

全国统一服务热线 4001 8989 63

MELUCK[®]
科技之美 • 乐享未来

MELUCK[®]
科技之美 • 乐享未来



安徽美乐柯制冷空调设备有限公司

Anhui Meluck Refrigeration Air-condition Equipment Co.,Ltd.

地址: 安徽省宣城市宣州经济开发区昭亭北路518号

Add: No 518, North Zhaoting Road, High-tech Zone, Xuancheng city, Anhui Province.

电话/Tel: +86-563-2527768 传真/Fax: +86-563-2527758

邮箱/E-mail: yf@sh-meluck.com



上海美乐柯冷链设备有限公司

Shanghai Meluck Refrigeration Equipment Co.,Ltd.

地址: 上海市嘉定区惠平路801号1幢11层1106室、1107室

Add: Room 1106&1107, 1# building, No 801, Huiping Road, Jiading District, Shanghai.

电话/Tel: +86-21-39199148 传真/Fax: +86-21-39199150

邮箱/E-mail: yf@sh-meluck.com



www.sh-meluck.com

Condensing Unit Cataloge



我司对样本中的各类技术参数保留自行更改而不另行通知的权利。
Our company reserves the right to modify the specification in t



2023年3月版



美乐柯集团
MELUCK Group

美乐柯集团简介

MELUCK Group Company Profile

美乐柯集团是一家集设计、研发、生产、销售、服务于一体的综合性公司，专业生产商业冷冻冷藏集成化设备，经营“美乐柯”品牌。公司拥有自营进出口权，属中国制冷学会团体会员、中国质量检验学会团体会员、中国知识产权保护协会会员，获得中华人民共和国特种设备制造许可证和全国工业产品生产许可证，国家高新技术企业，拥有《制冷空调维修安装》C2和压力管道设计安装GC2资质，率先在同行业中通过同类产品《企业标准》和ISO9001、ISO14001、ISO18001管理体系认证，是国家《安全生产标准化》单位。

美乐柯集团自1992年成立以来，经过公司全体员工的不断努力，现已成为商业冷冻冷藏集成化设备的龙头企业。至今公司拥有200亩的生产基地，300多名员工，产品与服务方案已应用到全球70多个国家，为上千万的冷链需求提供解决方案。

公司具备雄厚的制冷技术储备、先进的生产流水线和检测设备，按产品制造要求，建立了全套的生产制度流程与完善的质量保障体系。同时公司拥有一系列完整的晋升通道，培训体系，薪酬制度，保障了企业人才梯队建设与员工个人成长。公司注重科技创新投入，目前自行研制的很多关键部件已申请国家专利，至2019年已拥有5项发明专利、36项实用新型专利。

公司主要产品有：螺杆压缩机组，工业冷水机组，转子冷凝机组，涡旋冷凝机组，活塞冷凝机组，吊顶式冷风机，双侧出风冷风机，冷柜冷风机，立式冷风机，风冷冷凝器，壳管式冷凝器，壳管式蒸发器，压力容器等诸多产品。

企业愿景：致力于将美乐柯打造成百年企业。

企业使命：做行业内最优秀的冷冻冷藏集成系统服务商。

企业文化：以客户为中心，质量为本，简单高效，共创、共担、共享

Meluck Group is a comprehensive company integrating design, research and development, production, sales and service. It specializes in the production of integrated commercial freezing and refrigeration equipment and operates the "Meluck" brand. Our company has got licence of imports&exports rights, belongs to the group member of China Refrigeration Society, the group member of China Quality Inspection Society, the member of China Intellectual Property Protection Association, obtained the special equipment manufacturing license of the People's Republic of China and the national industrial product production license. It is a national high-tech enterprise with C2 qualification of "Refrigeration and Air Conditioning Maintenance and Installation" and pressure pipe design and installation GC2. It is the first ones in the industry to pass "Enterprise Standards" and ISO9001, ISO14001, ISO18001 management system certification, and passed «National safety production standardization».

Since its establishment in 1992, Meluck Group has become a leading enterprise in commercial refrigeration integrated equipment through the continuous efforts of all employees of the company. So far, the company has 200 acres of production base, more than 300 employees, products and service solutions have been applied to more than 70 countries around the world, providing solutions for tens of millions of cold chain needs.

The company has strong refrigeration technology reserves, advanced production lines and testing equipment. According to product manufacturing requirements, a complete production system process and a complete quality assurance system have been established. At the same time, the company has a series of complete promotion channels, training systems, and salary systems, which guarantee the construction of corporate talent echelon and personal growth of employees. The company focuses on investment in scientific and technological innovation. At present, many key components developed by itself have applied for national patents. By 2019, it has 5 invention patents and 36 utility model patents.

The company main products are: industrial chiller, screw condensing unit, rotor condensing unit, scroll condensing unit, piston condensing unit, ceiling mounted Evaporator, double-side blowing Evaporator, showcase Evaporator, standing Evaporator, air-cooled Condenser, shell and tube condenser, shell and tube evaporator, pressure vessel and many other related products.

Corporate vision: Committed to making Meluck a century-old enterprise.

Enterprise mission: To be the best service provider of integrated freezing and refrigeration systems in the industry.

Corporate culture: customer-centric, quality-oriented, simple and efficient, co-creating, sharing



美乐柯集团

MELUCK GROUP



安徽工厂——总部 Anhui Meluck Factory——Headquarter

美乐柯安徽工厂—安徽美乐柯空调设备有限公司总投资1.65亿元，占地200亩，是目前国内最大的制冷设备生产制造基地之一，专业制造和研发风冷凝器、蒸发器、冷凝机组、工业冷水机等制冷设备，公司2012年底已正式投入生产。
Anhui Meluck Refrigeration Air-condition Equipment Co.,Ltd. invested about U.S dollar Twenty Six Million, with 130000m² area; is one of the biggest refrigeration equipment manufacturing bases in China, specialized in manufacturing and researching for the refrigeration equipments like air cooled condenser, evaporator, condensing unit, industry chiller etc. the factory has started production in 2012.



上海美乐柯 Shanghai Meluck

上海美乐柯营销与服务中心，公司内有40名专业的销售和技术服务人员，为全球客户提供专业的技术支持和服务，公司具有GC2设计资质与安装资质，机电安装资质等众多权威资质，能为客户提供整体方案设计与选型服务。
Shanghai Meluck Marketing and Service Center consist of 40 skilled sales and technicians, providing professional technical supports and services to global customers. The company has GC2 design qualification and installation qualification, electromechanical installation qualification and many other authoritative qualifications. Can provide customers with overall program design and model selection services.

企业资质

Enterprise Qualification

不断创新, 确保客户对我们的产品满意,被我们的服务感动,争创名优!
Innovation, for the customer's satisfaction, With our excellent service and product



上海营业执照
Shanghai Business License



安徽营业执照
Anhui Business License



特种设备制造许可证
Certificate for Special High Pressure Vessel Manufacturing



压力管道设计证书
Pressure piping design certificate



压力管道安装证书
Pressure piping installation certificate



环境管理体系认证证书
Environmental management system certification



质量管理体系认证证书
Quality management system certification



安徽省商标品牌示范企业
Anhui Province Trademark Brand Demonstration Enterprise



高新技术企业证书
High-tech Enterprise Certificate



省认定企业技术中心证书
Provincial Certification of Enterprise Technology Center

一流的生产线

Advanced Machines Guarantee High Quality

精益化的生产节拍，标准化的工艺流程，通过优质的产品体现“美乐柯”的品牌价值

Advance equipment created excellent production ,and high quality of Meluck products.



先进的生产设备

Advanced Machines Guarantee High Quality

先进的设备和精湛的生产工艺，铸就了美乐柯产品的优秀品质！

Advance equipment created excellent production ,and high quality of Meluck products.



静电粉末喷涂生产线
Static electricity powder painting production line



数控折弯机
CNC bending machine



数控激光切割机
CNC laser cutting machine



卧式胀管机
Horizontal Type Pipe Expansion Machine



四柱油压机
4 Column Oil Pressing Machine



高速翅片冲压线
High-speed fin press line



数控5轴相贯线切割机器人
CNC 5-axis intersecting wire cutting robot

XJQ Series Box Type Hermetic Compressor Condensing Units

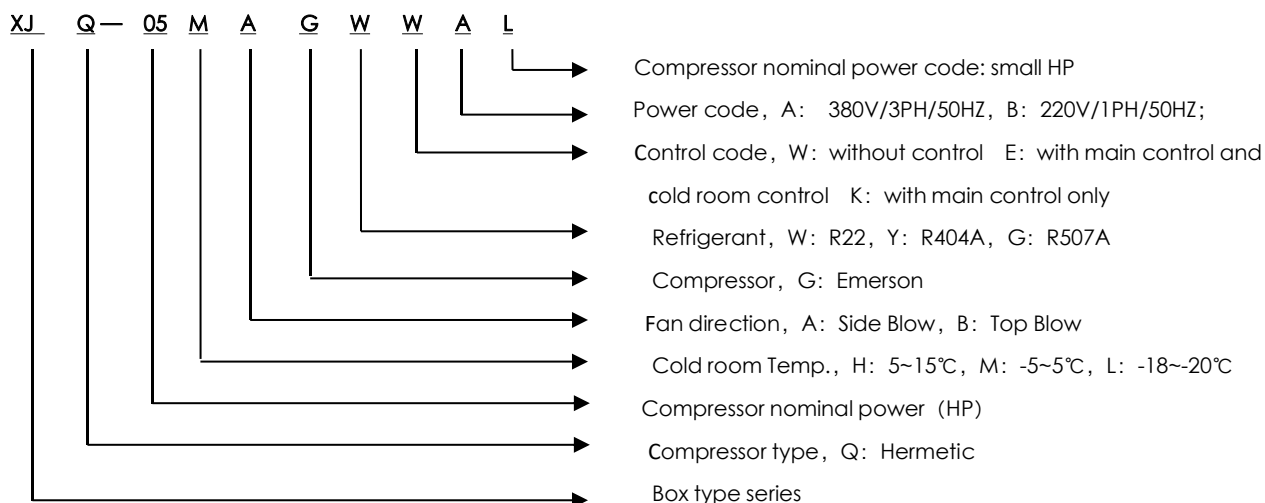
1、Product description:

According to demands of market, we design series XJ. This series products feature box type structure with hermetic compressor and control box, the applicable temperature ranges are: -5℃~15℃, -5℃~5℃ and -15~-20℃. They can be widely used in hotels, restaurants, medicines, agricultural, chemicals industries all other place where cold storage is needed.

Features of these series products:

- ◆ Condensing unit main control board, cold room temp control board and operation board. Cold room temp control board and operation board are optional.
- ◆ Main control board can start/stop compressor by system low voltage, be suitable for super market, milk container, water chiller etc. If all optional included, system can control compressor by temp., with function of temp. and defrosting adjustment. The complete set of control system can be used for cold room directly, no extra controller required.
- ◆ With multi protections including phase protection, phase lack, over current, too constant start of compressor, discharge temp and system high/low temp.
- ◆ With fan speed regulator, to adjust condensing fan according to condensing temp.
- ◆ With operation data display function, to check operation current of compressor, discharge temp. and condensing temp.
- ◆ With system alarm function. When fault effects, the system will make alarm beep sound to remind user.

2、Model code:



3、Main components:

①compressor ②suction and discharge valves ③ oil heating belt ④ condenser ⑤ liquid receiver
⑥Drier and filter ⑦sight glasses ⑧solenoid valve ⑨ diaphragm type pressure switch ⑩H/L pressure gauge
⑪ in/out pipe connection valve ⑫ liquid injection valve ⑬ enhanced gas injection ⑭ mechanical type low voltage control
⑮ mechanical type high voltage control ⑯ discharge temperature protector ⑰vibration eliminator ⑱oil separator ⑲gas separator ⑳ Electrical control

XJQ02H-XJQ05H: item①、④、⑤、⑥、⑧、⑨、⑩、⑪、⑬; optional: ⑦、⑭、⑮、⑲

XJQ08H-XJQ15H: item①、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑬; optional: ⑭、⑮、⑯、⑲、⑳

XJQ02M-XJQ07M: item①、④、⑤、⑥、⑧、⑨、⑩、⑪、⑬; optional: ⑦、⑭、⑮、⑲

XJQ08M-XJQ15M: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑬; optional: ⑭、⑮、⑯、⑲、⑳

XJQ20M-XJQ25M: item①、②、③、④、⑤、⑥、⑦、⑧、⑩、⑬、⑭、⑰、⑱; optional: ⑲、⑳

XJQ02L-XJQ07L: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑪、⑬、⑭; optional: ⑮、⑲

XJQ08L-XJQ15L: item①、②、③、④、⑤、⑥、⑦、⑧、⑩、⑬、⑮; optional: ⑯、⑲

XJQ20L-XJQ30L: item①、②、③、④、⑤、⑥、⑦、⑧、⑩、⑬、⑮、⑰、⑱; optional: ⑲、⑳

Notice: For condensing units with main control and cold room control, please selects evaporator fan motor with 220V power supply. For condensing units only with main control, item 14 is standard configuration.

4. Specifications:

4.1 Refrigerant R507A:

Model			XJQ02MAGGWA	XJQ03MAGGWA-L	XJQ03MAGGWA	XJQ04MAGGWA
Room temperature			-5℃ ~5 ℃			
Power supply			380V/3P/50HZ			
Compressor model			ZB15KQE	ZB20KFE	ZB21KQE	ZB29KQE
Condenser	Fan Qty		1	1	1	1
	Fan Volatge(V)		220	220	220	220
	Fan Input(W)		140	140	140	140
Cap. & input	Te -5℃	cap (W)	3820	5280	5740	7790
		input (W)	1760	2365	2500	3310
	Te -10℃	cap (W)	3080	4305	4680	6360
		input (W)	1820	2395	2510	3330
	Te -15℃	cap (W)	2430	3390	3780	5130
		input (W)	1880	2445	2510	3330
	Te -20℃	cap (W)	1870	2375	3020	4100
		input (W)	1930	2500	2520	3340
Pipe	Gas dia. (mm)		φ19	φ19	φ19	φ19
	Liquid dia. (mm)		φ10	φ10	φ10	φ12
Overall sizes	L (mm)		965	965	965	965
	W (mm)		410	410	410	410
	H (mm)		850	850	850	850
Install sizes(A×B)(mm)			581×380	581×380	581×380	581×380
Overall sizes			A			

Model			XJQ05MAGGWA-L	XJQ05MAGGWA	XJQ06MAGGWA	XJQ07MAGGWA
Room temperature			-5℃ ~5 ℃			
Power supply			380V/3P/50HZ			
Compressor model			ZB38KFE	ZB38KQE	ZB45KQE	ZB48KQE
Condenser	Fan Qty		2	2	2	2
	Fan Volatge(V)		220	220	220	220
	Fan Input(W)		140×2	140×2	140×2	140×2
Cap. & input	Te -5℃	cap (W)	9930	9830	11500	12550
		input (W)	1470	4180	4730	5210
	Te -10℃	cap (W)	8195	8020	9380	10200
		input (W)	4175	4200	4750	5230
	Te -15℃	cap (W)	6665	6480	7580	8180
		input (W)	4190	4210	4760	5240
	Te -20℃	cap (W)	5335	5170	6050	6490
		input (W)	4215	4210	4770	5240
Pipe	Gas dia. (mm)		φ19	φ19	φ19	φ19
	Liquid dia. (mm)		φ12	φ12	φ12	φ12
Overall sizes	L (mm)		965	965	965	965
	W (mm)		410	410	410	410
	H (mm)		1250	1250	1250	1250
Install sizes(A×B)(mm)			581×380	581×380	581×380	581×380
Overall sizes			A			

Remarks:1)Standard Condensing Temp 45C; 2)2HP-4HP can do 220V/50HZ, 4HP 220V use comp ZB26KQE

Model		XJQ08 MBGGWA	XJQ09 MBGGWA	XJQ10 MBGGWA	XJQ13 MBGGWA	XJQ15 MBGGWA	XJQ20 MBGGWA	XJQ25 MBGGWA
Room temperature		-10℃ ~-5 ℃						
Power supply		380V/3P/50 HZ						
Compressor model		ZB58KQE	ZB66KQE	ZB76KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB190KQE
Condenser	Fan Qty	1	1	1	2	2	2	2
	Fan Voltage(V)	380	380	380	380	380	380	380
	Fan Input(W)	600	600	600	450×2	450×2	800×2	800×2
Cap. & input	Te -5℃	cap (W)	15300	17100	20400	25000	29700	49000
		input (W)	6360	7090	8290	10700	12650	20600
	Te -10℃	cap (W)	12400	14000	16600	20300	24000	40100
		input (W)	6320	7050	8220	10600	12650	20400
	Te -15℃	cap (W)	9480	11300	13350	16100	18900	32600
		input (W)	6320	7020	8150	10600	12650	20200
	Te -20℃	cap (W)	7520	9000	10550	12200	14350	26300
		input (W)	6360	6980	8100	10600	12700	19850
Pipe	Gas dia. (mm)		φ28	φ28	φ28	φ35	φ35	φ42
	Liquid dia. (mm)		φ16	φ16	φ16	φ16	φ22	φ22
Overall sizes	L (mm)		968	968	968	1355	1355	1874
	W (mm)		865	865	865	864	864	970
	H (mm)		1185	1185	1185	1185	1185	1185
Install		670×825	670×825	670×825	950×824	950×824	1440×930	1440×930
Overall sizes		B	B	B	C	C	C	C

4.2 Low temperature series Refrigerant R507A

Model		XJQ02 LAGGWA	XJQ03 LAGGWA	XJQ04 LAGGWA	XJQ05 LAGGWA	XJQ06 LAGGWA	XJQ07 LAGGWA
Room temperature		-18℃ ~-20 ℃					
Power supply		380V/3P/50 HZ					
Compressor model		ZSI06KQE	ZSI 09KQE	ZSI 11KQE	ZSI 15KQE	ZSI 18KQE	ZSI 21KQE
Condenser	Fan Qty	1	1	1	2	2	2
	Fan Voltage(V)	220	220	220	220	220	220
	Fan Input(W)	140	140	140	140×2	140×2	140×2
Cap. & input	Te -20℃	Cap(W)	2070	2900	3690	5310	7220
		Input (W)	1780	2250	2630	3590	4900
	Te -25℃	Cap(W)	1620	2290	2920	4220	5180
		Input (W)	1730	2200	2570	3440	4280
	Te -30℃	Cap(W)	1260	1750	2220	3230	4090
		Input (W)	1660	2120	2440	3330	4170
Pipe	Gas dia.(mm)		φ19	φ19	φ19	φ19	φ19
	Liquid dia.(mm)		φ10	φ10	φ10	φ12	φ12
Overall sizes	L (mm)		965	965	965	965	965
	W (mm)		410	410	410	410	410
	H (mm)		850	850	850	1250	1250
Install sizes(A×B)(mm)		581×380	581×380	581×380	581×380	581×380	581×380
Overall sizes		A					

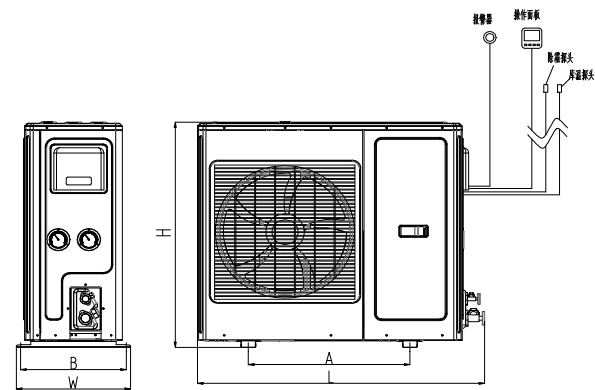
Remarks:1) Standard Condensing Temp 45C; 2)2HP-4HP can do 220V/50HZ; 3) 3HP 220V use Comp ZSI08KQE

Model		XJQ08 LBGGWA	XJQ12 LBGGWA	XJQ15 LBGGWA	XJQ18 LBGGWA	XJQ20 LBGGWA	XJQ25 LBGGWA	XJQ30 LBGGWA
Room Temperature		-18℃ ~-30 ℃						
Power supply		380V/3P/50 HZ						
Compressor model		ZFI 36KQE	ZFI 50KQE	ZFI 59KQE	ZFI 68KQE	ZFI 81KQE	ZFI 96KQE	ZFI 122KQE
Condenser	Fan Qty	1	1	1	2	2	2	2
	Fan Voltage(V)	380	380	380	380	380	380	380
	Fan Input(W)	600	600	600	450×2	800×2	800×2	800×2
Cap. & input	Te -25℃	Cap(W)	10650	14050	17500	19650	22400	30050
		Input	6460	8250	10250	11850	14150	17025
	Te -30℃	Cap(W)	8940	11600	14500	16250	18500	24950
		Input	6130	7870	9800	11350	13500	16350
	Te -35℃	Cap(W)	7450	9620	12000	13450	15300	20000
		Input	5740	7480	9310	11750	12800	15870
	Te -40℃	Cap(W)	6200	8120	10150	11300	12900	15875
		Input	5280	7110	8850	10200	12200	15075
pipe	Gas dia.(mm)		φ22	φ28	φ28	φ28	φ35	φ42
	Liquid dia.(mm)		φ12	φ16	φ16	φ16	φ16	φ22
Overall sizes	L (mm)		968	968	968	1355	1874	1874
	W (mm)		865	865	865	864	970	970
	H (mm)		1185	1185	1185	1185	1185	1185
Install sizes(A×B)(mm)		670×825	670×825	670×825	950×824	1440×930	1440×930	1440×930
Overall sizes Model		B	B	B	C	C	C	C

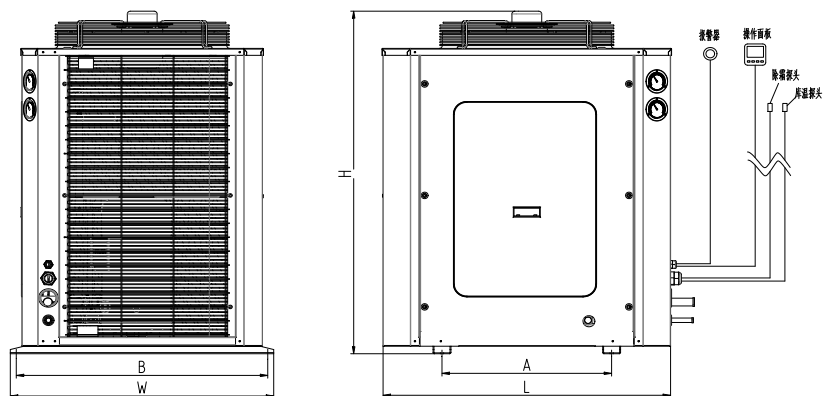
Remarks:1) Standard Condensing Temp 45C;

5. Diagrams for Overall sizes:

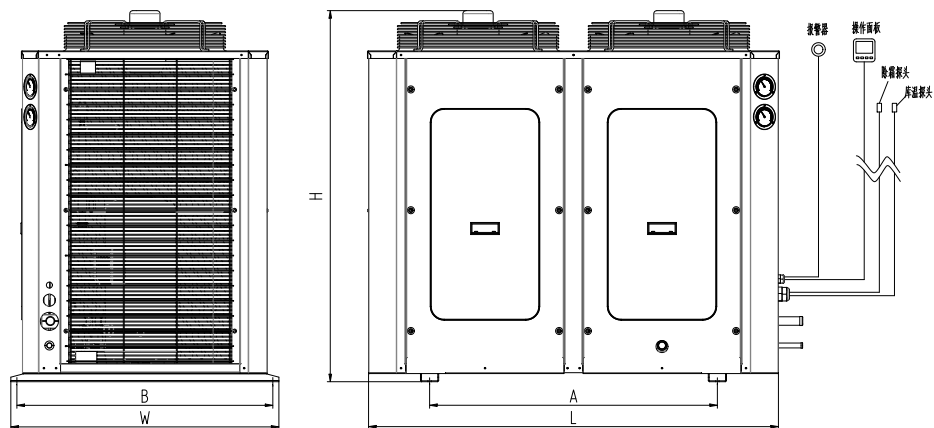
A



B



C

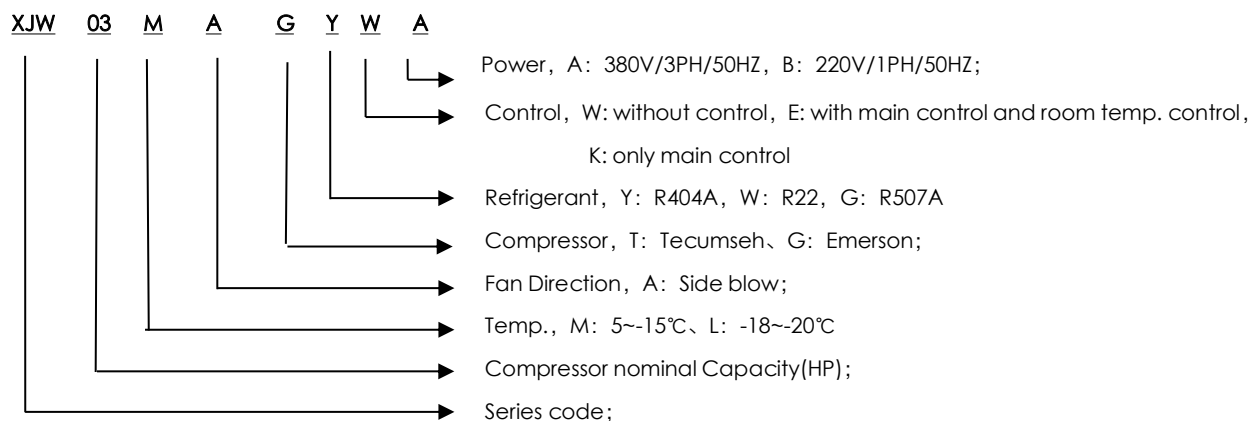


XJW Series Box Type Condensing Units

1、Product description

- ◆ Tecumseh piston compressor and Emerson scroll compressor, which has good reliability;
- ◆ Box-type integral structure, with beautiful appearance, compact structure and convenient installation;
- ◆ The condensing fan adopts 6-pole external rotor motor, which has high efficiency and low noise;
- ◆ The units are equipped with world-famous refrigeration accessories and are fully equipped;

2、Model code



3. Main components

- ① Compressor ② oil heating belt ③ condenser ④ liquid receiver ⑤ Drier and filter
 ⑥ sight glasses ⑦ solenoid valve ⑧ mechanical type high low voltage control ⑨ H/L pressure gauge ⑩ in/out connection valve
 ⑪ liquid injection valve ⑫ mechanical type low voltage control ⑬ discharge temperature protector
 ⑭ Electrical control

XJW0.6MATY-XJW03 MATY: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑫; optional: ⑭Electrical control

XJW01LATY-XJW03 LATY: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑫; optional: ⑭Electrical control

XJW02MAG-XJW06 MAG: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑫、⑬; optional: ⑭Electrical control

XJW02LAG-XJW06 LAG: item①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑪、⑫; optional: ⑭Electrical control

Notice: For condensing units with main control and cold room control, please select evaporator fan motor with 220V power supply.

