

OUTDOOR CONDENSING UNIT

RIGID Refrigeration – Outdoor Condensing Units for Commercial & Industrial Applications

RIGID outdoor condensing units are purpose-built for high, medium, and low temperature refrigeration applications. Equipped with premium components – including Sanyo rotary compressors, Panasonic scroll compressors, and Emerson scroll compressors – our units are manufactured under strict quality standards and incorporate the latest advancements in refrigeration technology.

The outdoor condensing units are widely used in cold rooms, process cooling, retail refrigeration, and industrial chillers. Designed to meet diverse cooling needs, RIGID units range from 1 HP to 25 HP, including parallel-compressor systems for large-scale or modular installations.



>Product Features

01. HIGH RELIABILITY

Built with globally recognized compressors and high-quality components, each unit ensures long-term reliability and durability with integrated protection devices.

02. WIDE APPLICATION RANGE

Ideal for a variety of refrigeration needs – from low-temperature freezing to high-temperature cooling—suitable for supermarkets, restaurants, food processing, and fuel stations.

03. SPACE EFFICIENT DESIGN

Compact footprint and modular layout allow side-by-side installation, maximizing space efficiency and simplifying maintenance.

04. HIGH AMBIENT COMPATIBILITY

Engineered for hot climates, with an optimized condenser design, variable-speed fan control, and dependable performance even in extreme temperatures up to 45°C.

05. QUIET OPERATION

Noise-reducing compressor jackets and internal sound insulation ensure silent operation. Panasonic scroll compressor options offer even quieter performance.

06. USER-FRIENDLY AND EFFICIENT

RIGID's outdoor condensing units feature an intuitive interface, low energy consumption, fast commissioning, and easy maintenance – making them the ideal solution for convenience stores, cold rooms, petrol stations, food retailers, milk cooling, and ice-making equipment.

COMMERCIAL APPLICATIONS

A complete range of air and water-cooled indoor and outdoor complete all size and applications.

At RIGID, we listen to your needs and provide tailored systems and services that support your business goals while optimizing your investment. As a trusted global player in the commercial refrigeration market, we take pride in delivering innovative, customer-focused solutions that lead the industry forward.



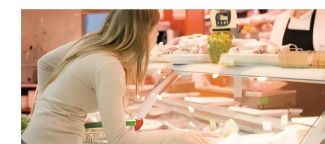
REFRIGERATED WAREHOUSES AND
PRODUCING AREAS



FOOD PROCESSING PLANTS



CONVENIENCE STORES



FOOD RETAIL REFRIGERATION



PROCESS KITCHENS



RESTAURANT COLD ROOMS



MILK AND ICE MAKING EQUIPMENT

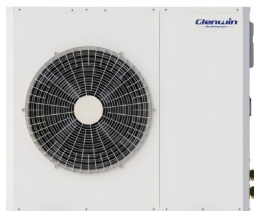


DISTRIBUTION CENTER

SANYO COMPRESSOR CONDENSING UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
220V~240V/50HZ AND 380V/50HZ



Model		RG-SN10EL	RG-SN15EL	RG-SN20EL	RG-SN25EL	RG-SN25FL	RG-SN30FL
Horsepower (HP)		1 HP	1.5 HP	2.5 HP	3 HP	2.5 HP	3 HP
Evap.temp. range (°C)		-45~-5°C					
Ambient temperature (°C)		-7~43°C					
Refrigerant		R404A, R448A, R449A					
Power supply		Single phase 220V/50Hz				Three phase 380V/50Hz	
Compressor	Type	Sanyo rotary refrigeration compressor					
	Model	C-R133L4AL	C-R220L4AL	C-3RV359L4AAL	C-3R463L4AAL	C-3RP547L4AAL	C-3RP547L4AAL
	Power	1 HP	1.5 HP	2.5 HP	3 HP	2.5 HP	3 HP
Fan motor	Fan QTY (PCS)	1	1	1	1	1	1
	Power supply	Single phase 220V/50Hz					
	Input power (W)	160W	160W	160W	160W	160W	160W
	Fan spec	φ496	φ496	φ496	φ496	φ496	φ496
	Air volume (m³/h)	3600	3600	3600	3600	3600	3600
Stop valve	Suction inlet OD	12.7(1/2")		15.88(5/8")			
	Liquid outlet OD	9.52(3/8")		9.52(3/8")			
Refrigeration capacity	Evap. temp.(°C)	Refrigeration capacity: W			Ambient temp.: 32°C		
	-40°C	505	840	1260	1620	1260	1620
	-35°C	655	1090	1580	2080	1580	2080
	-30°C	810	1190	1890	2630	1890	2630
	-25°C	975	1545	2310	3320	2310	3320
	-20°C	1190	1865	2730	3955	2730	3955
	-15°C	1430	2100	3095	4540	3095	4540
	-10°C	1795	2426	3680	5485	3680	5485
	-5°C	2135	2790	4100	6485	4100	6485
Product dimension (mm) L*W*H		995*420*675			1000*420*822	995*420*675	1000*420*822
Install dimension (mm) Hole-L*W		φ12-585*380			φ12-585*380	φ12-585*380	φ12-585*380
		18-A			18-B	18-A	18-B

