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MONOBLOCK & PACKAGED REFRIGERATION UNITS

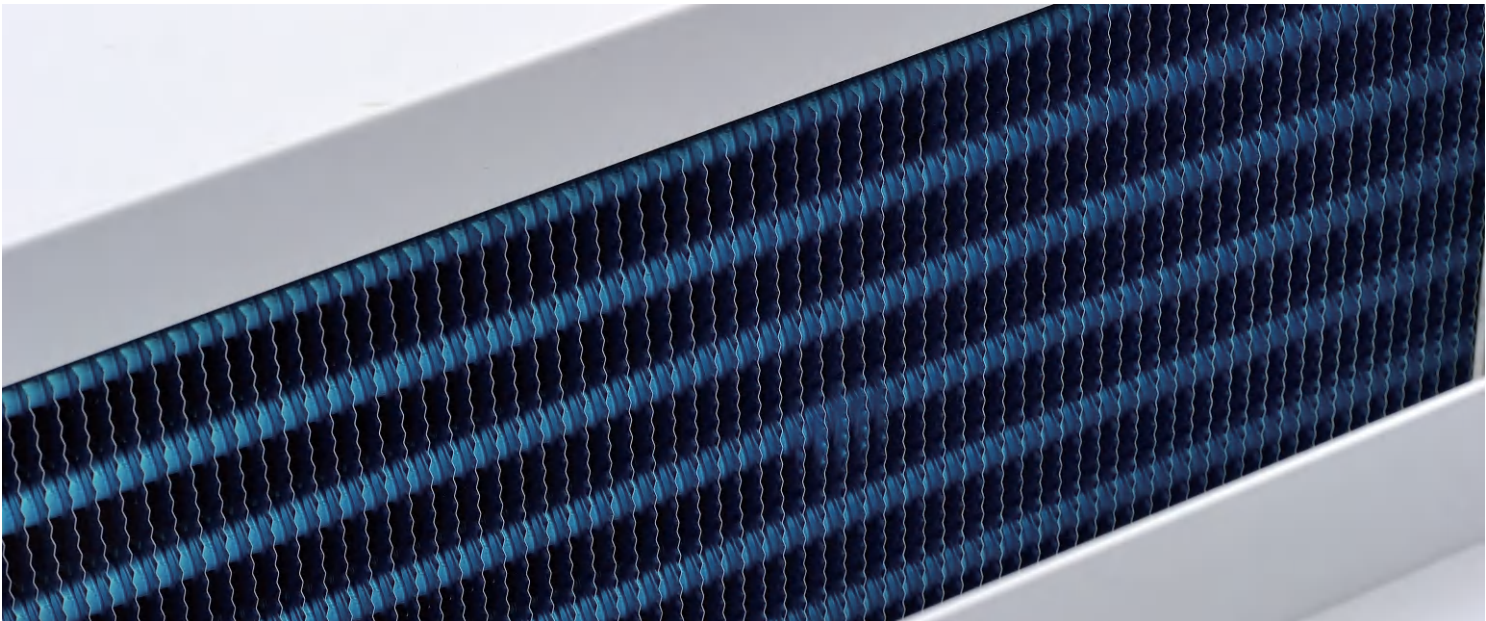
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Introduction

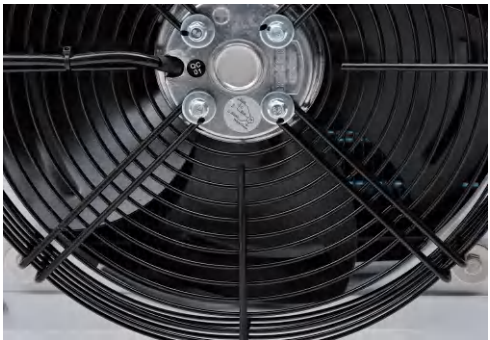


Boyard's monoblock packaged condensing systems are designed for commercial walk-in cooler and freezer cold rooms. Boyard offers both fixed and variable frequency units, with horsepower ranging from 1 to 3HP, catering to various cooling needs. The monoblock systems feature easy installation with a plug-and-play design, eliminating the need for welding or refrigerant charging. Throttling control is managed by an electronic expansion valve, and defrosting is handled by a four-way valve, with the defrosting scheme either scheduled or done as required. Boyard's monoblock packaged condensing systems provide efficient, reliable, and flexible cooling solutions for commercial applications. For specific requirements, Boyard customize the systems quickly to meet unique needs.