4. Main components

4.1 Tecumseh compressor series:

Model			XJW0.6MATYWB	XJW01MATYWB	XJW1.7MATYWB	XJW02MATYWA	XJW03MATYWA
Room temperature			-5~5℃				
Refrigerant			R404A				
Power supply			220V/50HZ			380V/50HZ	
Comp	Model		Tecumseh Hermetical Reciprocating compressor				
	Type		CAJ9480Z	CAJ9510Z	CAJ4519Z	TFH4524Z	TFH4531Z
	Max current (A)		6.6	8.0	15.4	6.3	8.2
Con fan	Fan number		1	1	1	1	1
	Air flow (m³/h)		1845	1845	1845	3955	3955
	Fan power (W)		85	85	85	180	180
	Fan voltage		220V/50HZ				
Cap. & Input	Te0℃	Cap(W)	1874	2310	4070	4830	6143
		Input (W)	820	980	1850	2090	2610
	Te-5℃	Cap(W)	1553	1924	3340	3890	4990
		Input (W)	760	910	1720	1920	2385
	Te-10℃	Cap(W)	1266	1572	2700	3050	3970
		Input (W)	700	840	1590	1740	2150
Pipe	Gas (inch)		1/2SAE	5/8SAE	5/8SAE	5/8SAE	7/8SAE
	Liquid (inch)		3/8SAE	3/8SAE	3/8SAE	3/8SAE	3/8SAE
Overall sizes (L×W×H)mm			985×450×540	985×450×540	985×450×540	1185×500×640	1185×500×640
Install sizes(A×B)(mm)			650×400	650×400	650×400	800×450	800×450

Model			XJW01LATYWB	XJW1.5LATYWB	XJW02LATYWA	XJW03LATYWA
Room temperature			-15℃ ~-20 ℃			
Refrigerant			R404A			
Power supply			220V/50HZ		380/50HZ	
Comp	Model		Hermetical			
	Type		CAJ2446Z	CAJ2464Z	TFH2480Z	TFH2511Z
	Max current (A)		7.9	10.0	4.8	5.0
Con fan	Fan number		1	1	1	1
	Air flow (m3/h)		1845	1845	3955	3955
	Fan power (W)		85	85	180	180
	Fan voltage		220V/50HZ			
Cap. & Input	Te -20℃	Cap(W)	1296	1673	2416	3348
		Input (W)	950	1250	1837	2312
	Te-25℃	Cap(W)	1005	1300	1865	2518
		Input (W)	837	1100	1585	1960
	Te-30℃	Cap(W)	755	990	1347	1817
		Input (W)	723	955	1326	1635
e Pfp	Gas (inch)		1/2SAE	5/8SAE	5/8SAE	5/8SAE
	Liquid (inch)		3/8SAE	3/8SAE	3/8SAE	3/8SAE
Overall sizes (L×W×H)mm			985×450×540	985×450×540	1185×500×640	1185×500×640
Install sizes(A×B)(mm)			650×400	650×400	800×450	800×450

Remarks:1) Standard Condensing Temp 45C; Inspiratory Overheating 10C

4.2 Emerson compressor ZB series

Model		XJW02MAGGWA	XJW03MAGGWA	XJW04MAGGWA	XJW05MAGGWA	XJW06MAGGWA
Room temperature		-10℃ ~5 ℃				
Refrigerant		R507A				
Power supply		380V/50 HZ				
Comp	Model	Copeland Hermetic Scroll compressor				
	Type	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE
Con fan	Max current (A)	6.0	8.0	11.0	13.5	16.1
	Fan number	1	1	2	2	2
	Air flow (m ³ /h)	3955	3955	3955×2	3955×2	3955×2
	Fan power (W)	180	180	180×2	180×2	180×2
Cap. & Input	Fan voltage		220V/50HZ			
	Te 0℃	Cap(W)	4670	6990	9480	11950
		Input (W)	1720	2480	3290	4700
	Te-5℃	Cap(W)	3820	5740	7790	9830
		Input (W)	1760	2500	3310	4730
	Te-10℃	Cap(W)	3080	4680	6360	8020
		Input (W)	1820	2510	3330	4750
	Te-15℃	Cap(W)	2430	3780	5130	6480
		Input (W)	1880	2510	3330	4760
	Te-20℃	Cap(W)	1870	3020	4100	5170
		Input (W)	1930	2520	3340	4770
Pipe	Gas (inch)		3/4SAE	3/4SAE	7/8SAE	7/8SAE
	Liquid (inch)		3/8SAE	3/8SAE	1/2SAE	1/2SAE
Overall sizes (L×W×H)mm		1185×500×640	1185×500×640	1185×500×1240	1185×500×1240	1185×500×1240
Install sizes(A×B)(mm)		800×450	800×450	800×450	800×450	800×450

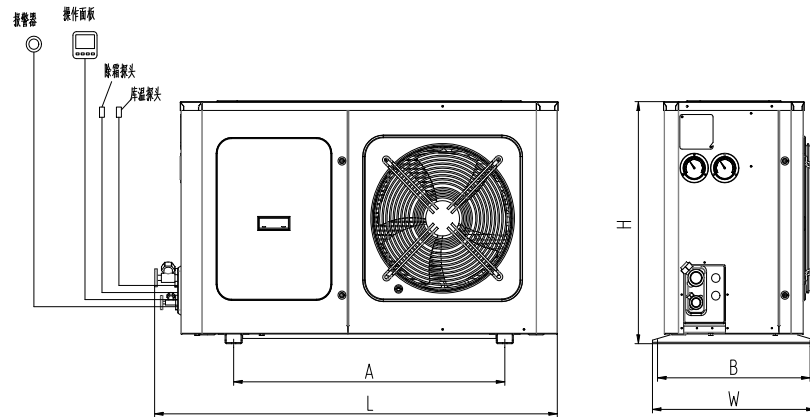
Cooling capacity at condensing temp

4.3 Emerson compressor ZSI series

Model		XJW02 LAGGWA	XJW03 LAGGWA	XJW04 LAGGWA	XJW05 LAGGWA	XJW06 LAGGWA	XJW07 LAGGWA	
Room temperature		-18℃ ~-20 ℃						
Refrigerant		R507A						
Power supply		380V/3P/50 HZ						
Comp	Model	Scroll Compressor						
	Type	ZSI06KQE	ZSI 09KQE	ZSI 11KQE	ZSI 5KQE	ZSI 18KQE	ZSI 21KQE	
	Max current (A)	5.7	6.7	7.5	11.9	13.7	14.6	
Con fan	Fan number	1	1	1	2	2	2	
	Air flow (m³/h)	3955	3955	3955	3955×2	3955×2	3955×2	
	Fan power (W)	180	180	180	180×2	180×2	180×2	
	Fan voltage	220V/50HZ						
Cap. & Input	Te-20℃	Cap(W)	2070	2900	3690	5310	6470	7220
		Input (W)	1780	2250	2630	3590	4440	4900
	Te-25℃	Cap(W)	1620	2290	2920	4220	5180	5770
		Input (W)	1730	2200	2570	3440	4280	4740
	Te-30℃	Cap(W)	1260	1750	2220	3230	4090	4580
		Input (W)	1660	2120	2440	3330	4170	4590
Pipe	Gas (inch)	3/4SAE	3/4SAE	3/4SAE	7/8SAE	7/8SAE	7/8SAE	
	Liquid (inch)	3/8SAE	3/8SAE	3/8SAE	1/2SAE	1/2SAE	1/2SAE	
Overall sizes (L×W×H)mm		1185×500 ×640	1185×500× 640	1185×500× 640	1185×500× 1240	1185×500× 1240	1185×500× 1240	
Install sizes(A×B)(mm)		800×450	800×450	800×450	800×450	800×450	800×450	

CoRemarks: 1) Standard Condensing Temp 45C; Inspiratory Overheating 10C

015、Diagrams for Overall sizes:



XJ Series Box type Semi-hermetic Condensing Units

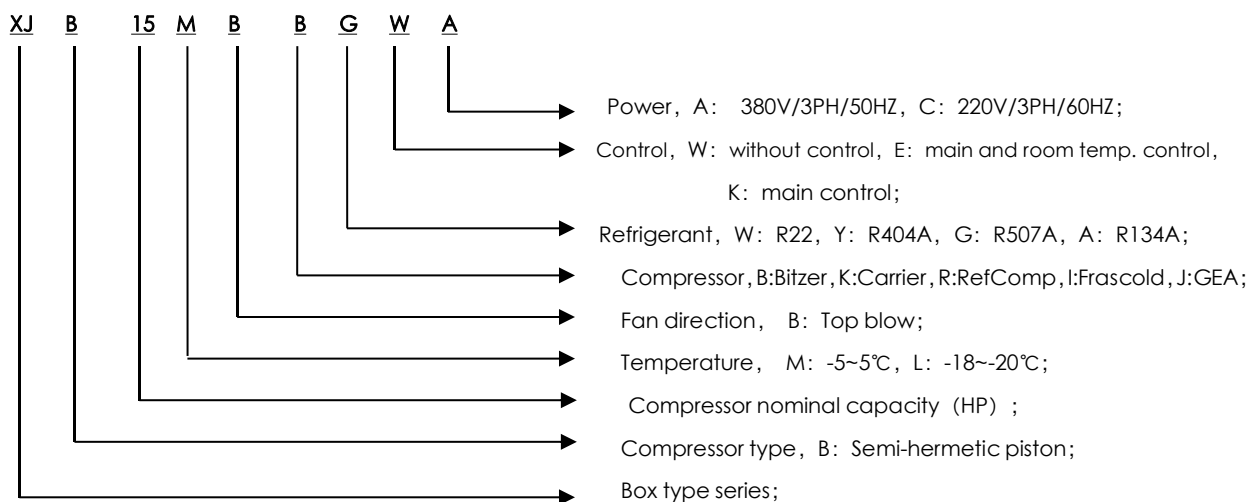
1, Product description:

According to demands of market, we design XJ series. This series products feature box type structure with hermetic compressor and control box. The applicable temperature ranges are: -5°C~5°C and -15~-30°C. They can be widely used in hotels, restaurants, medicines, agricultural, chemicals industries all other place where cold storage is needed.

Features of these series products:

- ◆ Electric components were added on the basis of old XJB series, including condensing unit, main control board, cold room temp control board and operation board. Cold room temp control board and operation board are optional.
- ◆ Main control board can start/stop compressor by system low voltage, be suitable for super market, milk container, water chiller etc. If all optional included, system can control compressor by temp., with function of temp. and defrosting adjustment. The complete set of control system can be used for cold room directly, no extra controller required.
- ◆ With multi protections including phase protection, phase lack, over current, too constant start of compressor, discharge temp and system high/low temp.
- ◆ With fan speed regulator, to adjust condensing fan according to condensing temp.
- ◆ With operation data display function, to check operation current of compressor, discharge temp. and condensing temp.
- ◆ With system alarm function. When fault effects, the system will make alarm beep sound to remind user.
- ◆ The operation board can show temp, setting, defrosting control, operation system data checking and coldroom temp. alarm functions. It can be installed apart from condensing units for remote control.

2. Model code:



3, Main components:

① compressor ② oil heating belt ③ Vibration Eliminator ④ Oil Separator ⑤ condenser ⑥ liquid receiver ⑦ filter ⑧ sight glass ⑨ solenoid valve ⑩ H/L pressure gauge ⑪ mechanical pressure switch ⑫ Oil pressure protection ⑬ oil/liquid accumulator ⑭ Low pressure control (for compressor) ⑮ Electrical control

XJB03M...XJB09MB、XJB04LB...XJB06LB:

Standard: ①、②、⑤、⑥、⑦、⑧、⑨、⑩、⑪; optional: ④、⑮

XJB12MB...XJB20MB、XJB09LB...XJB14LB:

Standard: ①、②、③、⑤、⑥、⑦、⑧、⑨、⑩、⑪; optional: ④、⑬、⑮

XJB25MB...XJB30MB、XJB18LB...XJB34LB:

Standard: ①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑪、⑫; optional: ⑬、⑮

Note: For condensing units with main control and cold room control, evaporator must with 220V single phase fan motor ;

For condensing units with main controller only, ⑭ is standard

4. Specifications

4.1、Medium Temperature series (Applicable for Te -5~5℃) 2) Refrigerant R507A:

Model		XJB03 MBBGWA	XJB04 MBBGWA	XJB05 MBBGWA	XJB06 MBBGWA	XJB07 MBBGWA	XJB09 MBBGWA
Room temperature		-5℃ ~5℃					
Power supply		380V/3P/50HZ					
Compressor model		2DES-3Y	2CES-4Y	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y
Condenser	Fan Qty	1	1	1	1	1	1
	Fan Voltage(V)	380	380	380	380	380	380
	Fan Input(W)	250	250	250	600	600	600
Cap.& input	Te-5℃	Cap(W)	7680	9770	10600	13320	19540
		input(kW)	3.21	4.07	4.38	5.54	8.13
	Te-10℃	Cap(W)	6150	7860	8470	10620	15570
		input(kW)	2.96	3.77	4.09	5.14	7.51
	Te-15℃	Cap(W)	4860	6240	6700	8370	12250
		input(kW)	2.69	3.44	3.76	4.7	6.82
Pipe	Gas dia.(mm)	φ22	φ22	φ22	φ28	φ28	φ28
	Liquid dia.(mm)	φ12	φ12	φ12	φ12	φ12	φ16
Overall sizes	L (mm)	969	969	969	968	968	968
	W (mm)	719	719	719	865	865	865
	H (mm)	790	790	790	1185	1185	1185
Install sizes (A×B) (mm)		606×679	606×679	606×679	670×825	670×825	670×825
TYPE		B					

Model		XJB12MBBGWA	XJB15MBBGWA	XJB20MBBGWA	XJB25MBBGWA	XJB30MBBGWA
Room temperature		-5℃ ~5℃				
Power supply		380V/3相/50HZ				
Compressor model		4TES-12Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y
Condenser	Fan Qty	2	2	2	2	2
	Fan Voltage(V)	380	380	380	380	380
	Fan Input(W)	450×2	450×2	800×2	800×2	800×2
Cap.& input	Te-5℃	Cap(W)	24700	28100	33600	44300
		input(kW)	9.86	11.17	13.32	17.59
	Te-10℃	Cap(W)	19530	22100	26700	35500
		input(kW)	9.02	10.17	12.2	16.19
	Te-15℃	Cap(W)	15.26	17140	20800	28000
		input(kW)	8.13	9.09	11	14.7
Pipe	Gas dia.(mm)	φ35	φ42	φ42	φ54	φ54
	Liquid dia.(mm)	φ16	φ16	φ22	φ22	φ22
Overall sizes	L (mm)	1355	1355	1874	1874	1874
	W (mm)	864	864	970	970	970
	H (mm)	1185	1185	1185	1185	1185
Install sizes (A×B) (mm)		950×824	950×824	1440×930	1440×930	1440×930
TYPE		C				

Remarks: Datasheet based on ambient temp 32C,condensing temp 45C.

2、Low Temperature series: (Refrigerant R507A)

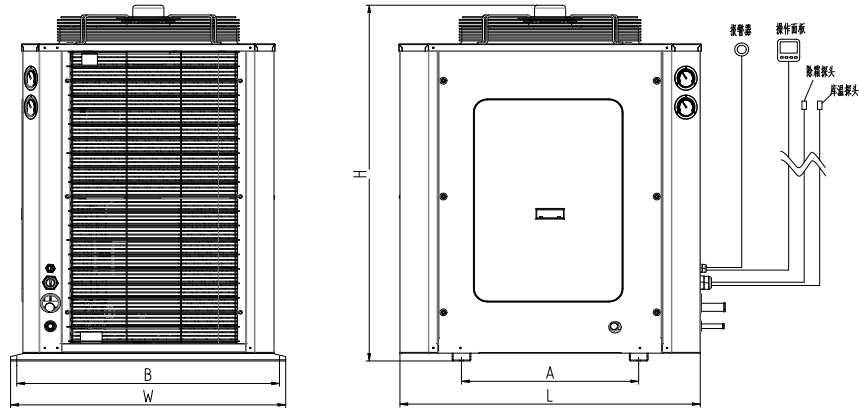
Model			XJB04 LBBGWA	XJB05 LBBGWA	XJB06 LBBGWA	XJB09 LBBGWA	XJB12 LBBGWA	XJB14 LBBGWA
Room temperature			-15℃ ~-30℃					
Power supply			380V/3P/50 HZ					
Compressor model			4EES-4Y	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y
Condenser	Fan Qty		1	1	1	1	1	1
	Fan Voltage(V)		380	380	380	380	380	380
	Fan Input(W)		250	250	250	600	600	600
Cap.& Input	Te -25℃	Cap (W)	5070	5870	7230	8860	9780	12030
		Input (kW)	3.84	4.41	5.36	6.35	6.88	8.58
	Te -30℃	Cap (W)	3800	4400	5380	6510	7060	8820
		Input (kW)	3.32	3.82	4.61	5.38	5.74	7.24
	Te -35℃	Cap (W)	2770	3210	3890	4620	4900	6260
		Input (kW)	2.8	3.24	3.89	4.46	4.64	5.94
	Te -40℃	Cap (W)	1960	2270	2710	3140	3220	4240
		Input (kW)	2.3	2.68	3.2	3.61	3.62	4.72
Pipe	Gas dia.(mm)		φ28	φ28	φ28	φ35	φ35	φ35
	Liquid dia.(mm)		φ12	φ12	φ12	φ16	φ16	φ22
Overall sizes		L (mm)	969	969	969	968	968	968
		W (mm)	719	719	719	865	865	865
		H (mm)	790	790	790	1185	1185	1185
Install sizes (A×B) (mm)			606×679	606×679	606×679	670×825	670×825	670×825
TYPE			B					

Model			XJB18LBBGWA	XJB23LBBGWA	XJB28LBBGWA	XJB34LBBGWA
Room temperature			-15℃ ~-30 ℃			
Power supply			380V/3P/50 HZ			
Compressor model			4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y
Condenser	Fan Qty		2	2	2	2
	Fan Voltage(V)		380	380	380	380
	Fan Input(W)		450×2	450×2	800×2	800×2
Cap.& input	Te -25℃	Cap (W)	17120	20200	24100	30400
		Input (kW)	12	14.27	17.13	21.8
	Te -30℃	Cap (W)	12810	15240	18250	23200
		Input (kW)	10.35	12.33	14.78	18.95
	Te -35℃	Cap (W)	9300	11210	13400	17190
		Input (kW)	8.75	10.46	12.46	16.19
	TE -40℃	Cap (W)	6480	7980	9430	12340
		Input (kW)	7.23	8.71	10.22	13.56
Pipe	Gas dia.(mm)		φ42	φ42	φ54	φ54
	Liquid dia.(mm)		φ22	φ22	φ22	φ22
Overall sizes		L (mm)	1355	1355	1874	1874
		W (mm)	864	864	970	970
		H (mm)	1185	1185	1185	1185
Install sizes (A×B) (mm)			950×824	950×824	1440×930	1440×930
TYPE			C			

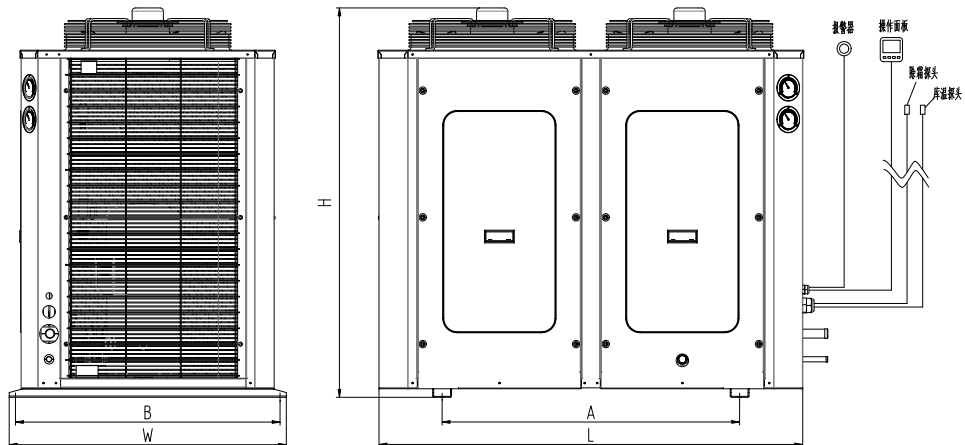
Remarks: Datasheet based on ambient temp 32C,condensing temp 45C,

5、Diagrams for Overall sizes:

B



C





Type B



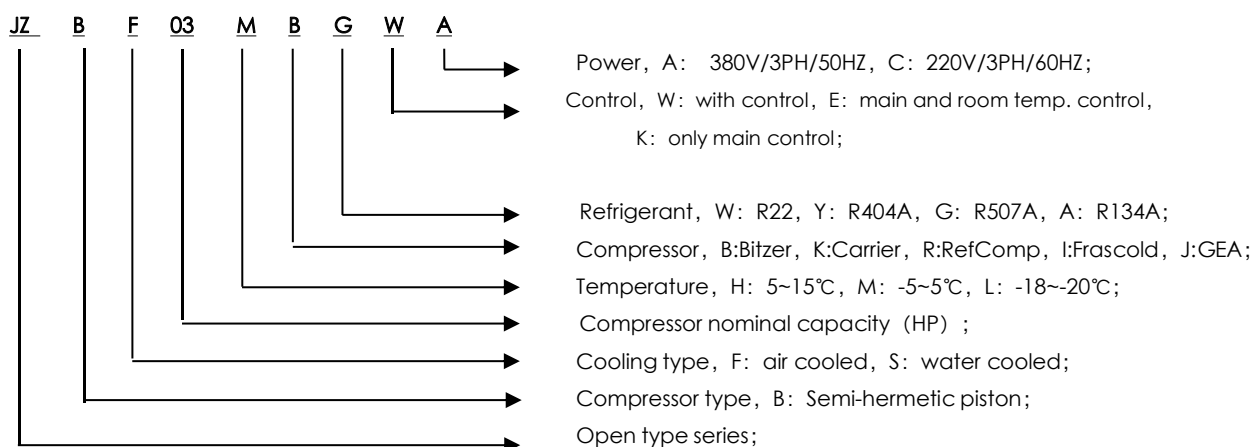
Type C

JZB Series Semi-hermetic Condensing Units

1, Product description:

- ◆ With Bitzer Ecoline series semi-hermetic compressor, good quality, work stable.
- ◆ With copper tube-Alu fin air cooled condenser of high efficient shell-tube water cooled condenser, high effective heat exchange, long service life.
- ◆ Air cooled condensing units with low noise and high efficient external rotor fan motor. Low noise, high effective and good looking.
- ◆ With high quality China made or imported components, full configuration, condensing units working stable.
- ◆ Condensing unit with water-proof cable connection box ,all the controlling component are connected in the connection box, easy for user' s connection.
- ◆ A complete product range with wide temp, can be used for keeping fresh, cold storage, ice making, low temperature cooling water and so on.

2、 Model



3. Main components:

- | | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------|--------------|
| ①Compressor | ②Oil heating | ③Vibration eliminator | ④Oil separator | ⑤Condenser |
| ⑥Liquid receiver | ⑦Filter | ⑧Sight glasses | ⑨Solenoid valve | ⑩H/L P gauge |
| ⑪Mechanical pressure controller | ⑫Oil pressure protect | ⑬Gas separator | ⑭Suction filter | |
| ⑮Electrical control box | | | | |

3.1 Air Cooled Condensing units:

- | | |
|--------------------------------------|--|
| JZBF02M...JZBF09M | Standard: ①、②、⑤、⑥、⑦、⑧、⑨、⑩、⑪; Optional: ③、④、⑬、⑭、⑮ |
| JZBF12M...JZBF20M | Standard: ①、②、③、⑤、⑥、⑦、⑧、⑨、⑩、⑪; Optional: ④、⑬、⑭、⑮ |
| JZBF02L...JZBF06L | Standard: ①、②、⑤、⑥、⑦、⑧、⑨、⑩、⑪; Optional: ③、④、⑬、⑭、⑮ |
| JZBF09L...JZBF14L | Standard: ①、②、③、⑤、⑥、⑦、⑧、⑨、⑩、⑪; Optional: ④、⑬、⑭、⑮ |
| JZBF25M...JZBF50M、JZBF18L...JZBF44L: | Standard: ①、②、③、④、⑤、⑥、⑦、⑧、⑨、⑩、⑪、⑫; Optional: ⑬、⑭、⑮ |

3.2 Water Cooled Condensing units:

- | | |
|--------------------------------------|--|
| JZBS03M...JZBS09M | Standard: ①、②、⑤、⑦、⑧、⑨、⑩、⑪; Optional: ③、④、⑬、⑭、⑮ |
| JZBS10M...JZBS20M | Standard: ①、②、③、⑤、⑦、⑧、⑨、⑩、⑪; Optional: ④、⑬、⑭、⑮ |
| JZBS03L...JZBS06L | Standard: ①、②、⑤、⑦、⑧、⑨、⑩、⑪; Optional: ③、④、⑬、⑭、⑮ |
| JZBS09L...JZBS14L | Standard: ①、②、③、⑤、⑦、⑧、⑨、⑩、⑪; Optional: ④、⑬、⑭、⑮ |
| JZBS25M...JZBS50M、JZBS18L...JZBS44L: | Standard: ①、②、③、④、⑤、⑦、⑧、⑨、⑩、⑪、⑫; Optional: ⑬、⑭、⑮ |

4. Specifications

4.1 Air cooled Medium Temp. Refrigerant R507A:

Model		JZBF02 MBGWA	JZBF03 MBGWA	JZBF03 MBGWA	JZBF03 MBGWA	JZBF04 MBGWA	JZBF05 MBGWA
Compressor Model		2GES-2Y	2FES-3Y	2EES-3Y	2DES-3Y	2CES-4Y	4FES-5Y
Temperature (°C)		-10℃ ~5 ℃					
Power supply		380V/3P/50 HZ					
Condenser	Fan Qty	1	1	2	2	2	2
	Voltage (V)	380	380	380	380	380	380
	Input (W)	180×1	180×1	140×2	140×2	180×2	180×2
Comp Cap. & Input	Tem -5℃	Capacity (W)	4140	5090	6620	7680	9770
		Input (kW)	1.94	2.39	2.74	3.21	4.07
	Tem -10℃	Capacity (W)	3310	4070	5290	6150	7860
		Input (kW)	1.81	2.22	2.53	2.96	3.77
	Tem -15℃	Capacity (W)	2610	3200	4170	4860	6240
		Input (kW)	1.66	2.03	2.31	2.69	3.44
Pipe	Gas In (mm)	φ22	φ22	φ22	φ28	φ28	φ28
	Liquid dia. (mm)	φ10	φ10	φ12	φ12	φ12	φ12
Overall Size	A (mm)	620	620	960	960	1060	1300
	B (mm)	650	650	680	680	680	750
	C (mm)	560	560	460	510	720	670
Installation size (a×b) (mm)		580×350	580×350	920×380	920×380	1020×380	1260×410

Rem

Model		JZBF06 MBGWA	JZBF07 MBGWA	JZBF09 MBGWA	JZBF12 MBGWA	JZBF15 MBGWA	JZBF20 MBGWA
Compressor Model		4EES-6Y	4DES-7Y	4CES-9Y	4TES-12Y	4PES-15Y	4NES-20Y
Temperature (°C)		-10℃ ~5 ℃					
Power supply		380V/3P/50 HZ					
Condenser	Fan Qty	2	2	2	4	4	4
	Voltage (V)	380	380	380	380	380	380
	Input (W)	180×2	250×2	250×2	180×4	180×4	180×4
Comp Cap. & Input	Tem -5℃	Capacity (W)	13320	15630	19540	24700	33600
		Input (kW)	5.54	6.42	8.13	9.86	11.17
	Tem -10℃	Capacity (W)	10620	12490	15570	19530	22100
		Input (kW)	5.14	5.97	7.51	9.02	10.17
	Tem -15℃	Capacity (W)	8370	9860	12250	15.26	17140
		Input (kW)	4.7	5.47	6.82	8.13	9.09
Pipe	Gas In (mm)	φ28	φ28	φ28	φ35	φ42	φ42
	Liquid dia. (mm)	φ12	φ16	φ16	φ16	φ22	φ22
Overall Size	A (mm)	1300	1300	1280	1280	1280	1350
	B (mm)	750	750	710	710	750	800
	C (mm)	770	870	910	1210	1460	1410
Installation size (a×b) (mm)		1260×410	1260×410	1000×665	1000×665	1000×705	1000×755