Note: Single phase 220V/60Hz outdoor condensing units are available.

PANASONIC COMPRESSOR CONDENSING UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
THREE PHASE 380V/50HZ



Model		RG-SN40FL	RG-SN50FL	RG-SN60FL	RG-SN70FL	RG-SN80FL	RG-SN100FL	RG-SN125FL	
Horsepower (HP)		4 HP	5 HP	6 HP	7 HP	8 HP	10 HP	12.5 HP	
Evap.temp. range(°C)		-45~5°C							
Ambient temperature (°C)		0~40°C							
Refrigerant		R404A							
Power supply		Three phase 380V/50Hz							
Compressor model		C-SBN303L8A	C-SBN373L8A	C-SBN453L8A	3CC120SA03	3CC137SA03	3CC171SA03	3CC216SA03	
Fan motor	Fan QTY (PCS)	1	2	2	2	2	2	2	
	Power supply	Single phase 220V/50Hz							Three phase 380V/50Hz
	Input power (W)	160W	160W	160W	160W	160W	250W	415W	
	Fan spec.	φ496	φ496	φ496	φ496	φ496	φ500	φ550	
	Air volume (m³/h)	3600	3600*2	3600*2	3600*2	3600*2	4800*2	6500*2	
Stop valve	Suction inlet OD	15.88(5/8")		19.05(3/4")		22.2(7/8")		28.5(11/8")	
	Liquid inlet OD	9.52(3/8")		12.7(1/2")		15.88(5/8")		15.88(5/8")	
Refrigeration capacity	Evap.temp. (°C)	Refrigeration capacity:W Ambient temp.:32°C							
	-45°C	1560	1990	2315	3355	3590	4240	5290	
	-40°C	1920	2480	2880	4055	4350	5235	6530	
	-35°C	2425	3080	3580	4910	5275	6470	8070	
	-30°C	3075	3835	4455	5945	6390	7980	9960	
	-25°C	3880	4770	5535	7195	7745	9850	12290	
	-20°C	4830	5930	6890	8705	9390	12165	15185	
	-15°C	5925	7375	8570	10535	11380	15025	18755	
	-10°C	7170	9170	10660	12750	13790	18550	23155	
	-5°C	8560	11415	13255	15430	16720	22910	28595	
Product dimension (mm) L*W*H		1000*420*822	1010*440*1220			1290*780*920	1290*780*1130	1550*890*1150	
Install dimension (mm) Hole-L*W		φ12-585*380	φ12-585*400			φ 12-(420+420)*740		φ12-(570+570)*860	
		18-B	18-C			18-D		18-E	

Note: 3 phase 440V~460V/60Hz or 3 phase 200V~220V/60Hz or 3 phase 380V/60Hz outdoor condensing units are all available