Features

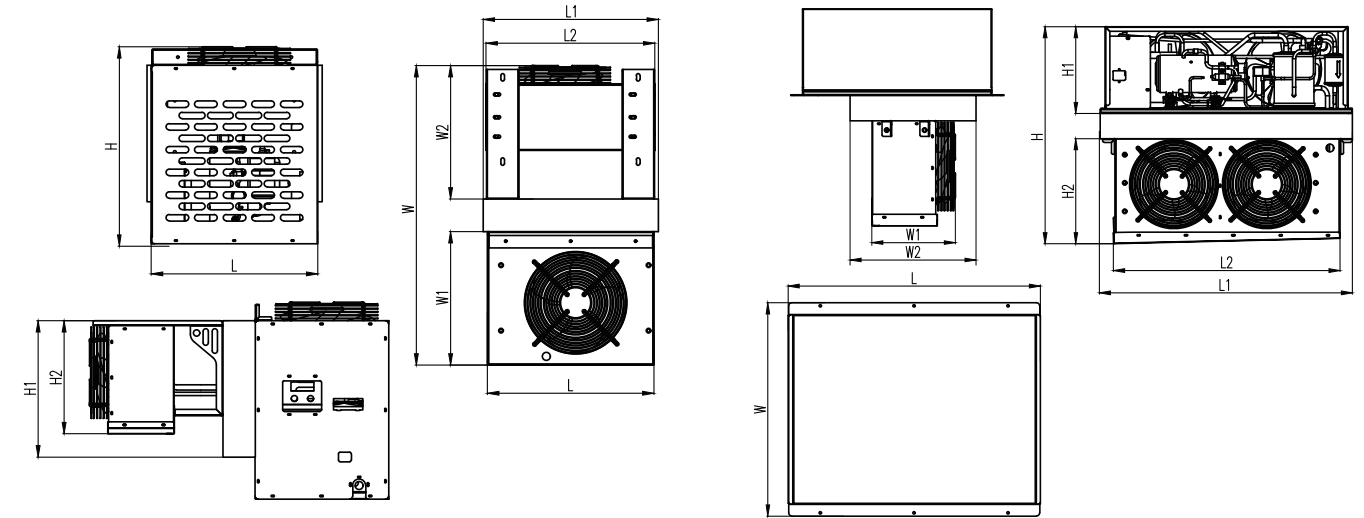
- The product line includes fixed-speed units and inverter-driven monoblock units, with horsepower ranging from 1 to 3 HP.
- The inverter monoblock units enable rapid cooling and precise temperature control of the cold storage within $\pm 0.5^{\circ}\text{C}$.
- Compatible with refrigerants including 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.





Unit Appearance

The default thickness of cold storage panels is 80mm, which can be adjusted according to customer requirements.