Remarks: Datasheet based on ambient temp 32C,condensing temp 45C,

Model		JZBF25MBGWA	JZBF30MBGWA	JZBF35MBGWA	JZBF40MBGWA	JZBF50MBGWA
Compressor Model		4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
Temperature (°C)		-10°C ~5 °C				
Power supply		380V/3P/50 HZ				
Condenser	Fan Qty	2	2	3	3	3
	Voltage (V)	380	380	380	380	380
	Input (W)	780×2	780×2	800×3	800×3	800×3
Comp Cap. & Input	Tem -5°C	Capacity (W)	44300	50900	60800	74000
		Input (kW)	17.59	20.3	25.3	30.3
	Tem -10°C	Capacity (W)	35500	40800	49100	59400
		Input (kW)	16.19	18.71	23.3	28
	Tem -15°C	Capacity (W)	28000	32300	39200	47200
		Input (kW)	14.7	16.99	21.2	25.6
Pipe	Gas In (mm)		φ54	φ54	φ54	φ54
	Liquid dia. (mm)		φ22	φ22	φ22	φ28
Overall Size	A (mm)		1150	1150	1050	1050
	B (mm)		570	570	600	600
	C (mm)		860	860	910	910
Installation size (a×b) (mm)		800×525	800×525	800×555	800×555	1000×600
Condenser size	A (mm)		1840	1840	2640	2640
	B (mm)		980	980	1030	1030
	C (mm)		1100	1100	1100	1100

ReRemarks: Datasheet based on ambient temp 32C,condensing temp 45C,

4.2 Air cooled Low Temp (R507A) :

Model		JZBF02LB GWA	JZBF02LB GWA	JZBF02LB GWA	JZBF03LB GWA	JZBF03LB GWA	JZBF04LB GWA
Compressor		2FES-2Y	2EES-2Y	2DES-2Y	2CES-3Y	4FES-3Y	4EES-4Y
Temperature (°C)		-15°C ~-30 °C					
Power supply		380V/3P/50 HZ					
Condenser	Fan Qty	1	1	1	2	2	2
	Voltage (V)	380	380	380	380	380	380
	Input (W)	140	180	180	140×2	140×2	180×2
Comp Cap. & Input	Tem -25°C	Capacity (W)	1870	2430	2860	3720	5070
		Input (kW)	1.64	1.79	2.14	2.76	3.84
	Tem -30°C	Capacity (W)	1370	1780	2110	2770	3800
		Input (kW)	1.42	1.53	1.84	2.39	3.32
	Tem -35°C	Capacity (W)	960	1250	1490	1990	2190
		Input (kW)	1.19	1.26	1.53	2.03	2.8
Pipe	Tem -40°C	Capacity (W)	620	810	990	1360	1560
		Input (kW)	0.97	1.01	1.23	1.67	1.88
	Gas In (mm)		φ16	φ22	φ22	φ22	φ28
Overall Size	Liquid dia. (mm)		φ10	φ10	φ12	φ12	φ12
	A (mm)		620	620	620	960	960
	B (mm)		650	650	650	680	680
Installation size (a×b) (mm)	C (mm)		510	560	560	460	510
			580×350	580×350	580×350	920×380	920×380

Remarks: Datasheet based on ambient temp 32C,condensing temp 45C,

Model		JZBF05LBGWA	JZBF06LBGWA	JZBF09LBGWA	JZBF12LBGWA	JZBF14LBGWA
Compressor		4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y
Temperature (°C)		-15℃ ~-30 ℃				
Power supply		380V/3P/50 HZ				
Condenser	Fan Qty	2	2	2	2	4
	Voltage (V)	380	380	380	380	380
	Input (W)	180×2	180×2	250×2	250×2	180×4
Comp Cap. & Input	Tem -25℃	Capacity (W)	5870	7230	8860	9780
		Input (kW)	4.41	5.36	6.35	6.88
	Tem -30℃	Capacity (W)	4400	5380	6510	7060
		Input (kW)	3.82	4.61	5.38	5.74
	Tem -35℃	Capacity (W)	3210	3890	4620	4900
		Input (kW)	3.24	3.89	4.46	4.64
	Tem -40℃	Capacity (W)	2270	2710	3140	3220
		Input (kW)	2.68	3.2	3.61	3.62
Pipe	Gas In (mm)	φ28	φ28	φ35	φ35	φ35
	Liquid dia. (mm)	φ12	φ12	φ16	φ16	φ22
Overall Size	A (mm)	1060	1300	1280	1280	1280
	B (mm)	680	750	710	710	750
	C (mm)	720	670	910	910	1210
Installation size (a×b) (mm)		1020×380	1260×410	1000×665	1000×665	1000×705

Model		JZBF18LBGWA	JZBF23LBGWA	JZBF28LBGWA	JZBF34LBGWA	JZBF44LBGWA
Compressor		4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
Temperature (°C)		-15℃ ~-30 ℃				
Power supply		380V/3P/50 HZ				
Condenser	Fan Qty	4	4	4	2	2
	Voltage (V)	380	380	380	380	380
	Input (W)	180×4	180×4	180×4	780×2	780×2
Comp Cap. & Input	Tem -25℃	Capacity (W)	17120	20200	24100	30400
		Input (kW)	12	14.27	17.13	21.8
	Tem -30℃	Capacity (W)	12810	15240	18250	23200
		Input (kW)	10.35	12.33	14.78	18.95
	Tem -35℃	Capacity (W)	9300	11210	13400	17190
		Input (kW)	8.75	10.46	12.46	16.19
	Tem -40℃	Capacity (W)	6480	7980	9430	12340
		Input (kW)	7.23	8.71	10.22	13.56
Pipe	Gas In (mm)	φ42	φ54	φ54	φ54	φ54
	Liquid dia. (mm)	φ22	φ22	φ22	φ22	φ28
Overall Size	A (mm)	1280	1350	1350	1150	1050
	B (mm)	800	850	850	570	600
	C (mm)	1460	1410	1410	1000	1050
Installation size (a×b) (mm)		1000×755	1000×805	1000×805	800×525	800×555
Condenser size	A (mm)	---	---	---	1840	1840
	B (mm)	---	---	---	980	980
	C (mm)	---	---	---	1100	1100

Remarks: Datasheet based on condensing temp 45℃, m

4.3 Water cooled Middle Temp. Refrigerant R507A

Model			JZBS03 MBGWA	JZBS03 MBGWA	JZBS03 MBGWA	JZBS04 MBGWA	JZBS05 MBGWA	JZBS06 MBGWA
Compressor			2FES-3Y	2EES-3Y	2DES-3Y	2CES-4Y	4FES-5Y	4EES-6Y
Temperature (°C)			-10℃ ~5 ℃					
Power supply			380V/3P/50 HZ					
Comp Cap. & Input	Tem -5℃	Capacity (W)	5740	7420	8600	10910	11860	14890
		Input (kW)	2.25	2.61	3.04	3.84	4.14	5.24
	Tem -10℃	Capacity (W)	4610	5970	6930	8820	9520	11940
		Input (kW)	2.1	2.43	2.83	3.59	3.89	4.9
	Tem -15℃	Capacity (W)	3660	4740	5520	7050	7560	9450
		Input (kW)	1.94	2.23	2.6	3.31	3.61	4.51
Nominal cooling water flo (m3/h)			1.8	2.0	2.5	3.0	3.2	4.1
Connection	Gas in (mm)		φ16	φ22	φ22	φ22	φ22	φ28
	Liquid dia (mm)		φ12	φ12	φ12	φ12	φ12	φ12
	Cooling water(inch)		1-1/4 "	1-1/4 "	1-1/4 "	1-1/4 "	1-1/4 "	1-1/2 "
Overall Size		A (mm)	745	745	745	935	1085	1085
		B (mm)	350	350	350	370	370	370
		C (mm)	515	555	555	625	665	665
Installation size (a×b) (mm)			510×290	510×290	510×290	600×320	710×320	710×320

Model			JZBS07MBGWA	JZBS09MBGWA	JZBS12MBGWA	JZBS15MBGWA	JZBS20MBGWA
Compressor			4DES-7Y	4CES-9Y	4TES-12Y	4PES-15Y	4NES-20Y
Temperature (°C)			-10℃ ~5 ℃				
Power supply			380V/3P/50 HZ				
Comp Cap. & Input	Tem -5℃	Capacity (W)	17390	21700	27500	31500	37500
		Input (kW)	6060	7.66	9.33	10.62	12.6
	Tem -10℃	Capacity (W)	13970	17400	22000	25000	29900
		Input (kW)	5.68	7.14	8.61	9.76	11.64
	Tem -15℃	Capacity (W)	11100	13790	17290	19540	23600
		Input (kW)	5.24	6.54	7.82	8.8	10.58
Nominal cooling water flo (m3/h)			5.0	6.0	8.0	9.0	10.3
Connection	Gas in (mm)		φ28	φ28	φ35	φ42	φ42
	Liquid dia (mm)		φ16	φ16	φ16	φ16	φ22
	Cooling water(inch)		1-1/2 "	1-1/2 "	1-1/2 "	1-1/2 "	2 "
Overall Size		A (mm)	1255	1255	1295	1295	1295
		B (mm)	410	410	480	480	525
		C (mm)	670	670	770	770	770
Installation size (a×b) (mm)			800×320	800×320	850×390	850×390	850×390

Condensing Temp.40℃

Model			JZBS25MBGWA	JZBS30MBGWA	JZBS35MBGWA	JZBS40MBGWA	JZBS50MBGWA
Compressor			4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
Temperature (°C)			-10℃ ~5 ℃				
Power supply			380V/3P/50 HZ				
Comp Cap. & Input	Tem -5℃	Capacity (W)	49400	56700	67600	82400	100400
		Input (kW)	16.68	19.3	24	28.7	35.7
	Tem -10℃	Capacity (W)	39700	45700	54800	66500	81200
		Input (kW)	15.47	17.89	22.3	26.7	33.2
	Tem -15℃	Capacity (W)	31600	36400	43900	53100	64900
		Input (kW)	14.16	16.37	20.4	24.6	30.4
Nominal cooling water flow (m3/h)			14	16	19	24	29
Connection	Gas in (mm)		φ54	φ54	φ54	φ54	φ54
	Liquid dia (mm)		φ22	φ22	φ22	φ28	φ28
	Cooling water(inch)		2 "	2-1/2 "	2-1/2 "	2-1/2 "	3 "
Overall Size		A (mm)	1295	1295	1650	1650	2095
		B (mm)	565	565	600	600	600
		C (mm)	840	840	830	830	830
Installation size (a×b) (mm)			850×390	850×390	1200×390	1200×390	1200×390

Condensing Temp.40℃

4.4 Water cooled Low Temp Refrigerant R507A

Model			JZBS03LBGWA	JZBS03LBGWA	JZBS04LBGWA	JZBS05LBGWA	JZBS06LBGWA	JZBS09LBGWA
Compressor			2CES-3Y	4FES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4TES-9Y
Temperature (°C)			-15℃ ~-30 ℃					
Power supply			380V/3P/50 HZ					
Comp Cap. & Input	Tem	Capacity (W)	4290	4570	5800	6720	8290	10240
	-25℃	Input (kW)	2.7	2.97	3.73	4.29	5.22	6.2
	Tem	Capacity (W)	3240	3460	4390	5090	6240	7620
	-30℃	Input (kW)	2.36	2.61	3.25	3.74	4.54	5.3
	Tem	Capacity (W)	2370	2570	3250	3760	4580	5510
	-35℃	Input (kW)	2.02	2.24	2.77	3.2	3860	4.44
	Tem	Capacity (W)	1660	1850	2330	2700	3250	3.82
	-40℃	Input (kW)	1.69	1.89	2.31	2.68	3.21	3.63
Nominal cooling water flow (m3/h)			1.5	1.6	2.0	2.5	3.0	4.0
Connection	Gas in (mm)		φ22	φ22	φ28	φ28	φ28	φ35
	Liquid dia (mm)		φ12	φ12	φ12	φ12	φ12	φ16
	Cooling water(inch)		1-1/4 "	1-1/4 "	1-1/4 "	1-1/4 "	1-1/4 "	1-1/4 "
Overall Size		A (mm)	745	745	745	935	935	1140
		B (mm)	350	350	350	370	370	380
		C (mm)	555	610	610	670	670	715
Installation size (a×b) (mm)			510×290	510×290	510×290	600×320	600×320	710×320

Condensing Temp.40℃

Model			JZBS12 LBGWA	JZBS14 LBGWA	JZBS18 LBGWA	JZBS23 LBGWA	JZBS28 LBGWA	JZBS34 LBGWA	JZBS44 LBGWA
Compressor			4PES-12Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
Temperature (°C)			-15℃ ~-30 ℃						
Power supply			380V/3P/50 HZ						
Comp Cap. & Input	Tem -25℃	Capacity (W)	11410	13930	19600	23000	27400	34500	41200
		Input (kW)	6.81	8.45	11.72	13.88	16.7	21.1	25.5
	Tem -30℃	Capacity (W)	8380	10370	14840	17540	21000	26500	31500
		Input (kW)	5.76	7.23	10.2	12.09	14.54	18.46	22.4
	Tem -35℃	Capacity (W)	5950	7500	10930	13060	15630	19940	23400
		Input (kW)	4.74	6.03	8.71	10.34	12.4	15.91	19.26
	Tem -40℃	Capacity (W)	4020	5210	7760	9420	11240	14530	16860
		Input (kW)	3.77	4.88	7.28	8.68	10.31	13.46	16.19
Nominal cooling water flo (m3/h)			4.0	5.0	7.0	8.0	10.0	12.0	15
Connection	Gas in (mm)		φ35	φ35	φ42	φ54	φ54	φ54	φ54
	Liquid dia (mm)		φ16	φ16	φ22	φ22	φ22	φ22	φ28
	Cooling water(inch)		1-1/2 "	1-1/2 "	1-1/2 "	1-1/2 "	2 "	2 "	2-1/2 "
Overall Size		A (mm)	1255	1255	1295	1295	1295	1295	1650
		B (mm)	415	415	585	565	595	595	600
		C (mm)	715	715	835	840	830	830	830
Installation size (a×b) (mm)			800×320	800×320	850×390	850×390	850×390	850×390	1200×390

Condensing Temp.40℃

5. Diagrams for Overall Sizes

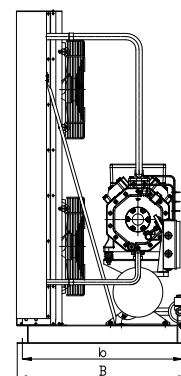
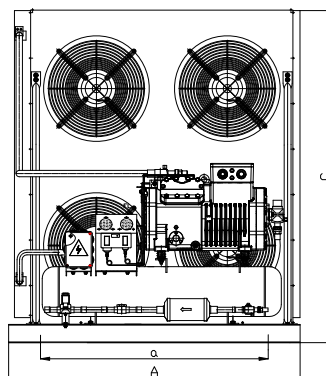
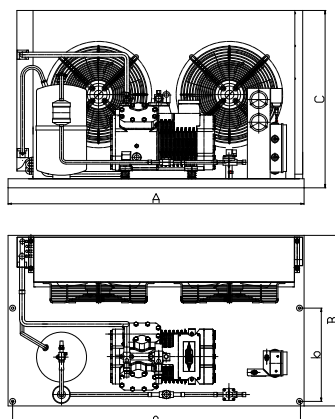
5.1 Air cooled Condensing Units:

JZBF02M...JZBF07M

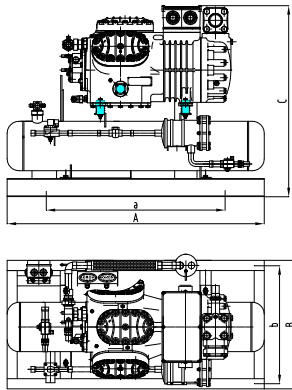
JZBF02L...JZBF06L

JZBF09M...JZBF20M

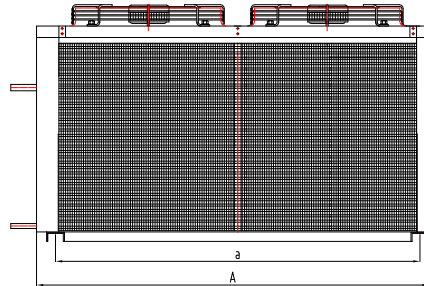
JZBF09L...JZBF28L



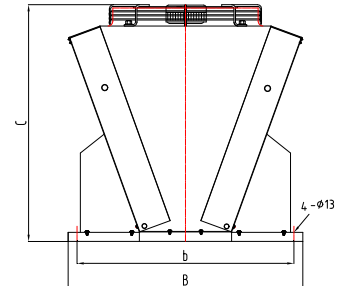
JZBF25M...JZBF50M、JZBF34L...JZBF44L



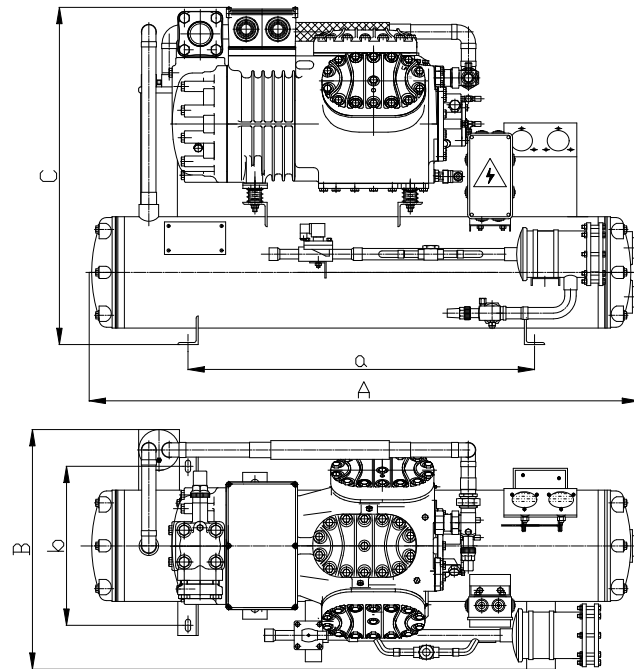
Condensing Unit



Condenser



5.2 Water cooled Condensing units:

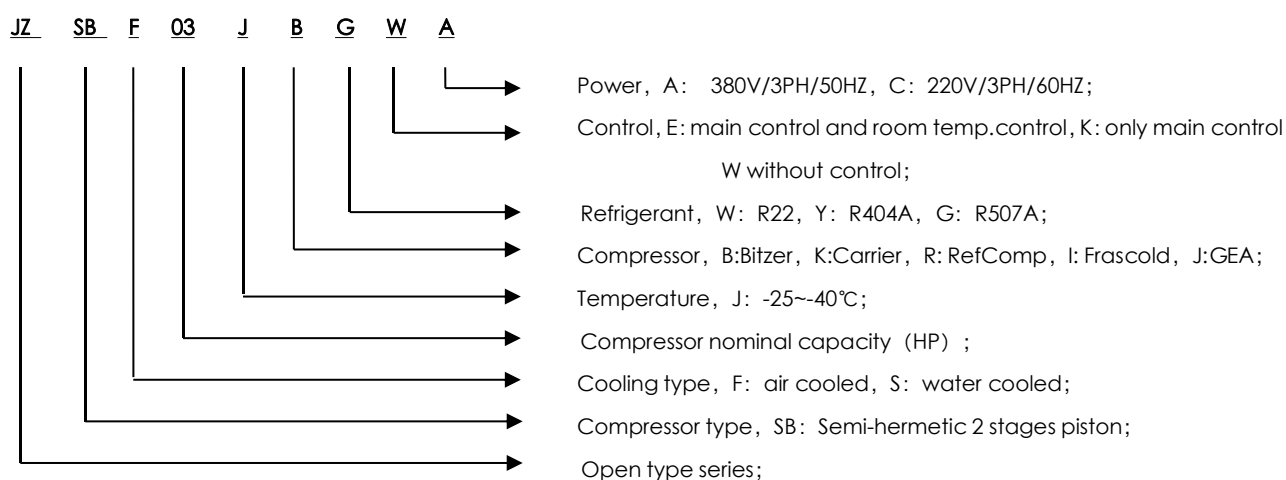


JZSB Series Semi-hermetic 2 stage Condensing Units

1. Product description:

- ◆ With Bitzer semi-hermetic, two stage compressor, which has good quality and reliable performance.
- ◆ With world famous refrigerant components, full configuration, ensure the stable performance of condensing units.
- ◆ With inter cooler, which improve the EER valve.
- ◆ With lower evaporative temperature, if applies refrigerant R22, Min evaporative temperature is -50° C, if applies R404A/R507A, Min evaporative temperature is -65° C, which is applied in incubator and fast freezer machinery and so on.

2. Model code



3. Main components

- Two-stage Compressor ●Crankcase heater ●Vibration eliminator ●Oil separator ●Condenser
- Liquid Receiver (Water cooled units without receiver) ●Filter ●Sight glasses ●Solenoid valve ●Sub cooler
- Gas separator ● H&L Pressure controller ●Oil pressure difference controller ●H/L Pressure gauge ● Medium-pressure gauge●Medium cooler parts(CIC spray for R22, TX valve spray for R404A/R507A)

4.Specifications:

4.1 2-stage compressor air cooled condensing units:Refrigerant R507A

Model		JZSBF05 JBGWA	JZSBF08 JBGWA	JZSBF12 JBGWA	JZSBF16 JBGWA	JZSBF20 JBGWA	JZSBF25 JBGWA	JZSBF30 JBGWA
Temp(°C)		-25°C~-40°C						
Power		380V/3PH/50HZ						
Compressor		S4T5.2Y	S4N8.2Y	S4G12.2Y	S6J16.2Y	S6H20.2Y	S6G25.2Y	S6F30.2Y
Condenser	Fan Qty	2	2	4	4	4	4	2
	Fan Voltage(V)	380	380	380	380	380	380	380
	Fan Watt(W)	180×2	180×2	180×4	180×4	180×4	180×4	800×2
Comp Cap. & Input	Te.-35 °C	Cap (W)	5940	8420	13130	18260	21000	28400
		Input (KW)	4.62	6.61	9.97	14.05	16.27	22.3
	Te.-40 °C	Cap (W)	4790	6810	10790	15090	17400	23500
		Input (KW)	4.2	5.99	9.02	12.65	14.65	20.1
	Te. -45°C	Cap (W)	3820	5440	8730	12280	14170	19190
		Input (KW)	3.76	5.37	8.07	11.3	13.1	18
Pipe	Gas In (mm)	φ28	φ28	φ35	φ42	φ42	φ42	φ42
	Liquid dia.Pipe (mm)	φ16	φ16	φ22	φ22	φ22	φ22	φ22
Overall size	A(mm)		1085	1270	1270	1270	1340	1340
	B(mm)		930	930	1050	1050	1110	1130
	C(mm)		660	810	1210	1460	1410	930
Installation size(a×b mm)		800×885	800×885	1000×1005	1000×1005	1000×1065	1000×1085	910×685

Remark: 1) Condensing Tem. is 45°C; 2) For 30Hp condensing units, condenser is separately installed. the size of condenser is not include in above sheet.;

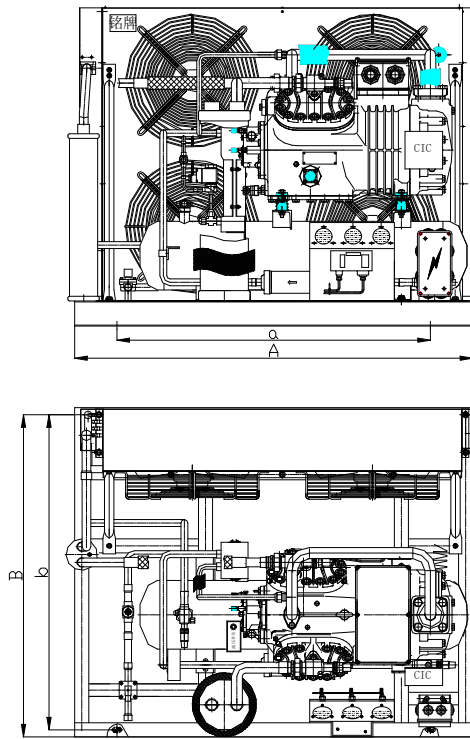
4.2 Two stage water cooled condensing units: Refrigerant R507A

Model		JZSBS05 JBGWA	JZSBS08 JBGWA	JZSBS12 JBGWA	JZSBS16 JBGWA	JZSBS20 JBGWA	JZSBS25 JBGWA	JZSBS30 JBGWA
Temp(°C)		-25°C~-40°C						
Power		380V/50HZ						
Compressor		S4T-5.2	S4N-8.2	S4G-12.2	S6J-16.2	S6H-20.2	S6G-25.2	S6F-30.2
Condenser	Type	Shell&Tube						
	Cooling Water (m3/h)	2	3	4	5.6	6.6	7.5	10
	Water Pipe	1-1/4"	1-1/2"	1-1/2"	2-1/2 "	2 "	2 "	2- 1/2"
Comp Cap. & Input	Te.-35 °C	Cap (W)	5100	7380	11150	16490	19120	21900
		Input (KW)	3.55	5.29	7.99	11.35	13.15	15.1
	Te.-40 °C	Cap (W)	4010	5810	8780	13090	15170	17420
		Input (KW)	3.23	4.81	7.26	10.1	11.67	13.4
	Te. -45°C	Cap (W)	3080	4440	6700	1000	11600	13310
		Input (KW)	2.88	4.33	6.54	8.79	10.19	11.7
Pipe	Gas In (mm)	φ28	φ28	φ35	φ42	φ42	φ42	φ42
	Liquid dia.Pipe (mm)	φ16	φ16	φ22	φ22	φ22	φ22	φ22
Overall size	A(mm)		900	1050	1260	1300	1300	1300
	B(mm)		650	650	720	720	720	720
	C(mm)		795	855	950	990	990	990
Installation size(a×b mm)		500×605	650×605	800×675	880×675	880×675	880×675	880×675

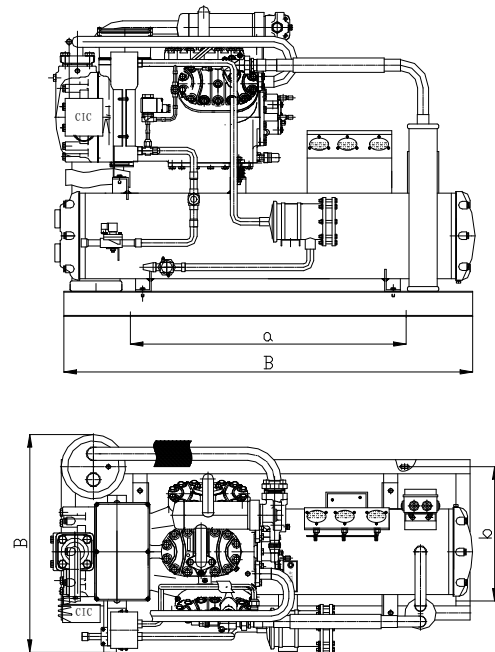
Remark: Condensing Temp is 40°C;

5. Diagrams for overall sizes:

Air Cooled condensing units



Water cooled condensing units

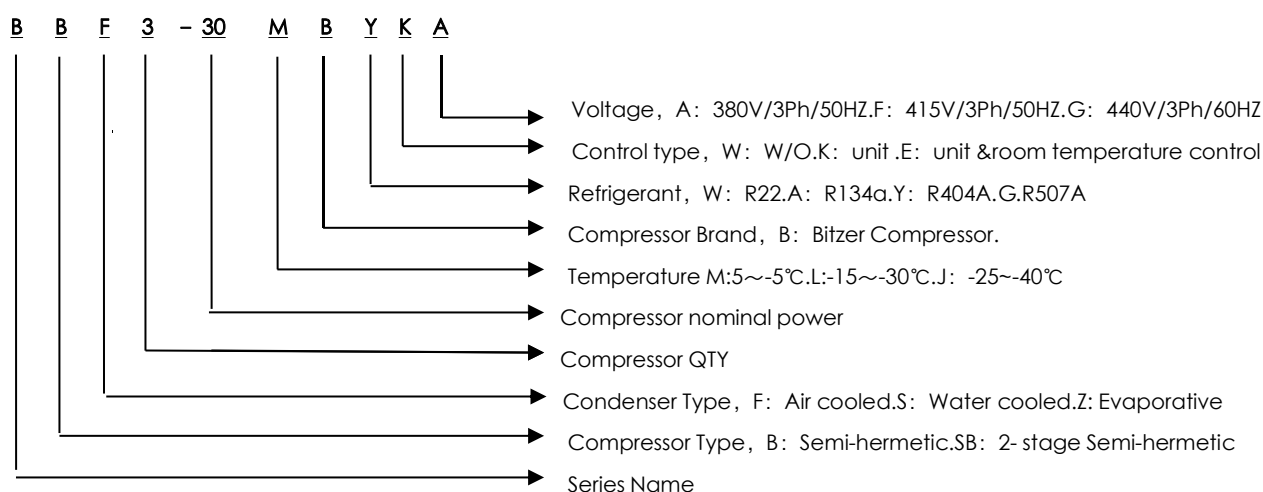


B Series Semi-hermetic Compressor racks

1.Product description:

- ◆ With Bitzer ECOLINE series semi-hermetic compressor, Good quality and high reliability;
- ◆ Multi compressors were parallel connected to provide bigger capacity sharing same discharge pipe, suction pipe, condenser, liquid receiver etc.
- ◆ Compact design for easy installation and small installation size;
- ◆ Multi stage energy adjustments according to cooling capacity to save operation cost;
- ◆ To minimize the impact of the machine fault on the operation, increase the reliability of unit operation.

