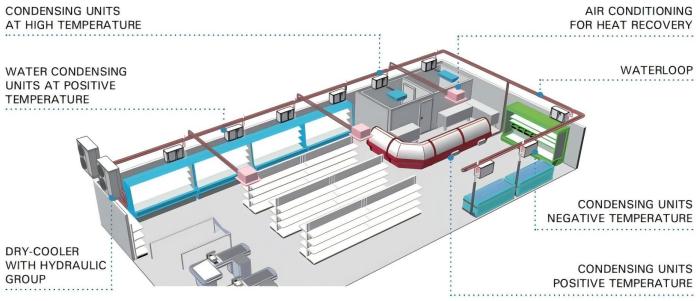
INVERTER WATER COOLED CONDENSING UNIT

R448A R449A R404A

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

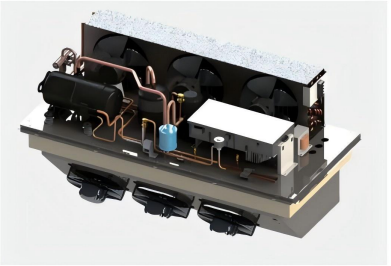
Model		RG-BSN30EL-SL	RG-BSN40EL-SL	RG-BSN50EL-SL	RG-BSN60EL-SL	RG-BSN70EL-SL	RG-BSN80EL-SL	RG-BSN100EL-SL
Horsepower (HP)		3 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10 HP
Power supply		Single phase 220V	Three phase 380V					
Evap. Temp. Range (°C)		-40~-5°C						
Ambient temp. (°C)		-7~43°C						
Refrigerant		R404A, R448A, R449A						
Speed range		30~80Hz	30-90Hz					
Max run current (A)		12	12	14	16	16	18	20
Water pipe	Water inlet OD	3/4"	1-1/4"(DN32)					
	Water outet OD	3/4"	1-1/4"(DN32)					
Refrigerant pipe	Gas inlet OD	Φ12.7(1/2")	Φ15.88(5/8")	19.05(3/4")			Φ22.7(7/8")	
	Liquid outlet OD	Φ9.52(3/8")	Φ9.52(3/8")	12.7(1/2")			Φ15.88(5/8")	
External dimnesion	L*W*H (mm)	975*420*680						
Installation pitch of holes		ϕ12-530*380						
Refrigeration capacity	Evap.Temp. (°C)	Refrigeration capacity: W Ambient temp.:32°C Speed:80Hz						
	-40°C	1670	2466	2802	3082	3110	3649	4147
	-30°C	2970	3799	4317	4748	5391	6326	7189
	-20°C	4362	5912	6719	7390	8394	9849	11193
	-10°C	5969	8804	10005	11005	12236	14357	16315



ALL-IN-ONE MONOBLOCKS REFRIGERATION UNIT

THE FUTURE OF REFRIGERATION IS NATURAL

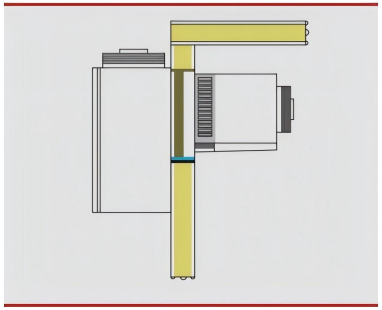
As the world shifts toward sustainable solutions, RIGID Monoblock Refrigeration Units with natural refrigerant R290 (propane) are setting the new standard for eco-friendly and energy-efficient cooling. Widely adopted across Europe – especially in supermarkets and cold rooms – R290 is the refrigerant of choice for businesses committed to environmental responsibility and superior efficiency. When it comes to balancing performance with sustainability, no alternative matches hydrocarbons like propane.



WHY CHOOSE RIGID MONOBLOCK UNITS?

RIGID's Monoblock Refrigeration System is an all-in-one solution. Pre-assembled, pre-charged, and factory-tested, it's ready for immediate installation – no separate components, no complex setup.

One section of the unit is mounted inside the cold room (evaporator), while the other is mounted outside (condenser and compressor). This plug-and-play design significantly reduces installation time and costs, making it ideal for rapid deployment in small to mid-sized cold storage applications.



