (mm)	825		885	925		
	Height (mm)	705			730		
R449A Cooling Capacity (W)	Evap.Temp (°C)	Ambient Temp.: 32°C Subcooling Temp.: 0°C					
	-40	455	485	770	1145		
	-35	595	595	960	1365		
	-30	690	745	1165	1730		
	-25	820	945	1350	2055		
	-20	1150	1320	1960	2895		
	-15	1470	1575	2315	3150		
	-10	1650	1850	2755	4225		
	-5	1880	2165	3275	4940		

R290 MBP/LBP Fixed Frequency Wall-Mounted Monoblock



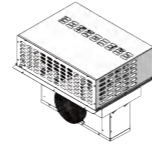
Model	BYGY-005-QXD-REPP	BYGY-010-QXD-REPP	BYGY-015-QXD-REPP	BYGY-020-QXD-REPP			
Nominal Input (W)	350	780	950	1400			
Power Supply	220V 50/60 Hz						
Refrigerant	R290						
Max Running Current (A)	2.2	5.5	7.5	9.5			
Evap.Temp (°C)	-40~-5						
Ambient Temp (°C)	-5~43						
Standard Configuration	Compressor Model		JXP058KS	KXSP176KS	KXSP203KS	KXSP329KS	
	Condenser	Style		Copper tube fin condenser			
		Fan Motor	Diameter*Quantity (mm)	φ230*1	φ250*1	φ300*1	φ350*1
			Air Flow (m³/hr)	740	925	1800	2500
	Evaporator	Style		Copper tube fin evaporator			
		Fan Motor	Diameter*Quantity (mm)	φ200*1	φ250*1	φ250*1	φ300*1
			Air Flow (m³/hr)	400	925	925	1800
	Pressure Controller (Mpa)		Diaphragm type high pressure switch /Diaphragm type low pressure switch				
	Filter Drier		052S	083S			
	Check Valve		/	SR-06			
	Expansion Valve		Electronic Expansion Valve / Thermostatic Expansion Valve				
	Four-way Valve		/	SHF7			
	Defrosting Heating Element		250W*2	350W	500W		
	Defrosting Heating Belt		25W/m,1.5m	25W/m,3m			
Electric Control	AC Contactor		18/01*2				
	Air Switch		2P NXB-63 D32				
	Fixed Frequency Control		Control via operation panel, phase sequence and phase loss protection, discharge temperature protection,liquid injection control, condenser fan speed control, evaporator fan control, defrost control,high/low pressure protection, fault code alarm output.				
	Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions				
Dimension (mm)	Length (mm)		285	450	600	700	
	Width (mm)		880	920	910	930	
	Height (mm)		580	730	750	780	
R290 Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C				
	-40		160	465	500	790	
	-35		210	605	645	980	
	-30		245	700	725	1200	
	-25		290	830	910	1380	
	-20		365	1055	1105	1780	
	-15		470	1345	1315	2100	
	-10		525	1505	1665	2500	
	-5		605	1730	1930	3000	

