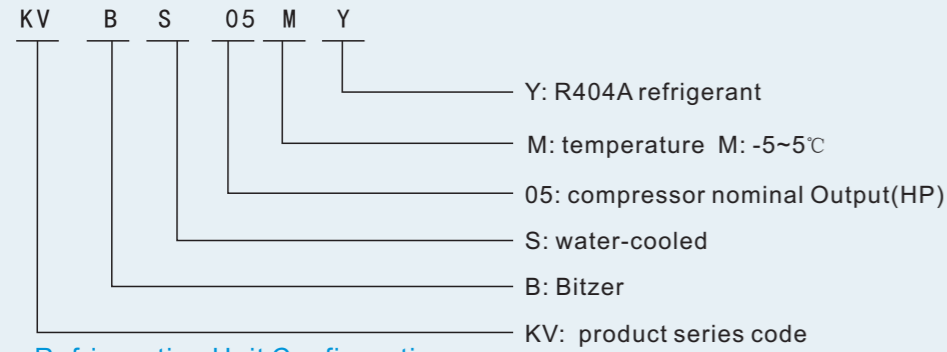


Bitzer Middle and High Temperature Water-cooled Condensing Unit/Refrigerant:R22

KVB series semi-hermetic box type condensing unit (Bitzer)



Refrigeration Unit Configuration:

Bitzer semi-hermetic compressor; Crankcase heater; Condensing unit; Reservoir; Strainer; Magnetic valve; Pressure controller; High and low voltage table; Interface valve; Junction box; Above 25HP, oil pressure differential controller

Features:

- ◆ Choosing Bitzer Semi-hermetic cooling compressor, smooth in operation, low noise and small vibration;
- ◆ Using copper tube and aluminum fin heat exchanger, wide prevailing wind, high heat exchange efficiency, long service life
- ◆ Adopting exterior rotor air blower, good fan appearance, low noise;
- ◆ Built-in junction box for convenient wiring.

II Technical Data

Bitzer Middle and High Temperature Water-cooled Condensing Unit

R22

Unit Model	KVBS03M	KVBS4M	KVBS05	KVBS06M	KVBS07M		
Temperature(°C)	-5°C ~5						
Refrigerant	R22						
Power	380V/three phase/50Hz						
Compressor Model	2DES3	2CES4	4FES5	4EES6	4DES7		
Rated Water Flow (m3/h)	2.5	3.1	3.5	4.3	5.2		
Compressor capacity and input	0°C	Capacity(W)	9640	11920	13600	16740	20300
		Power(KW)	2.84	3.51	3.86	4.83	5.66
	-5°C	Capacity(W)	7830	9710	11020	13600	16520
		Power(KW)	2.69	3.31	3.66	4.56	5.4
	-10°C	Capacity(W)	6270	7800	8800	10900	13230
		Power(KW)	2.5	3.06	3.4	4.22	5.06
Connector	Air suction connector(mm)	φ22	φ22	φ22	φ28	φ28	
	Feed flow connector(mm)	φ12	φ12	φ12	φ12	φ16	
Overall Dimension	L (mm)	745	935	1085	1085	1255	
	W (mm)	350	370	370	370	410	
	H (mm)	555	625	665	665	670	
Installation Dimension (AxB) mm	510×290	600×320	710×320	710×320	800×320		

Technical Data R22

Unit Model	KVBS09M	KVBS10M	KVBS12M	KVBS15M	KVBS20M		
Temperature(°C)	-5°C ~5						
Refrigerant	R22						
Power	380V/three phase/50Hz						
Compressor Model	4CES9	4VES10	4TES12	4PES15	4NES20		
Rated Water Flow (m3/h)	6.3	6.8	8.1	10	11.3		
Compressor capacity and input	0°C	Capacity(W)	24400	26700	32200	38400	44500
		Power(KW)	7.0	6.97	8.52	9.88	12.1
	-5°C	Capacity(W)	19890	21800	26300	31400	36300
		Power(KW)	6.64	6.61	8.09	9.35	11.34
	-10°C	Capacity(W)	15990	17630	21300	25300	29300
		Power(KW)	6.21	6.17	7.56	8.72	10.51
Connector	Air suction connector(mm)	φ28	φ28	φ35	φ42	φ42	
	Feed flow connector(mm)	φ16	φ16	φ16	φ16	φ22	
Overall Dimension	L (mm)	1255	1295	1295	1295	1295	
	W (mm)	410	480	480	480	525	
	H (mm)	670	770	770	770	770	
Installation Dimension (AxB) mm	800×320	850×390	850×390	850×390	850×390		