Standard Configuration

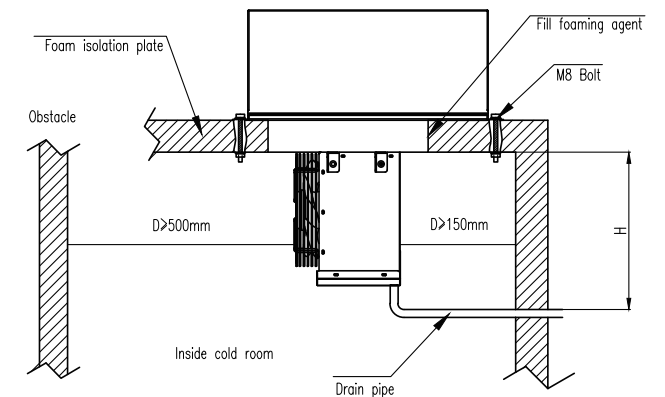
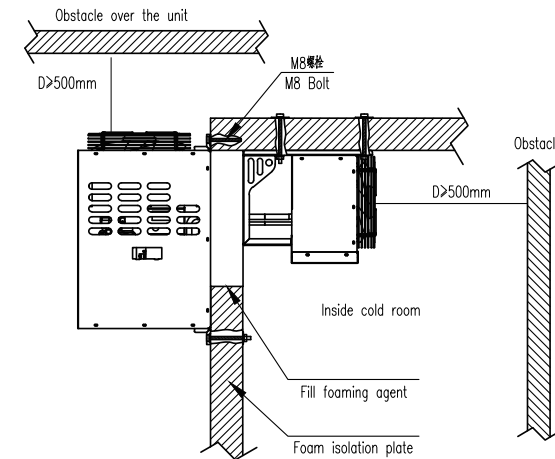
- Hermetic high-efficiency compressor
- Power supply specifications: 220–230V/1PH/50Hz/60Hz or 380–400V/3PH /50Hz
- Air-cooled condenser with axial fans
- Electronic control panel
- Electronic expansion valve or thermostatic expansion valve
- Liquid line filter
- Pressure-controlled condenser fan speed regulator
- 5-meter standard pre-wired harness

Personalization Options

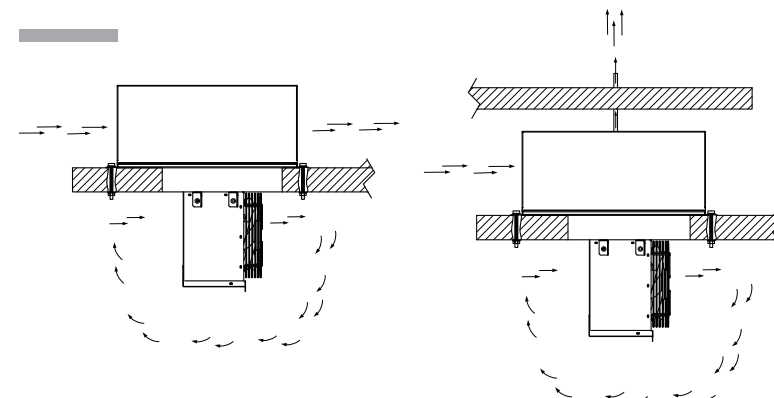
- Inverter compressor or fixed-speed compressor
- Oil separator
- Condensation method: Water-cooled (optional)
- Door microswitch connection cable
- Cold storage light and bulb assembly
- Heater cable for door switch (for low-temperature models)
- Condensate evaporation tray
- Visual and audible alarm
- Remote control panel (for single unit)
- Crankshaft heating belt

Installation

1. The thickness of the cold storage panels must not be less than 75mm.
2. The gap between the unit and the cold storage panels must be filled with foam agent.



Air Flow



The airflow of the Monoblock unit is composed of the flow from the condensing section and the evaporating section. If equipped with a centrifugal fan, the condensing part—thanks to the differently configured blades compared to the axial fan version—can direct the airflow through a duct toward a specific direction to prevent excessive heating of the surrounding environment.

Applications



Unit Details



Technical Data



Wall-Mounted Units -Variable Frequency

Model		BYGY-010-QXD-RZDP	BYGY-015-QXD-RZDP	BYGY-020-QXD-RZDP	BYGY-030-QXD-RZDP	BYGY-040-QXD-RZDP	BYGY-010-QXD-RZPP	BYGY-015-QXD-RZPP	BYGY-020-QXD-RZPP
Refrigerant		R449A / R448A / R454C / R455A / R404A					R290		
Power Supply		1PH 220V 50/60Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)							
Cooling Capacity [W]	Te= -7°C, Tsuc=18°C, Ta=32°C	2065	2675	3435	4740	6090	1840	2300	2685
	Te= -25°C, Tsuc=5°C, Ta=32°C	950	1245	145.	2060	2655	900	1175	1350
Applicable storage capacity [m³]	Working Temp +2°C	12	18	25	40	50	12	18	25
	Working Temp -18°C	5	8	12	20	25	5	8	12