2.Model code:



3.Main components:

Air cooled/ evaporative compressor racks:

- Compressor
- Crankcase heater
- vibration eliminator
- Oil separator
- Oil balance system
- Oil filter
- Receiver
- Drier & Filter
- Sight glasses
- Gas separator
- Suction filter
- Pressure controller
- Pressure gauge
- Oil protector (with oil pump)
- Electric control

Air-cooling Condenser or evaporating. Condenser is optional!

Water cooled compressor racks:

- Compressor
- Crankcase heater
- vibration eliminator
- Oil separator
- Oil balance system
- Oil filter
- Water cooled Condenser
- Drier & Filter
- Sight glasses
- Gas separator
- Pressure controller
- Pressure gauge
- Oil protector (with oil pump)
- Electric control

Remark: The compressor rack controller is employed as standard components. PLC controller is optional.

4.Specifications

4.1Air cooled compressor racks

4.1.1 Medium Temp type air cooled 2 compressor racks

Model		BBF2 –							
		20MBGKA	30MBGKA	40MBGKA	50MBGKA	60MBGKA	70MBGKA	80MBGKA	100MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Compressor	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	2	2	2	2	2	2	2	2
Cap&Input	Te. -5°C	Cap (W)	40800	56200	67200	88600	101800	121600	148000
		Input (KW)	16.02	22.34	26.64	35.18	40.6	50.6	75
	Te. -10°C	Cap (W)	32140	44200	53400	71000	81600	98200	118800
		Input (KW)	14.64	20.34	24.4	32.38	37.42	46.6	69.2
	Te. -15°C	Cap (W)	25000	34280	41600	56000	64600	78400	94400
		Input (KW)	13.16	18.18	22	29.4	33.98	42.4	63
Pipe	Gas In (mm)		φ42	φ54	φ54	φ67	φ67	φ76	φ76
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ28	φ35	φ35
	Gas Connect		φ35	φ35	φ35	φ42	φ42	φ54	φ54
	Liquid inlet		φ28	φ28	φ28	φ35	φ35	φ42	φ42
Overall size		L(mm)	1950	2100	2100	2200	2200	2400	2400
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1700	1700	1700

Remark: Condensing Tem. is 45°C;

4.1.2Medium Temp. type air cooled 3 compressor racks:

Model		BBF3 –							
		30MBGKA	45MBGKA	60MBGKA	75MBGKA	90MBGKA	105MBGKA	120MBGKA	150MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Compressor	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	3	3	3	3	3	3	3	3
Cap&Input	Te. -5°C	Cap (W)	61200	84300	100800	132900	152700	182400	222000
		Input (KW)	24.03	33.51	39.96	52.77	60.9	75.9	90.9
	Te. -10°C	Cap (W)	48210	66300	80100	106500	122400	147300	178200
		Input (KW)	21.96	30.51	36.6	48.57	56.13	69.9	84
	Te. -15°C	Cap (W)	37500	51420	62400	84000	96900	117600	141600
		Input (KW)	19.74	27.27	33	44.1	50.97	63.6	76.8
Pipe	Gas In (mm)		φ54	φ67	φ67	φ76	φ76	φ108	φ108
	Liquid outlet (mm)		φ22	φ28	φ28	φ35	φ35	φ42	φ42
	Gas Connect		φ35	φ42	φ42	φ54	φ54	φ67	φ67
	Liquid inlet		φ28	φ35	φ35	φ42	φ42	φ54	φ54
Overall size		L(mm)	2750	2750	2750	2850	2850	3150	3200
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1850	1850	1850	1850

Remark: Condensing Tem. is 45°C;

4.1.3 Medium Temp. type air cooled 4 compressor racks:

Model		BBF4 –							
		40MBGKA	60MBGKA	80MBGKA	100MBGKA	120MBGKA	140MBGKA	160MBGKA	200MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Comp	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	4	4	4	4	4	4	4	4
Cap&Input	Te. -5°C	Cap (W)	81600	112400	134400	177200	203600	243200	296000
		Input (KW)	32.04	44.68	53.28	70.36	81.2	101.2	150
	Te. -10°C	Cap (W)	64280	88400	106800	142000	163200	196400	237600
		Input (KW)	29.28	40.68	48.8	64.76	74.84	93.2	138.4
	Te. -15°C	Cap (W)	50000	68560	83200	112000	129200	156800	188800
		Input (KW)	26.32	36.36	44	58.8	67.96	84.8	126
Pipe	Gas In (mm)		φ54	φ67	φ76	φ76	φ108	φ108	φ108
	Liquid outlet (mm)		φ28	φ28	φ35	φ35	φ42	φ42	φ42
	Gas Connect		φ42	φ54	φ54	φ54	φ67	φ67	φ79
	Liquid inlet		φ35	φ35	φ42	φ42	φ54	φ54	φ54
Overall size	L(mm)		3300	3300	3300	3500	3800	3800	3800
	W(mm)		1120	1120	1120	1120	1120	1120	1120
	H(mm)		1700	1700	1700	1850	1850	1850	1850

Remark: Condensing Temp. is 45°C;

4.2 Low tempreature (R507A)

4.2.1 Low Temp Air cooled 2 compressor racks

Model		BBF2 –						
		18LBGKA	28LBGKA	36LBGKA	46LBGKA	56LBGKA	68LBGKA	88LBGKA
Temperature(°C)		-15°C~-30°C						
Refrigerant		R507A						
Power		380V/3Ph/50HZ						
Comp	Type	Semi-hermetic						
	Comp. Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty	2	2	2	2	2	2	2
Cap&Input	Te. -25°C	Cap (W)	17720	24060	34240	40400	48200	60800
		Input (KW)	12.7	17.16	24	28.54	34.26	43.6
	Te. -30°C	Cap (W)	13020	17640	25620	30480	36500	46400
		Input (KW)	10.76	14.48	20.7	24.66	29.56	37.9
	Te. -35°C	Cap (W)	9240	12520	18600	22420	26800	34380
		Input (KW)	8.92	11.88	17.5	20.92	24.92	32.38
Pipe	Te. -40°C	Cap (W)	6280	8480	12960	15960	18860	24680
		Input (KW)	7.22	9.44	14.46	17.42	20.44	27.12
	Gas In (mm)		φ54	φ54	φ54	φ67	φ67	φ76
	Liquid outlet (mm)		φ22	φ22	φ22	φ22	φ28	φ28
Overall size	Gas Connect		φ35	φ35	φ35	φ42	φ42	φ54
	Liquid inlet		φ28	φ28	φ28	φ28	φ35	φ35
	L(mm)		2100	2100	2100	2200	2400	2400
Overall size	W(mm)		1120	1120	1120	1120	1120	1120
	H(mm)		1700	1700	1700	1700	1700	1700

Remark: Condensing Tem. is 45°C;

4.2.2 Low Temp Air cooled 3 compressor racks:

Model			BBF3 –						
			27LBGKA	42LBGKA	54LBGKA	69LBGKA	84LBGKA	102LBGKA	132LBGKA
Temperature(°C)			-15℃~-30℃						
Refrigerant			R507A						
Power			380V/3Ph/50HZ						
Comp	Type		Semi-hermetic						
	Comp. Model		4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty		3	3	3	3	3	3	3
Cap&Input	Te. -25℃	Cap (W)	26580	36090	51360	60600	72300	91200	108600
		Input (KW)	19.05	25.74	36	42.81	51.39	65.4	78.6
	Te. -30℃	Cap (W)	19530	26460	38430	45720	54750	69600	82200
		Input (KW)	16.14	21.72	31.05	36.99	44.34	56.85	68.1
	Te. -35℃	Cap (W)	13860	18780	27900	33630	40200	51570	60300
		Input(KW)	13.38	17.82	26.25	31.38	37.38	48.57	58.05
	Te. -40℃	Cap (W)	9420	12720	19440	23940	28290	37020	42450
		Input (KW)	10.83	14.16	21.69	26.13	30.66	40.68	48.21
P i p e	Gas In (mm)		φ54	φ54	φ67	φ76	φ76	φ108	φ108
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ28	φ35	φ35
	Gas Connect		φ42	φ42	φ42	φ42	φ54	φ54	φ67
	Liquid inlet		φ28	φ28	φ35	φ35	φ35	φ42	φ42
Overall size		L(mm)	2750	2750	2750	2850	3150	3150	3150
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1850	1850	1850

Remark: Condensing Tem. is 45°C;

4.2.3 Low Temp Air cooled 4 compressor racks:

Model			BBF4 –						
			36LBGKA	56LBGKA	72LBGKA	92LBGKA	112LBGKA	136LBGKA	176LBGKA
Temperature(°C)			-15℃~-30℃						
Refrigerant			R507A						
Power			380V/3Ph/50HZ						
Comp	Type		Semi-hermetic						
	Comp. Model		4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty		4	4	4	4	4	4	4
Cap&Input	Te.	Cap (W)	35440	48120	68480	80800	96400	121600	144800
		-25℃ Input (KW)	25.4	34.32	48	57.08	68.52	87.2	104.8
	Te.	Cap (W)	26040	35280	51240	60960	73000	92800	109600
		-30℃ Input(KW)	21.52	28.96	41.4	49.32	59.12	75.8	90.8
	Te.	Cap (W)	18480	25040	37200	44840	53600	68760	80400
		-35℃ Input (KW)	17.84	23.76	35	41.84	49.84	64.76	77.4
	Te.	Cap (W)	12560	16960	25920	31920	37720	49360	56600
		-40℃ Input (KW)	14.44	18.88	28.92	34.84	40.88	54.24	64.28
P i p e	Gas In (mm)		φ54	φ54	φ67	φ76	φ108	φ108	φ108
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ35	φ35	φ35
	Gas Connect (mm)		φ42	φ42	φ54	φ54	Φ54	Φ67	φ67
	Liquid inlet (mm)		φ28	φ28	φ35	φ35	φ42	φ42	φ42
Overall size		L(mm)	3300	3300	3500	3500	3800	3800	3800
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1850	1850	1850

Remark: Condensing Temp. is 45°C;

4.3 Medium Temp. (R507A)

4.3.1 Medium Temp. type evaporative cooled cooled 2 compressor racks

Model		BBZ2 –							
		20MBGKA	30MBGKA	40MBGKA	50MBGKA	60MBGKA	70MBGKA	80MBGKA	100MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Comp	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	2	2	2	2	2	2	2	2
Cap&Input	Te. -5°C	Cap (W)	50400	69800	83000	108600	124600	148600	220800
		Input (KW)	14.34	20.02	23.66	31.32	36.32	45	67.2
	Te. -10°C	Cap (W)	40400	55800	66600	87800	101000	121000	179400
		Input (KW)	13.36	18.58	22.08	29.32	33.94	42	63
	Te. -15°C	Cap (W)	31880	44000	52800	70200	80800	97400	144200
		Input (KW)	12.22	16.94	20.24	27.06	31.3	38.86	58.2
Pipe	Gas In (mm)		φ42	φ54	φ54	φ67	φ67	φ76	φ76
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ28	φ35	φ35
	Gas Connect		φ35	φ35	φ35	φ42	φ42	φ54	φ54
	Liquid inlet		φ28	φ28	φ28	φ35	φ35	φ42	φ42
Overall size		L(mm)	1950	2100	2100	2200	2200	2400	2400
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1700	1700	1700

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

4.3.2 Medium Temp. type evaporative cooled cooled 3 compressor racks:

Model		BBZ3 –							
		30MBGKA	45MBGKA	60MBGKA	75MBGKA	90MBGKA	105MBGKA	120MBGKA	150MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Comp	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	3	3	3	3	3	3	3	3
Cap&Input	Te. -5°C	Cap (W)	75600	104700	124500	162900	186900	222900	331200
		Input (KW)	21.51	30.03	35.49	46.98	54.48	67.5	100.8
	Te. -10°C	Cap (W)	60600	83700	99900	131700	151500	181500	269100
		Input (KW)	20.04	27.87	33.12	43.98	50.91	63	94.5
	Te. -15°C	Cap (W)	47820	66000	79200	105300	121200	146100	216300
		Input (KW)	18.33	25.41	30.36	40.59	46.95	58.29	87.3
Pipe	Gas In (mm)		φ54	φ67	φ67	φ76	φ76	φ108	φ108
	Liquid outlet (mm)		φ22	φ28	φ28	φ35	φ35	φ42	φ42
	Gas Connect		φ35	φ42	φ42	φ54	φ54	φ67	φ67
	Liquid inlet		φ28	φ35	φ35	φ42	φ42	φ54	φ54
Overall size		L(mm)	2750	2750	2750	2850	2850	3150	3200
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1850	1850	1850	1850

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

4.3.3 Medium Temp. type evaporative cooled cooled 4 compressor racks:

Model		BBZ4 –							
		40MBGKA	60MBGKA	80MBGKA	100MBGKA	120MBGKA	140MBGKA	160MBGKA	200MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Comp	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	4	4	4	4	4	4	4	4
Cap&Input	Te. -5°C	Cap (W)	100800	139600	166000	217200	249200	297200	362400
		Input (KW)	28.68	40.04	47.32	62.64	72.64	90	108
	Te. -10°C	Cap (W)	80800	111600	133200	175600	202000	242000	294000
		Input (KW)	26.72	37.16	44.16	58.64	67.88	84	101.2
	Te. -15°C	Cap (W)	63760	88000	105600	140400	161600	194800	236000
		Input (KW)	24.44	33.88	40.48	54.12	62.6	77.72	93.6
P i p e	Gas In (mm)		φ54	φ67	φ76	φ76	φ108	φ108	φ108
	Liquid outlet (mm)		φ28	φ28	φ35	φ35	φ42	φ42	φ42
	Gas Connect		φ42	φ54	φ54	φ54	φ67	φ67	φ79
	Liquid inlet		φ35	φ35	φ42	φ42	φ54	φ54	φ54
Overall size	L(mm)		3300	3300	3300	3500	3800	3800	3800
	W(mm)		1120	1120	1120	1120	1120	1120	1120
	H(mm)		1700	1700	1700	1850	1850	1850	1850

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

4.4 Low tempreature (R507A)

4.4.1 Low Temp. type evaporative cooled cooled 2 compressor racks

Model		BBZ2 –						
		18LBGKA	28LBGKA	36LBGKA	46LBGKA	56LBGKA	68LBGKA	88LBGKA
Temperature(°C)		-15°C~-30°C						
Refrigerant		R507A						
Power		380V/3Ph/50HZ						
Comp	Type	Semi-hermetic						
	Comp. Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty	2	2	2	2	2	2	2
Cap&Input	Te. -25°C	Cap (W)	23300	31680	44200	51600	61400	77200
		Input (KW)	12.06	16.5	22.72	26.82	32.32	40.4
	Te. -30°C	Cap (W)	17540	23.88	33800	39720	47400	59800
		Input (KW)	10.4	14.28	19.96	23.56	28.4	35.74
	Te. -35°C	Cap (W)	12860	17540	25220	29880	35780	45400
		Input (KW)	8.8	12.08	17.22	20.32	24.46	31.06
P i p e	Te. -40°C	Cap (W)	9120	12460	18200	21840	26180	33540
		Input (KW)	7.28	9.94	14.54	17.2	20.6	26.52
	Gas In (mm)		φ54	φ54	φ54	φ67	φ67	φ76
	Liquid outlet (mm)		φ22	φ22	φ22	φ22	φ28	φ28
Overall size	Gas Connect		φ35	φ35	φ35	φ42	φ42	φ54
	Liquid inlet		φ28	φ28	φ28	φ28	φ35	φ35
	L(mm)		2100	2100	2100	2200	2400	2400
Overall size	W(mm)		1120	1120	1120	1120	1120	1120
	H(mm)		1700	1700	1700	1700	1700	1700

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

4.4.2 Low Temp. type evaporative cooled cooled 3 compressor racks

Model			BBZ3 –						
			27LBGKA	42LBGKA	54LBGKA	69LBGKA	84LBGKA	102LBGKA	132LBGKA
Temperature(°C)			-15℃~-30℃						
Refrigerant			R507A						
Power			380V/3Ph/50HZ						
Comp	Type		Semi-hermetic						
	Comp. Model		4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty		3	3	3	3	3	3	3
Cap&Input	Te. -25℃	Cap (W)	34950	47520	66300	77400	92100	115800	138300
		Input (KW)	18.09	24.75	34.08	40.23	48.48	60.6	74.4
	Te. -30℃	Cap (W)	26310	35820	50700	59580	71100	89700	106800
		Input (KW)	15.6	21.42	29.94	35.34	42.6	53.61	65.7
	Te. -35℃	Cap (W)	19290	26310	37830	44820	53670	68100	80400
		Input (KW)	13.2	18.12	25.83	30.48	36.69	46.59	57.06
Te. -40℃	Cap (W)	13680	18690	27300	32760	39270	50310	58920	
	Input (KW)	10.92	14.91	21.81	25.8	30.9	39.78	48.54	
Pipe	Gas In (mm)		φ54	φ54	φ67	φ76	φ76	φ108	φ108
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ28	φ35	φ35
	Gas	Connect	φ42	φ42	φ42	φ42	φ54	φ54	φ67
	Liquid inlet		φ28	φ28	φ35	φ35	φ35	φ42	φ42
Overall size		L(mm)	2750	2750	2750	2850	3150	3150	3150
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1850	1850	1850

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

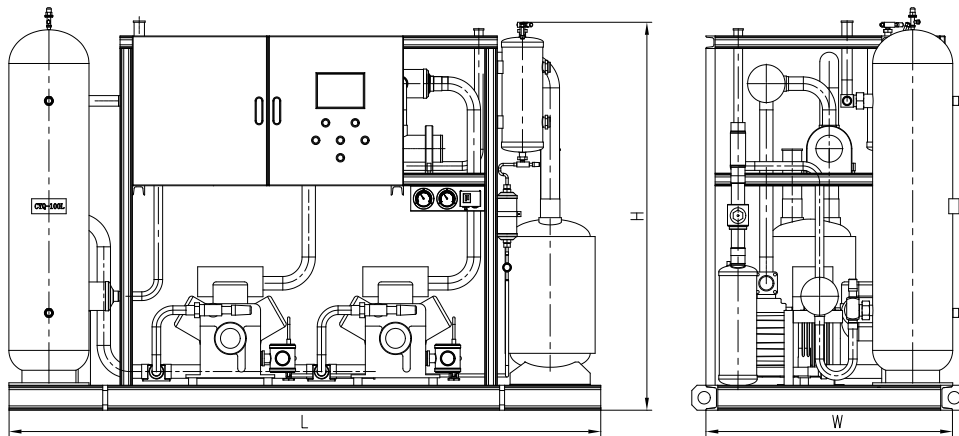
4.4.3 Low Temp. type evaporative cooled cooled 4 compressor racks:

Model			BBZ4 –						
			36LBGKA	56LBGKA	72LBGKA	92LBGKA	112LBGKA	136LBGKA	176LBGKA
Temperature(℃)			-15℃~-30℃						
Refrigerant			R507A						
Power			380V/3Ph/50HZ						
Compressor	Type		Semi-hermetic						
	Comp. Model		4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty		4	4	4	4	4	4	4
Cap&Input	Te. -25℃	Cap (W)	46600	63360	88400	103200	122800	154400	184400
		Input (KW)	24.12	33	45.44	53.64	64.64	80.8	99.2
	Te. -30℃	Cap (W)	35080	47760	67600	79440	94800	119600	142400
		Input (KW)	20.8	28.56	39.92	47.12	56.8	71.48	87.6
	Te. -35℃	Cap (W)	25720	35080	50440	59760	71560	90800	107200
		Input (KW)	17.6	24.16	34.44	40.64	48.92	62.12	76.08
Te. -40℃	Cap (W)	18240	24920	36400	43680	52360	67080	78560	
	Input (KW)	14.56	19.88	29.08	34.4	41.2	53.04	64.72	
Pipe	Gas In (mm)		φ54	φ54	φ67	φ76	φ108	φ108	φ108
	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ35	φ35	φ35
	Gas Connect (mm)		φ42	φ42	φ54	φ54	φ54	φ67	φ67
	Liquid inlet Connect(mm)		φ28	φ28	φ35	φ35	φ42	φ42	φ42
Overall size		L(mm)	3300	3300	3500	3500	3800	3800	3800
		W(mm)	1120	1120	1120	1120	1120	1120	1120
		H(mm)	1700	1700	1700	1700	1850	1850	1850

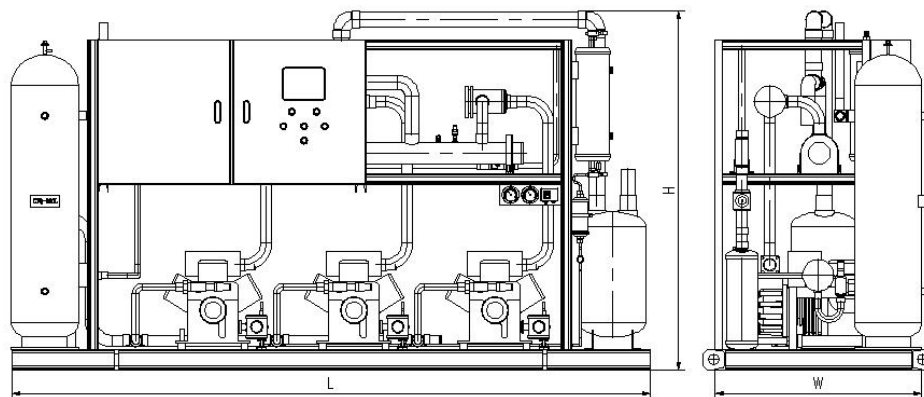
Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C;

Air cooled/ evaporative cooled compressor racks Diagrams for overall sizes

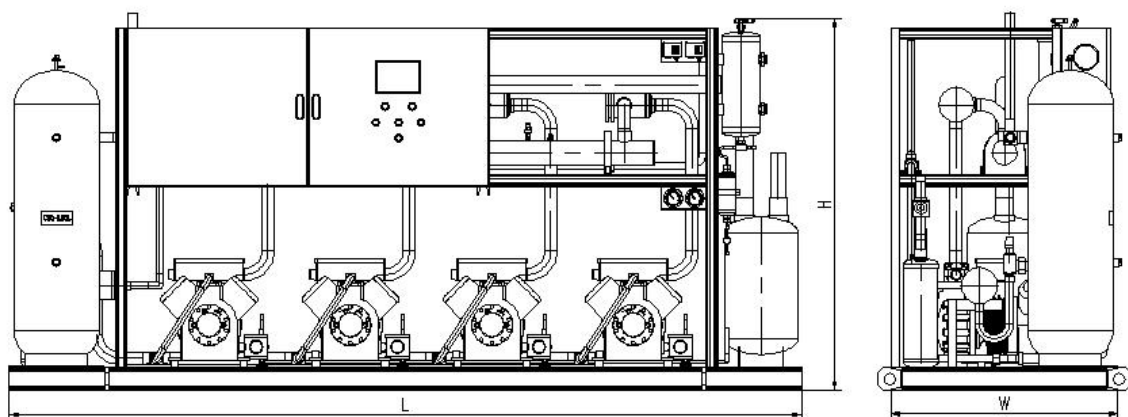
2 compressor racks



3 compressor racks



4 compressor racks



4.5 Water cooled Compressor racks

4.5.1 Medium Temp. Type water cooled cooled 2 compressor racks:

Model		BBS2 –							
		20MBGKA	30MBGKA	40MBGKA	50MBGKA	60MBGKA	70MBGKA	80MBGKA	100MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Compressor	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	2	2	2	2	2	2	2	2
Condenser	Type	High Efficient Pipe and Shell							
	Cooling water(m³/h)	13	18	20.6	28	32	38	48	58
	Connection size	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	4"
Cap&Input	Te. -5°C	Cap (W)	45600	63000	75000	98800	113400	135200	164800
		Input (KW)	15.22	21.24	25.2	33.36	38.6	48	57.4
	Te. -10°C	Cap (W)	36240	50000	59800	79400	91400	109600	133000
		Input (KW)	14.02	19.52	23.28	30.94	35.78	44.6	53.4
	Te. -15°C	Cap (W)	28420	39080	47200	63200	72800	87800	106200
		Input (KW)	12.72	17.6	21.16	28.32	32.74	40.8	49.2
Pi	Gas In (mm)		φ42	φ54	φ54	φ67	φ67	φ76	φ76
p	Liquid outlet (mm)		φ22	φ22	φ28	φ28	φ28	φ35	φ35
Overall size	L(mm)		2100	2100	2100	2300	2300	2600	2600
	W(mm)		1070	1070	1070	1120	1120	1170	1220
	H(mm)		1700	1700	1700	1750	1750	1750	1750

Remark: Condensing Temp is 40°C;