R448A/R449A/R454C MBP/LBP Fixed Frequency Top-Mounted Monoblock



Model	BYGD-010-QHD-SEDP	BYGD-015-QHD-SEDP	BYGD-020-QHD-SEDP	BYGD-030-QHD-SEDP			
Nominal Input (W)	1030	1180	1900	2670			
Power Supply	220V 50Hz						
Refrigerant	R449A / R448A / R454C / R455A / R404A						
Max Running Current (A)	6.2	8.0	12.0	16.0			
Evap.Temp (°C)	-40~-5						
Ambient Temp (°C)	5~43						
Standard Configuration	Compressor Model		KHSD176KS	KHSD203KS	THSD329KS	THSD456KS	
	Condenser	Style		Copper tube fin condenser			
		Fan Motor	Diameter*Quantity (mm)	φ230*2(EC)	φ230*2(EC)	φ230*3(EC)	φ230*4(EC)
			Air Flow (m³/hr)	730*2	730*2	730*3	730*4/
	Evaporator	Style		Copper tube fin evaporator			
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ250*1	φ300*1	φ300*2
			Air Flow (m³/hr)	1100	1100	1800	1800*2
	Pressure Controller (Mpa)		Diaphragm type high pressure switch /Diaphragm type low pressure switch				
	Accumulator		650cc		1L		
	Reservoir		1.1L		2L		
	Filter Drier		083S				
	Check Valve		SR-06				
	Thermostatic Expansion Valve		068Z3430				
	Liquid Injection Valve		1/4"				
Four-way Valve		SHF7		SHF9			
Defrosting Heating Element		350W		550W			
Defrosting Heating Belt		25W/m,1.5m		25W/m,3m			
Electric Control	AC Contactor		18/01*2		25/01+18/01		
	Air Switch		2P NXB-63 D32				
	Fixed Frequency Control		Control via operation panel, phase sequence and phase loss protection, discharge temperature protection,liquid injection control, condenser fan speed control, evaporator fan control, defrost control,high/low pressure protection, fault code alarm output.				
	Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions				
Dimension (mm)	Length (mm)		840	940	1350		
	Width (mm)		676				
	Height (mm)		695		830		
R449A Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C				
	-40		455	485	770	1145	
	-35		595	595	960	1365	
	-30		690	745	1165	1730	
	-25		820	945	1350	2055	
	-20		1150	1320	1960	2895	
	-15		1470	1575	2315	3150	
	-10		1650	1850	2755	4225	
	-5		1880	2165	3275	4940	

R290 MBP/LBP Fixed Frequency Top-Mounted Monoblock



Model		BYGD-010-QHD-SEPP	BYGD-010-QHD-SEPP	BYGD-010-QHD-SEPP		
Nominal Input (W)		740	1145	1310		
Power Supply		220V 50/60Hz				
Refrigerant		R290				
Max Running Current (A)		5.5	7.5	9.5		
Evap.Temp (°C)		-40~-5				
Ambient Temp (°C)		5~43				
Standard Configuration	Compressor Model		KHSP176KS	KHSP203KS	THSP329KS	
	Condenser	Style		Copper tube fin condenser		
		Fan Motor	Diameter*Quantity (mm)	φ230*2(EC)	φ230*2(EC)	φ230*3(EC)
			Air Flow (m³/hr)	730*2	730*2	730*3
	Evaporator	Style		Copper tube fin evaporator		
		Fan Motor	Diameter*Quantity (mm)	φ250*1	φ250*1	φ300*1
			Air Flow (m³/hr)	1100	1100	1800
	Pressure Controller (Mpa)		Diaphragm type high pressure switch / Diaphragm type low pressure sensor			
	Accumulator		650cc			
	Sight Glass		3/8"			
	Filter Drier		083S			
	Check Valve		SR-06			
	Expansion Valve		Electronic Expansion Valve / Thermostatic Expansion Valve			
	Liquid Injection Valve		1/4"			
	Four-way Valve		SHF7			
Defrosting Heating Element		350W	500W			
Defrosting Heating Belt		25W/m,3m				
Electric Control	AC Contactor		18/01*2			
	Air Switch		2P NXB-63 D32			
	Fixed Frequency Control		Compressor frequency control, Electronic expansion valve control, Condensing fan control, Evaporating fan control, Defrosting control, High and low pressure protection, Spray protection, Exhaust temperature protection, Current protection and Fault code output.			
	Configurable Functions		Cold storage light, door switch, Wi-Fi or 4G temperature controller and other functions			
Dimension (mm)	Length (mm)		800	940		
	Width (mm)		676			
	Height (mm)		695	830		
R290 Cooling Capacity (W)	Evap.Temp (°C)		Ambient Temp.: 32°C Subcooling Temp.: 0°C			
	-40		465	500	790	
	-35		605	645	980	
	-30		700	725	1200	
	-25		830	910	1380	
	-20		1055	1105	1780	
	-15		1345	1315	2100	
	-10		1505	1665	2500	
-5		1730	1930	3000		

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