EMERSON SCROLL COMPRESSOR (ZB SERIES) OUTDOOR CONDENSING UNIT

R448A R449A R404A

HIGH-MEDIUM TEMPERATURE
SINGLE PHASE 220V/50HZ AND THREE PHASE 380V/50HZ



Model		RG-GN20EM	RG-GN30EM	RG-GN40EM	RG-GN20FM	RG-GN30FM	RG-GN40FM	RG-GN50FM	RG-GN60FM	RG-GN70FM	RG-GN80FM	RG-GN100FM	RG-GN130FM	RG-GN150FM	RG-GN200FM	RG-GN220FM	RG-GN250FM
Power supply		Single phase 220V/50Hz						Three phase 380V/50Hz									
Evap.temp. range (°C)		-25~5°C						-25~5°C									
Ambient temperature (°C)		0~40°C						0~40°C									
Refrigerant		R404A, R448A, R449A						R404A, R448A, R449A									
Pressure controller		High pressure & Low pressure switch						High pressure & Low pressure switch									
Emerson compressor	Power	2HP	3HP	4HP	2HP	3HP	4HP	5HP	6HP	7HP	8HP	10HP	13HP	15HP	20HP	22HP	25HP
	Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB76KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE
Condenser fan motor		Single phase 220V/50Hz						Single phase 220V/50Hz									
Fan QTY (PCS)		1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Power supply		Single phase 220V/50Hz						Single phase 220V/50Hz									
Power (W)		160W						160W									
Suction inlet OD		15.88(3/8")						15.88(3/8")									
Liquid outlet OD		9.52(3/8")						9.52(3/8")									
External dimension (mm) L*W*H		995	1000	995	1000	995	1000	1010	1010	1010	1340	1340	1550	1550	1805	1955	1955
Install dimension (mm) Hole-L*W		420	420	420	420	420	420	440	440	440	780	780	890	890	961	961	961
Refrigeration capacity: W		675	822	675	822	675	822	1220	1220	1220	920	1130	1150	1400	1820	1820	1900
Refrigeration capacity: W		18-A						18-C									
Refrigeration capacity: W		18-B						18-D									
Refrigeration capacity: W		18-A						18-E									
Refrigeration capacity	Evap. Temp.(°C)	Refrigeration capacity: W						Refrigeration capacity: W									
	-25°C	2093	3140	4250	2093	3140	4250	5340	6280	6910	7950	11160	13670	16100	/	/	/
	-20°C	2520	3780	5150	2520	3780	5150	6380	7540	8290	9460	13300	16290	19220	20640	25520	31950
	-15°C	3073	4610	6290	3073	4610	6290	7850	9170	10090	10770	16040	19650	23200	25420	31000	38810
	-10°C	3666	5500	7480	3666	5500	7480	9300	10950	12040	13560	19050	23340	27600	30830	37390	46810
	-5°C	4400	6600	8860	4400	6600	8860	11000	12890	14180	15950	22330	27360	32690	36980	44780	56060
	0°C	5266	7900	10260	5266	7900	10260	12800	15700	17270	18500	25960	31850	37970	44000	53270	66700
Refrigeration capacity: W		6233	9350	12650	6233	9350	12650	15800	18600	20460	21320	29850	36600	44050	52000	62980	78850

Note: 3 phase 460V/60Hz and 3 phase 220V/60Hz outdoor condensing units are all available.



01. HIGH EFFICIENCY ALL YEAR ROUND

Equipped with dynamic discharge valve that allows the discharge gas to reach desired pressure. This helps reduce efficiency loss by preventing gas re-compression.

02. COMPACTNESS

The small footprint of Copeland Scroll compressors enables compact system designs of condensing unit compared with reciprocating compressors.

03. ROBUSTNESS AND RELIABILITY

The Copeland Compliant Scroll design is tolerant to stresses caused by liquid slugging, flooded starts and debris commonly found in refrigeration systems.

04. SMOOTH OPERATION

Copeland Scroll compressors are designed with a discharge check valve that isolates the high pressure discharge gas, allows to start unloaded, resulting in low inrush currents.

>APPLICATIONS



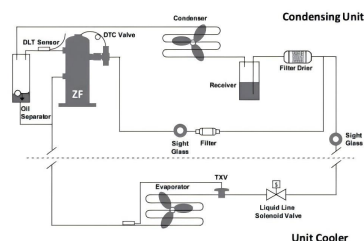
EMERSON SCROLL COMPRESSOR (ZF SERIES) OUTDOOR CONDENSING UNIT

R448A R449A R404A

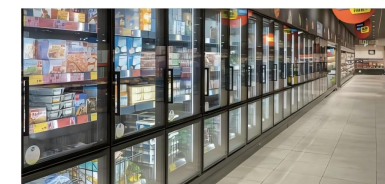
MEDIUM-LOW TEMPERATURE
THREE PHASE 380V/50Hz