4.5.2 Medium Temp. Type water cooled cooled 3 compressor racks:

Model		BBS3 –							
		30MBGKA	45MBGKA	60MBGKA	75MBGKA	90MBGKA	105MBGKA	120MBGKA	150MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Compressor	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	3	3	3	3	3	3	3	3
Condenser	Type	High Efficient Pipe and Shell							
	Cooling water(m³/h)	20	26	31	42	50	57	71	86
	Connection size	2-1/2"	2-1/2"	3"	3"	3"	4"	5"	5"
Cap&Input	Te. -5°C	Cap (W)	68400	94500	112500	148200	170100	202800	247200
		Input (KW)	22.83	31.86	37.8	50.04	57.9	72	86.1
	Te. -10°C	Cap (W)	54360	75000	89700	119100	137100	164400	199500
		Input (KW)	21.03	29.28	34.92	46.41	53.67	66.9	80.1
	Te. -15°C	Cap (W)	42630	58620	70800	94800	109200	131700	159300
		Input (KW)	19.08	26.4	31.74	42.48	49.11	61.2	73.8
Pi	Gas In (mm)		φ54	φ67	φ67	φ76	φ76	φ108	φ108
p	Liquid outlet (mm)		φ22	φ28	φ28	φ35	φ35	φ42	φ42
Overall size	L(mm)		2550	2550	2550	2800	2800	2800	3050
	W(mm)		1070	1120	1120	1220	1220	1270	1320
	H(mm)		1750	1750	1750	1750	1750	1850	1850

Remark: Condensing Temp is 40°C;

4.5.3 Medium Temp. Type water cooled cooled 4 compressor racks:

Model		BBS4 –							
		40MBGKA	60MBGKA	80MBGKA	100MBGKA	120MBGKA	140MBGKA	160MBGKA	200MBGKA
Temperature(°C)		5°C~-5°C							
Refrigerant		R507A							
Power		380V/3Ph/50HZ							
Comp	Type	Semi-hermetic							
	Comp. Model	4VES-10Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y
	Qty	4	4	4	4	4	4	4	4
Condenser	Type	High Efficient Pipe and Shell							
	Cooling water(m³/h)	26	35	41	55	65	76	95	115
	Connection size	2-1/2"	3"	3"	4"	4"	5"	5"	5"
Cap&Input	Te. -5°C	Cap (W)	91200	126000	150000	197600	226800	270400	401600
		Input (KW)	30.44	42.48	50.4	66.72	77.2	96	142.8
	Te. -10°C	Cap (W)	72480	100000	119600	158800	182800	219200	324800
		Input (KW)	28.04	39.04	46.56	61.88	71.56	89.2	132.8
	Te. -15°C	Cap (W)	56840	78160	94400	126400	145600	175600	259600
		Input (KW)	25.44	35.2	42.32	56.64	65.48	81.6	121.6
Pipe	Gas In (mm)	φ54	Φ67	Φ76	φ76	φ108	φ108	φ108	φ133
	Liquid outlet (mm)	φ28	φ28	φ35	φ35	φ42	φ42	φ42	φ42
Overall size		L(mm)	3050	3050	3500	3500	3800	3800	3800
		W(mm)	1070	1070	1220	1220	1270	1270	1270
		H(mm)	1700	1700	2050	2050	2050	2050	2050

Remark: Condensing Temp is 40°C;

4.6 Low Temp. (R507A)

4.6.1 Low Temp. Type water cooled cooled 2 compressor racks:

Model			BBS2 –						
			18LBGKA	28LBGKA	36LBGKA	46LBGKA	56LBGKA	68LBGKA	88LBGKA
Temperature(°C)			-15°C~-30°C						
Refrigerant			R507A						
Power			380V/3Ph/50HZ						
Compressor	Type		Semi-hermetic						
	Comp. Model		4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty		2	2	2	2	2	2	2
Condenser	Type		High Efficient Pipe and Shell						
	Cooling water(m³/h)		7.5	10	14	16	20	25	29
	Connection size		2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
Cap&Input	Te. -25°C	Cap (W)	20480	27860	39200	46000	54800	69000	82400
		Input (KW)	12.4	16.9	23.44	27.76	33.4	42.2	51
	Te. -30°C	Cap (W)	15240	20740	29680	35080	42000	53000	63000
		Input (KW)	10.6	14.46	20.4	24.18	29.08	36.92	44.8
	Te. -35°C	Cap (W)	11020	15000	21860	26120	31260	39880	46800
		Input (KW)	8.88	12.06	17.42	20.68	24.8	31.82	38.52
	Te. -40°C	Cap (W)	7640	10420	15520	18840	22480	29060	33720
		Input (KW)	7.26	9.76	14.56	17.36	20.62	26.92	32.38
Pipe	Gas In (mm)		φ54	φ54	φ54	φ67	φ67	φ76	φ76
	Liquid outlet (mm)		φ22	φ22	φ22	φ28	φ28	φ28	φ28
Overall size		L(mm)	2050	2050	2150	2150	2300	2300	2300
		W(mm)	1070	1070	1120	1120	1170	1220	1220
		H(mm)	1700	1700	1750	1750	1750	1750	1750

Remark: Condensing Temp is 40°C;

4.6.2 Low Temp. Type water cooled cooled 3 compressor racks

Model		BBS3 –						
		27LBGKA	42LBGKA	54LBGKA	69LBGKA	84LBGKA	102LBGKA	132LBGKA
Temperature(°C)		-15°C~-30°C						
Refrigerant		R507A						
Power		380V/3Ph/50HZ						
Comp	Type	Semi-hermetic						
	Comp. Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty	3	3	3	3	3	3	3
Condenser	Type	High Efficient Pipe and Shell						
	Cooling water(m³/h)	11	15	21	24	29	36	43.5
	Connection size	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"
Cap&Input	Te. -25°C	Cap (W)	30720	41790	58800	69000	82200	103500
		Input (KW)	18.6	25.35	35.16	41.64	50.1	63.3
	Te. -30°C	Cap (W)	22860	31110	44520	52620	63000	79500
		Input (KW)	15.9	21.69	30.6	36.27	43.62	55.38
	Te. -35°C	Cap (W)	16530	22500	32790	39180	46890	59820
		Input (KW)	13.32	18.09	26.13	31.02	37.2	47.73
	Te. -40°C	Cap (W)	11460	15630	23280	28260	33720	43590
		Input (KW)	10.89	14.64	21.84	26.04	30.93	40.38
Pipe	Gas In (mm)	φ54	φ54	φ67	φ76	φ76	φ108	φ108
	Liquid outlet (mm)	φ22	φ22	φ28	φ28	φ28	φ35	φ35
Overall size	L(mm)	2550	2550	2800	2800	2800	3050	3050
	W(mm)	1070	1120	1120	1120	1270	1270	1270
	H(mm)	1750	1750	1750	1750	1850	1850	1850

Remark: Condensing Temp is 40°C;

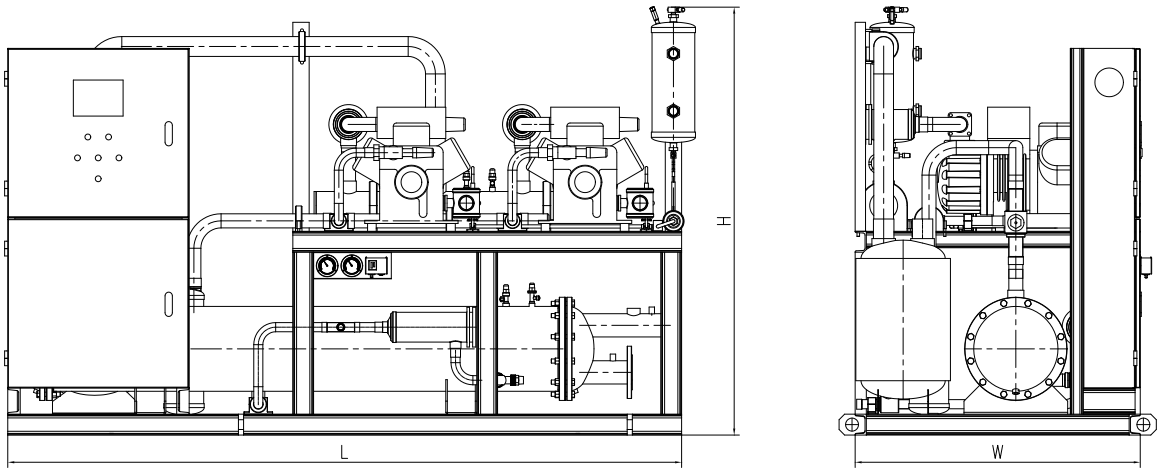
4.6.3 Low Temp. Type water cooled cooled 4 compressor racks:

Model		BBS4 –						
		36LBGKA	56LBGKA	72LBGKA	92LBGKA	112LBGKA	136LBGKA	176LBGKA
Temperature(°C)		-15°C~-30°C						
Refrigerant		R507A						
Power		380V/3Ph/50HZ						
Comp	Type	Semi-hermetic						
	Comp. Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Qty	4	4	4	4	4	4	4
Condenser	Type	High Efficient Pipe and Shell						
	Cooling water(m³/h)	15	20	28	32	40	48	58
	Connection size	2-1/2"	2-1/2"	3"	3"	3"	4"	4"
Cap&Input	Te. -25°C	Cap (W)	40960	55720	78400	92000	109600	164800
		Input (KW)	24.8	33.8	46.88	55.52	66.8	84.4
	Te. -30°C	Cap (W)	30480	41480	59360	70160	84000	106000
		Input (KW)	21.2	28.92	40.8	48.36	58.16	73.84
	Te. -35°C	Cap (W)	22040	30000	43720	52240	62520	79760
		Input (KW)	17.76	24.12	34.84	41.36	49.6	63.64
	Te. -40°C	Cap (W)	15280	20840	31040	37680	44960	58120
		Input (KW)	14.52	19.52	29.12	34.72	41.24	53.84
Pipe	Gas In (mm)	φ67	φ67	φ76	φ76	φ108	φ108	φ108
	Liquid outlet (mm)	φ22	φ28	φ28	φ28	φ35	φ35	φ35
Overall size	L(mm)	3050	3050	3500	3500	3800	3800	3800
	W(mm)	1070	1070	1220	1220	1270	1270	1270
	H(mm)	1700	1700	2050	2050	2050	2050	2050

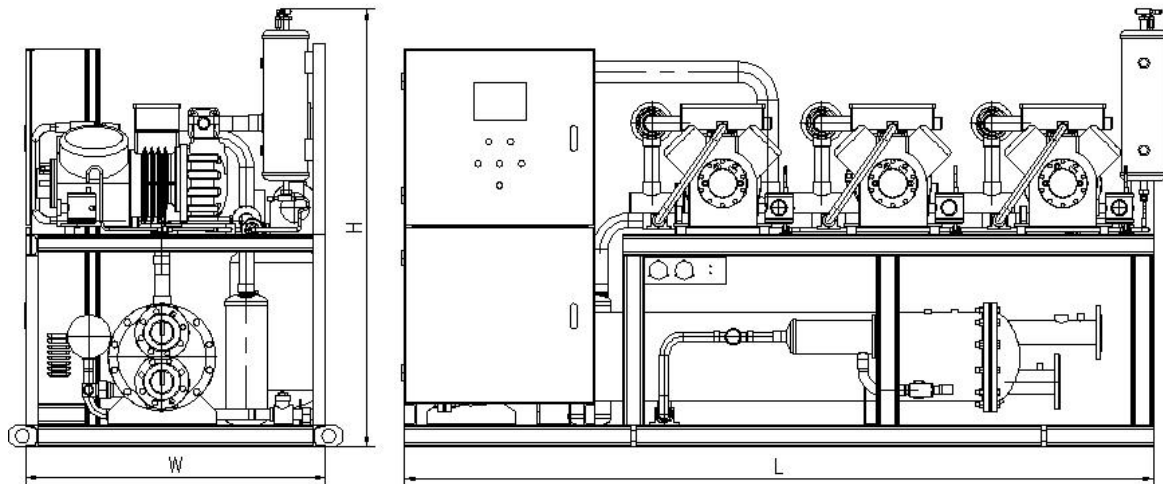
Remark: Condensing Temp is 40°C;

Water cooled compressor racks diagrams for water cooled rack:

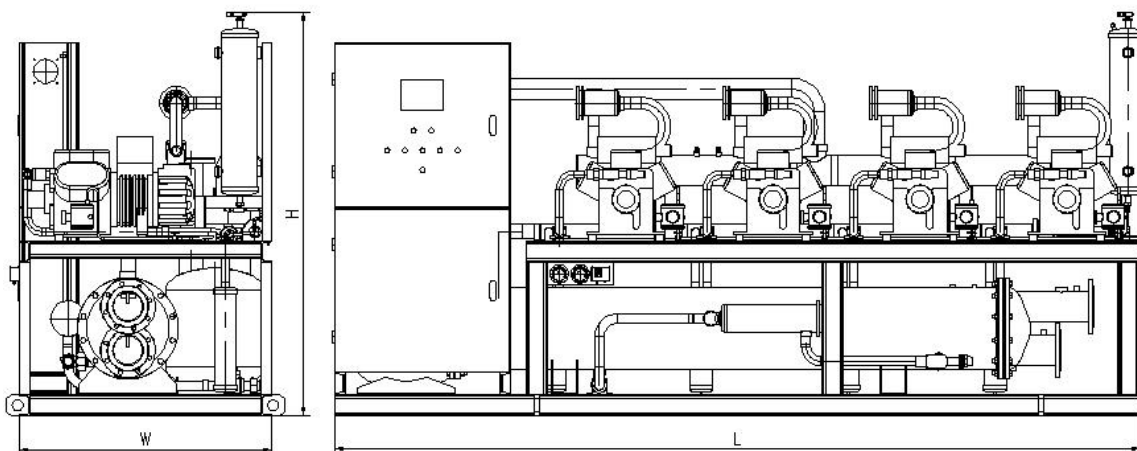
2 Compressor racks



3 Compressor racks



4 Compressor racks



B Series Semi-hermetic Screw compressor Rack

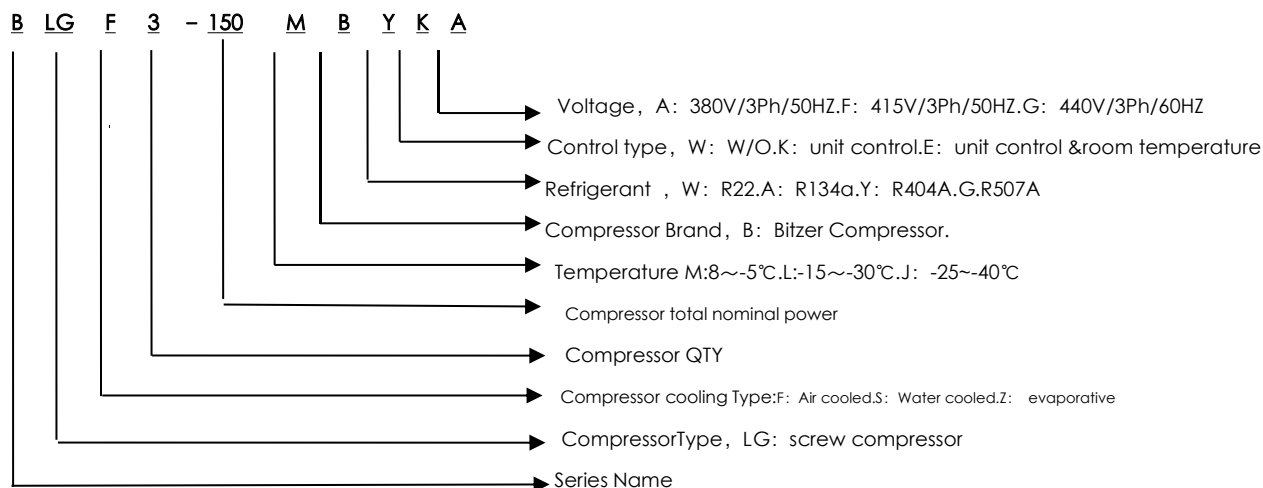
1. Product description:

With the rapid development of the refrigeration equipment market, there are more and more large-scale fresh-keeping cold storage, low-temperature cold storage, cold water equipment, quick-freezing equipment, etc. It is difficult for the Freon piston compressor to meet the needs of these equipment. The BLG Series Semi-hermetic Screw compressor Rack developed by our company can be widely used in larger types of refrigeration equipment.

This series of products have the following characteristics:

- ◆ Using Bitzer Compressor. CSH series or HSN series semi-enclosed screw compressor, with high efficiency, long life, low vibration, low noise, etc.
- ◆ The unit configuration is complete, the main refrigeration accessories and control components are all world-renowned brands, and the reliability is high;
- ◆ The unit has multiple safety protections such as Compressor reverse rotation, overheating, overload, exhaust temperature, low oil level and Compressor high and low pressure to ensure the reliability of operation;
- ◆ With multi-level energy adjustment, it can adapt to the changes of different cooling loads and effectively reduce energy consumption;
- ◆ Unit control adopts PLC and touch screen, which can realize remote monitoring according to user requirements

2. Model code:



3. Main components:

3.1 Middle temperature screw compressor racks

① CSH screw compressor ② External oil separator ③ water condenser/Liquid receiver ④ Liquid line filters ⑤ Sight glasses ⑥ Liquid injection ⑦ H and L pressure protector ⑧ high, low pressure sensor ⑨ Pressure gauge ⑩ Suction filter ⑪ Oil filter ⑫ Oil solenoid valve ⑬ Oil level protector ⑭ Unit control (PLC+Touchscreen)

Single compressor rack: ①.③.④.⑤.⑥.⑦.⑧.⑨.⑩.⑬.⑭

2 Compressor rack: ①.③.④.⑤.⑥.⑦.⑧.⑨.⑩.⑫.⑬.⑭

3 Compressor rack: ①.②.③.④.⑤.⑥.⑦.⑧.⑨.⑩.⑪.⑫.⑬.⑭

Remark: no.③, For the water cooled condenser, no need to use liquid receiver; For the air cooled and evaporative condenser, it can be used as optional!

3.2 Low temperature screw compressor racks

① HSN Screw compressor ② Oil separator ③ Oil cooler ④ Oil circuit assembly ⑤ Condenser (Only for water cooled unit) ⑥ Receiver ⑦ Liquid line filters ⑧ Sight glasses ⑨ Economizer assembly ⑩ Suction filter ⑪ Pressure protector ⑫ Pressure gauge ⑬ Unit control (PLC+Touchscreen) Air-cooling Condenser or evaporating. Condenser is optional!

4. Specifications 4.1 Middle temperature screw condensing unit Air cooled

Model			BLGS-50MBGKA	BLGS-60MBGKA	BLGS-70MBGKA	BLGS-80MBGKA	BLGS-90MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	89.6	112.6	130.6	148.6	172.8
		Input (KW)	34	42.3	47.5	53.2	61.5
	Te.-10°C	Cap (KW)	72.4	91	105	119.6	140.1
		Input (KW)	33.2	41.3	46.3	51.5	59.9
	Te.-15°C	Cap (KW)	57.9	72.7	83.4	95.2	112.3
		Input (KW)	32.5	40.4	45.3	50.1	58.4
Condenser	Type		High Efficient Pipe and Shell				
	Cooling Water (m3/h)		29	37	42	48	55
	Connection size		Rp3	Rp3	DN80	DN100	DN100
Pipe	Gas In (mm)		φ54	φ54	φ76	φ76	φ76
	Liquid dia.Pipe (mm)		φ35	φ35	φ42	φ42	φ42
Overall size	L (mm)		1610	2110	2110	2550	2550
	W (mm)		900	900	900	900	900
	H (mm)		1150	1150	1200	1200	1200

Remark: Condensing Temp is 40°C;

Model			BLGS2-100MBGKA	BLGS2-120 MBGKA	BLGS2-140 MBGKA	BLGS2-160 MBGKA	BLGS2-180 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	179.2	225.2	261.2	297.2	345.6
		Input (KW)	68	84.6	95	106.4	123
	Te.-10°C	Cap (KW)	144.8	182	210	239.2	280.2
		Input (KW)	66.4	82.6	92.6	103	119.8
	Te.-15°C	Cap (KW)	115.8	145.4	166.8	190.4	224.6
		Input (KW)	65	80.8	90.6	100.2	116.8
Condenser	Type		High Efficient Pipe and Shell				
	Cooling Water (m3/h)		58	73	84	95	110
	Connection size		DN125	DN125	DN125	DN150	DN150
Pipe	Gas In (mm)		φ108	φ108	φ108	φ133	φ133
	Liquid dia.Pipe (mm)		φ42	φ54	φ54	φ54	φ67
Overall size	L (mm)		2600	2900	2900	3100	3400
	W (mm)		1300	1300	1300	1300	1300
	H (mm)		1600	1600	1700	1700	1700

Remark: 1) Condensing Temp is 40°C; 2) two compressor rack use no-external oil separator system;

Model			BLGS3-150 MBGKA	BLGS3-180 MBGKA	BLGS3-210 MBGKA	BLGS3-240 MBGKA	BLGS3-270 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	268.8	337.8	391.8	445.8	518.4
		Input (KW)	102	126.9	142.5	159.6	184.5
	Te.-10°C	Cap (KW)	217.2	273	315	358.8	420.3
		Input (KW)	99.6	123.9	138.9	154.5	179.7
	Te.-15°C	Cap (KW)	173.7	218.1	250.2	285.6	336.9
		Input (KW)	97.5	121.2	135.9	150.3	175.2
Condenser	Type		High Efficient Pipe and Shell				
	Cooling Water (m3/h)		87	110	126	143	166
	Connection size		DN125	DN150	DN150	DN150	DN150
Pipe	Gas In (mm)		2*φ89(SS)	2*φ108	2*φ108	2*φ133	2*φ133
	Liquid dia.Pipe (mm)		φ54	φ54	φ67	φ67	φ67
Overall size	L (mm)		3000	3400	3400	3400	3600
	W (mm)		1960	1960	1960	1960	1960
	H (mm)		2000	2000	2100	2100	2100

Remark: Condensing Temp is 40°C;

4.2 evaporative condenser:

Model			BLGZ-50MBGKA	BLGZ-60MBGKA	BLGZ-70MBGKA	BLGZ-80MBGKA	BLGZ-90MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	98.6	123.8	144.6	165.3	191
		Input (KW)	30.9	38.6	43.2	48.9	55.8
	Te.-10°C	Cap (KW)	80.3	100.8	116.9	133.7	155.6
		Input (KW)	30.3	37.7	41.9	46.9	54.2
	Te.-15°C	Cap (KW)	64.7	81.2	93.4	107	125.3
		Input (KW)	29.7	36.8	40.8	45.4	52.7
Pipe	Gas In (mm)		φ54	φ54	φ76	φ76	φ76
	Liquid dia.Pipe (mm)		φ35	φ35	φ42	φ42	φ42
	Gas Connect (mm)		φ42	φ42	φ54	φ54	φ54
	Liquid dia.Pipe (mm)		φ35	φ35	φ42	φ42	φ42
Overall size	L (mm)		1900	1900	2200	2200	2550
	W (mm)		900	900	900	900	900
	H (mm)		1150	1150	1200	1200	1200

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C ;

Model			BLGZ2-100MBGKA	BLGZ2-120 MBGKA	BLGZ2-140 MBGKA	BLGZ2-160 MBGKA	BLGZ2-180 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	197.2	247.6	289.2	330.6	382
		Input (KW)	61.8	77.2	86.4	97.8	111.6
	Te.-10°C	Cap (KW)	160.6	201.6	233.8	267.4	311.2
		Input (KW)	60.6	75.4	83.8	93.8	108.4
	Te.-15°C	Cap (KW)	129.4	162.4	186.8	214	250.6
		Input (KW)	59.4	73.6	81.6	90.8	105.4
Pipe	Gas In (mm)		φ89	φ89	φ108	φ108	φ108
	Liquid dia.Pipe (mm)		φ42	φ54	φ54	φ54	φ67
	Gas Connect (mm)		φ67	φ67	φ76	φ76	φ76
	Liquid dia.Pipe (mm)		φ54	φ54	φ67	φ67	φ67
Overall size	L (mm)		2400	2400	2900	2900	2900
	W (mm)		1300	1300	1300	1300	1300
	H (mm)		1600	1600	1700	1700	1700

Remark: 1) Above cooling capacity and input power under condition of condensing Temp. 35°C ; 2) two compressor rack use no-external oil separator system;

Model			BLGZ3-150 MBGKA	BLGZ3-180 MBGKA	BLGZ3-210 MBGKA	BLGZ3-240 MBGKA	BLGZ3-270 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	295.8	371.4	433.8	495.9	573
		Input (KW)	92.7	115.8	129.6	146.7	167.4
	Te.-10°C	Cap (KW)	240.9	302.4	350.7	401.1	466.8
		Input (KW)	90.9	113.1	125.7	140.7	162.6
	Te.-15°C	Cap (KW)	194.1	243.6	280.2	321	375.9
		Input (KW)	89.1	110.4	122.4	136.2	158.1
Pipe	Gas In (mm)		2*φ76(SS)	2*φ76(SS)	2*φ89	2*φ89	2*φ108
	Liquid dia.Pipe (mm)		φ54	φ54	φ67	φ67	φ67
	Gas Connect (mm)		φ76(SS)	φ76(SS)	φ89	φ89	φ89
	Liquid dia.Pipe (mm)		φ67	φ67	φ76	φ76	φ76
Overall size	L (mm)		3000	3000	3000	3000	3000
	W (mm)		1960	1960	1960	1960	1960
	H (mm)		2000	2000	2100	2100	2100

Remark: Above cooling capacity and input power under condition of condensing Temp. 35°C ;

4.3 Air cooled R507A:

Model			BLGF-50MBGKA	BLGF-60MBGKA	BLGF-70MBGKA	BLGF-80MBGKA	BLGF-90MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Ca (KW)	80.3	101	116.3	131.7	154
		Inpu (KW)	37.3	46.5	52.3	58.2	67.7
	Te.-10°C	Ca (KW)	64.3	80.9	93	105.5	124.3
		Inpu (KW)	36.5	45.4	51.3	56.6	66.2
	Te.-15°C	Ca (KW)	50.9	64	73.4	83.4	99
		Inpu (KW)	35.7	44.3	50.3	55.4	64.8
Pipe	Gas In (mm)		φ54	φ54	φ76	φ76	φ76
	Liquid dia.Pipe (mm)		φ28	φ28	φ35	φ35	φ35
	Gas Connect (mm)		φ42	φ42	φ54	φ54	φ54
	Liquid dia.Pipe (mm)		φ35	φ35	φ42	φ42	φ42
Overall size	L (mm)		1900	1900	2200	2200	2550
	W (mm)		900	900	900	900	900
	H (mm)		1150	1150	1200	1200	1200

Remark: Condensing Tem. is 45°C;

Model			BLGF2-100MBGKA	BLGF2-120 MBGKA	BLGF2-140 MBGKA	BLGF2-160 MBGKA	BLGF2-180 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	160.6	202	232.6	263.4	308
		Input (KW)	74.6	93	104.6	116.4	135.4
	Te.-10°C	Cap (KW)	128.6	161.8	186	211	248.6
		Input (KW)	73	90.8	102.6	113.2	132.4
	Te.-15°C	Cap (KW)	101.8	128	146.8	166.8	198
		Input (KW)	71.4	88.6	100.6	110.8	129.6
Pipe	Gas In (mm)		φ89	φ89	φ108	φ108	φ108
	Liquid dia.Pipe (mm)		φ35	φ42	φ42	φ42	φ54
	Gas Connect (mm)		φ67	φ67	φ76	φ76	φ76
	Liquid dia.Pipe (mm)		φ42	φ54	φ54	φ54	φ54
Overall size	L (mm)		2400	2400	2900	2900	2900
	W (mm)		1300	1300	1300	1300	1300
	H (mm)		1600	1600	1700	1700	1700

