

## BLG Series Screw Compressor Condensing Units (Bitzer compressor)

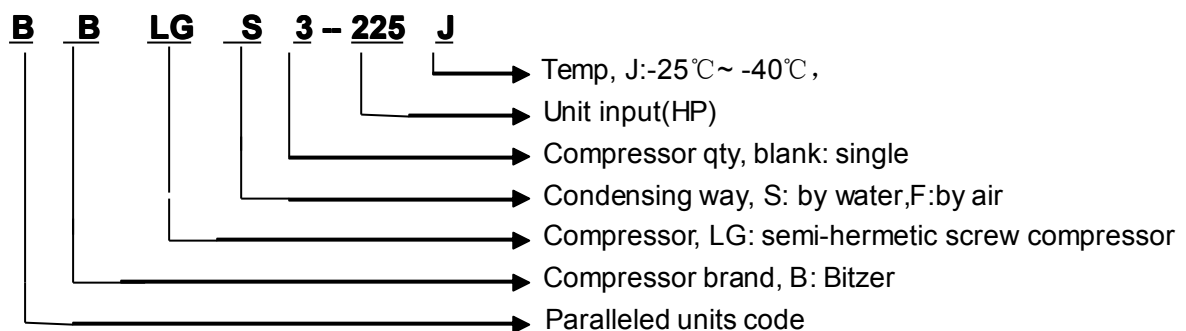
### 1. Product description:

With the quick development of refrigeration equipment market, there are more and more large, low temperature walk-in freezer, ice-making device and quick-freezer. The reciprocating compressor of freon is hard to meet the requirement, The BLGS series semi-hermetic low temperature screw compressor condensing units developed by our company can meet the  $-25^{\circ}\text{C} \sim -40^{\circ}\text{C}$ , which can be widely used for the larger equipment required for low temperature.

This series has the following characteristics:

- 1). Use the Bitzer semi-hermetic screw compressor made in Germany, which has the high efficiency, long life span, less vibration and low noise etc.
- 2). It is of complete configuration, with the main refrigeration parts and control accessories from world famous brand, having high reliability.
- 3). The units has multiple and safe protection for reverse rotation, overheat, overload, discharge temperature, low oil level, and high & low pressure in the system etc. to ensure the reliability in the performance.
- 4). The units is with economizer, which improve the capacity under low temperature condition greatly.
- 5). It is of multi-stage energy adjustment, to suit the change of different cooling load, and reduce the energy consumption effectively.

### 2. Model code:



### 3. Units component:

- Low temperature screw compressor •Oil separator •Oil cooler •Oil circuit package •Condenser
- liquid reservoir •Liquid pipe filter •liquid mirror •Economizer package •air inlet filter
- Pressure protector •Pressure meter •Economizer controller •Units controller(PCL)

### 4. Specification of low temperature, water-cooled screw compressor condensing units.

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## 1). Single compressor units:

Model		BLGS-50J	BLGS-60J	BLGS-70J	BLGS-75J	
Temperature( °C)		-25°C~ -40°C				
Refrigerant		R22				
Power		380V/50HZ				
compressor	Type	Semi-hermetic screw compressor				
	Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	
	Qty	1	1	1	1	
condenser	Type	tube & shell of high efficiency				
	Water flow(m3/h)	16	20	23	25	
	pipe	2"	2"	2"	2-1/2"	
Capacity & input	Evap -35°C	Capacity(W)	24.1	49	56.2	63.8
		Input(KW)	28	32.5	37.3	42.4
	Evap -40°C	Capacity(W)	32.7	38	43.6	49.5
		Input(KW)	26.1	30.4	34.8	39.5
	Evap -45°C	Capacity(W)	24.3	28.3	32.4	36.7
		Input(KW)	24.2	28.4	32.6	37
Pipe	Gas(mm)	φ54	φ76	φ76	φ76	
	Liquid(mm)	φ28	φ35	φ35	φ35	
Dimension A×B×C(mm)		1800×1050×1300	1800×1050×1300	1800×1050×1300	2000×1050×1300	