Model		RG-GN30FLF	RG-GN40FLF	RG-GN50FLF	RG-GN60FLF	RG-GN70FLF	RG-GN80FLF	RG-GN100FLF	RG-GN120FLF	RG-GN150FLF	RG-GN180FLF
Power supply		Three phase 380V/50Hz				Three phase 380V/50Hz					
Evap.temp. range (°C)		-40~5°C				-40~5°C					
Ambient temperature (°C)		0~40°C				0~40°C					
Refrigerant		R404A, R448A, R449A				R404A, R448A, R449A					
Pressure controller		High pressure & Low pressure switch				High pressure & Low pressure switch					
Emerson compressor	Power	3HP	4HP	5HP	6HP	7HP	8HP	10HP	12HP	15HP	18HP
	Model	ZF09KQE	ZF13KQE	ZF15KQE	ZF18KQE	ZF25KQE	ZF28KQE	ZF34KQE	ZF41KQE	ZF49KQE	ZF54KQE
Fan motor	Fan QTY (PCS)	1	1	2	2	2	2	2	2	2	2
	Power supply	Single phase 220V/50Hz				Single phase 220V/50Hz				Three phase 380V/50Hz	
	Power (W)	160W				160W	250W	415W		780W	
Pipe (mm/inch)	Suction inlet OD	15.88(5/8")		19.05(3/4")		19.05(3/4")	22.2(7/8")	28.5(1 1/8")		34.93(1 3/8")	
	Liquid outlet OD	9.52(3/8")		12.7(1/2")		12.7(1/2")		15.88(5/8")		19.05(3/4")	
External dimension (mm) L*W*H		1000*420*822		1010*440*1220		1010*440*1220	1340*780*920	1340*780*1130	1550*890*1150	1550*900*1440	1805*961*1820
Install dimension (mm) Hole-L*W		φ 12-585*380		φ 12-585*400		φ 12-585*400	φ 12-(420+420)*740		φ 12-(570+570)*860		/
Refrigeration capacity	Evap. Temp.(°C)	18-B		18-C		18-C	18-D		18-E		/
		Refrigeration capacity: W		Ambient temp.:32°C		Refrigeration capacity: W		Ambient temp.:32°C			
	-40°C	1530	2190	2660	3290	4090	4670	5300	6710	8070	9230
	-35°C	1940	2780	3420	4170	5120	5850	6820	8560	10210	11690
	-30°C	2410	3480	4290	5170	6420	7340	8540	10620	12720	14560
	-25°C	2960	4310	5300	6340	7960	9100	10510	12980	15650	17910
	-20°C	3600	5270	6470	7700	9730	11120	12790	15710	19050	21800
	-15°C	4350	6380	7840	9300	11710	13380	15440	18900	/	/
	-10°C	5230	7660	9430	11170	13870	15850	18510	22640	/	/
	-5°C	6230	9110	11260	13360	16200	18510	22060	26990	/	/
	0°C	7390	10760	13360	15910	/	/	/	/	/	/
	5°C	8710	12610	15760	18840	/	/	/	/	/	/



>APPLICATIONS



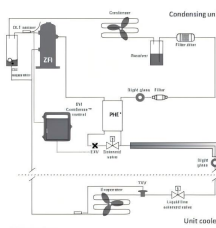
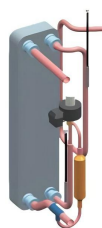
EMERSON SCROLL COMPRESSOR (ZFL SERIES) OUTDOOR CONDENSING UNIT

R448A R449A R404A

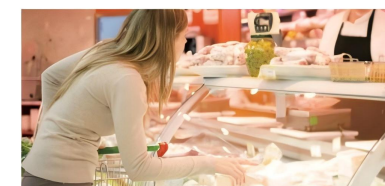
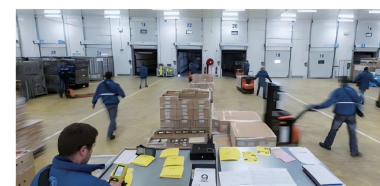
MEDIUM-LOW TEMPERATURE
THREE PHASE 380V/50HZ