Remark: 1) Above cooling capacity and input power under condition of condensing Temp. 35°C; 2) two compressor rack use no-external oil separator system;

Model			BLGF3-150 MBGKA	BLGF3-180 MBGKA	BLGF3-210 MBGKA	BLGF3-240 MBGKA	BLGF3-270 MBGKA
Temp(°C)			-5°C~5°C				
Power			380V/3Ph/50HZ				
Compressor			CSH6553-50Y	CSH6563-60Y	CSH7553-70Y	CSH7563-80Y	CSH7573-90Y
Comp Cap. & Input	Te. -5°C	Cap (KW)	240.9	303	348.9	395.1	462
		Input (KW)	111.9	139.5	156.9	174.6	203.1
	Te.-10°C	Cap (KW)	192.9	242.7	279	316.5	372.9
		Input (KW)	109.5	136.2	153.9	169.8	198.6
	Te.-15°C	Cap (KW)	152.7	192	220.2	250.2	297
		Input (KW)	107.1	132.9	150.9	166.2	194.4
Pipe	Gas In (mm)		2*φ76(SS)	2*φ76(SS)	2*φ89	2*φ89	2*φ108
	Liquid dia.Pipe (mm)		φ42	φ54	φ54	φ54	φ67
	Gas Connect (mm)		φ76(SS)	φ76(SS)	φ89	φ89	φ89
	Liquid dia.Pipe (mm)		φ54	φ54	φ54	φ54	φ67
Overall size	L (mm)		3000	3000	3000	3000	3000
	W (mm)		1960	1960	1960	1960	1960
	H (mm)		2000	2000	2100	2100	2100

4.4 Water cooled low temperature compressor Racks Refrigerant R507A:

Model		BLGS-50JBGKA	BLGS-60JBGKA	BLGS-70JBGKA	BLGS-75JBGKA	BLGS-110JBGKA	BLGS-125JBGKA	BLGS-160JBGKA
Temperature(°C)/refrigerant		-25°C~-40°C/R507A						
Power supply		380V/3Ph/50HZ						
Comp	Type	Semi-hermetic Screw						
	Comp. Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
condenser	type	Shell and tube						
	Water flow (m³/h)	25	30	33	36	51	58	72
	Water pipe size	Rp2-1/2	Rp3	Rp3	Rp3	DN80	DN80	DN100
Cap.&watt	Te.-25°C	Cap (KW)	71.3	86.6	98.4	103.1	146.7	212
		input (KW)	44.2	52.8	57.1	62.8	90.7	124.6
	Te.-30°C	Cap (KW)	59.2	71.3	81.3	85.5	119.4	174.8
		input (KW)	42.4	51.6	55.3	60.1	87.6	120.6
	Te.-35°C	Cap (KW)	48.5	57.9	66.4	70.1	95.8	142.7
		input (KW)	40.5	50.6	53.4	57.6	84.4	116.3
	Te.-42°C	Cap (KW)	35.8	42	48.6	51.8	68.4	84.5
		input (KW)	38	48.8	50.8	54.1	80.7	109.6
connetion	Liquid outlet connect (mm)	φ54	φ76	φ76	φ76	φ108	φ108	φ108
	Gas connect(mm)	28	28	28	28	35	42	42
Overall size	L (mm)	1800	1800	1800	2000	2250	2250	2250
	W (mm)	1050	1050	1050	1050	1100	1100	1100
	H (mm)	1300	1300	1300	1300	1730	1730	1730

Remark:Condensing temp. 40°C

Model		BLGS2-100JBGKA	BLGS2-120JBGKA	BLGS2-140JBGKA	BLGS2-150JBGKA	BLGS2-220JBGKA	BLGS2-250JBGKA	BLGS2-320JBGKA
Temperature(°C)/refrigerant		-25°C~-40°C/R507A						
Power supply		380V/3Ph/50HZ						
comp	Type	Semi-hermetic Screw						
	Comp. Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
condenser	type	Shell and tube						
	Water flow (m³/h)	50	60	67	71	102	115	144
	Water pipe size	DN80	DN80	DN100	DN100	DN125	DN125	DN150
Cap.&watt	Te.-25°C	Cap (KW)	142.6	173.2	196.8	206.2	293.4	338.8
		input (KW)	88.4	105.6	114.2	125.6	181.4	198.6
	Te.-30°C	Cap (KW)	118.4	142.6	162.6	171	238.8	280.2
		input (KW)	84.8	103.2	110.6	120.2	175.2	189.4
	Te.-35°C	Cap (KW)	97	115.8	132.8	140.2	191.6	229.4
		input (KW)	81	101.2	106.8	115.2	168.8	181.2
	Te.-42°C	Cap (KW)	71.6	84	97.2	103.6	136.8	169
		input (KW)	76	97.6	101.6	108.2	161.4	170.8
connet	Liquid outlet connect (mm)	φ89	φ108	φ108	φ108	φ133	φ159	φ159
	Gas connect(mm)	35	42	42	42	54	54	67
Overall size	L (mm)	2400	2400	2400	2400	2400	2400	2400
	W (mm)	1880	1880	1880	1880	2150	2150	2150
	H (mm)	2100	2100	2100	2100	2300	2300	2300

Remark:Condensing temp. 40°C

Model		BLGS3-150JBGKA	BLGS3-180JBGKA	BLGS3-210JBGKA	BLGS3-225JBGKA	BLGS3-330JBGK	BLGS3-375JBGK
Temperature(°C)/refrigerant		-25°C~-40°C/R507A					
Power supply		380V/3Ph/50HZ					
Comp	Type	Semi-hermetic Screw					
	Comp. Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125
condenser	type	Shell and tube					
	Water flow (m³/h)	74	90	100	107	153	173
	Water pipe size	DN100	DN125	DN125	DN125	DN150	DN150
Cap.&watt	Te.-25°C	Cap (KW)	213.9	259.8	295.2	309.3	440.1
		inpu (KW)	132.6	158.4	171.3	188.4	272.1
	Te.-30°C	Cap (KW)	177.6	213.9	243.9	256.5	358.2
		inpu (KW)	127.2	154.8	165.9	180.3	262.8
	Te.-35°C	Cap (KW)	145.5	173.7	199.2	210.3	287.4
		inpu (KW)	121.5	151.8	160.2	172.8	253.2
	Te.-42°C	Cap (KW)	107.4	126	145.8	155.4	205.2
		inpu (KW)	114	146.4	152.4	162.3	242.1
connetion	Liquid outlet (mm)	2×φ89	2×φ89	2×φ108	2×φ108	2×φ133	2×φ133
	Gas connect(mm)	42	54	54	54	67	67
Overall size	L (mm)	3300	3300	3300	3300	3500	3500
	W (mm)	1880	1880	1880	1880	2150	2150
	H (mm)	2100	2100	2100	2100	2300	2300

Remark:Condensing temp. 40°C

Model		BLGS4-200 JBGKA	BLGS4-240 JBGKA	BLGS4-280 JBGKA	BLGS4-300 JBGKA
Temperature(°C)/refrigerant		-25°C~-40°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	Type	Semi-hermetic Screw			
	Comp. Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75
condenser	type	Shell and tube			
	Water flow (m³/h)	99	119	133	142
	Water pipe size	DN125	DN125	DN150	DN150
Cap.&watt	Te.-25°C	Cap (KW)	285.2	346.4	393.6
		input (KW)	176.8	211.2	228.4
	Te.-30°C	Cap (KW)	236.8	285.2	325.2
		input (KW)	169.6	206.4	221.2
	Te.-35°C	Cap (KW)	194	231.6	265.6
		input (KW)	162	202.4	213.6
	Te.-42°C	Cap (KW)	143.2	168	194.4
		input (KW)	152	195.2	203.2
connection	Liquid outlet(mm)	3×φ89	3×φ89	3×φ108	3×φ108
	Gas connect(mm)	54	54	67	67
Overall size	L (mm)	4100	4100	4100	4100
	W (mm)	1880	1880	1880	1880
	H (mm)	2100	2100	2100	2100

Remark:Condensing temp. 40°C

4.5 Evaporative compressor rack Refrigerant R507A:

Model			BLGZ-50JB GKA	BLGZ-60JB GKA	BLGZ-70JB GKA	BLGZ-75JB GKA	BLGZ-110JB GKA	BLGZ-125JB GKA	BLGZ-160JB GKA
Temperature(℃)/refrigerant			-25℃~-40℃/R507A						
Power supply			380V/3Ph/50HZ						
Comp	Type		Semi-hermetic Screw						
	Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
Oil cooler type				Air cooled/ Siphon cooled					
Cap.&watt	Te.-25℃	Cap (KW)	74.3	91.1	102.9	108.3	160.5	179.1	224
		input (KW)	39.9	47.4	51.4	57	81.5	91.2	111.8
	Te.-30℃	Cap (KW)	61.7	74.9	85	89.7	131.7	148.5	184.9
		input (KW)	38.3	46.2	49.7	54.6	78.8	86.6	108
	Te.-35℃	Cap (KW)	50.6	60.8	69.3	73.5	106.9	121.9	151.2
		input (KW)	36.6	45.2	48	52.2	75.9	82.5	104.3
	Te.-42℃	Cap (KW)	37.3	44.1	50.8	54.4	78	90.5	111.5
		input (KW)	34.2	43.6	45.5	48.8	72.7	77.7	98.6
Connection	Suction connection (mm)		φ54	φ76	φ76	φ76	φ108	φ108	φ108
	Liquid connection (mm)		28	28	28	28	35	42	42
	Exhaust connection (mm)		φ42	φ54	φ54	φ54	φ76	φ76	φ76
	Liquid in connection (mm)		φ35	φ35	φ35	φ35	φ42	φ54	φ54
size	L (mm)		1750	1750	1750	1750	2150	2150	2150
	W (mm)		1250	1250	1250	1250	1400	1400	1400
	H(mm)		1640	1640	1640	1640	1870	1870	1870

Remark: condensing temperature 35°C

Model			BLGZ2-100JB	BLGZ2-120JB	BLGZ2-140JB	BLGZ2-150JB	BLGZ2-220JB	BLGZ2-250JB	BLGZ2-320JB
			GKA	GKA	GKA	GKA	GKA	GKA	GKA
Temperature(°C)/refrigerant			-25℃~-40℃/R507A						
Power supply			380V/3Ph/50HZ						
Comp	Type		Semi-hermetic Screw						
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
Oil cooler type			Air cooled/ Siphon cooled						
Cap.&watt	Te.-25℃	Cap (KW)	148.6	182.2	205.8	216.6	321	358.2	448
		input (KW)	79.8	94.8	102.8	114	163	182.4	223.6
	Te.-30℃	Cap (KW)	123.4	149.8	170	179.4	263.4	297	369.8
		input (KW)	76.6	92.4	99.4	109.2	157.6	173.2	216
	Te.-35℃	Cap (KW)	101.2	121.6	138.6	147	213.8	243.8	302.4
		input (KW)	73.2	90.4	96	104.4	151.8	165	208.6
	Te.-42℃	Cap (KW)	74.6	88.2	101.6	108.8	156	181	223
		input (KW)	68.4	87.2	91	97.6	145.4	155.4	197.2
Connection	Suction connection (mm)		φ89	φ108	φ108	φ108	φ133	φ159	φ159
	Liquid connection (mm)		35	42	42	42	54	54	67
	Exhaust connection (mm)		φ76	φ76	φ76	φ76	φ108	φ108	φ108
	Liquid in connection (mm)		φ42	φ54	φ54	φ54	φ67	φ67	φ76
Overall size	L (mm)		2650	2650	2650	2650	3450	3450	3450
	W (mm)		1880	1880	1880	1880	2020	2020	2020
	H(mm)		2100	2100	2100	2100	2300	2300	2300

Remark: condensing temperature 35°C

Model			BLGZ3-150JB GKA	BLGZ3-180JB GKA	BLGZ3-210JB GKA	BLGZ3-225JB GKA	BLGZ3-330JB GKA	BLGZ3-375 JBGKA
Temperature(°C)/refrigerant			-25℃~-40℃/R507A					
Power supply			380V/3Ph/50HZ					
compressor	Type		Semi-hermetic Screw					
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125
Oil cooler type			Air cooled/ Siphon cooled					
Cap.&watt	Te.-25℃	Cap (KW)	222.9	273.3	308.7	324.9	481.5	537.3
		input (KW)	119.7	142.2	154.2	171	244.5	273.6
	Te.-30℃	Cap (KW)	185.1	224.7	255	269.1	395.1	445.5
		input (KW)	114.9	138.6	149.1	163.8	236.4	259.8
	Te.-35℃	Cap (KW)	151.8	182.4	207.9	220.5	320.7	365.7
		input (KW)	109.8	135.6	144	156.6	227.7	247.5
	Te.-42℃	Cap (KW)	111.9	132.3	152.4	163.2	234	271.5
		input (KW)	102.6	130.8	136.5	146.4	218.1	233.1
Connection	Suction connection (mm)		2×φ89	2×φ89	2×φ108	2×φ108	2×φ133	2×φ133
	Liquid connection (mm)		42	54	54	54	67	67
	Exhaust connection (mm)		φ76	φ89	φ108	φ108	φ108	φ133
	Liquid in connection (mm)		φ54	φ67	φ67	φ67	φ76	φ76
Overall size	L (mm)		3450	3450	3450	3450	4250	4250
	W (mm)		1900	1900	1900	1900	2020	2020
	H(mm)		2100	2100	2100	2100	2300	2300

Remark: condensing temperature 35°C

Model			BLGZ4-200JB GKA	BLGZ4-240JB GKA	BLGZ4-280JB GKA	BLGZ4-300JB GKA
Temperature(℃)/refrigerant			-25℃~-40℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	Type		Semi-hermetic Screw			
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75
Oil cooler type			Air cooled/ Siphon cooled			
Cap.&watt	Te.-25℃	Cap (KW)	297.2	364.4	411.6	433.2
		input (KW)	159.6	189.6	205.6	228
	Te.-30℃	Cap (KW)	246.8	299.6	340	358.8
		input (KW)	153.2	184.8	198.8	218.4
	Te.-35℃	Cap (KW)	202.4	243.2	277.2	294
		input (KW)	146.4	180.8	192	208.8
	Te.-42℃	Cap (KW)	149.2	176.4	203.2	217.6
		input (KW)	136.8	174.4	182	195.2
connection	Suction connection (mm)		3×φ89	3×φ89	3×φ108	3×φ108
	Liquid connection (mm)		54	54	67	67
	Exhaust connection (mm)		φ89	φ108	φ108	φ108
	Liquid in connection (mm)		φ67	φ67	φ76	φ76
Overall size	L (mm)		4250	4250	4250	4250
	W (mm)		1900	1900	1900	1900
	H(mm)		2100	2100	2100	2100

Remark: condensing temperature 35°C

4.6 Air cooled condenser Refrigerant R507A:

Model			BLGF-50JBGKA	BLGF-60JBGKA	BLGF-70JBGKA	BLGF-75JBGKA	BLGF110JBGKA	BLGF-125JBGKA	BLGF-160JBGKA
Temperature(°C)/refrigerant				-25°C~-40°C/R507A					
Power supply				380V/3Ph/50HZ					
Comp	Type			Semi-hermetic Screw					
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
Oil cooler type				Air cooled/ Siphon cooled					
Cap.&watt	Te. -25°C	Cap (KW)	67.8	81.5	93.2	97.3	128	158.4	198.2
		input (KW)	49.1	59	63.4	69.3	100.7	108.7	140
	Te. -30°C	Cap (KW)	56.2	67.1	77	80.6	102.6	130.7	163.6
		input (KW)	47.1	57.7	61.6	66.5	97	104	135.4
	Te. -35°C	Cap (KW)	46	54.5	62.8	66.1	80.7	106.5	133.2
		input (KW)	45.1	56.5	59.7	63.8	93.3	99.6	130.3
	Te. -42°C	Cap (KW)	33.8	39.5	45.9	48.7	55.2	77.7	96.9
		input (KW)	42.5	54.7	56.9	60.4	88.9	93.8	122.1
connection	Suction connection (mm)		φ54	φ76	φ76	φ76	φ108	φ108	φ108
	Liquid connection (mm)		28	28	28	28	35	42	42
	Exhaust connection (mm)		φ42	φ54	φ54	φ54	φ76	φ76	φ76
	Liquid in connection (mm)		φ35	φ35	φ35	φ35	φ42	φ54	φ54
size	L (mm)		1750	1750	1750	1750	2150	2150	2150
	W (mm)		1250	1250	1250	1250	1400	1400	1400
	H(mm)		1640	1640	1640	1640	1870	1870	1870

Remark: condensing temperature 45℃

model			BLGF2-100JB GKA	BLGF2-120JB GKA	BLGF2-140JB GKA	BLGF2-150JB GKA	BLGF2-220JB GKA	BLGF2-250JB GKA	BLGF2-320JB GKA
Temperature(℃)/refrigerant			-25℃~-40℃/R507A						
Power supply			380V/3Ph/50HZ						
comp	Type		Semi-hermetic Screw						
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160
Oil cooler type			Air cooled/ Siphon cooled						
Cap.&watt	Te. -25℃	Cap (KW)	135.6	163	186.4	194.6	256	316.8	396.4
		input (KW)	98.2	118	126.8	138.6	201.4	217.4	280
	Te. -30℃	Cap (KW)	112.4	134.2	154	161.2	205.2	261.4	327.2
		input (KW)	94.2	115.4	123.2	133	194	208	270.8
	Te. -35℃	Cap (KW)	92	109	125.6	132.2	161.4	213	266.4
		input (KW)	90.2	113	119.4	127.6	186.6	199.2	260.6
	Te.-42℃	Cap (KW)	67.6	79	91.8	97.4	110.4	155.4	193.8
		input (KW)	85	109.4	113.8	120.8	177.8	187.6	244.2
Connection	Suction connection (mm)		φ89	φ108	φ108	φ108	φ133	φ159	φ159
	Liquid connection (mm)		35	42	42	42	54	54	67
	Exhaust connection (mm)		φ76	φ76	φ76	φ76	φ108	φ108	φ108
	Liquid in connection (mm)		φ42	φ54	φ54	φ54	φ67	φ67	φ76
size	L (mm)		2650	2650	2650	2650	3450	3450	3450
	W (mm)		1880	1880	1880	1880	2020	2020	2020
	H(mm)		2100	2100	2100	2100	2300	2300	2300

Remmark: condensing temperature 45℃

Model			BLGF3-150JB	BLGF3-180JB	BLGF3-210JB	BLGF3-225JB	BLGF3-330JB	BLGF3-375JB
			GKA	GKA	GKA	GKA	GKA	GKA
Temperature(°C)/refrigerant				-25°C~-40°C/R507A				
Power supply				380V/3Ph/50HZ				
compressor	Type			Semi-hermetic Screw				
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125
Oil cooler type				Air cooled/ Siphon cooled				
Cap.&watt	Te.-25°C	Cap (KW)	203.4	244.5	279.6	291.9	384	475.2
		input (KW)	147.3	177	190.2	207.9	302.1	326.1
	Te.-30°C	Cap (KW)	168.6	201.3	231	241.8	307.8	392.1
		input (KW)	141.3	173.1	184.8	199.5	291	312
	Te.-35°C	Cap (KW)	138	163.5	188.4	198.3	242.1	319.5
		input (KW)	135.3	169.5	179.1	191.4	279.9	298.8
	Te.-42°C	Cap (KW)	101.4	118.5	137.7	146.1	165.6	233.1
		input (KW)	127.5	164.1	170.7	181.2	266.7	281.4
connection	Suction connection (mm)		2×φ89	2×φ89	2×φ108	2×φ108	2×φ133	2×φ133
	Liquid connection (mm)		42	54	54	54	67	67
	Exhaust connection (mm)		φ76	φ89	φ108	φ108	φ108	φ133
	Liquid in connection (mm)		φ54	φ67	φ67	φ67	φ76	φ76
Overall size	L (mm)		3450	3450	3450	3450	4250	4250
	W (mm)		1900	1900	1900	1900	2020	2020
	H(mm)		2100	2100	2100	2100	2300	2300

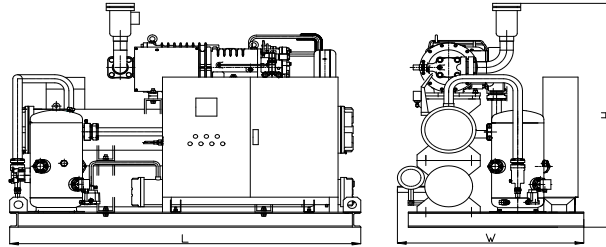
Remark: condensing temperature 45°C

model			BLGF4-200JBGKA	BLGF4-240JBGKA	BLGF4-280JBGKA	BLGF4-300JBGKA
Temperature(℃)/refrigerant			-25℃~-40℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	Type		Semi-hermetic Screw			
	Comp. Model		HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75
Oil cooler type			Air cooled/ Siphon cooled			
Cap.&watt	Te.-25℃	Cap (KW)	271.2	326	372.8	389.2
		input (KW)	196.4	236	253.6	277.2
	Te.-30℃	Cap (KW)	224.8	268.4	308	322.4
		input (KW)	188.4	230.8	246.4	266
	Te.-35℃	Cap (KW)	184	218	251.2	264.4
		input (KW)	180.4	226	238.8	255.2
	Te.-42℃	Cap (KW)	135.2	158	183.6	194.8
		input (KW)	170	218.8	227.6	241.6
connection	Suction connection (mm)		3×φ89	3×φ89	3×φ108	3×φ108
	Liquid connection (mm)		54	54	67	67
	Exhaust connection (mm)		φ89	φ108	φ108	φ108
	Liquid in connection (mm)		φ67	φ67	φ76	φ76
Overall size	L (mm)		4250	4250	4250	4250
	W (mm)		1900	1900	1900	1900
	H(mm)		2100	2100	2100	2100

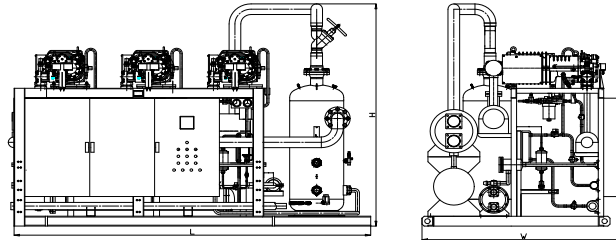
Remark: condensing temperature 45°C

4.7 Diagrams for Overall sizes

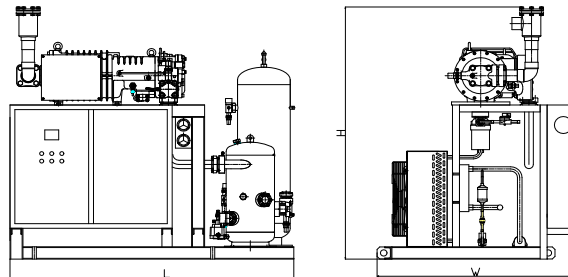
Water cooled single compressor :



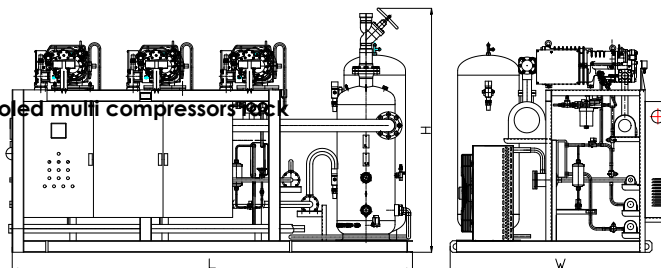
Water cooled multi compressors



Air cooled single compressor



Air cooled/ evaporative cooled multi compressors

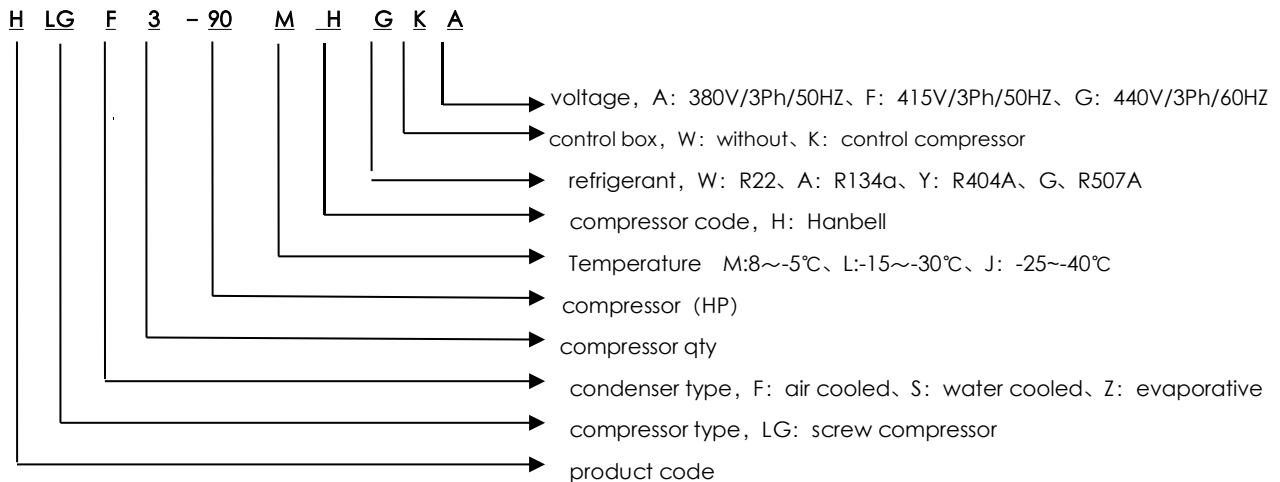


H Series Mid Temperature Semi-hermetic Screw Compressor Units

1、Product description

This HLG-H series products are applicable to the large size -5℃~-8℃ and -15℃~-20℃ refrigeration system, as the large size fresh keepin

2、Model code



3、Main components

HLGS (F/Z) × × M single unit:

- Screw Compressor
- Condenser(only for Water cooled)
- Receiver(only for Air cooled)
- Filter vat
- Sight glasses
- Hydrojet system
- Feed pipe ball valve
- Suction filter barrel
- Oil pressure differential protection
- High & Low pressure protector
- Pressure gauge
- High pressure controller(control cooling tower or condenser fan)
- Low pressure sensor(optional)
- Unit control box (Nonshared control unit for screw compressor.)

HLGS (F/Z) × × L single unit:

- Screw Compressor
- Twice oil separate
- Oil separator outlet ball valve
- Oil return sight glasses
- Condenser(only for Water cooled)
- Receiver(only for Air cooled)
- Filter vat
- Sight glasses
- Hydrojet system
- Economizer system
- Oil cooler
- Suction filter barrel
- Oil pressure differential protection
- High-low pressure protector.
- Pressure gauge
- High pressure controller(control cooling tower or condenser fan)
- Low pressure sensor(optional)
- Unit control box (Nonshared control unit for screw Compressor.)