Bitzer Middle and High Temperature Water-cooled Condensing Unit

R22

Unit Model	KVBS25M	KVBS30M	KVBS35M	KVBS40M	KVBS50M		
Temperature(°C)	-5°C ~5						
Refrigerant	R22						
Power	380V/three phase/50Hz						
Compressor Model	4HE25	4GE30	6HE35	6GE40	6FE50		
Rated Water Flow (m3/h)	14.5	16.5	21.5	25.0	29.5		
Compressor capacity and input	0°C	Capacity(W)	56600	64900	85000	97400	115000
		Power(KW)	15.1	17.4	22.6	26.6	33.3
	-5°C	Capacity(W)	46300	53000	69500	79600	94100
		Power(KW)	14.2	16.7	21.3	25.0	31.3
	-10°C	Capacity(W)	37300	42800	56100	64300	76200
		Power(KW)	13.2	15.5	19.8	23.2	29.0
Connector	Air suction connector(mm)	φ54	φ54	φ54	φ54	φ54	
	Feed flow connector(mm)	φ22	φ22	φ28	φ28	φ28	
Overall Dimension	L (mm)	1295	1295	1650	1650	2095	
	W (mm)	565	565	600	600	600	
	H (mm)	840	840	830	830	830	
Installation Dimension (AxB) mm	850×390	850×390	1200×390	1200×390	1200×390		

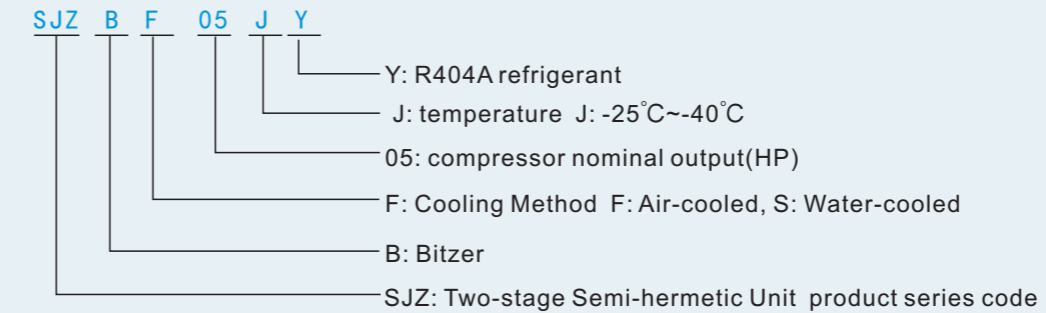
Unit Model		KVBS03L	KVBS04L	KVBS05L	KVBS06L	KVBS08L	
Temperature(°C)		-15°C ~ -20°C					
Refrigerant		R22					
Power		380V/three phase/50Hz					
Compressor Model		4FES3	4EES4	4DES5	4CES6	4TES9	
Rated Water Flow (m3/h)		1.8	2.2	2.6	3.0	4.0	
Compressor capacity and input	-20°C	Capacity(W)	5770	7250	8480	9780	13540
		Power(KW)	3.0	3.7	4.4	5.2	6.4
	-25°C	Capacity(W)	4440	5590	6560	7380	10430
		Power(KW)	2.6	3.3	3.9	4.7	5.7
	-30°C	Capacity(W)	3330	4220	4950	5360	7790
		Power(KW)	2.3	2.9	3.5	4.1	5.1
Connector	Air suction connector(mm)	φ 22	φ 28	φ 28	φ 28	φ 35	
	Feed flow connector(mm)	φ 12	φ 12	φ 12	φ 12	φ 16	
Overall Dimension	L (mm)	745	745	935	935	1138	
	W (mm)	290	290	370	370	380	
	H (mm)	610	610	670	670	715	
Installation Dimension (AxB) mm		510×290	510×290	600×320	600×320	710×320	

Technical Data R22

Unit Model		KVBS12L	KVBS14L	KVBS18L	KVBS23L	KVBS28L	KVBS34L	KVBS44L	
Temperature(°C)		-15°C ~ -20°C							
Refrigerant		R22							
Power		380V/three phase/50Hz							
Compressor Model		4PES12	4NES14	4HE18	4GE23	6HE28	6GE34	6FE44	
Rated Water Flow (m3/h)		4.6	5.4	6.8	8.0	10.0	12.0	14.5	
Compressor capacity and input	-20°C	Capacity(W)	15680	18340	23000	26500	34500	39800	47500
		Power(KW)	7.4	8.7	11.2	13.1	16.8	19.6	24.3
	-25°C	Capacity(W)	12060	14140	17540	20400	26300	30600	36700
		Power(KW)	6.6	7.6	9.8	11.4	14.6	17.2	21.4
	-30°C	Capacity(W)	9020	10490	13130	15250	19720	22900	27700
		Power(KW)	5.7	6.7	8.7	10.4	13.0	15.5	18.6
Connector	Air suction connector(mm)	φ 35	φ 35	φ 42	φ 54	φ 54	φ 54	φ 54	
	Feed flow connector(mm)	φ 16	φ 16	φ 22	φ 22	φ 22	φ 22	φ 28	
Overall Dimension	L (mm)	1255	1255	1295	1295	1295	1295	1650	
	W (mm)	415	415	585	565	595	595	600	
	H (mm)	715	715	835	840	830	830	830	
Installation Dimension (AxB) mm		800×320	800×320	850×390	850×390	850×390	850×390	1200×390	

Features:

- ◆ Choosing semi-hermetic two-stage compressor, with good quality and high reliability;
- ◆ Choosing famous refrigeration accessories with complete configuration, guaranteeing the reliable operation of the machine;
- ◆ Having low evaporation temperature, when using R22 refrigerant, minimum evaporation temperature can reach -50 °C; When using R404A refrigerant, minimum evaporation temperature is up to -65 °C. This can be used in low temperature box, quick frozen equipment etc.