-Fixed Frequency

Model		BYGY-010-QXD-REDP	BYGY-015-QXD-REDP	BYGY-020-QXD-REDP	BYGY-030-QXD-REDP	BYGY-005-QXD-REPP	BYGY-010-QXD-REPP	BYGY-015-QXD-REPP	BYGY-020-QXD-REPP
Refrigerant		R449A / R448A / R454C / R455A / R404A					R290		
Power Supply		1PH 220V 50/60Hz							
Cooling Capacity [W]	Te=-7°C, Tsuc=18°C, Ta=32°C	1790	2030	3045	4620	575	1640	1830	2795
	Te=-25°C, Tsuc=5°C, Ta=32°C	820	945	1350	2055	290	830	910	1380
Applicable storage capacity [m³]	Working Temp +2°C	12	18	25	40	4	12	18	25
	Working Temp -18°C	5	8	12	20	1.5	5	8	12



Top-Mounted Units -Variable Frequency

Model		BYGD-010-QHD-SZDP	BYGD-015-QHD-SZDP	BYGD-020-QHD-SZDP	BYGD-030-QHD-SZDP	BYGD-010-QHD-SZPP	BYGD-015-QHD-SZPP	BYGD-020-QHD-SZPP
Refrigerant		R449A / R448A / R454C / R455A / R404A				R290		
Power Supply		1PH 220V 50/60Hz (3PH 380V 50/60Hz, 3PH 200V 50/60Hz, 3PH 220V 50/60Hz)						
Cooling Capacity [W]	Te=-7°C, Tsuc=18°C, Ta=32°C	2060	2690	3445	4745	1840	2300	2685
	Te=-25°C, Tsuc=5°C, Ta=32°C	950	1245	1450	2060	900	1175	1350
Applicable storage capacity [m³]	Working Temp +2°C	12	18	25	40	12	18	25
	Working Temp -18°C	5	8	12	20	5	8	12

-Fixed Frequency

Model		BYGD-010-QHD-SEDP	BYGD-015-QHD-SEDP	BYGD-020-QHD-SEDP	BYGD-030-QHD-SEDP	BYGD-010-QHD-SEPP	BYGD-015-QHD-SEPP	BYGD-020-QHD-SEPP
Refrigerant		R449A / R448A / R454C / R455A / R404A				R290		
Power Supply		1PH 220V 50Hz					1PH 220V 50/60Hz	
Cooling Capacity [W]	Te=-7°C, Tsuc=18°C, Ta=32°C	1785	2015	3035	4610	1640	1830	2795
	Te=-25°C, Tsuc=5°C, Ta=32°C	820	945	1350	2055	830	910	1380
Applicable storage capacity [m³]	Working Temp +2°C	12	18	25	40	12	18	25
	Working Temp -18°C	5	8	12	20	5	8	12

Specifications and Configurations

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		Copper tube fin condenser or microchannel condenser				
		Fan Motor	Diameter*Quantity(mm)	φ300*1	φ300*1	φ300*1	φ300*2	φ300*2
			Air Flow (m³/hr)	1800/2000	1800/2000	1800/2000	3600/4000	3600/4000
	Evaporator	Style		Copper tube fin evaporator				
		Fan Motor	Diameter*Quantity(mm)	φ250*1	φ300*1	φ300*1	φ300*2	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	
R449A 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		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)			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*3/750*2		730*3/750*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			
	Accumulator			650cc					
	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					
	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)			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)				5~43			
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"			
	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*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	500W		
	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-015-QHD-SEPP	BYGD-020-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 switch
	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			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)			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	