HLGS (F/Z) × × Multi compressor rack:

- Screw Compressor
- Oil separator
- Oil separator outlet valve
- Return oil system assembly
- Condenser(only for Water-cooling unit)
- Receiver
- Filter vat
- Sight glasses
- Hydrojet system
- Suction Filter
- High-low pressure protector
- Pressure gauge
- High pressure controller (control cooling tower or condenser fan)
- Low pressure sensor(optional)
- Unit control box(PLC+Touch panel)

HLGS (F/Z) × × L Multi compressor rack:

- Screw Compressor
- Oil separator
- Oil separator outlet valve
- Return oil system assembly
- Oil cooler(only for Air-cooling unit)
- Condenser(only for Water cooled)
- Receiver
- Filter vat
- Sight glasses
- Hydrojet system
- Suction Filter
- Economizer system
- High-low pressure protector
- Pressure gauge
- High pressure controller (control condensing fan)
- Low pressure sensor(optional)
- Unit control box (PLC+Touch panel)

4. Specifications

4.1 water cooled high and medium temperature refrigerant R507A

model		HLGS-30MHGKA	HLGS-40MHGKA	HLGS-50MHGKA	HLGS-60MHGKA
Temperature(°C)/refrigera		-5~8°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	type	Screw compressor			
	model	RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Capacity control	66%-100%			50%-75%-100%
condenser	type	Shell and tube			
	Water flow (m³/h)	19	26	34	45
	connection	Rp2-1/2	Rp3	Rp3	DN100
Cap. & watt	Te 0°C	Cap (KW)	76.2	106	138.8
		input (KW)	27.5	36.3	45.7
	-5°C	Cap (KW)	62.2	86.5	113.3
		input (KW)	26.4	34.9	43.9
	-10	Cap (KW)	50.3	69.8	91.5
		input (KW)	25.3	33.4	42
	Gas connection		φ54	φ54	φ67
	Liquid connection		φ28	φ35	φ35
size	A (mm)		1650	1650	2130
	B(mm)		930	930	930
	C(mm)		1150	1150	1300

model		HLGS-70MHGKA	HLGS-80MHGKA	HLGS-90MHGKA	HLGS-100MHGKA
Temperature(°C)/refrigera		-5~8°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	type	Screw compressor			
	model	RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Capacity control	50%-75%-100%			
condenser	type	Shell and tube			
	Water flow (m³/h)	48	60	66	72
	connection	DN100	DN125	DN125	DN125
Cap. & watt	Te 0°C	Cap (KW)	199.7	249.3	277.5
		input (KW)	65.7	79.2	86.4
	-5°C	Cap (KW)	163.1	203.5	226.6
		input (KW)	63.2	76.1	83
	Te-1 0°C	Cap (KW)	131.7	164.3	182.9
		input (KW)	60.5	72.9	79.5
	Gas connection		φ76	φ76	φ108
	Liquid connection		φ42	φ54	φ54
size	A (mm)		2550	2850	2850
	B(mm)		930	930	930
	C(mm)		1300	1350	1350

Remark: condensing temperature 40°C

model			HLGS2-60MHGKA	HLGS2-80MHGKA	HLGS2-100MHGKA	HLGS2-120MHGKA
Temperature(℃)/refrigerant			-5~8℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	typer		Screw compressor			
	model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		2	2	2	2
	Capacity control			33%-50%-66%-100%		25%-50%-75%-100%
condenser	type		Shell and tube			
	Water flow (m³/h)		38	52	67	90
	connection		DN80	DN100	DN125	DN125
Cap.&watt	Te 0℃	Cap (KW)	152.4	212	277.6	372
		input (KW)	55	72.6	91.4	120.4
	Te -5℃	Cap (KW)	124.4	173	226.6	303.8
		input (KW)	52.8	69.8	87.8	115.8
	Te-10 ℃	Cap (KW)	100.6	139.6	183	245.2
		input (KW)	50.6	66.8	84	110.8
	Gas connection (mm)		φ76	φ89	φ108	φ108
	Liquid connection (mm)		φ42	φ42	φ54	φ54
Size A×B×C(mm)			2550×1700×1750	2550×1700×1750	2850×1800×1950	3060×1800×2000

model			HLGS2-140MHGKA	HLGS2-160MHGKA	HLGS2-180MHGKA	HLGS2-200MHGKA
Temperature(℃)/refrigerant			-5~8℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	typer		Screw compressor			
	model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		2	2	2	2
	Capacity control		25%-50%-75%-100%			
condenser	type		Shell and tube			
	Water flow (m³/h)		97	120	133	143
	connection		DN150	DN150	DN150	DN150
Cap.&watt	Te 0℃	Cap (KW)	399.4	498.6	555	597.8
		input (KW)	131.4	158.4	172.8	187.6
	Te -5℃	Cap (KW)	326.2	407	453.2	488
		input (KW)	126.4	152.2	166	180.2
	Te-10 ℃	Cap (KW)	263.4	328.6	365.8	394
		input (KW)	121	145.8	159	172.6
	Gas connection (mm)		φ108	φ108	φ133	φ133
	Liquid connection (mm)		φ67	φ67	φ67	φ67
Size A×B×C(mm)			3350×1800×2000	3450×1850×2150	3450×2100×2150	3450×2100×2150

Remark: condensing temperature 40°C

model			HLGS3-90MHGKA	HLGS3-120MHGKA	HLGS3-150MHGKA	HLGS3-180MHGKA
Temperature(℃)/refrigerant			-5~8℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	typer		Screw compressor			
	model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		3	3	3	3
Capacity control			33%-66%-100%			16%-33%-50%-66%-83% -100%
condenser	type		Shell and tube			
	Water flow (m³/h)		57	78	101	135
	connection		DN125	DN125	DN150	DN150
Cap.&watt	Te 0℃	Cap (KW)	228.6	318	416.4	558
		input (KW)	82.5	108.9	137.1	180.6
	Te -5℃	Cap (KW)	186.6	259.5	339.9	455.7
		input (KW)	79.2	104.7	131.7	173.7
	Te-10 ℃	Cap (KW)	150.9	209.4	274.5	367.8
		input (KW)	75.9	100.2	126	166.2
connection	Gas connection (mm)		2×φ76steel pipe	2×φ76 steel pipe	2×φ89	2×φ108
	Liquid connection (mm)		φ54	φ54	φ67	φ67
Size A×B×C(mm)			3050×1700×1950	3050×1700×1950	3350×1800×1950	3800×1950×2150

model			HLGS3-210MHGKA	HLGS3-240MHGKA	HLGS3-270MHGKA	HLGS3-300MHGKA
Temperature(℃)/refrigera			-5~8℃/R507A			
Power supply			380V/3Ph/50HZ			
compressor	typer		Screw compressor			
	model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		3	3	3	3
Capacity control			16%-33%-50%-66%-83%-100%			
condenser	type		Shell and tube			
	Water flow (m³/h)		145	180	199	215
	connection		DN150	DN200	DN200	DN200
Cap.&watt	Te 0℃	Cap (KW)	599.1	747.9	832.5	896.7
		input (KW)	197.1	237.6	259.2	281.4
	Te -5℃	Cap (KW)	489.3	610.5	679.8	732
		input (KW)	189.6	228.3	249	270.3
	Te-10 ℃	Cap (KW)	395.1	492.9	548.7	591
		input (KW)	181.5	218.7	238.5	258.9
	Gas connection (mm)		2×φ108	2×φ108	2×φ133	2×φ133
	Liquid connection (mm)		φ67	φ76	φ76	φ76
Size A×B×C(mm)			3800×2000×2150	3800×2150×2250	4050×2150×2250	4050×2150×2250

Remark: condensing temperature 40°C

4.2 water cooled low temperature refrigerant R507A

Model			HLGS-30LHGKA	HLGS-40LHGKA	HLGS-50LHGKA	HLGS-60LHGKA
Temperature(°C)/refrigera			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
compressor	type		Screw compressor			
	model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Capacity control		66%-100%		50%-75%-100%	
condenser	type		Shell and tube			
	Water flow (m³/h)		15	20	26	35
	connection		Rp2-1/2	Rp2-1/2	Rp3	DN80
Cap.&watt	Te -20°C	Cap (KW)	42.4	59	77.2	103.5
		input (KW)	26.6	35.5	44.5	58.6
	Te -25°C	Cap (KW)	34.1	47.3	62	83.1
		input (KW)	25.2	33.7	43.4	57.2
	Te -30°C	Cap (KW)	26.8	37.3	48.8	65.5
		input (KW)	23.7	31.8	40.4	53.6
	Gas connection		φ54	φ54	φ67	φ76
	Liquid		φ22	φ22	φ28	φ28
	size	A (mm)		1900	1900	2150
B(mm)		1400	1400	1400	1550	
C(mm)		1200	1200	1200	1350	

model			HLGS-70LHGKA	HLGS-80LHGKA	HLGS-90LHGKA	HLGS-100LHGKA
Temperature(°C)/refrigera			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
compressor	type		Screw compressor			
	model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Capacity control		50%-75%-100%			
condenser	type		Shell and tube			
	Water flow (m³/h)		38	46	51	55
	connection		DN80	DN100	DN100	DN125
Cap.&watt	Te-20 ℃	Cap (KW)	111.2	138.8	154.5	166.3
		input (KW)	64	77	83.9	91.1
	Te-25 ℃	Cap (KW)	89.2	111.4	124	133.5
		input (KW)	62.5	75.1	81.8	88.8
	Te-30 ℃	Cap (KW)	70.3	87.7	97.7	105.2
		input (KW)	58.2	71	78	84.3
Gas connection			φ76	φ76	φ108	φ108
Liquid			φ28	φ35	φ35	φ35
size	A (mm)		2600	2650	2650	2650
	B(mm)		1550	1550	1600	1600
	C(mm)		1400	1400	1450	1450

Remark: condensing temperature 40°C, with economizer

model		HLGS2-60LHGKA	HLGS2-80LHGKA	HLGS2-100LHGKA	HLGS2-120LHGKA
Temperature(°C)/refrigerant		-15~-20°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	type	Screw compressor			
	model	RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty	2	2	2	2
Capacity control		33%-50%-66%-100%			25%-50%-75%-100%
condenser	type	Shell and tube			
	Water flow (m³/h)	30	41	52	69
	connection	Rp3	DN80	DN100	DN125
Cap.&watt	Te-20°C	Cap (KW)	84.8	118	154.4
		input (KW)	53.2	71	89
	Te-25°C	Cap (KW)	68.2	94.6	124
		input (KW)	50.4	67.4	86.8
	Te-30°C	Cap (KW)	53.6	74.6	97.6
		input (KW)	47.4	63.6	80.8
	Liquid connection (mm)		φ35	φ35	φ42
Size A×B×C(mm)		2600×1900×1750	2600×1950×1750	2600×2000×1950	2900×2100×2000

model		HLGS2-140LHGKA	HLGS2-160LHGKA	HLGS2-180LHGKA	HLGS2-200LHGKA
Temperature(°C)/refrigerant		-15~-20°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	type	Screw compressor			
	model	RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty	2	2	2	2
Capacity control		25%-50%-75%-100%			
condenser	type	Shell and tube			
	Water flow (m³/h)	75	92	102	110
	connection	DN125	DN150	DN150	DN150
Cap.&watt	Te-20°C	Cap (KW)	222.4	277.6	309
		input (KW)	128	154	167.8
	Te-25°C	Cap (KW)	178.4	222.8	248
		input (KW)	125	150.2	163.6
	Te-30°C	Cap (KW)	140.6	175.4	195.4
		input (KW)	116.4	142	156
option	Gas connection (mm)		φ108	φ108	φ133
	Liquid connection (mm)		φ42	φ54	φ54
Size A×B×C(mm)		2900×2100×2000	3100×2200×2150	3400×2200×2250	3400×2200×2250

Remark: condensing temperature 40°C.with economizer

model		HLGS3-90LHGKA	HLGS3-120LHGKA	HLGS3-150LHGKA	HLGS3-180LHGKA
Temperature(°C)/refrigerant		-15~-20°C/R507A			
Power supply		380V/3Ph/50HZ			
compressor	type	Screw compressor			
	model	RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty	3	3	3	3
Capacity control		33%-66%-100%			16%-33%-50%-66%-83%-100%
condenser	type	Shell and tube			
	Water flow (m³/h)	44	61	78	104
	connection	DN100	DN125	DN125	DN150
Cap.&watt	Te-20°C	Cap (KW)	127.2	177	231.6
		input (KW)	79.8	106.5	133.5
	Te-25°C	Cap (KW)	102.3	141.9	186
		input (KW)	75.6	101.1	130.2
	Te-30°C	Cap (KW)	80.4	111.9	146.4
		input (KW)	71.1	95.4	121.2
ratio	Gas connection (mm)		2×φ76	2×φ76	2×φ89
	Liquid connection (mm)		φ35	φ42	φ54
Size A×B×C(mm)		3150×1950×1750	3150×1950×1750	3350×2100×1950	3750×2200×2150

model			HLGS3-210LHGKA	HLGS3-240LHGKA	HLGS3-270LHGKA	HLGS3-300LHGKA
Temperature(°C)/refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
compressor	type		Screw compressor			
	model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		3	3	3	3
Capacity control			16%-33%-50%-66%-83%-100%			
condenser	type		Shell and tube			
	Water flow (m³/h)		113	139	153	165
	connection		DN150	DN150	DN200	DN200
Cap.&watt	Te-20 ℃	Cap (KW)	333.6	416.4	463.5	498.9
		input (KW)	192	231	251.7	273.3
	Te-25 ℃	Cap (KW)	267.6	334.2	372	400.5
		input (KW)	187.5	225.3	245.4	266.4
	Te-30 ℃	Cap (KW)	210.9	263.1	293.1	315.6
		input (KW)	174.6	213	234	252.9
Gas connection		2×φ108	2×φ108	2×φ133	2×φ133	
Liquid connection		φ54	φ67	φ67	φ67	
Size A×B×C(mm)			3750×2200×2150	3750×2200×2250	3950×2200×2250	3950×2200×2250

Remark: condensing temperature 40°C,with economizer

4.3 evaporative high and medium temperature

Refrigerant R507A

Model			HLGZ-30MHGKA	HLGZ-40MHGKA	HLGZ-50MHGKA	HLGZ-60MHGKA
Temperature(°C)/Refrigerant			-5°C~8°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Energy adjustment		66%-100%			50%-75%-100%
Cap. & Watt.	Te 0°C	(KW) Cap	83.3	115.8	151.7	203.4
		(KW) Input	25	33	41.6	54.8
	Te-5°C	(KW) Cap.	68.4	95.1	124.5	166.9
		(KW) Input	24.1	31.8	40	52.8
	Te-10°C	(KW) Cap.	55.6	77.2	101.1	135.6
		(KW) Input	23.1	30.5	38.3	50.6
Connector	Liquid dia. (mm)		φ54	φ54	φ67	φ76
	Gas out dia. (mm)		φ28	φ35	φ35	φ42
	Discharge (mm)		φ42	φ42	φ42	φ54
	Liquid in (mm)		φ35	φ35	φ35	φ42
Overall size	A(mm)		1950	1950	2250	2250
	B(mm)		900	900	900	900
	C(mm)		1150	1150	1150	1250

Model			HLGZ-70MHGKA	HLGZ-80MHGKA	HLGZ-90MHGKA	HLGZ-100MHGKA
Temperature(°C)/Refrigerant			-5°C~8°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Energy adjustment		50%-75%-100%			
Cap. & Watt.	Te 0°C	(KW) Cap	218.4	272.5	303.4	326.7
		(KW) Input	59.8	72.1	78.6	85.4
	Te-5°C	(KW) Cap.	179.3	223.7	249.1	268.2
		(KW) Input	57.6	69.4	75.6	82.2
	Te-10°C	(KW) Cap.	145.6	181.7	202.3	217.8
		(KW) Input	55.2	66.5	72.5	78.7
Connector	Liquid dia. (mm)		φ76	φ76	φ108	φ108
	Gas out dia. (mm)		φ42	φ54	φ54	φ54
	Discharge (mm)		φ54	φ54	φ67	φ67
	Liquid in (mm)		φ42	φ54	φ54	φ54
Overall size	A(mm)		2250	2550	2550	2550
	B(mm)		900	950	950	950
	C(mm)		1250	1300	1350	1350

Remarks: Cooling capacity and input power under condensing temp. at 35°C;

Model			HLGZ2-60MHGKA	HLGZ2-80MHGKA	HLGZ2-100MHGKA	HLGZ2-120MHGKA
Temperature(°C)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		2	2	2	2
Energy adjustment			33%-50%-66%-100%			25%-50%-75%-100%
Cap. & Watt.	Te 0℃	(KW) Cap	166.6	231.6	303.4	406.8
		(KW) Input	50	66	83.2	109.6
	Te-5℃	(KW) Cap.	136.8	190.2	249	333.8
		(KW) Input	48.2	63.6	80	105.6
	Te-10℃	(KW) Cap.	111.2	154.4	202.2	271.2
		(KW) Input	46.2	61	76.6	101.2
connector	Liquid dia. (mm)		φ76steel pipe	φ89steel pipe	φ108	φ108
	Gas out dia. (mm)		φ42	φ42	φ54	φ54
	Discharge (mm)		φ54	φ54	φ76	φ76
	Liquid in (mm)		φ42	φ42	φ67	φ67
Overall size A×B×C(mm)			2550×1700×1750	2550×1700×1750	2550×1700×1950	2850×1700×2000

Model			HLGZ2-140MHGKA	HLGZ2-160MHGKA	HLGZ2-180MHGKA	HLGZ2-200MHGKA
Temperature(°C)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		2	2	2	2
Energy adjustment			25%-50%-75%-100%			
Cap. & Watt.	Te 0℃	(KW) Cap	436.8	545	606.8	653.4
		(KW) Input	119.6	144.2	157.2	170.8
	Te-5℃	(KW) Cap.	358.6	447.4	498.2	536.4
		(KW) Input	115.2	138.8	151.2	164.4
	Te-10 ℃	(KW) Cap.	291.2	363.4	404.6	435.6
		(KW) Input	110.4	133	145	157.4
Connector	Liquid dia. (mm)		φ108	φ108	φ133	φ133
	Gas out dia. (mm)		φ67	φ67	φ67	φ67
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ67	φ67	φ76	φ76
Overall size A×B×C(mm)			2850×1750×2000	2850×1750×2000	3050×2100×2300	3050×2100×2300

Remarks: Cooling capacity and input power under condensing temp. at 35°C;

Model			HLGZ3-90MHGKA	HLGZ3-120MHGKA	HLGZ3-150MHGKA	HLGZ3-180MHGKA
Temperature(°C)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		3	3	3	3
Energy adjustment			33%-66%-100%			16%-33%-50%-66%-83% -100%
Cap. & Watt	Te 0℃	(KW) Cap	249.9	347.4	455.1	610.2
		(KW) Input	75	99	124.8	164.4
	Te-5℃	(KW) Cap.	205.2	285.3	373.5	500.7
		(KW) Input	72.3	95.4	120	158.4
	Te-10 ℃	(KW) Cap.	166.8	231.6	303.3	406.8
		(KW) Input	69.3	91.5	114.9	151.8
Connector	Liquid dia. (mm)		2×φ76 steel pipe	2×φ76steel pipe	2×φ89	2×φ108
	Gas out dia. (mm)		φ54	φ54	φ67	φ67
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ67	φ67	φ76	φ76
Overall size A×B×C(mm)			3050×1700×1950	3050×1700×1950	3300×1800×1950	3800×1800×2330

Model			HLGZ3-210MHGKA	HLGZ3-240MHGKA	HLGZ3-270MHGKA	HLGZ3-300MHGKA
Temperature(°C)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		3	3	3	3
Energy adjustment			16%-33%-50%-66%-83%-100%			
Cap. & Watt	Te 0℃	(KW) Cap	655.2	817.5	910.2	980.1
		(KW) Input	179.4	216.3	235.8	256.2
	Te-5℃	(KW) Cap.	537.9	671.1	747.3	804.6
		(KW) Input	172.8	208.2	226.8	246.6
	Te-10 ℃	(KW) Cap.	436.8	545.1	606.9	653.4
		(KW) Input	165.6	199.5	217.5	236.1
connector	Liquid dia. (mm)		2×φ108	2×φ108	2×φ133	2×φ133
	Gas out dia. (mm)		φ67	φ76	φ76	φ76
	Discharge (mm)		φ108	φ108	φ108	φ108
	Liquid in (mm)		φ76	φ89	φ89	φ89
Overall size A×B×C(mm)			3800×1800×2330	3800×1900×2350	4000×1950×2350	4000×1950×2350

Remarks: Cooling capacity and input power under condensing temp. at 35°C;

4.4 Evaporative condenser L/M temp.Racks R507A Refrigerant

Model			HLGZ-30LHGKA	HLGZ-40LHGKA	HLGZ-50LHGKA	HLGZ-60LHGKA
Temperature(°C)/Refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Energy adjustment		66%-100%		50%-75%-100%	
Cap. & Watt	Te-20 °C	(KW) Cap	45.1	62.6	82	109.9
		(KW) Input	24	31.6	39.4	52.1
	Te-25 °C	(KW) Cap.	36.4	50.6	66.3	88.9
		(KW) Input	23	30.8	38.5	50.9
	Te-30 °C	(KW) Cap.	28.9	40.2	52.6	70.5
		(KW) Input	21.7	29.2	37.2	49.8
connector	Liquid dia. (mm)		φ54	φ54	φ67	φ76
	Gas out dia. (mm)		φ22	φ22	φ28	φ28
	Discharge (mm)		φ42	φ42	φ42	φ54
	Liquid in (mm)		φ28	φ28	φ35	φ35
Overall size	A (mm)		1900	1900	2200	2200
	B(mm)		1400	1400	1400	1450
	C(mm)		1200	1200	1200	1350

Model			HLGZ-70LHGKA	HLGZ-80LHGKA	HLGZ-90LHGKA	HLGZ-100LHGKA
Temperature(°C)/Refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Energy adjustment		50%-75%-100%			
Cap. & Watt	Te-20 °C	(KW) Cap	118	147.3	164	176.6
		(KW) Input	57	68.3	74.3	80.8
	Te-25 °C	(KW) Cap.	95.4	119.1	132.6	142.8
		(KW) Input	55.5	66.7	72.5	79
	Te-30 °C	(KW) Cap.	75.7	94.5	105.2	113.3
		(KW) Input	53.6	65.4	71.2	77.2
connector	Liquid dia. (mm)		φ76	φ76	φ108	φ108
	Gas out dia. (mm)		φ28	φ35	φ35	φ35
	Discharge (mm)		φ54	φ54	φ67	φ67
	Liquid in (mm)		φ35	φ42	φ42	φ42
Overall size	A(mm)		2200	2600	2600	2600
	B(mm)		1450	1500	1550	1550
	C(mm)		1350	1400	1450	1450

Remarks: Cooling capacity and input power under condensing temp. at 35°C; working with economizer

Model			HLGZ2-60LHGKA	HLGZ2-80LHGKA	HLGZ2-100LHGKA	HLGZ2-120LHGKA
Temperature(℃)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Energy adjustment		2	2	2	2
Energy adjustment			33%-50%-66%-100%			25%-50%-75%-100%
Cap. & Watt	Te-20 ℃	(KW) Cap	90.2	125.2	164	219.8
		(KW) Input	48	63.2	78.8	104.2
	Te-25 ℃	(KW) Cap.	72.8	101.2	132.6	177.8
		(KW) Input	46	61.6	77	101.8
	Te-30 ℃	(KW) Cap.	57.8	80.4	105.2	141
		(KW) Input	43.4	58.4	74.4	99.6
connector	Liquid dia. (mm)		φ76 钢管	φ89 钢管	φ108	φ108
	Gas out dia. (mm)		φ35	φ35	φ42	φ42
	Discharge (mm)		φ54	φ54	φ76	φ76
	Liquid in (mm)		φ42	φ42	φ54	φ54
Overall size A×B×C(mm)			2950×1700×1750	2950×1700×1750	3000×1700×1950	3350×1700×2000

Model			HLGZ2-140LHGKA	HLGZ2-160LHGKA	HLGZ2-180LHGKA	HLGZ2-200LHGKA
Temperature(℃)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Qty		2	2	2	2
Energy adjustment			25%-50%-75%-100%			
Cap. & Watt	Te-20 ℃	(KW) Cap	236	294.6	328	353.2
		(KW) Input	114	136.6	148.6	161.6
	Te-25 ℃	(KW) Cap.	190.8	238.2	265.2	285.6
		(KW) Input	111	133.4	145	158
	Te-30 ℃	(KW) Cap.	151.4	189	210.4	226.6
		(KW) Input	107.2	130.8	142.4	154.4
connector	Liquid dia. (mm)		φ108	φ108	φ133	φ133
	Gas out dia. (mm)		φ42	φ54	φ54	φ54
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ54	φ67	φ67	φ67
Overall size A×B×C(mm)			3350×1700×2000	3450×2000×2150	3650×2100×2300	3650×2100×2300

Remarks: Cooling capacity and input power under condensing temp. at 35°C; working with economizer

Model			HLGZ3-90LHGKA	HLGZ3-120LHGKA	HLGZ3-150LHGKA	HLGZ3-180LHGKA
Temperature(°C)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Qty		3	3	3	3
Energy adjustment			33%-66%-100%			16%-33%-50%-66%-83%-100%
Cap. & Watt	Te-20℃	(KW) Cap	135.3	187.8	246	329.7
		(KW) Input	72	94.8	118.2	156.3
	Te-25℃	(KW) Cap.	109.2	151.8	198.9	266.7
		(KW) Input	69	92.4	115.5	152.7
	Te-30℃	(KW) Cap.	86.7	120.6	157.8	211.5
		(KW) Input	65.1	87.6	111.6	149.4
connector	Liquid dia. (mm)		2×φ76 steel pipe	2×φ76steel pipe	2×φ89	2×φ108
	Gas out dia. (mm)		φ35	φ42	φ42	φ54
	Discharge (mm)		φ76	φ76	φ76	φ108
	Liquid in (mm)		φ42	φ54	φ54	φ67
Overall size A×B×C(mm)			3550×1700×1950	3550×1700×1950	3800×1800×1950	4350×2050×2330

Model			HLGZ3-210LHGKA	HLGZ3-240LHGKA	HLGZ3-270LHGKA	HLGZ3-300LHGKA
Temperature(°C)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Qty		3	3	3	3
Energy adjustment			16%-33%-50%-66%-83%-100%			
Cap. & Watt	Te-20 ℃	(KW) Cap	354	441.9	492	529.8
		(KW) Input	171	204.9	222.9	242.4
	Te-25 ℃	(KW) Cap.	286.2	357.3	397.8	428.4
		(KW) Input	166.5	200.1	217.5	237
	Te-30 ℃	(KW) Cap.	227.1	283.5	315.6	339.9
		(KW) Input	160.8	196.2	213.6	231.6
connector	Liquid dia. (mm)		2×φ108	2×φ108	2×φ133	2×φ133
	Gas out dia. (mm)		φ54	φ67	φ67	φ67
	Discharge (mm)		φ108	φ108	φ108	φ108
	Liquid in (mm)		φ67	φ76	φ76	φ76
Overall size A×B×C(mm)			4350×2050×2330	4350×2050×2350	4650×2100×2350	4650×2100×2350

Remarks: Cooling capacity and input power under condensing temp. at 35°C; working with economizer

4.5 Air cooled M/H Temp Racks: R507A Refrigerant

Model			HLGF-30MHGKA	HLGF-40MHGKA	HLGF-50MHGKA	HLGF-60MHGKA
Temperature(°C)/Refrigerant			-5°C~8°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Energy adjustment		66%-100%			50%-75%-100%
Cap. & Watt	Te-0°C	(KW) Cap	68.6	95.4	124.9	167.4
		(KW) Input	30.3	40	50.3	66.4
	Te-5°C	(KW) Cap.	55.6	77.3	101.2	135.7
		(KW) Input	29.1	38.4	48.3	63.7
	Te-10°C	(KW) Cap.	44.6	61.9	81.1	108.7
		(KW) Input	27.8	36.7	46.2	61
connector	Liquid dia. (mm)		φ54	φ54	φ67	φ76
	Gas out dia. (mm)		φ28	φ35	φ35	φ42
	Discharge (mm)		φ42	φ42	φ42	φ54
	Liquid in (mm)		φ35	φ35	φ35	φ42
Overall size	A(mm)		1950	1950	2250	2250
	B(mm)		900	900	900	900
	C(mm)		1150	1150	1150	1250