Refrigeration Unit Configuration:

Two-stage compressor; Crankcase heater; Dashpot; Oil separator; Condenser; Reservoir; Strainer; Night vision; Magnetic valve; Subcooler; Gas-liquid separator; Pressure controller; Junction box.

Two-stage Air-cooled Condensing Unit

Unit Model		SJZBF05J	SJZBF08J	SJZBF12J	SJZBF16J	SJZBF20J	SJZBF25J	★SJZBF30J	
Temperature(°C)		-25°C ~ -40°C							
Refrigerant		R22							
Power		380V/three phase/50Hz							
Compressor Model		S4T5.2	S4N8.2	S4G12.2	S6J16.2	S6H20.2	S6G25.2	S6F30.2	
Condenser	Fanmotor Quantity	2	2	4	4	4	4	2	
	Voltage(V)	380	380	380	380	380	380	380	
	Power(W)	180×2	180×2	180×4	180×4	180×4	180×4	800×2	
Compressor capacity and input	-35°C	Capacity(W)	5000	7240	10930	16320	18920	21700	26000
		Power(KW)	3.75	5.6	8.46	11.97	13.87	15.92	19.05
	-40°C	Capacity(W)	3950	5680	8580	12920	14980	17200	20600
		Power(KW)	3.41	5.08	7.68	10.58	12.26	14.07	16.84
	-45°C	Capacity(W)	3020	4310	6510	9810	11370	13060	15620
		Power(KW)	3.04	4.56	6.89	9.17	10.63	12.2	14.6
Connector	Air suction connector(mm)	φ 28	φ 28	φ 35	φ 42	φ 42	φ 42	φ 42	
	Feed flow connector(mm)	φ 16	φ 16	φ 22	φ 22	φ 22	φ 22	φ 22	
Overall Dimension	A (mm)	1085	1270	1270	1270	1340	1340	1250	
	B (mm)	930	930	1050	1050	1110	1130	730	
	C (mm)	660	810	1210	1460	1410	1410	927	
Installation Dimension(AxB) mm		800×885	800×885	1000×1005	1000×1005	1000×1065	1000×1085	910×685	

Note: 1.design condensing temp:45°C; 2. using R404A refrigerant parameter for future reference; 3. not including condenser.

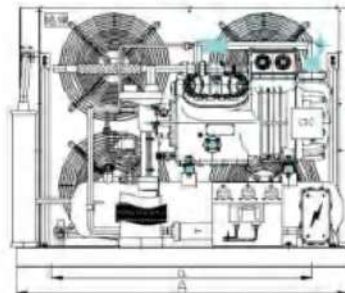
Two-stage Air-cooled Condensing Unit

Unit Model		SJZBS05J	SJZBS08J	SJZBS12J	SJZBS16J	SJZBS20J	SJZBS25J	SJZBS30J	
Temperature(°C)		-25°C~-40°C							
Refrigerant		R22							
Power		380V/three phase/50Hz							
Compressor Model		S4T-5.2	S4N-8.2	S4G-12.2	S6J-16.2	S6H-20.2	S6G-25.2	S6F-30.2	
Condenser	Type	Shell and Tube Type							
	Rated Water Flow(m ³ /h)	2	3	4	5.6	6.6	7.5	10	
	Water Outlet Spec	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"	2- 1/2"	
Compressor capacity and input	-35°C	Capacity(W)	5100	7380	11150	16490	19120	21900	26300
		Power(KW)	3.55	5.3	8.0	11.35	13.2	15.1	18.1
	-40°C	Capacity(W)	4010	5810	8780	13090	15170	17420	20800
		Power(KW)	3.23	4.81	7.26	10.1	11.67	13.4	16.0
	45°C	Capacity(W)	3080	4440	6700	1000	11600	13310	15930
		Power(KW)	2.88	4.33	6.54	8.8	10.2	11.7	14.0
Connector	Air suction connector(mm)	φ 28	φ 28	φ 35	φ 42	φ 42	φ 42	φ 42	
	Feed flow connector(mm)	φ 22	φ 22	φ 28	φ 28	φ 28	φ 28	φ 28	
Overall Dimension	A (mm)	900	1050	1260	1300	1300	1300	1300	
	B (mm)	650	650	720	720	720	720	720	
	C (mm)	795	855	950	990	990	990	990	
Installation Dimension(AxB) mm		500×605	650×605	800×675	880×675	880×675	880×675	880×675	

Note: 1.design condensing temp:40°C; 2. using R404A refrigerant parameter for future reference.

Refrigeration Structure Diagram

Air-Cooled Refrigeration Unit Diagram



Water-Cooler Refrigeration Unit Diagram