Model		RG-GN40FLI	RG-GN60FLI	RG-GN70FLI	RG-GN80FLI	RG-GN100FLI	RG-GN120FLI	RG-GN150FLI	RG-GN200FLI	RG-GN250FLI
Power supply		Three phase 380V/50Hz			Three phase 380V/50Hz					
Evap.temp. range (°C)		-40~-5°C			-40~-5°C					
Ambient temperature (°C)		0~40°C			0~40°C					
Refrigerant		R404A, R448A, R449A			R404A, R448A, R449A					
Pressure controller		High pressure & Low pressure switch			High pressure & Low pressure switch					
Emerson compressor	Power	4HP	6HP	7HP	8HP	10HP	12HP	15HP	20HP	25HP
	Model	ZFI20KQE	ZFI26KQE	ZFI36KQE	ZFI39KQE	ZFI50KQE	ZFI59KQE	ZFI68KQE	ZFI81KQE	ZFI96KQE
Fan motor	Fan QTY (PCS)	1	2	2	2	2	2	2	2	2
	Power supply	Single phase 220V/50Hz			Single phase 220V/50Hz			Three phase 380V/50Hz		
Pipe (mm/inch)	Suction inlet OD	15.88(5/8")	19.05(3/4")		22.2(7/8")	28.5(1 1/8")	34.93(1 3/8")		41.27(1-5/8")	
	Liquid outlet OD	9.52(3/8")	12.7(1/2")			15.88(5/8")			22.22(7/8")	
External dimension (mm) L*W*H		1000*420*822	1010*440*1220		1340*780*920	1340*780*1130	1550*890*1150	1550*900*1440	1805*961*1820	1955*961*1900
Install dimension (mm) Hole-L*W		φ12-585*380	φ12-585*400		φ12-(420+420)*740		φ12-(570+570)*860	/	/	/
Refrigeration capacity	Evap. Temp.(°C)	18-B	18-C		18-D		18-E		/	/
	-40°C	3250	5090	6290	7220	8660	10550	11970	13600	17450
	-35°C	4070	6120	7670	8800	10290	12530	14230	16230	21300
	-30°C	4990	7330	9270	10630	12400	15090	17130	19550	25700
	-25°C	6040	8740	11080	12710	14910	18160	20600	23500	30900
	-20°C	7230	10390	13090	15040	17770	21650	24560	28030	37100
	-15°C	8600	12300	15320	17580	20940	25510	/	/	44400
	-10°C	10140	14490	17740	20350	24340	29650	/	/	52900
	-5°C	11900	17010	20320	23340	27910	34010	/	/	62900
	0°C	13880	19860	/	/	/	/	/	/	/
	5°C	16110	23060	/	/	/	/	/	/	/



>APPLICATIONS



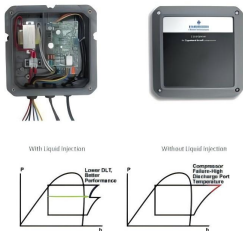
EMERSON SCROLL COMPRESSOR OUTDOOR CONDENSING UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
220V/50HZ AND 380V/50HZ



Model		RG-GN30EL	RG-GN40EL	RG-GN30FL	RG-GN40FL	RG-GN50FL	RG-GN60FL	RG-GN70FL
Power supply		Single phase 220V/50Hz		Three phase 380V/50Hz				
Evap.temp. range (°C)		-30~0°C						
Ambient temperature (°C)		0~40°C						
Refrigerant		R404A, R448A, R449A						
Pressure controller		High pressure & Low pressure switch						
Emerson compressor	Power	3HP	4HP	3HP	4HP	5HP	6HP	7HP
	Model	ZSI08KQE	ZSI11KQE	ZSI09KQE	ZSI11KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE
Fan motor	Fan QTY (PCS)	1	1	1	1	2	2	2
	Power supply	Single phase 220V/50Hz						
	Power (W)	160W						
Pipe (mm/inch)	Suction inlet OD	15.88(5/8")		15.88(5/8")		19.05(3/4")		
	Liquid outlet OD	9.52(3/8")		9.52(3/8")		12.7(1/2")		
External dimension (mm) L*W*H		1000*420*822		1000*420*822		1010*440*1220		
Install dimension (mm) Hole-L*W		Φ12-585*380		Φ12-585*380		Φ12-585*400		
		18-B		18-B		18-C		
Refrigeration capacity	Evap Temp (°C)	Refrigeration capacity: W Ambient temp.: 32°C						
	-30°C	2080	2810	2340	2790	4010	5160	5770
	-25°C	2590	3600	2930	3570	5110	6380	7100
	-20°C	3190	4460	3600	4420	6310	7810	8700
	-15°C	3890	5420	4370	5380	7660	9480	10570
	-10°C	4700	6550	5250	6490	9240	11420	12740
	-5°C	5640	7880	6270	7810	11110	13660	15220
	0°C	6710	9460	7440	9380	13350	16230	18030



>APPLICATIONS



OPEN-TYPE OUTDOOR CONDENSING UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
220V~240V/50HZ, 380V/50HZ



Model		RG-VSN15EL	RG-VSN25EL	RG-VSN30EL	RG-VSN25FL	RG-VSN30FL
Horsepower(HP)		1.5 HP	2.5 HP	3 HP	2.5 HP	3 HP
Evap.temp.range(°C)		-45~-5°C				
Ambient temperature(°C)		-7~43°C				
Refrigerant		R404A, R448A, R449A				
Powersupply		Sing phase 220V/50Hz			Three phase 380V/50Hz	
Compressor	Type	Sanyo rotary refrigeration compressor				
	Model	C-R220L4AL	C-3RV359L4AAL	C-3R463L4AAL	C-3RP359L4AAL	C-3RP547L4AAL
	Power	1.5 HP	2.5 HP	3 HP	2.5 HP	3 HP
Fan motor	Fan QTY (PCS)	1	1	1	1	1
	Power supply	Single phase 220V/50Hz				
	Input power (W)	62	165	205	165	205
	Fan diameter (mm)	φ300	φ350	φ400	φ350	φ400
	Air volume (m³/h)	1200	2100	3600	2100	3600
Stop valve	Suction inlet OD	12.7(1/2")	15.88(5/8")			
	Liquid outlet OD	9.52(3/8")	9.52(3/8")			
Refrigeration capacity	Evap. temp.(°C)	Refrigeration capacity: W Ambient temp.: 32°C				
	-40°C	840	1260	1620	1260	1620
	-35°C	1090	1580	2080	1580	2080
	-30°C	1190	1890	2630	1890	2630
	-25°C	1545	2310	3320	2310	3320
	-20°C	1865	2730	3955	2730	3955
	-15°C	2100	3095	4540	3095	4540
	-10°C	2426	3680	5485	3680	5485
	-5°C	2790	4100	6485	4100	6485
Product dimension (mm) L*W*H		615*540*431	680*580*540	720*600*540	680*580*540	720*600*540
Install dimension (mm) L*W		595*520	650*550	690*570	650*550	690*570

Note: Single phase 220V/60Hz open-type outdoor condensing units are available.

DIRECT CURRENT TECHNOLOGY FOR COMMERCIAL REFRIGERATION

RIGID REFRIGERATION offers a full range of air-cooled and water-cooled indoor and outdoor condensing units - engineered to meet a wide variety of sizes and applications in both commercial and industrial settings.

TYPICALLY
20%~30%
ENERGY SAVINGS



>PRODUCT FEATURES

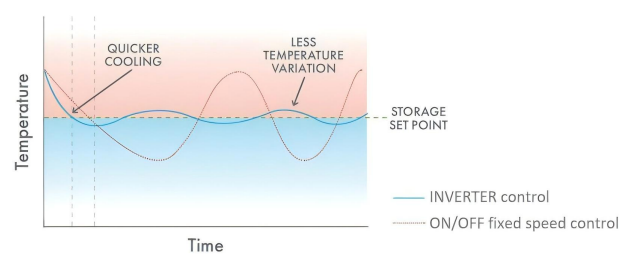
Key Features & Benefits:

01. **DC Inverter Compressor** - Delivers low noise, high efficiency, and up to 35% annual energy savings.
02. **DC Inverter Fan** - Automatically adjusts fan speed based on demand, quieter operation and efficiency.
03. **Advanced Soundproofing** - Thickened sound-absorbing insulation significantly reduces noise, quiet operation.
04. **Integrated Cabin Design** - No need for a separate machine room - quick to install and space efficient.
05. **Compact Footprint** - Smaller, smarter design saves installation space without compromising performance.

>TEMPERATURE CONTROL COMPARISON

Inverter Control vs. Fixed-Speed Systems

Unlike traditional ON/OFF systems, inverter technology continuously adjusts to the cooling load, minimizing energy waste and reducing operational costs. RIGID inverter condensing units typically deliver 20%-30% greater energy savings compared to fixed-speed systems.



RIGID RIGID HVAC CO., LTD

DC INVERTER OUTDOOR CONDENSING UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
SINGLE PHASE 220V / THREE PHASE 380V



INVERTER

Model		RG-BSN30EL	RG-BSN40EL	RG-BSN50FL	RG-BSN60FL	RG-BSN70FL	RG-BSN80FL	RG-BSN100FL
Power supply		Single phase 220V	Three phase 380V					
Evap. temp. range (°C)		-35~0°C						
Ambient temp. (°C)		-7~43°C						
Refrigerant		R404A, R448A, R449A						
Pressure sensor		High pressure: 0MPa~5MPa						
		Low pressure: 0MPa~2MPa						
Fan motor	Fan motor*QTY (PCS)	1	1	2	2	2	2	2
	Power supply	DC 312V						
	Power (W)	100W						
Pipe (mm)	Gas inlet OD	Φ15.88(5/8")		Φ22.7(7/8")			Φ22.7(7/8")	
	Liquid outlet OD	Φ9.52(3/8")		Φ12.7(1/2")			Φ15.88(5/8")	
Out dimension	Length (mm)	1000	1060	1010	1010	1010	1180	1180
	Width (mm)	420	420	440	440	440	480	480
	Height (mm)	822	920	1220	1220	1220	1545	1545
Install dimension (mm) Hole-L*W		φ12-585*380		φ12-585*400			φ12-820*450	
	Evap. temp.(°C)	Refrigeration capacity: W			Ambient temp.: 32°C		Speed: 75Hz	
Refrigeration capacity	-35°C	2490	3360	3850	5010	5760	5940	6820
	-30°C	3100	4190	4830	6280	7220	7700	8830
	-25°C	3810	5140	5960	7800	8960	9680	11110
	-20°C	4630	6250	7280	9530	10950	11920	13680
	-15°C	5590	7550	8820	11460	13170	14480	16620
	-10°C	6720	9070	10610	13570	15600	17420	19990
	-5°C	8010	10810	12670	15860	18230	20800	23870

HOT GAS DEFROST SYSTEM

The Advanced Hot Gas Defrost System

RIGID's Hot Gas Defrost System offers fast, reliable, and energy-efficient defrosting, enhancing productivity and preserving perishables. Available in two versions - cooling only and heating & cooling - RIGID's hot gas defrost systems are engineered for simplicity and high performance across various applications, including:

01. Cold storage warehouses
02. Agricultural processing
03. Fruit ripening chambers
04. Mushroom cultivation rooms
05. Temperature-controlled environments for produce during winter

> SMART REFRIGERATION STARTS WITH SMARTER DEFROSTING.

Hot gas defrost is an energy-saving alternative to traditional electric defrost systems. It works by redirecting hot discharge gas from the compressor through the evaporator coil. This rapidly melts accumulated frost without activating coil heaters. The gas then condenses back into liquid and returns to the system. This approach leads to faster defrost cycles, less temperature fluctuation, and lower energy consumption.

Choose RIGID's Hot Gas Defrost System for maximum efficiency, stable performance, and long-term savings.

> HOT GAS DEFROST VS. ELECTRIC DEFROST

ELECTRIC DEFROST vs. HOT GAS DEFROST		
Number of defrost	4@40 minutes/day	4@10 minutes/day
Steaming	Steaming is produced by excessive heat generated by coil heaters	Limited steaming is created because of the efficient use of hot gas as well as shorter defrost times
Overall investment	Lower initial investment Higher monthly energy bills Higher labor cost	Slightly higher initial investment Lower monthly energy bills Lower labor cost
Run time	18 hours	22 hours
Average box temperature rise	15-20°F	2-3°F

> HOT GAS DEFROST BENEFITS

DEPENDABLE PERFORMANCE

Fast and efficient defrosting, reduce downtime and improve system reliability, it is ideal for demanding commercial and industrial applications.

ENHANCED PRODUCT INTEGRITY

Shorter defrost cycles mean more stable box temperatures, preserving the freshness and quality of your perishable goods.

SIGNIFICANT ENERGY SAVINGS

Compared to electric defrost systems, hot gas defrost offers substantial reductions in power usage, saving thousands of dollars annually with intelligent defrost management.

HOT GAS DEFROST REFRIGERATION SYSTEM (COOLING ONLY)



HOT GAS DEFROST REFRIGERATION SYSTEM (HEATING AND COOLING)



> APPLICATIONS