WHY CHOOSE RIGID MONOBLOCK UNITS? SIMPLE. SMART. SUSTAINABLE.

01. Pre-Charged with R290 Refrigerant.
02. Quick, Plug-and-Play Installation.
03. Sanyo DC Inverter Compressor.
04. Electronic Expansion Valve.
05. Automatic Hot Gas Defrost.
06. Available in 220V / 50Hz ~ 60Hz.
07. Eco-Friendly, Energy-Saving Operation.
08. Supports Medium & Low Temperature Applications.

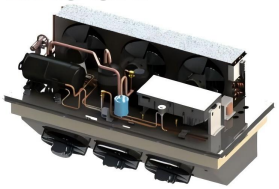
WALL-MOUNTED MONOBLOCK REFRIGERATION UNIT

R448A R449A R404A

MEDIUM-LOW TEMPERATURE
SINGLE PHASE 220V/50HZ OR 220V/60HZ

Model		RG-BYTCN10EL	RG-BYTCN20EL	RG-BYTCN30EL	RG-BYTCN40EL
Horsepower (HP)		1 HP	2 HP	3 HP	4 HP
Power supply		Single phase 220V/50Hz or 220V/60Hz			
Evap. Temp. Range (°C)		-40~-5°C			
Ambient Temp. (°C)		-7~43°C			
Refrigerant		R404A, R448A, R449A			
Max. run current (A)		5	9	13	18
Rated input power		780	1550	2260	3200
Compressor		Sanyo inverter compressor			
		C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B	C-RZ420L4BAL
Speed range		30~80Hz			
Defrost		Hot gas defrost			
Pressure control		High pressure switch/Low pressure switch			
Condenser fan motor	Power (W)	120	150	120	150
	QTY (PCS)	1	1	2	2
Evaporator fan motor	Power (W)	80	120	80	120
	QTY (PCS)	1	1	2	2
External dimension	Length ±3 (mm)	600	720	925	1025
	Width ±3(mm)	710	890	890	980
	Height ±3 (mm)	710	825	825	950
Net weight (KGS)		71 KG	82 KG	105 KG	150 KG
Refrigeration capacity	Evap. Temp.(°C)	Refrigeration capacity: W Ambient temp.: 32°C Speed: 70Hz			
	-35°C	760	1520	2050	2840
	-25°C	820	2300	3230	4050
	-15°C	1560	3050	4350	5800
	-5°C	2250	4280	6850	9100

ROOF-MOUNTED MONOBLOCK REFRIGERATION UNIT



R448A R449A R404A

MEDIUM-LOW TEMPERATURE SINGLE
SINGLE PHASE 220V/50HZ OR 220V/60HZ

Model		RG-BYTDN10EL	RG-BYTDN20EL	RG-BYTDN30EL
Horsepower (HP)		1 HP	2 HP	3 HP
Power supply		Single phase 220V/50Hz or 220V/60Hz		
Evap. Temp. Range (°C)		-40~-5°C		
Ambient Temp. (°C)		-7~43°C		
Refrigerant		R404A, R448A, R449A		
Max. run current (A)		5	9	13
Rated input power		780	1550	2260
Compressor		Sanyo inverter compressor		
		C-6RHVN63L0B	C-7RHVN113L0B	C-7RHVN153L0B
Speed range		30~80Hz		
Defrost		Hot gas defrost		
Pressure control		High pressure switch/Low pressure switch		
Condenser fan motor	Power (W)	23	23	23
	QTY (PCS)	2	3	3
Evaporator fan motor	Power (W)	36	36	36
	QTY (PCS)	2	3	3
External dimension	Length ±3 (mm)	937	1187	1347
	Width ±3(mm)	522	577	607
	Height ±3 (mm)	590	590	590
Refrigeration capacity	Evap. Temp.(°C)	Refrigeration capacity: W Ambient temp: 32°C Speed: 70Hz		
	-35°C	760	1520	2050
	-25°C	820	2300	3230
	-15°C	1560	3050	4350
	-5°C	2250	4280	6850

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 minites/day	4@10 minites/day
Steaming	Steaming is produced by excessive heat generated by coil heaters	Limited steaming is created because of the efficienct 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 gasdefrost 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