The condensing temperature is 40°C

## 2). Double-paralleled compressor condensing units.

Model		BBLGS2-100J	BBLGS2-120J	BBLGS2-140J	BBLGS2-150J	
Temperature( °C)		-25°C~-40°C				
Refrigerant		R22				
Power		380V/50HZ				
compressor	Type	Semi-hermetic screw compressor				
	Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	
	Qty	2	2	2	2	
condenser	Type	tube & shell of high efficiency				
	Water flow(m3/h)	33	40	45	50	
	pipe	2-1/2"	2-1/2"	3"	3"	
Capacity & input	Evap -35°C	Capacity(W)	84.2	98	112.4	127.6
		Input(KW)	56	65	74.6	84.8
	Evap -40°C	Capacity(W)	65.4	76	87.2	99
		Input(KW)	52.2	60.8	69.6	79
	Evap -45°C	Capacity(W)	48.6	56.6	64.8	73.5
		Input(KW)	48.8	56.8	65.2	74
Pipe	Gas(mm)	φ80	φ108	φ108	φ108	
	Liquid(mm)	φ35	φ35	φ42	φ42	
Dimension A×B×C(mm)		2400×1880×2100	2400×1880×2100	2400×1880×2100	2400×1880×2100	

The condensing temperature is 40°C

**3). Triple-paralleled compressor condensing units:**

Model		BBLGS3-150J	BBLGS3-180J	BBLGS3-210J	BBLGS3-225J	
Temperature( °C)		-25°C~-40°C				
Refrigerant		R22				
Power		380V/50HZ				
compressor	Type	Semi-hermetic screw compressor				
	Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	
	Qty	3	3	3	3	
condenser	Type	tube & shell of high efficiency				
	Water flow(m3/h)	50	60	66	75	
	pipe	3"	4"	4"	4"	
Capacity & Input	Evap -35°C	Capacity(W)	126.3	147	168.6	191.4
		Input(KW)	84	97.5	112	127.2
	Evap -40°C	Capacity(W)	98.1	114	130.8	148.5
		Input(KW)	78.3	91.2	104.4	118.5
	Evap -45°C	Capacity(W)	72.9	84.9	97.2	110.3
		Input(KW)	73.2	85.2	97.8	111
Pipe	Gas(mm)	2×φ80	2×φ80	2×φ108	2×φ108	
	Liquid(mm)	φ42	φ42	φ42	φ54	
Dimension A×B×C(mm)		3300×1880×2100	3300×1880×2100	3300×1880×2100	3300×1880×2100	

The condensing temperature is 40°C

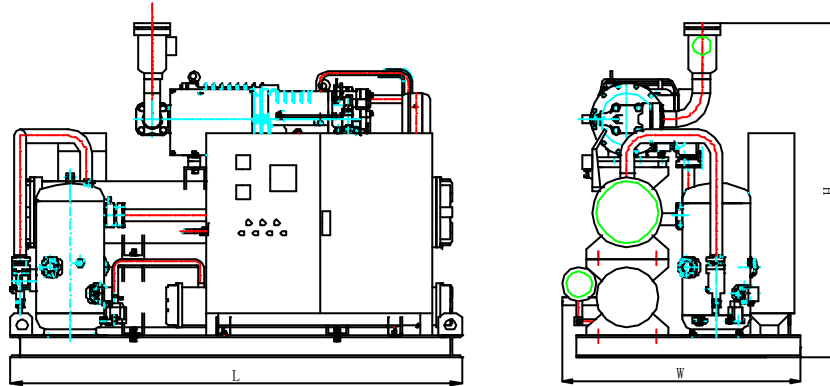
**4). Four-paralleled compressor condensing units.**

Model		BBLGS4-200J	BBLGS4-240J	BBLGS4-280J	BBLGS4-300J	
Temperature( °C)		-25°C~-40°C				
Refrigerant		R22				
Power		380V/50HZ				
compressor	Type	Semi-hermetic screw compressor				
	Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	
	Qty	4	4	4	4	
condenser	Type	tube & shell of high efficiency				
	Water flow(m3/h)	65	77	88	100	
	pipe	4"	4"	5"	5"	
Capacity & Input	Evap -35°C	Capacity(W)	168.4	196	224.8	255.2
		Input(KW)	112	130	149.2	169.6
	Evap -40°C	Capacity(W)	130.8	152	174.4	198
		Input(KW)	104.4	121.6	139.2	158
	Evap -45°C	Capacity(W)	97.2	113.2	129.6	147
		Input(KW)	97.6	113.6	130.4	148
Pipe	Gas(mm)	3×φ80	3×φ80	3×φ108	3×φ108	
	Liquid(mm)	φ42	φ54	φ54	φ54	
Dimension A×B×C(mm)		4100×1880×2100	4100×1880×2100	4100×1880×2100	4100×1880×2100	

The condensing temperature is 40°C

## 5. Units external diagram

### 1). Single compressor condensing units



### 2). Double-paralleled compressor condensing units.