Model			HLGF-70MHGKA	HLGF-80MHGKA	HLGF-90MHGKA	HLGF-100MHGKA
Temperature(°C)/Refrigerant			-5°C~8°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Energy adjustment		50%-75%-100%			
Cap. & Watt	Te-0°C	(KW) Cap	179.7	224.3	249.7	268.9
		(KW) Input	72.5	87.3	95.2	103.4
	Te-5°C	(KW) Cap.	145.7	181.9	202.5	218
		(KW) Input	69.6	83.8	91.4	99.3
	Te-10°C	(KW) Cap.	116.7	145.7	162.2	174.7
		(KW) Input	66.5	80.2	87.4	94.9
connector	Liquid dia. (mm)		φ76	φ76	φ108	φ108
	Gas out dia. (mm)		φ42	φ54	φ54	φ54
	Discharge (mm)		φ54	φ54	φ67	φ67
	Liquid in (mm)		φ42	φ54	φ54	φ54
Overall size	A(mm)		2250	2550	2550	2550
	B(mm)		900	950	950	950
	C(mm)		1250	1300	1350	1350

Remarks: Cooling capacity and input power under condensing temp. at 45°C;

Model			HLGF2-60MHGKA	HLGF2-80MHGKA	HLGF2-100MHGKA	HLGF2-120MHGKA
Temperature(℃)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		2	2	2	2
Energy adjustment			33%-50%-66%-100%			25%-50%-75%-100%
Cap. & Watt	Te-0℃	(KW) Cap	137.2	190.8	249.8	334.8
		(KW) Input	60.6	80	100.6	132.8
	Te-5℃	(KW) Cap.	111.2	154.6	202.4	271.4
		(KW) Input	58.2	76.8	96.6	127.4
	Te-10℃	(KW) Cap.	89.2	123.8	162.2	217.4
		(KW) Input	55.6	73.4	92.4	122
connector	Liquid dia. (mm)		φ76 steel pipe	φ89 steel pipe	φ108	φ108
	Gas out dia. (mm)		φ42	φ42	φ54	φ54
	Discharge (mm)		φ54	φ54	φ76	φ76
	Liquid in (mm)		φ42	φ42	φ67	φ67
Overall size A×B×C(mm)			2550×1700×1750	2550×1700×1750	2550×1700×1950	2850×1700×2000

Model			HLGF2-140MHGKA	HLGF2-160MHGKA	HLGF2-180MHGKA	HLGF2-200MHGKA
Temperature(℃)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		2	2	2	2
Energy adjustment			25%-50%-75%-100%			
Cap. & Watt	Te-0℃	(KW) Cap	359.4	448.6	499.4	537.8
		(KW) Input	145	174.6	190.4	206.8
	Te-5℃	(KW) Cap.	291.4	363.8	405	436
		(KW) Input	139.2	167.6	182.8	198.6
	Te-10℃	(KW) Cap.	233.4	291.4	324.4	349.4
		(KW) Input	133	160.4	174.8	189.8
connector	Liquid dia. (mm)		φ108	φ108	φ133	φ133
	Gas out dia. (mm)		φ67	φ67	φ67	φ67
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ67	φ67	φ76	φ76
Overall size A×B×C(mm)			2850×1750×2000	2850×1750×2000	3050×2100×2300	3050×2100×2300

Remarks: Cooling capacity and input power under condensing temp. at 45°C;

Model			HLGF3-90MHGKA	HLGF3-120MHGKA	HLGF3-150MHGKA	HLGF3-180MHGKA
Temperature(℃)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		3	3	3	3
Energy adjustment			33%-66%-100%			16%-33%-50%-66%-83% -100%
Cap. & Watt	Te-0℃	(KW) Cap	205.8	286.2	374.7	502.2
		(KW) Input	90.9	120	150.9	199.2
	Te-5℃	(KW) Cap.	166.8	231.9	303.6	407.1
		(KW) Input	87.3	115.2	144.9	191.1
	Te-10℃	(KW) Cap.	133.8	185.7	243.3	326.1
		(KW) Input	83.4	110.1	138.6	183
connector	Liquid dia. (mm)		2×φ76 steel pipe	2×φ76 steel pipe	2×φ89	2×φ108
	Gas out dia. (mm)		φ54	φ54	φ67	φ67
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ67	φ67	φ76	φ76
Overall size A×B×C(mm)			3050×1700×1950	3050×1700×1950	3300×1800×1950	3800×1800×2330

Model			HLGF3-210MHGKA	HLGF3-240MHGKA	HLGF3-270MHGKA	HLGF3-300MHGKA
Temperature(℃)/Refrigerant			-5℃~8℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		3	3	3	3
Energy adjustment			16%-33%-50%-66%-83%-100%			
Cap. & Watt	Te-0℃	(KW) Cap	539.1	672.9	749.1	806.7
		(KW) Input	217.5	261.9	285.6	310.2
	Te-5℃	(KW) Cap.	437.1	545.7	607.5	654
		(KW) Input	208.8	251.4	274.2	297.9
	Te-10℃	(KW) Cap.	350.1	437.1	486.6	524.1
		(KW) Input	199.5	240.6	262.2	284.7
connector	Liquid dia. (mm)		2×φ108	2×φ108	2×φ133	2×φ133
	Gas out dia. (mm)		φ67	φ76	φ76	φ76
	Discharge (mm)		φ108	φ108	φ108	φ108
	Liquid in (mm)		φ76	φ89	φ89	φ89
Overall size A×B×C(mm)			3800×1800×2330	3800×1900×2350	4000×1950×2350	4000×1950×2350

Remarks: Cooling capacity and input power under condensing temp. at 45°C;

4.6 Air cooled L/M Temp Racks: R507A Refrigerant

Model			HLGF-30LHGKA	HLGF-40LHGKA	HLGF-50LHGKA	HLGF-60LHGKA
Temperature(°C)/Refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	Energy adjustment		66%-100%		50%-75%-100%	
Cap. & Watt	Te	(KW) Cap	39.4	54.7	71.7	96.1
		(KW) Input	29.2	39.2	50.6	66.6
	-20°C	(KW) Cap.	31.4	43.6	57.1	76.6
		(KW) Input	27.5	36.9	47	62.3
	Te	(KW) Cap.	24.5	34.1	44.6	59.9
		(KW) Input	25.8	34.5	44	58.4
connector	Liquid dia. (mm)		φ54	φ54	φ67	φ76
	Gas out dia. (mm)		φ22	φ22	φ28	φ28
	Discharge (mm)		φ42	φ42	φ42	φ54
	Liquid in (mm)		φ28	φ28	φ35	φ35
overall	A (mm)		1900	1900	2200	2200
	B(mm)		1400	1400	1400	1450
	C(mm)		1200	1200	1200	1350

Model			HLGF-70LHGKA	HLGF-80LHGKA	HLGF-90LHGKA	HLGF-100LHGKA
Temperature(°C)/Refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	Energy adjustment		50%-75%-100%			
Cap. & Watt	Te	(KW) Cap	103.2	128.7	143.3	154.3
		(KW) Input	72.8	87.5	95.3	103.4
	-20°C	(KW) Cap.	82.2	102.6	114.2	123
		(KW) Input	67.7	82.4	90.5	98.1
	Te	(KW) Cap.	64.3	80.2	89.3	96.2
		(KW) Input	63.4	77.2	84.7	91.7
connector	Liquid dia. (mm)		φ76	φ76	φ108	φ108
	Gas out dia. (mm)		φ28	φ35	φ35	φ35
	Discharge (mm)		φ54	φ54	φ67	φ67
	Liquid in (mm)		φ35	φ42	φ42	φ42
Overall size	A(mm)		2200	2600	2600	2600
	B(mm)		1450	1500	1550	1550
	C(mm)		1350	1400	1450	1450

Remarks: Cooling capacity and input power under condensing temp. at 45°C; Working with economizer

Model			HLGF2-60LHGKA	HLGF2-80LHGKA	HLGF2-100LHGKA	HLGF2-120LHGKA
Temperature(°C)/Refrigerant			-15~-20°C/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		2	2	2	2
Energy adjustment			33%-50%-66%-100%			25%-50%-75%-100%
Cap. & Watt	Te -20°C	(KW) Cap	78.8	109.4	143.4	192.2
		(KW) Input	58.4	78.4	101.2	133.2
	Te -25°C	(KW) Cap.	62.8	87.2	114.2	153.2
		(KW) Input	55	73.8	94	124.6
	Te -30°C	(KW) Cap.	49	68.2	89.2	119.8
		(KW) Input	51.6	69	88	116.8
connector	Liquid dia. (mm)		φ76steel pipe	φ89 steel pipe	φ108	φ108
	Gas out dia. (mm)		φ35	φ35	φ42	φ42
	Discharge (mm)		φ54	φ54	φ76	φ76
	Liquid in (mm)		φ42	φ42	φ54	φ54
Overall szie A×B×C(mm)			2950×1700×1750	2950×1700×1750	3000×1700×1950	3350×1700×2000

Model			HLGF2-140LHGKA	HLGF2-160LHGKA	HLGF2-180LHGKA	HLGF2-200LHGKA
Temperature(℃)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		2	2	2	2
Energy adjustment			25%-50%-75%-100%			
Cap. & Watt	Te -20℃	(KW) Cap	206.4	257.4	286.6	308.6
		(KW) Input	145.6	175	190.6	206.8
	Te -25℃	(KW) Cap.	164.4	205.2	228.4	246
		(KW) Input	135.4	164.8	181	196.2
	Te -30℃	(KW) Cap.	128.6	160.4	178.6	192.4
		(KW) Input	126.8	154.4	169.4	183.4
connector	Liquid dia. (mm)		φ108	φ108	φ133	φ133
	Gas out dia. (mm)		φ42	φ54	φ54	φ54
	Discharge (mm)		φ76	φ76	φ108	φ108
	Liquid in (mm)		φ54	φ67	φ67	φ67
Overall size A×B×C(mm)			3350×1700×2000	3450×2000×2150	3650×2100×2300	3650×2100×2300

Remarks: Cooling capacity and input power under condensing temp. at 45°C; Working with economizer

Model			HLGF3-90LHGKA	HLGF3-120LHGKA	HLGF3-150LHGKA	HLGF3-180LHGKA
Temperature(℃)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-100B	RC2-140B	RC2-180B	RC2-230B
	qty		3	3	3	3
Energy adjustment			33%-66%-100%			16%-33%-50%-66%-83 %-100%
Cap. & Watt	Te -20℃	(KW) Cap	118.2	164.1	215.1	288.3
		(KW) Input	87.6	117.6	151.8	199.8
	Te -25℃	(KW) Cap.	94.2	130.8	171.3	229.8
		(KW) Input	82.5	110.7	141	186.9
	Te -30℃	(KW) Cap.	73.5	102.3	133.8	179.7
		(KW) Input	77.4	103.5	132	175.2
connector	Liquid dia. (mm)		2×φ76 Steel pipe	2×φ76 Steel pipe	2×φ89 Steel pipe	2×φ108 Steel pipe
	Gas out dia. (mm)		φ35	φ42	φ42	φ54
	Discharge (mm)		φ76	φ76	φ76	φ108
	Liquid in (mm)		φ42	φ54	φ54	φ67
Overall szieA×B×C(mm)			3550×1700×1950	3550×1700×1950	3800×1800×1950	4350×2050×2330

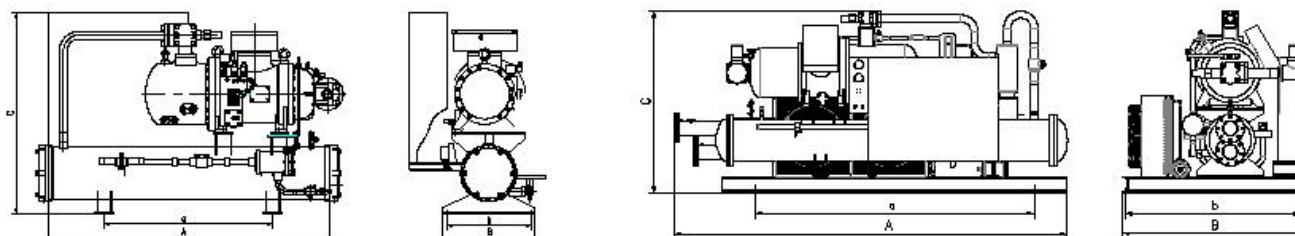
Model			HLGF3-210LHGKA	HLGF3-240LHGKA	HLGF3-270LHGKA	HLGF3-300LHGKA
Temperature(℃)/Refrigerant			-15~-20℃/R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		Semi-Hermetic Screw			
	Model		RC2-260B	RC2-310B	RC2-340B	RC2-370B
	qty		3	3	3	3
Energy adjustment			16%-33%-50%-66%-83%-100%			
Cap. & Watt	Te -20℃	(KW) Cap	309.6	386.1	429.9	462.9
		(KW) Input	218.4	262.5	285.9	310.2
	Te -25℃	(KW) Cap.	246.6	307.8	342.6	369
		(KW) Input	203.1	247.2	271.5	294.3
	Te -30℃	(KW) Cap.	192.9	240.6	267.9	288.6
		(KW) Input	190.2	231.6	254.1	275.1
connector	Liquid dia. (mm)		2×φ108	2×φ108	2×φ133	2×φ133
	Gas out dia. (mm)		φ54	φ67	φ67	φ67
	Discharge (mm)		φ108	φ108	φ108	φ108
	Liquid in (mm)		φ67	φ76	φ76	φ76
Overall szie A×B×C(mm)			4350×2050×2330	4350×2050×2350	4650×2100×2350	4650×2100×2350

Remarks: Cooling capacity and input power under condensing temp. at 45°C; Working with economizer

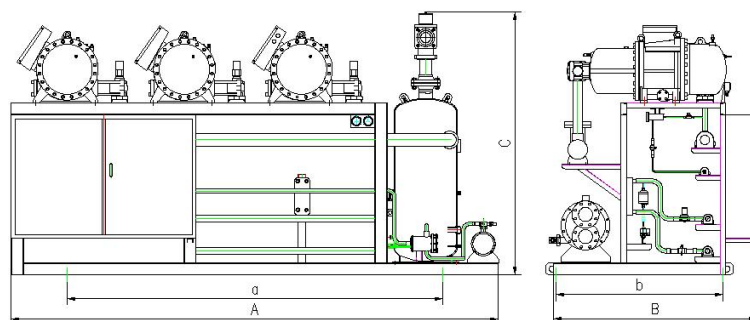
五、Diagrams for Overall sizes

1) HLGS × × MH with single compressor :

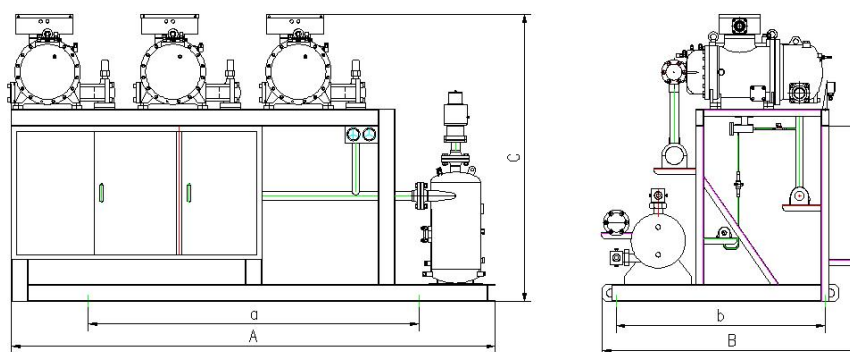
2) HLGS × × LH with single compressor :



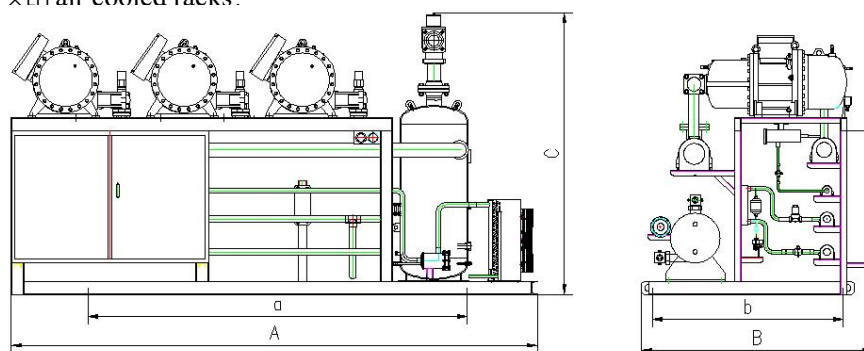
1) HLGS × - × × H water cooled racks:



4) HLG F (Z) × - × × MH air cooled racks:



5) HLG F (Z) × - × × LH air cooled racks:



HLG-F Series 2 stage Screw Compressor racks

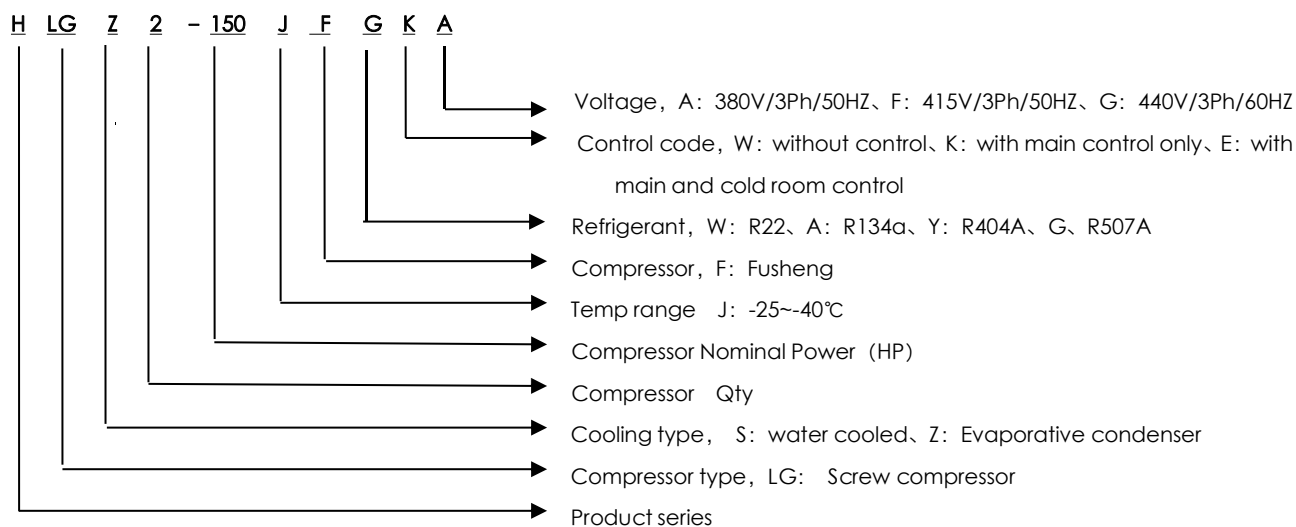
一、Product description:

This HLG-F series products features 2 stage screw compressors, are applicable to fast freezing tunnel and fast freezing cold rooms.

This Series features

- ◆ 2 stage screw compressors, resulted a high efficiency, low vibration, and high reliability.
- ◆ Compared with the single stage compressor, the EER is higher by 50%.
- ◆ It can work at the lowest evaporation temperature, for R22 at -60℃, for R404a at -65℃.
- ◆ All this series products have a complete set protection devices for Over heating, over loading, wrong phase sequency, oil and high/low pressure etc.
- ◆ By PLC controller, to adjust capacity according to cooling capacity required for energy saving.

二、Model code:



三、Main components:

- | | | | | |
|------------------------------|-----------------|-----------------------------------|-----------------|------------------------------------|
| ●Two-stage screw Compressor. | ●Oil separator | ●Oil pump(only for parallel unit) | ●Oil cooler | ●Condenser(only for water-cooling) |
| ●Receiver | ●Filter vat | ●Sight glasses | ●intercooler | ●Liquid valve |
| ●Gas separator | ●Suction Filter | ●High-low pressure protector | ●Pressure gauge | ●Unit control box(PLC) |

(Condenser is optional for evaporative condenser)

4. Specifications:

4.1 Water cooled Condensing Units: Refrigerant R507A:

Model		HLGS-50JFGKA	HLGS-75JFGKA	HLGS-100JFGKA	HLGS2-100JFGKA
Evaporating Temperature(℃)		-30~-65℃			
Refrigerant		R507A			
Power supply		380V/3Ph/50HZ			
Comp.	Type	semi-hermetic 2-stage screw			
	Comp. Model	SDL220E	SDL330E	SDL450E	SDL220E
	Qty.	1	1	1	2
Condenser	Type	Shell & Copper Tube			
	Nominal water rate (m³/h)	33	46	62	63
	Condenser connector size	Rp3	DN80	DN80	DN100
	Oil cooler connector size	Rp1-1/2	Rp1-1/2	Rp1-1/2	Rp1-1/2
Cap. & Watt	Te -30℃	Cap. (KW)	87.8	127.8	173.5
		Input (KW)	49	71.1	96.4
	Te -42℃	Cap. (KW)	54.4	79.2	107.4
		Input (KW)	37.7	54.9	74.5
	Te -45℃	Cap. (KW)	47.7	69.5	94.3
		Input (KW)	35.3	51.4	69.8
	Te -50℃	Cap. (KW)	38	55.3	75
		Input (KW)	31.8	46.2	62.7
n	Liquid dia.(mm)	φ67copper tube	φ76copper tube	DN100	DN100
	Gas out dia.(mm)	φ28	φ35	φ42	φ42
Overall size (L×W×H)		2100×1200×1650	2100×1200×1900	2600×1200×1900	3100×2100×2200

Model			HLGS2-150JFGKA	HLGS2-200JFGKA	HLGS3-225JFGKA	HLGS3-300JFGKA
Evaporating Temperature(℃)			-30~-65℃			
Refrigerant			R507A			
Power supply			380V/3Ph/50HZ			
Comp.	Type		semi-hermetic 2-stage screw			
	Comp. Model		SDL330E	SDL450E	SDL330E	SDL450E
	Qty.		2	2	3	3
Condenser	Type		Shell & Copper Tube			
	Nominal water rate (m³/h)		94	124	136	184
	Condenser connector size		DN125	DN125	DN150	DN150
	Oil cooler connector size		Rp2-1/2	Rp2-1/2	Rp2-1/2	Rp2-1/2
Cap. & Watt	Te -30℃	Cap. (KW)	255.6	347	383.4	520.5
		Input (KW)	142.2	192.8	213.3	289.2
	Te -42℃	Cap. (KW)	158.4	214.8	237.6	322.2
		Input (KW)	109.8	149	164.7	223.5
	Te -45℃	Cap. (KW)	139	188.6	208.5	282.9
		Input (KW)	102.8	139.6	154.2	209.4
	Te -50℃	Cap. (KW)	110.6	150	165.9	225
		Input (KW)	92.4	125.4	138.6	188.1
n con	Liquid dia.(mm)		DN125	DN125	DN100×2	DN125×2
	Gas out dia.(mm)		φ54	φ54	φ67	φ67
Overall size (A×B×C)			3100×2100×2200	3400×2100×2200	4200×2100×2200	4200×2100×2200

Remark: 1) Cooling capacity and input power under condensing temp. at 40°C 2) Rated water flow including water for oiler cooler.

4.2. Evaporative Condensing Units:: Refrigerant R507A:

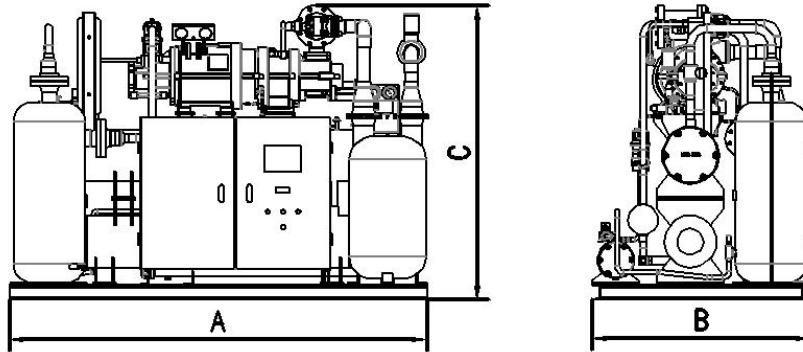
Model			HLGZ-50JFGKA	HLGZ-75JFGKA	HLGZ-100JFGKA	HLGZ2-100JFGKA
Evaporating. Temperature(℃)			-30~-65℃			
Refrigerant			R507A			
Power supply			380V/3Ph/50HZ			
Comp	Type		semi-hermetic 2-stage screw			
	Comp. Model		SDL220E	SDL330E	SDL450E	SDL220E
	Qty.		1	1	1	2
Cap. & Watt	Te -30℃	Cap. (KW)	89.5	130.1	176.6	179
		Input (KW)	44.5	64.8	87.9	89
	Te -42℃	Cap. (KW)	55.3	80.5	109.2	110.6
		Input (KW)	35	50.9	69.1	70
	Te -45℃	Cap. (KW)	48.5	70.6	95.8	97
		Input (KW)	32.9	47.9	65	65.8
	Te -50℃	Cap. (KW)	38.6	56.2	76.2	77.2
		Input (KW)	29.9	43.5	59	59.8
connect or	Liquid dia. (mm)		φ67copper tube	φ76copper tube	DN100	DN100
	Gas out dia. (mm)		φ28	φ35	φ42	φ42
	Discharge (mm)		φ54copper tube	φ67copper tube	φ76copper tube	φ76copper tube
	Liquid in (mm)		φ35	φ42	φ54	φ54
Overall size (A×B×C)			2100×1200×1650	2100×1200×1900	2600×1200×1900	3100×2100×2200

Model			HLGZ2-150JFGKA	HLGZ2-200JFGKA	HLGZ3-225JFGKA	HLGZ3-300JFGKA
Evaporating. Temperature(°C)			-30~-65℃			
Refrigerant			R507A			
Power supply			380V/3Ph/50HZ			
Comp	Type		semi-hermetic 2-stage screw			
	Comp. Model		SDL330E	SDL450E	SDL330E	SDL450E
	Qty.		2	2	3	3
Cap. & Watt	Te -30℃	Cap. (KW)	260.2	353.2	390.3	529.8
		Input (KW)	129.6	175.8	194.4	263.7
	Te -42℃	Cap. (KW)	161	218.4	241.5	327.6
		Input (KW)	101.8	138.2	152.7	207.3
	Te -45℃	Cap. (KW)	141.2	191.6	211.8	287.4
		Input (KW)	95.8	130	143.7	195
	Te -50℃	Cap. (KW)	112.4	152.4	168.6	228.6
		Input (KW)	87	118	130.5	177
or connect	Liquid dia. (mm)		DN125	DN125	DN100×2	DN125×2
	Gas out dia. (mm)		φ54	φ54	φ67	φ67
	Discharge (mm)		DN100	DN100	DN100	DN125
	Liquid in (mm)		φ67	φ67	φ76	φ76
Overall size (A×B×C)			3100×2100×2200	3400×2100×2200	4200×2100×2200	4200×2100×2200

Remark: Cooling capacity under condensing temp. at 35°C

5、Diagrams for Overall sizes:

1) Single compressor racks:



2) Multi Compressor Racks:

