ZENIYA
振亚空调 一 清新海风的享受

江苏振亚制冷空调设备有限公司
JIANGSU ZENIYA REFRIGERATION & AIR CONDITIONING EQUIPMENT CO., LTD.

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ZMRK Parallel Compressor Condensing Unit
并联压缩冷凝机组

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ZMRK 并联压缩冷凝机组概述

Rack description

振亚制冷空调设备有限公司自 2005 年创立至今，一直以发展高品质、新技术的制冷与空调设备为己任，这些年来我们开发出了各种型式的并联压缩冷凝机组：

- 小型并联机组以谷轮中低温型柔性涡旋为代表；
- 中型并联机组以比泽尔、谷轮半封闭活塞式压缩机为代表；
- 大型并联机组以比泽尔、神户制钢半封闭螺杆压缩机为代表；

辅助各种最新节能技术、低温喷气增焓技术、热气化霜技术、无级调节和变频技术和热回收技术。

Zeniya Refrigeration&Air conditioning equipment Co.,Ltd, established in 2005, is concerned on developing high-quality、newly-designed refrigeration and air conditioning equipment.Over this years, we have developed all types of Rack as below:

- Small Rack applies Copeland middle&low temperature flexible Scroll compressor;
- Middle Rack applies Bitzer、Copeland semi-hermetic reciprocating compressor;
- Large Rack applies Bitzer、Kobe Steel semi-hermetic screw compressor;

Adopt all kinds of latest energy conservation technology、low-temperature enhanced vapor injection technology、hot gas defrosting technology、stepless regulation and Frequency conversion technology and heat recycling technology.

并联压缩冷凝机组特点 Features

● 操作维护方便：

并联压缩冷凝机组上各主要零、部间件间均配置了隔离球阀，为设备的检修提供了方便。部分零件的检修可实现不停车检修，降低了设备的故障停机率，设备利用率的提高将为客户提供更多的价值；

并联压缩冷凝机组各支路供液与回汽管路均集中、有序的排列在机组上，方便了维护人员的操作与管理；

● 节能高效：

在同等冷量下，单机组的压缩机电机功率配置相对较大，因而其起动电流较大，最大电流可为 6-7 倍额定电流，对变压器容量要求增大，配电投资费用增大，而采用并联机组后，单台压缩机的功率可成倍缩小，起动电流大大减少，从而减少了投资，节约了能源；

并联压缩冷凝机组，采用了多机头并联＋卸载能调方案，可以根据冷库和速冻间的入货量多少及库温的变化得到最佳的能量调节，使蒸发压力渐驱平稳，实现了负载的匹配，达到了节能的效果；

并联压缩冷凝机组通过能调组合，不但提高了品质 ,而且提高制冷压缩机的最大的制冷效率。最大限度的降低电耗 ,节约了运行成本。综合比较，并联机组比单机机组要节电 30~50%。

并联压缩冷凝机组可配比不等大小的压缩机，提供更多的调节级数，冷量输出可以更加平滑的与实际热负荷实现动态匹配；

并联压缩冷凝机组提供多吸气支路控制，一台机组可提供多蒸发温度的配置，可同时为大型超市冷柜、冷库、船舶冷藏、冷冻提供高效冷源；

● 温度精准：

并联压缩冷凝机组由微电脑控制，实时匹配动态负载，明显降低蒸发压力波动；

并联压缩冷凝机组自动蒸发压力调节装置，精确控制冷柜、冷库温度；

● Convenient maintenance:

There are ball valves installed in components of Rack, which brings convenience to inspection of the unit.Some components can be inspected during the running of unit, reducing the probability of broken on equipment,thus give forth to more value for our customers;

All Liquid branch tube and air return tube of Rack are installed on unit intensively and orderly contributes to the convenience for operation and maintenance;

● High-efficient energy conservation:

Under the same cooling capacity,motor power of single unit is higher than common one, therefore,the max.starting current will be 6-7 times higher than rated current,never the less,it put more pressure on capacity of compressor and result in more cost in power distribution investment.

Rack is equipped with multi-head paralleled+unload energy regulation,the optimal energy regulation can be reached according to storage amount of refrigeration room and freezer room,letting evap. pressure reach balance gradually,then the matching of load will be achieved and energy conservation will be got;

Rack is equipped with energy regulation, which not only improved the quality but also reached the perfect cooling efficiency.The energy consumption has been reduced as much as possible,giving forth to low cost totally. To sum up,Rack will be more energy-conserved than single unit of 30~50%.

Racks can be matched up with compressor regardless of their dimensions for providing more regulation step number,cooling capacity output will be matched up with actual heat load more smoothly and dynamically;

Rack owns controlling of multi air suction branch tube,one unit can provide different evap. Temperature configuration,which may offer high-efficient cooling source for refrigerator、freezer、ship refrigeration in supermarket;

● Accurate temperature:

Rack is controlled by microcomputer, being match up with actual dynamic load and reducing vibration of evap. pressure obviously;

并联涡旋式制冷压缩机组特点 | Features of Scroll Rack refrigeration compressor

涡旋的主要特点：更高的能效比，涡旋机属于回转式压缩机，虽同样存在余隙容积，但远小于往复机；

涡旋机采用双柔性设计，确保涡旋盘间的密封，允许涡旋盘沿径向和轴向分开，具有更高的寿命和可靠性 、更好的液体容忍度、更好的杂质容忍度；

涡旋压缩机永远是对称分布，很低的不平衡应力，更低的噪音和振动水平，平滑的声音频谱和柔和的声音质量；

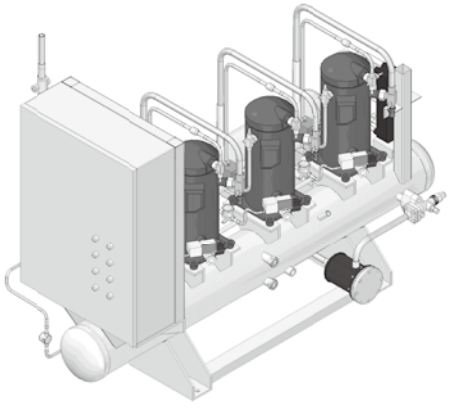
带 EVI 喷气增焓的 ZF 系列涡旋并联机组：显现了低温工况下的卓越性；机组低温可靠性增强；机组能效比增大；解决了吸气过热引起的系统频繁热保护及排气温度过高而引起的涡旋盘的损坏问题。

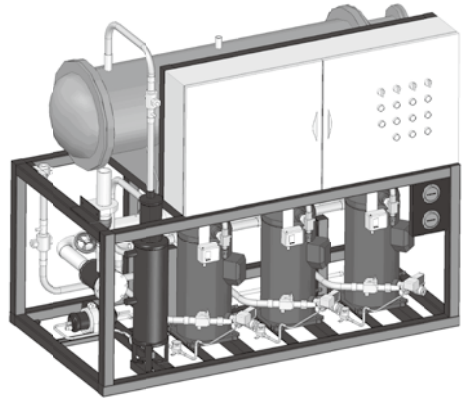
Main features of Scroll:it has higher energy efficiency ratio,the Scroll one belongs to rotation compressor which also exists some remained space that is far lower than reciprocate one;

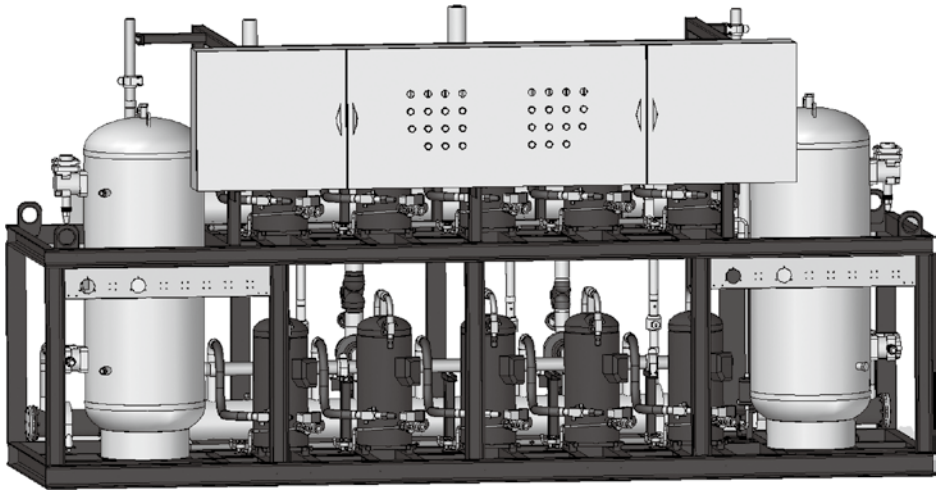
The Scroll one adopts double flexible design for keeping seal between scroll plate and allowing Scroll plate divided in radial direction and axial direction, it owns longer life and higher reliability、better liquid acceptance level and impurity acceptance level;

The Scroll one is always arranged in symmetry,which results in lower unbalance stress、lower noise and vibration level、smooth voice spectrum and gentle voice quality;

ZF series Scroll Rack with enhanced vapor injection (EVI) :show the outstanding character under low-temperature working condition;the low-temperature reliability turns stronger;energy efficiency ratio becomes higher;resolved the problem as frequent heat protection of system on account of air suction overheating and broken of Scroll plate due to Discharge over-temperature;







并联活塞式制冷压缩机组特点 Features of Reciprocating Rack

多个蒸发温度的并联活塞机组，配置了蒸发压力调节阀，满足多种蒸发温度的需求； 不同的蒸发温度集成到一个机架上节省了现场的安装空间；

可将热回收系统整合到并联机中，回收部分热量用于日常生活用水，充分利用了能源；

独特的汽液分离，与多支路集中式回汽的完美结合，确保了回油的顺畅；

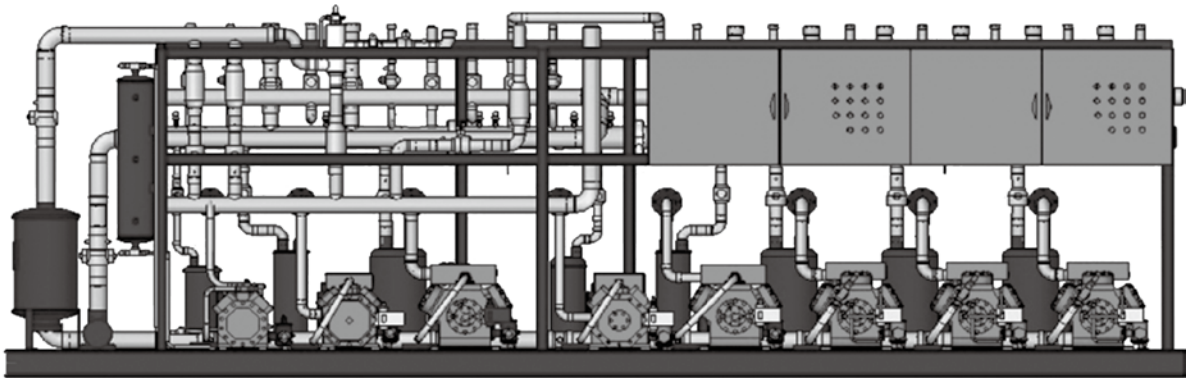
多台压缩机的组合，使机组的能量调节趋于平滑、波动较小；

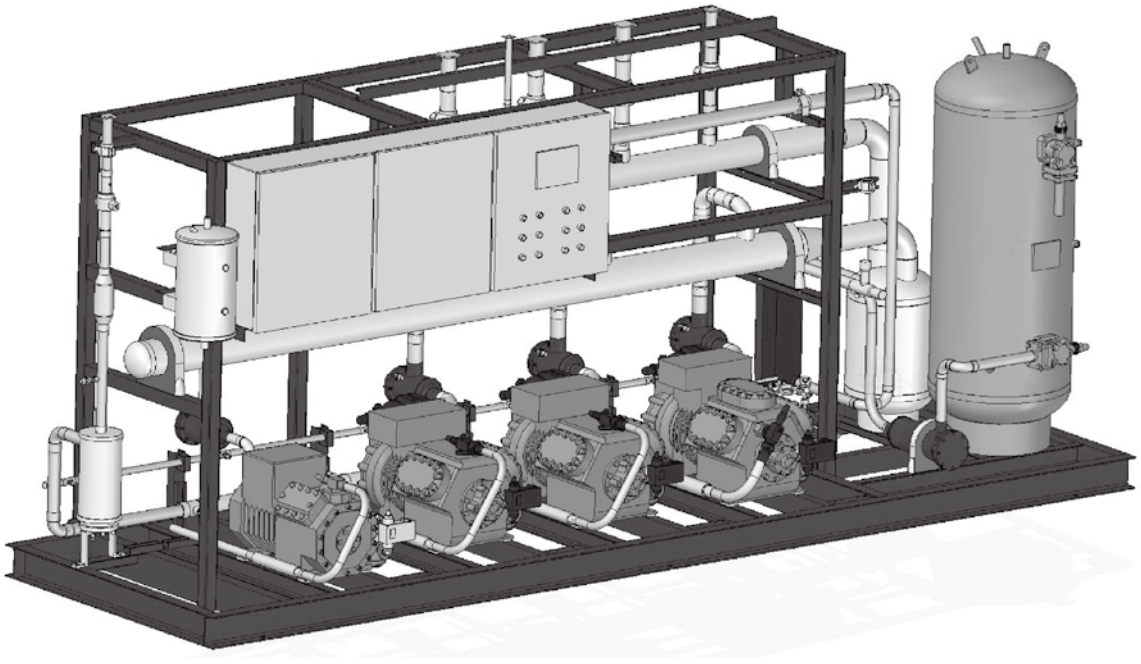
Reciprocating Rack with many evap. temperature is equipped with evap. pressure regulation valve, which can meet different requirements for evap. temperature;all evap temperatures are integrated into one frame and saved the installation space at field;

It can combine heat recycling system into Rack, little part of recycled heat may also be used in water for daily use,which made full use of energy;

Unique liquid and gas separation bonded with multi-branch integrated gas return totally,ensured smoothness of oil returning;

Combination of multiple compressor makes energy regulation of unit smoother and vibration lower;





并联螺杆式制冷压缩机组特点 Features of Screw Rack

螺杆机同属于回转式压缩机，其余隙容积远小于往复机，结构简单、能效比高、排量大、震动小；区别于往复式压缩机的是：无余隙容积的膨胀过程、无吸气阀片带来的进气阻力损失，因而其高容积效率，带来了高能效比；配有滑阀能调机构，可实现多现能量调节或无级能量调节。

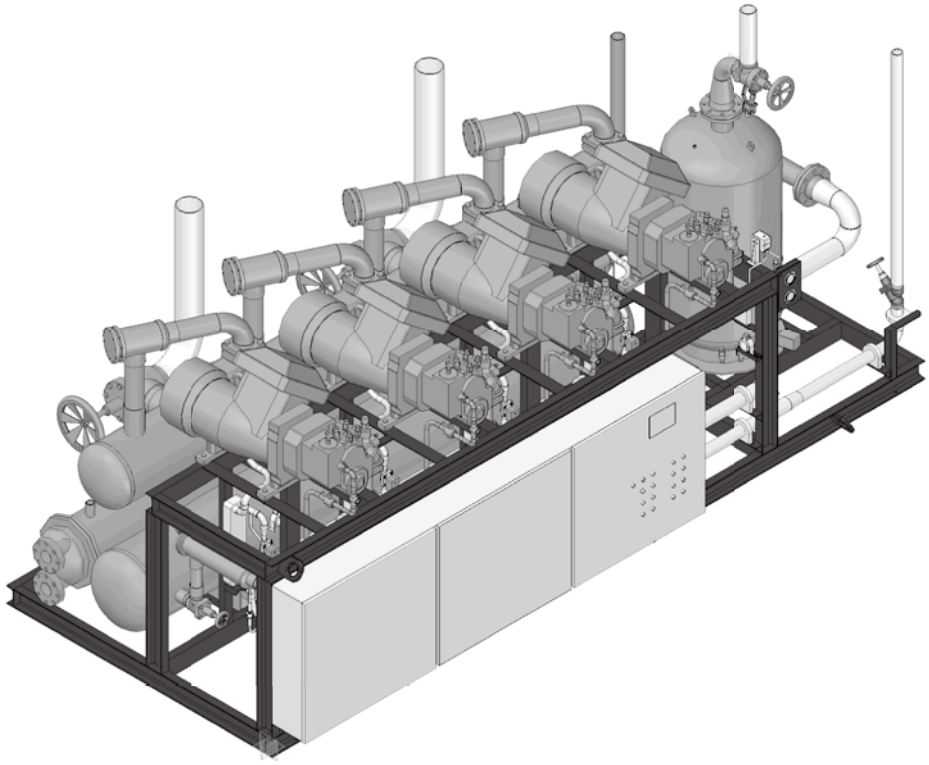
The screw one belongs to rotated compressor whose remained volume is smaller than the reciprocated one,it has simple structure、high energy efficiency ratio、large discharge capacity、low vibration;In contrast to the reciprocated compressor,it has no expansion procedure for remained volume、no air inlet resistance resulted from air inlet valve plate,which brings high energy efficiency ratio on account of its high volume efficiency;It is also fitted with sliding valve energy regulation structure,multiple energy regulation and stepless energy regulation can be achieved easily;

采用蒸发式冷凝器、水冷油冷却器的并联低温螺杆机组

Paralleled low temperature screw unit adopts evaporating condenser、water–cooled oil cooler

配置了一对一的高效 ECO 板式换热器，冷量分配更均衡，多支路共用供液与回气集管，结构紧凑、美观；采用 PLC 控制，温度控制精确；压缩机匀时运行、能量调节平稳。

It is fitted one-to-one high-efficient ECO plate heat exchanger, distribution of cooling capacity becomes more balanced,Liquid and gas return integrated tube are make use of by multiple branches,bringing up its compact structure and beautiful outlook;It has accurate temperature controlling due to PLC;It runs in even time and has stable energy regulation.

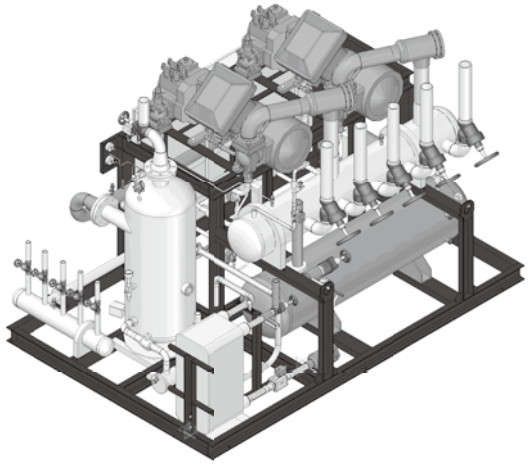


采用蒸发式冷凝器、热虹吸油冷却器的并联低温螺杆机组

Paralleled low temperature screw unit adopting evap. condenser、thermal siPhon oil cooler

配置了进口品牌的高效低阻油冷板换热器；虹吸式油冷却，油的用量较少，降低了初投资费用，减少了运行成本。

It is equipped with high-efficiency low oil resistance cooling plate heat exchanger from abroad;thermal siPhon cooling brings low consumption of oil and reduced origin investment expense and running cost.



采用水冷式冷凝器与水冷式油冷却器的并联低温螺杆机组

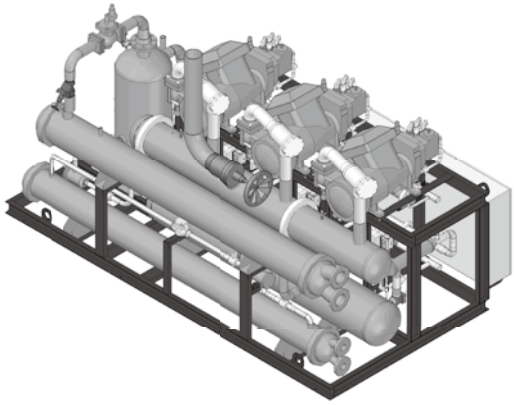
low temperature screw Rack adopting water–cooled condenser and oil cooler

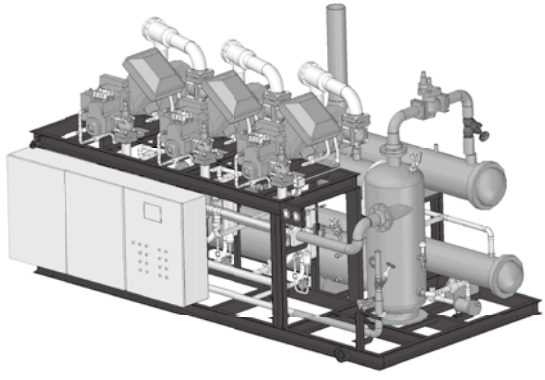
水冷系统其换热系数高，传热面积小，节约了空间，节省了费用；

配置了排气压力调节阀，确保了冬季冷凝压力低下时，机组的正常缩运行；

配置了油温混合阀，确保了回油的温度的衡定，对压缩机的润滑、冷却、密封提供了可靠的保障；使压缩机的输气系数更加的稳定、系统运行更加平稳。

Water cooling owns high heat-exchanging coefficient、small heat-transfer space,which reduced the whole space and cost;
It is equipped with air exhausting pressure regulation valve for ensuring low condensing pressure and regular running of unit in winter;
It is also fitted with oil temperature mixing valve, which guaranteed stability of oil return temperature and lubrication、cooling、sealing of compressor; makes the volumetric efficiency more stable and the system runs more steady.





带热气化霜的水冷式并联低温螺杆机组

Water–cooled low–temperature screw unit adopting hot gas defrosting

采用水冷系统，省去大量的排气与回液管线的压力管道的施工，节约了成本，确保了系统的清洁度；

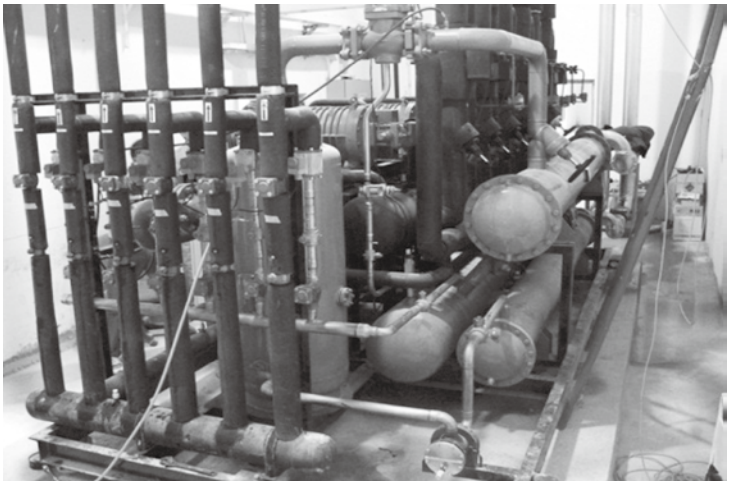
集中控制系统保证机组化霜时也能正常制冷运行；

四管制的化霜设计，完美的组合在制冷机组之中；

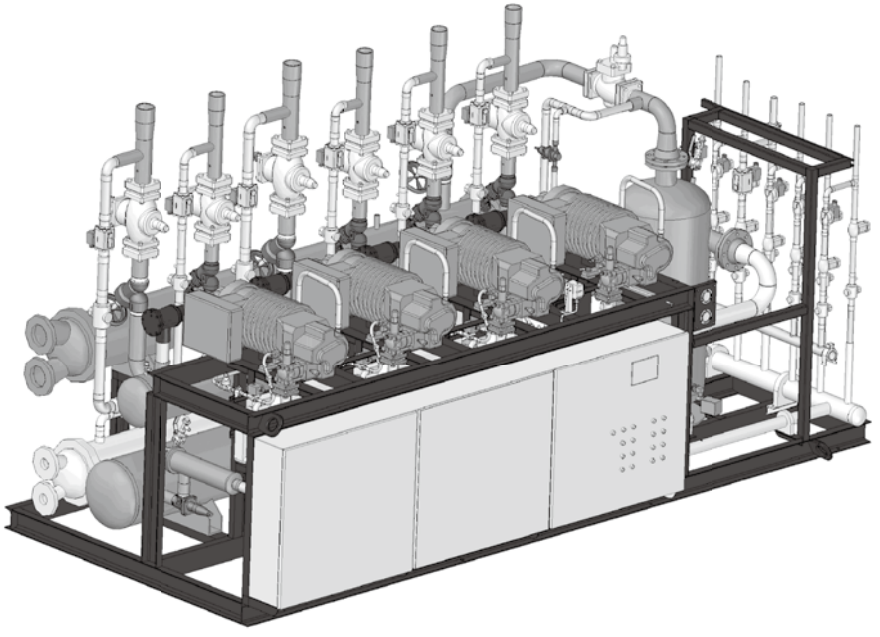
供液与化霜回液共用管线、回气与化霜热气管线共用，大大的节约了工程投资费用；

化霜回液直接进储液器，省去了化霜回液桶的投资；

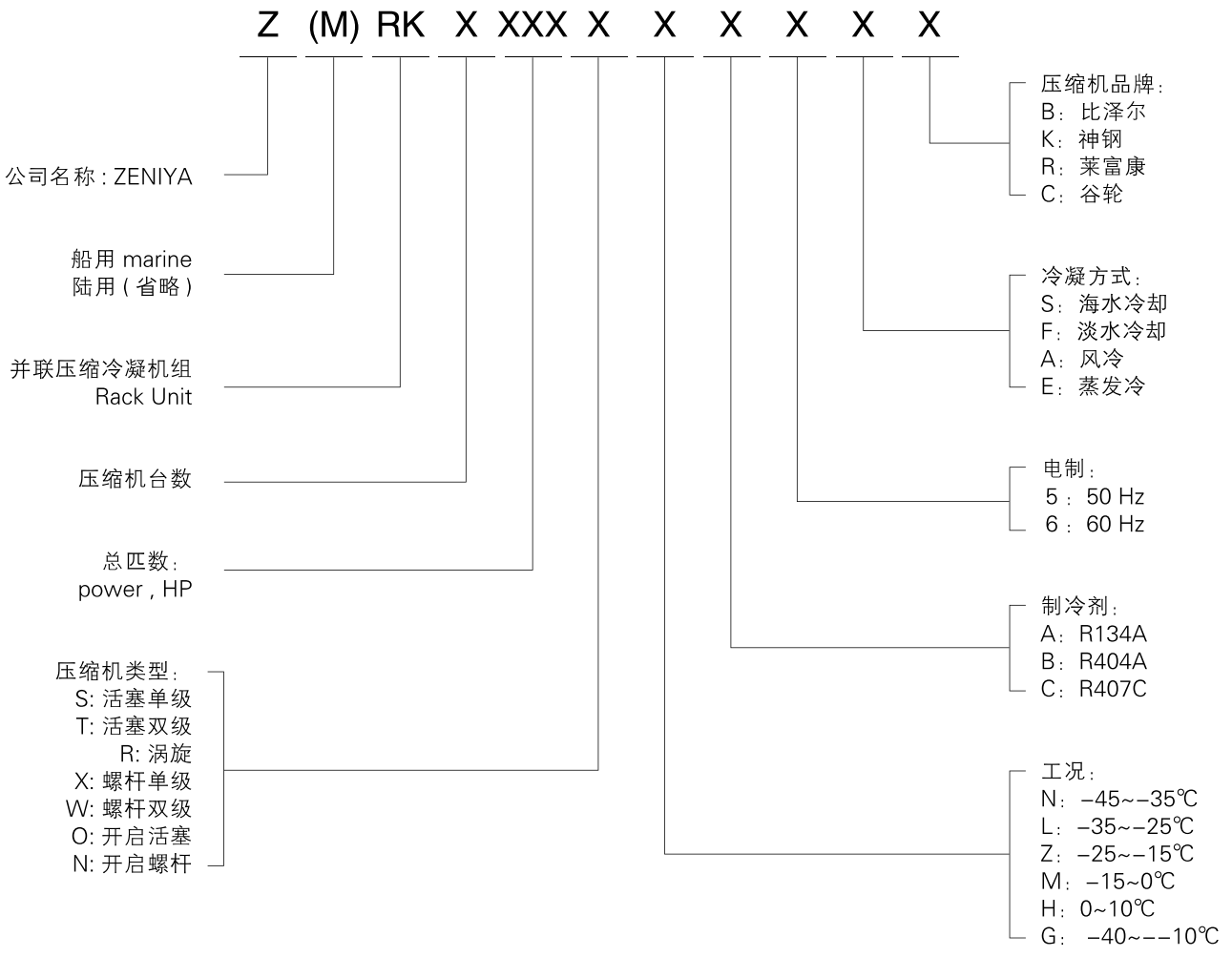
科学的系统设计，确保了化霜期的蒸发压力与供液压力波动较小。



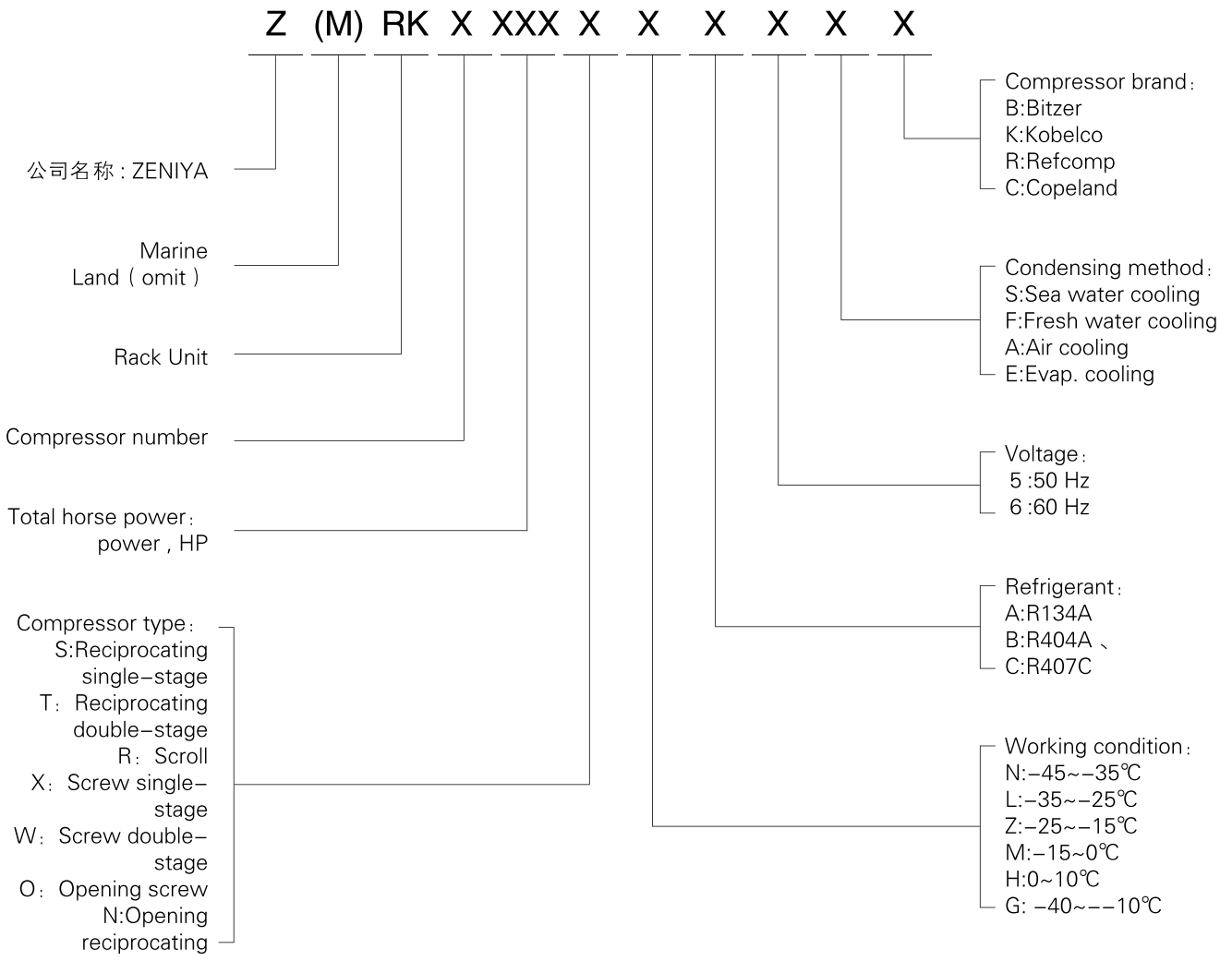
It adopts water cooling system,some installation of Discharge and liquid return pressure tube has been eliminated, then the cost will be naturally reduced and the the cleanliness can be guaranteed at the same time;
Integrated controlling of system can make the regulate running of unit during defrosting period;
The design of four-tubes is combined to refrigeration unit perfectly;
Liquid and defrosting liquid return own one pipe,while air return and defrosting hot gas use the same pipe,which largely saved engineering investment cost;
Defrosting liquid return will flow into reservoir directly,then the extra cost of defrosting liquid returning barrel;
Scientific system design ensured evap. pressure and low vibration of Liquid during defrosting period.



并联压缩机组型号命名 | Name of Rack



例 :ZRK4160SL B5SFB 振亚 (船用) 并联压缩冷凝机组: 4 台 共 160HP 活塞单级压缩机 , 工况 –35~–25℃ , 制冷剂 R404B, 50 Hz, 淡水冷却，比泽尔压缩机。



Eg: ZRK4160SL B5SFB Zeniya(marine) Rack:4 sets Reciprocating single–stage compressor ,working condition –35~–25℃ ,refrigerant R404B,50 Hz,fresh water cooling,Bitzer compressor.

中温涡旋并联机组制冷量表 Middle temp.Scroll Rack Performance Data

制冷剂 R404A，冷凝温度 +45℃，冷量及输入功率单位为 Kw
Refrigerant R404A，Cond.Temp.+45℃，Cap.&Power Input in kw

机组型号 Rack Model	蒸发 Evap.–15℃		蒸发 Evap.–12℃		蒸发 Evap.–10℃		蒸发 Evap.–8℃		蒸发 Evap.–5℃		蒸发 Evap.0℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZRK2018–RMB	23.6	14.0	26.8	14.1	29.1	14.1	31.5	14.1	35.5	14.2	43.0	14.3
ZRK2022–RMB	27.8	16.5	31.4	16.5	34.0	16.6	36.8	16.6	40.4	17.0	50.2	17.2
ZRK3027–RMB	35.4	21.1	40.2	21.1	43.7	21.2	47.3	21.2	53.3	21.3	64.5	21.4
ZRK3033–RMB	41.7	24.7	47.1	24.8	51.0	24.8	55.2	24.9	60.6	25.6	75.3	25.8
ZRK4036–RMB	47.2	28.1	53.6	28.2	58.2	28.2	63.0	28.3	71.0	28.4	86.0	28.6
ZRK4044–RMB	55.6	32.9	62.8	33.0	68.0	33.1	73.6	33.2	80.8	34.1	100.4	34.4

低温涡旋并联机组制冷量表 Low temp. Scroll Rack Performance Data

制冷剂 R404A，冷凝温度 +45℃，冷量及输入功率单位为 Kw
Refrigerant R404A，Cond.Temp.+45℃，Cap.&Power Input in kw

机组型号 Rack Model	蒸发 Evap.–40℃		蒸发 Evap.–35℃		蒸发 Evap.–30℃		蒸发 Evap.–28℃		蒸发 Evap.–25℃		蒸发 Evap.–20℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZRK2010–RLB	4.2	5.9	5.5	6.2	7.0	6.5	7.7	6.6	8.8	6.8	11.0	7.1
ZRK2012–RLB	5.2	7.3	6.8	7.5	8.6	7.8	9.4	7.9	10.7	8.0	13.3	8.3
ZRK3015–RLB	6.4	8.9	8.3	9.3	10.5	9.8	11.6	9.9	13.3	10.2	16.5	10.6
ZRK3018–RLB	7.9	11.0	10.1	11.3	12.8	11.6	14.1	11.8	16.1	12.0	20.0	12.5
ZRK4020–RLB	8.5	11.8	11.0	12.4	14.0	13.0	15.4	13.2	17.7	13.6	22.0	14.2
ZRK4024–RLB	10.5	14.6	13.5	15.0	17.1	15.5	18.8	15.7	21.5	16.0	26.7	16.6

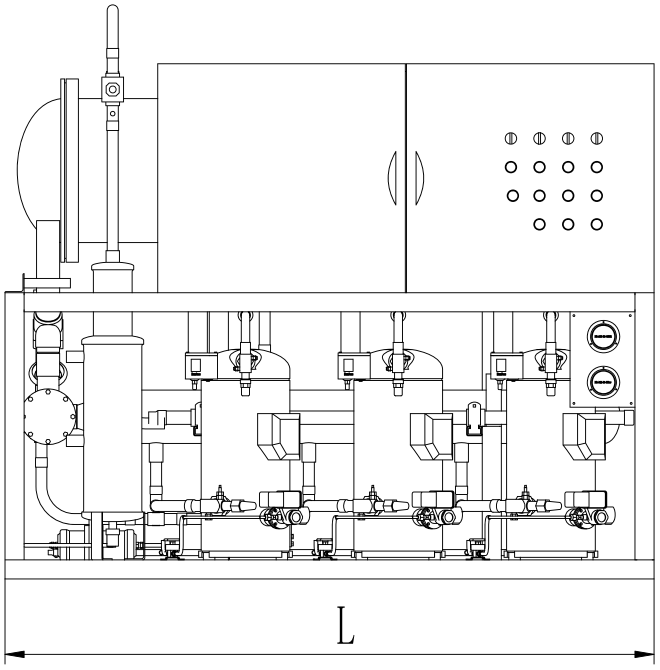
中温涡旋并联机组参数表
Middle temp. Scroll Rack Technical Data

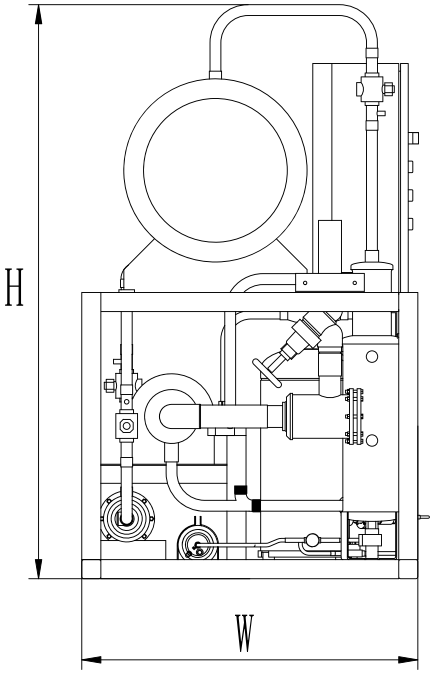
机组型号 Rack Model	压缩机匹数 Compressor Power HP	台数 Set	机组对外管路 (英寸) Pipings(inch)			外形尺寸 (mm) Dimension(mm)			重量 Weight	最小工作电流 (A) Min.Working Current	最大保护电流 (A) Max.Working Current
			排气 Discharge	供液 Liquid	吸气 suction	长 Length	宽 Width	高 Height	Kg		
ZRK2018-RMB	9	2	1-1/8	7/8	1-5/8	1100	1000	1400	280	35	48
ZRK2022-RMB	11	2	1-1/8	7/8	1-5/8	1100	1000	1400	290	39	54
ZRK3027-RMB	9	3	1-3/8	1-1/8	2-1/8	1550	1000	1400	375	48	61
ZRK3033-RMB	11	3	1-3/8	1-1/8	2-1/8	1550	1000	1400	390	54	70
ZRK4036-RMB	9	4	1-5/8	1-1/8	2-1/8	2000	1000	1400	490	61	75
ZRK4044-CMY	11	4	1-5/8	1-1/8	2-5/8	2000	1000	1400	510	70	85

低温涡旋并联机组参数表
Low temp. Scroll Rack Technical Data

机组型号 Rack Model	压缩机匹数 Compressor Power HP	台数 Set	机组对外管路 (英寸) Pipings(inch)			外形尺寸 (mm) Dimension(mm)			重量 Weight	最小工作电流 (A) Min.Working Current	最大保护电流 (A) Max.Working Current
			排气 Discharge	供液 Liquid	吸气 suction	长 Length	宽 Width	高 Height	Kg		
ZRK2010-RLB	5	2	5/8	1/2	1-3/8	1100	1000	1400	255	20	28
ZRK2012-RLB	6	2	5/8	1/2	1-3/8	1100	1000	1400	260	22	29
ZRK3015-RLB	5	3	7/8	5/8	1-5/8	1550	1000	1400	314	28	35
ZRK3018-RLB	6	3	7/8	5/8	1-5/8	1550	1000	1400	320	29	37
ZRK4020-RLB	5	4	7/8	5/8	1-5/8	2000	1000	1400	380	35	43
ZRK4024-RLB	6	4	7/8	7/8	2-1/8	2000	1000	1400	390	37	45

中、低温涡旋并联机组外形尺寸图　Middle、Low Scroll Rack Dimension





低温单级活塞并联机组制冷量表 Low temp. Single-stage Reciprocating Rack Performance Data

制冷剂 R404A，冷凝温度 +45℃，冷量及输入功率单位为 Kw
Refrigerant R404A，Cond.Temp.+45℃，Cap.&Power Input in kw

机组型号 Rack Model	蒸发 Evap. -41℃		蒸发 Evap. -40℃		蒸发 Evap. -38℃		蒸发 Evap. -37℃		蒸发 Evap. -35℃		蒸发 Evap. -30℃		蒸发 Evap. -25℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZRK230-SLB	15.0	14.2	16.1	14.9	18.5	16.2	19.8	16.9	22.4	18.2	30.0	21.7	38.8	25.2
ZRK240-SLB	17.4	16.5	18.7	17.3	21.5	18.8	23.0	19.6	26.1	21.2	34.8	25.1	45.0	29.1
ZRK360-SLB	26.0	24.8	28.1	26.0	32.3	28.2	34.5	29.4	39.2	31.7	52.2	37.6	67.5	43.6
ZRK375-SLB	33.2	31.2	35.7	32.7	41.2	35.8	44.0	37.4	50.0	40.5	66.9	48.5	87.0	56.5
ZRK390-SLB	37.4	34.6	40.4	36.5	46.6	40.2	49.8	42.0	56.7	45.7	75.9	55.0	98.4	63.9
ZRK4100-SLB	44.2	41.6	47.6	43.6	54.9	47.7	58.7	49.8	66.7	54.0	89.2	64.6	116.0	75.3
ZRK4120-SLB	49.9	46.2	53.8	48.6	62.1	53.6	66.4	56.0	75.6	61.0	101.2	73.3	131.2	85.2
ZRK5125-SLB	55.3	52.0	59.6	54.5	68.6	59.7	73.4	62.3	83.4	67.5	111.5	80.8	145.0	94.2
ZRK5150-SLB	62.4	57.7	67.3	60.8	77.6	67.0	83.0	70.1	94.5	76.2	126.5	91.6	164.0	106.5
ZRK6180-SLB	74.8	69.2	80.7	73.0	93.1	80.3	99.6	84.1	113.3	91.4	151.8	109.9	196.8	127.8
ZRK5200-SLB	70.5	67.7	76.3	71.2	88.6	78.2	95.1	82.7	109.0	88.9	147.5	107.0	192.5	125.0
ZRK6240-SLB	84.5	81.2	91.6	85.4	106.3	93.8	114.1	99.2	130.8	106.7	177.0	128.4	231.0	150.0

中温单级活塞并联机组制冷量表 Middle temp. Single-stage Reciprocating Rack Performance Data

制冷剂 R404A，冷凝温度 +45℃，冷量及输入功率单位为 Kw
Refrigerant R404A，Cond.Temp.+45℃，Cap.&Power Input in kw

机组型号 Rack Model	蒸发 Evap. −15℃		蒸发 Evap. −12℃		蒸发 Evap. −11℃		蒸发 Evap. −10℃		蒸发 Evap.−5℃		蒸发 Evap.0℃		蒸发 Evap.+5℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZRK240−SMB	44.8	23.2	50.8	24.5	53.0	24.9	55.2	25.4	67.2	27.4	81.0	29.2	97.0	30.7
ZRK250−SMB	59.0	31.0	67.0	32.9	69.8	33.5	72.8	34.1	88.6	37.1	106.8	39.7	127.8	42.0
ZRK375−SMB	88.5	46.5	100.5	49.4	104.7	50.3	109.2	51.2	132.9	55.6	160.2	59.6	191.7	63.0
ZRK390−SMB	102.6	54.2	116.4	57.6	121.5	58.7	126.6	59.9	153.9	65.1	185.1	70.2	221.1	74.7
ZRK3105−SMB	132.6	70.2	150.6	74.4	157.2	75.6	163.8	77.1	199.5	83.7	240.6	89.7	287.7	95.1
ZRK3120−SMB	153.9	81.6	174.6	86.7	181.8	88.2	189.3	89.7	230.1	97.5	276.9	104.7	330.3	111.6
ZRK4120−SMB	136.8	72.3	155.2	76.8	162.0	78.3	168.8	79.8	205.2	86.8	246.8	93.6	294.8	99.6
ZRK4140−SMB	176.8	93.6	200.8	99.2	209.6	100.8	218.4	102.8	266.0	111.6	320.8	119.6	383.6	126.8
ZRK4160−SMB	205.2	108.8	232.8	115.6	242.4	117.6	252.4	119.6	306.8	130.0	369.2	139.6	440.4	148.8
ZRK5175−SMB	221.0	117.0	251.0	124.0	262.0	126.0	273.0	128.5	332.5	139.5	401.0	149.5	479.5	158.5
ZRK5200−SMB	256.5	136.0	291.0	144.5	303.0	147.0	315.5	149.5	383.5	162.5	461.5	174.5	550.5	186.0
ZRK6210−SMB	265.2	140.4	301.2	148.8	314.4	151.2	327.6	154.2	399.0	167.4	481.2	179.4	575.4	190.2
ZRK6240−SMB	307.8	163.2	349.2	173.4	363.6	176.4	378.6	179.4	460.2	195.0	553.8	209.4	660.6	223.2

低温双级活塞并联机组制冷量表 Low temp. Double-stage Reciprocating Rack Performance Data

制冷剂 R404A，冷凝温度 +42℃，冷量及输入功率单位为 Kw
Refrigerant R404A，Cond.Temp.+42℃，Cap.&Power Input in kw

机组型号 Rack Model	蒸发 Evap. -45℃		蒸发 Evap. -41℃		蒸发 Evap. -40℃		蒸发 Evap. -38℃		蒸发 Evap. -37℃		蒸发 Evap. -35℃		蒸发 Evap. -30℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZRK336-TL	25.2	23.3	30.1	25.5	31.4	26.0	34.0	27.1	35.4	27.7	38.3	28.7	46.1	31.4
ZRK348-TL	35.6	32.6	42.2	35.7	43.9	36.5	47.6	38.1	49.4	38.9	53.6	40.5	63.9	44.8
ZRK360-TL	40.8	38.7	48.6	41.4	50.6	42.3	54.8	44.1	57.0	45.1	61.5	47.0	73.8	51.8
ZRK375-TL	46.9	43.4	55.5	47.5	57.8	48.6	62.7	50.7	65.1	51.8	70.2	53.9	84.0	59.5
ZRK390-TL	55.7	51.9	65.7	56.9	68.4	58.1	74.1	60.6	77.1	61.8	83.1	64.5	99.6	70.8
ZRK4100-TL	62.5	57.8	74.0	63.4	77.1	64.8	83.6	67.6	86.8	69.0	93.6	71.9	112.0	79.4
ZRK4120-TL	74.2	69.2	87.6	75.8	91.2	77.5	98.8	80.8	102.8	82.4	110.8	86.0	132.8	94.4
ZRK5150-TL	92.8	86.6	109.5	94.8	114.0	96.9	123.5	101.0	128.5	103.0	138.5	107.5	166.0	118.0
ZRK6180-TL	111.3	103.9	131.4	113.7	136.8	116.2	148.2	121.2	154.2	123.6	166.2	129.0	199.2	141.6

低温单级活塞并联机组配置和外形尺寸

Low Temperature Single-stage Reciprocating Rack Technical Data

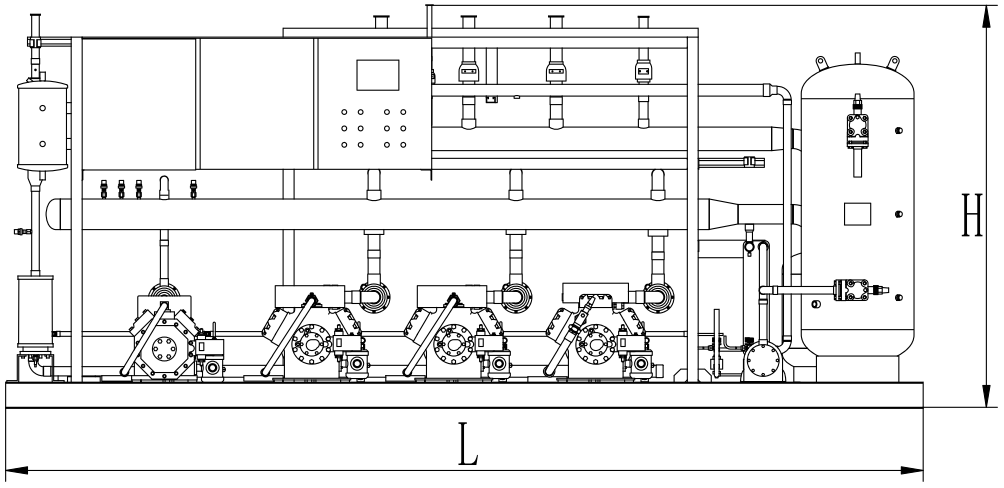
机组型号 Rack Model	压缩机匹数 Compressor PowerHp	台数 Set	机组对外管路 Pipings(inch)			外形尺寸 Dimension			重量 Weight	最小工作电流(A) Min. Working Current	最大保护电流(A) Max. Protection Current	机房通风量 Plant air flow
			排气 Discharge	供液 Liquid	吸气 Suction	长 Length (mm)	宽 Width (mm)	高 Height (mm)	公斤 Kg			m^3/h
ZRK230-SL	15	2	5/8	5/8	2-1/8	2450	1100	1700	650	53	66	1600
ZRK240-SL	20	2	7/8	5/8	2-5/8	2450	1100	1700	750	62	78	1800
ZRK360-SL	20	3	1-1/8	2*5/8	2*2-1/8	3150	1100	1700	1050	92	115	2800
ZRK375-SL	25	3	1-3/8	3*5/8	3*2-1/8	3150	1100	1700	1100	117	146	3500
ZRK390-SL	30	3	1-3/8	3*5/8	3*2-1/8	3250	1100	1700	1200	138	173	4200
ZRK4100-SL	25	4	1-3/8	3*7/8	3*2-1/8	3900	1100	1700	1600	156	195	4700
ZRK4120-SL	30	4	1-5/8	3*7/8	3*2-1/8	3900	1100	1700	1650	184	230	5600
ZRK5125-SL	25	5	1-5/8	4*5/8	4*2-1/8	4550	1100	1700	2100	195	244	5900
ZRK5150-SL	30	5	2-1/8	4*7/8	4*2-1/8	4550	1100	1700	2200	230	288	7000
ZRK6180-SL	30	6	2-1/8	5*7/8	5*2-1/8	5250	1100	1750	2600	276	345	8400
ZRK5200-SL	40	5	2-1/8	5*7/8	5*2-1/8	4600	1100	1700	2400	294	368	8500
ZRK6240-SL	40	6	2-1/8	5*7/8	5*2-5/8	5400	1100	1750	2800	353	441	10100

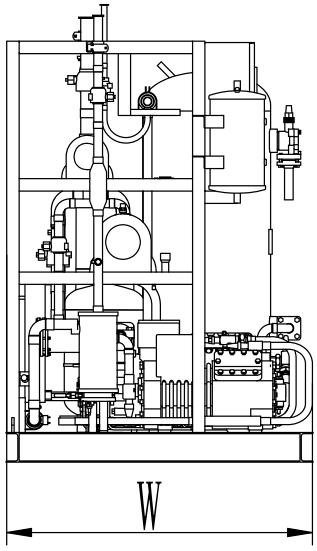
中温单级活塞并联机组配置和外形尺寸

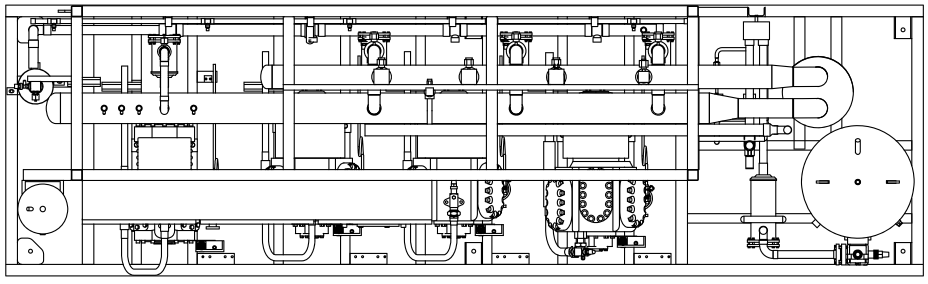
Middle Temperature Single-stage Reciprocating Rack

机组型号 Rack Model	压缩机匹数 Compressor power HP	台数 Set	机组对外管路 Pipings			外形尺寸 Dimension			重量 Weight	最小工作电流（A） Min. Working Current	最大保护电流（A） Max. Protection Current	机房通风量 Plant air flow
			排气 Discharge	供液 Liquid	吸气 Suction	长 Length (mm)	宽 Width (mm)	高 Height (mm)	公斤 Kg			m^3/h
ZRK240-SM	20	2	1-3/8	1-1/8	2-5/8	2450	1100	1700	700	48	60	4200
ZRK250-SM	25	2	1-5/8	1-3/8	2-5/8	2450	1100	1700	800	60	75	5400
ZRK375-SM	25	3	2-1/8	3*7/8	3*2-1/8	3200	1100	1700	1100	90	113	8000
ZRK390-SM	30	3	2-1/8	3*7/8	3*2-1/8	3200	1100	1700	1200	108	135	9400
ZRK3105-SM	35	3	2-1/8	3*1-1/8	3*2-5/8	3250	1100	1700	1300	138	173	12000
ZRK3120-SM	40	3	2-5/8	3*1-1/8	3*2-5/8	3250	1100	1700	1400	166	208	13900
ZRK4120-SM	30	4	2-1/8	3*1-1/8	3*2-5/8	3900	1100	1700	1600	144	180	12400
ZRK4140-SM	35	4	2-1/8	3*1-3/8	3*2-5/8	4000	1100	1700	1800	184	230	16200
ZRK4160-SM	40	4	2-5/8	4*1-1/8	4*2-5/8	4000	1100	1700	2000	221	276	18500
ZRK5175-SM	35	5	2-5/8	4*1-1/8	4*2-5/8	4600	1100	1700	2000	230	288	20200
ZRK5200-SM	40	5	2-5/8	5*1-1/8	5*2-5/8	4600	1100	1700	2200	276	345	23100
ZRK6210-SM	35	6	2-5/8	5*1-1/8	5*2-5/8	5300	1100	1750	2500	276	345	24200
ZRK6240-SM	40	6	2-5/8	5*1-1/8	5*2-5/8	5300	1100	1750	2700	332	414	27800

中、低温单级活塞并联机组外形尺寸图 Dimensions Of Middle Temperature Single-stage Reciprocating Rack



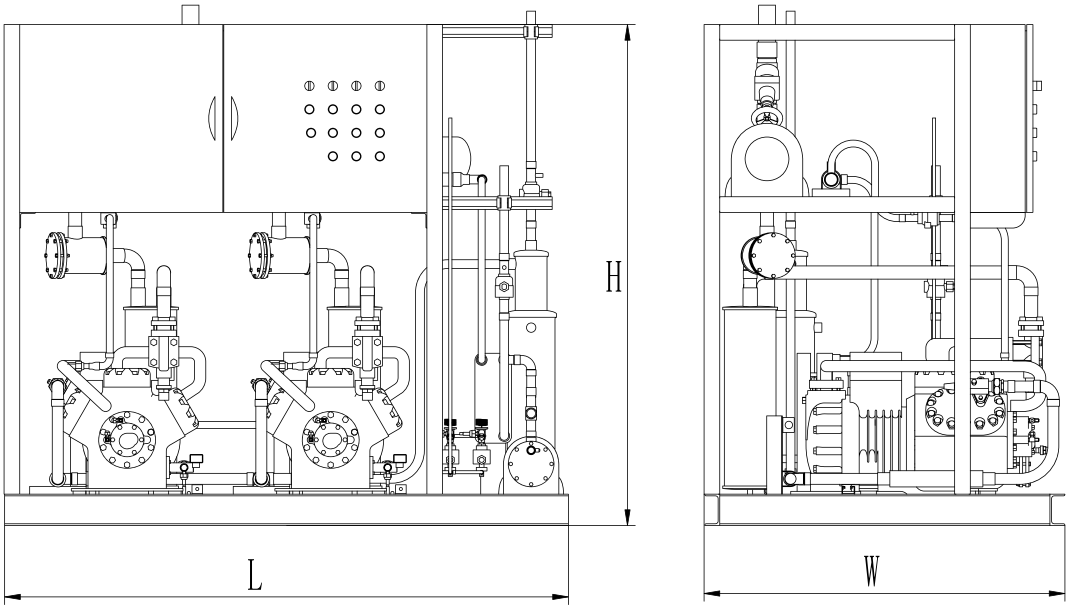




低温双级活塞并联机组配置和外形尺寸

Low Temperature Double-stage Reciprocating Rack Technical Data

机组型号 Rack Model	压缩机匹数 Compressor power HP	台数 Set	机组对外管路 Pipings			外形尺寸 Dimension			重量 Weight	最小工作电流（A） Min. Working Current	最大保护电流（A） Max. Protection Current	机房通风量 Plant air flow
			排气 Discharge	供液 Liquid	吸气 Suction	长 Length (mm)	宽 Width (mm)	高 Height (mm)	公斤 Kg			m^3/h
ZRK336-TL	12	3	1-3/8	7/8	2-5/8	3300	1250	1700	1700	56	70	3000
ZRK348-TL	16	3	1-3/8	2*5/8	2*2-1/8	3300	1250	1700	1900	79	99	4600
ZRK360-TL	20	3	1-3/8	3*5/8	3*2-1/8	3300	1250	1700	2000	92	115	5200
ZRK375-TL	25	3	1-5/8	3*7/8	3*2-1/8	3300	1250	1700	2000	106	133	6000
ZRK390-TL	30	3	1-5/8	3*7/8	3*2-1/8	3300	1250	1700	2100	128	160	7000
ZRK4100-TL	25	4	2-1/8	3*7/8	3*2-1/8	4000	1250	1750	2500	141	176	8000
ZRK4120-TL	30	4	2-1/8	3*7/8	3*2-5/8	4000	1250	1750	2500	170	213	9600
ZRK5150-TL	30	5	2-1/8	4*7/8	4*2-5/8	4700	1250	1750	3000	212	265	12000
ZRK6180-TL	30	6	2-1/8	5*7/8	5*2-5/8	5400	1250	1750	3500	255	319	14400



比泽尔 75 匹低温螺杆并联机组制冷量

Bitzer 75Hp Low Temperature Screw Rack Performance Data

制冷剂 Refrigerant R404A，**冷凝温度** Condensing temp.+40℃，**冷量及输入功率** Cap.and power input in kw

机组型号 Rack Model	蒸发 Evap.–45℃		蒸发 Evap.–42℃		蒸发 Evap.–40℃		蒸发 Evap.–35℃		蒸发 Evap.–30℃		蒸发 Evap.–25℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZCU75–XLB	39.0	44.5	49.7	52.1	52.3	48.6	66.9	52.2	83.2	55.5	101.2	58.6
ZRK2150–XLB	78.0	89.0	99.4	104.2	104.6	97.2	133.8	104.4	166.4	111.0	202.4	117.2
ZRK3225–XLB	117.0	133.5	149.1	156.3	156.9	145.8	200.7	156.6	249.6	166.5	303.6	175.8
ZRK4300–XLB	156.0	178.0	198.8	208.4	209.2	194.4	267.6	208.8	332.8	222.0	404.8	234.4
ZRK5375–XLB	195.0	222.5	248.5	260.5	261.5	243.0	334.5	261.0	416.0	277.5	506.0	293.0
ZRK6450–XLB	234.0	267.0	298.2	312.6	313.8	291.6	401.4	313.2	499.2	333.0	607.2	351.6

比泽尔 125 匹低温螺杆并联机组制冷量

Bitzer 125Hp Low Temperature Screw Rack Performance Data

制冷剂 Refrigerant R404A，**冷凝温度** Condensing temp.+40℃，**冷量及输入功率** Cap.and power input in kw

机组型号 Rack Model	蒸发 Evap.–45℃		蒸发 Evap.–42℃		蒸发 Evap.–40℃		蒸发 Evap.–35℃		蒸发 Evap.–30℃		蒸发 Evap.–25℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZCU125–XLB	71.2	80.7	82.3	82.6	90.3	83.9	112.3	87.5	137.7	91.5	166.8	96.0
ZRK2250–XLB	142.4	161.4	164.6	165.2	180.6	167.8	224.6	175.0	275.4	183.0	333.6	192.0
ZRK3375–XLB	213.6	242.1	246.9	247.8	270.9	251.7	336.9	262.5	413.1	274.5	500.4	288.0
ZRK4500–XLB	284.8	322.8	329.2	330.4	361.2	335.6	449.2	350.0	550.8	366.0	667.2	384.0
ZRK5625–XLB	356.0	403.5	411.5	413.0	451.5	419.5	561.5	437.5	688.5	457.5	834.0	480.0

比泽尔 160 匹低温螺杆并联机组制冷量

Bitzer 160Hp Low Temperature Screw Rack Performance Data

制冷剂 Refrigerant R404A，**冷凝温度** Condensing temp.+40℃，**冷量及输入功率** Cap.and power input in kw

机组型号 Rack Model	蒸发 Evap.−45℃		蒸发 Evap.−42℃		蒸发 Evap.−40℃		蒸发 Evap.−35℃		蒸发 Evap.−30℃		蒸发 Evap.−25℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZCU160−XLB	86.4	104.9	100.4	108.2	110.3	110.2	137.8	114.9	169.4	119.3	206.0	123.5
ZRK2320−XLB	172.8	209.8	200.8	216.4	220.6	220.4	275.6	229.8	338.8	238.6	412.0	247.0
ZRK3480−XLB	259.2	314.7	301.2	324.6	330.9	330.6	413.4	344.7	508.2	357.9	618.0	370.5
ZRK4640−XLB	345.6	419.6	401.6	432.8	441.2	440.8	551.2	459.6	677.6	477.2	824.0	494.0

神钢双级低温螺杆并联机组制冷量表

Kobelco Double−stage Low Temperature Screw Rack Performance Data

制冷剂 Refrigerant R404A，**冷凝温度** Condensing temp.+40℃，**冷量及输入功率** Cap.and power input in kw

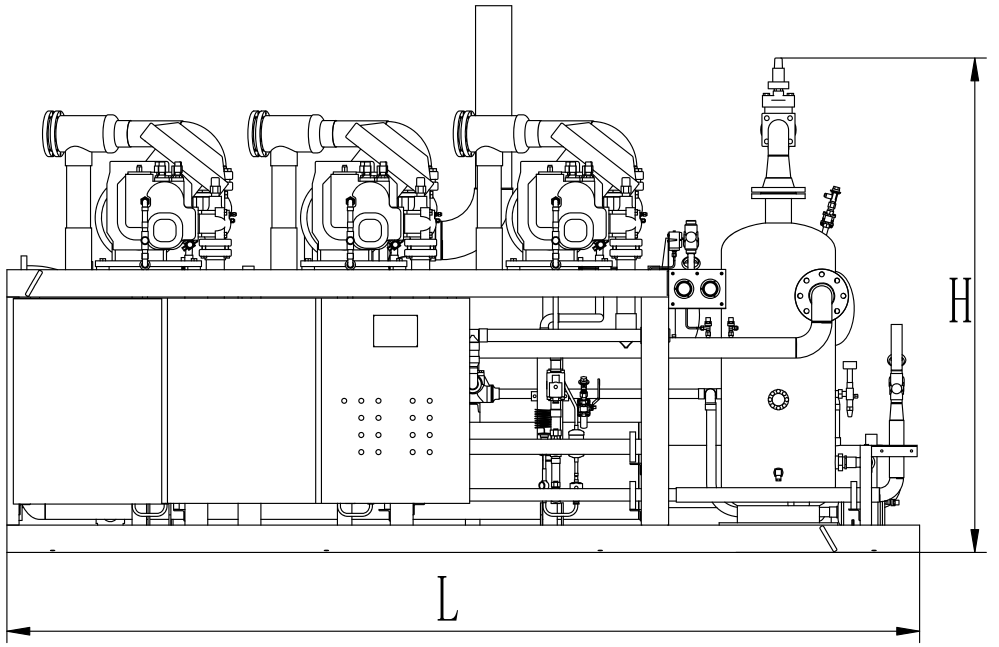
机组型号 Rack Model	蒸发 Evap. −60℃		蒸发 Evap. −55℃		蒸发 Evap. −50℃		蒸发 Evap. −45℃		蒸发 Evap. −40℃		蒸发 Evap. −35℃		蒸发 Evap. −30℃	
	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power	冷量 Cap.	功率 Power
ZCU75−WL	26.4	36.7	34.6	38.9	44.0	41.2	55.6	43.9	68.5	46.9	83.2	50.2	99.8	54.7
ZRK2150−WL	52.8	73.4	69.2	77.8	88.0	82.4	111.2	87.8	137.0	93.8	166.4	100.4	199.6	109.4
ZRK3225−WL	79.2	110.1	103.8	116.7	132.0	123.6	166.8	131.7	205.5	140.7	249.6	150.6	299.4	164.1
ZRK4300−WL	105.6	146.8	138.4	155.6	176.0	164.8	222.4	175.6	274.0	187.6	332.8	200.8	399.2	218.8
ZRK5375−WL	132.0	183.5	173.0	194.5	220.0	206.0	278.0	219.5	342.5	234.5	416.0	251.0	499.0	273.5
ZRK6450−WL	158.4	220.2	207.6	233.4	264.0	247.2	333.6	263.4	411.0	281.4	499.2	301.2	598.8	328.2

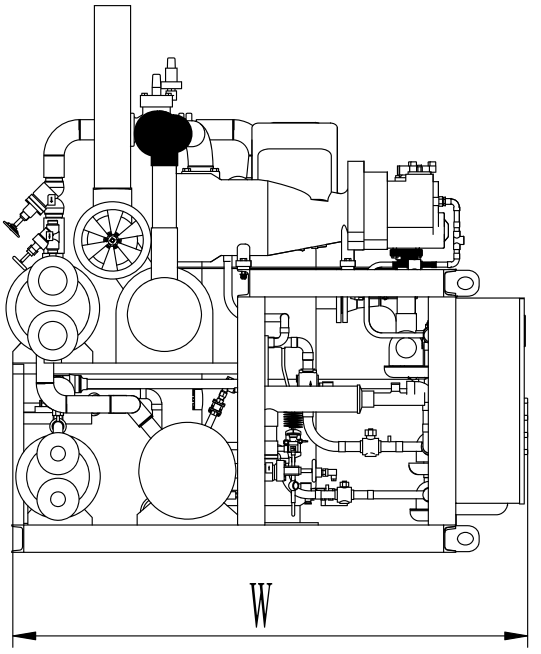
低温单级螺杆并联机组配置和外形尺寸

Low Temperature Single-stage Screw Rack Technical Data

机组型号 Rack Model	压缩机匹数 Compressor power HP	台数 Set	机组对外管路 Pipings			外形尺寸 (mm) Dimension			重量 Weight(Kg)	最小工作电流（A） Min. Working Current	最大保护电流（A） Max.Protection Current
			排气 Discharge	供液 Liquid	吸气 Suction	长 Length	宽 Width	高 Height			
ZCU75-XL	75	1	¢ 48	1-1/8	¢ 89	2000	1650	1800	1100	120	217
ZRK2150-XL	75	2	¢ 63	2×1-1/8	¢ 133	2500	2200	2200	2000	217	313
ZRK3225-XL	75	3	¢ 76	2×1-3/8	2× ¢ 114	3400	2200	2200	3000	313	410
ZRK4300-XL	75	4	¢ 89	3×1-3/8	2× ¢ 133	4300	2200	2200	3500	410	507
ZRK5375-XL	75	5	¢ 108	4×1-3/8	2× ¢ 159	5300	2200	2200	4100	507	603
ZRK6450-XL	75	6	¢ 108	5×1-3/8	4× ¢ 133	6200	2200	2200	4600	603	700
ZCU125-XL	125	1	¢ 76	1-5/8	¢ 108	2200	1600	1800	1500	200	360
ZRK2250-XL	125	2	¢ 89	2-1/8	¢ 159	3200	2200	2200	2800	360	520
ZRK3375-XL	125	3	¢ 89	2-5/8	2× ¢ 133	4100	2200	2200	4000	520	680
ZRK4500-XL	125	4	¢ 108	2-5/8	2× ¢ 159	5000	2200	2200	5100	680	841
ZRK5625-XL	125	5	¢ 114	3-1/8	2× ¢ 159	6000	2200	2200	6000	841	1000
ZCU160-XL	160	1	¢ 76	¢ 48	¢ 140	2300	1600	1800	1700	253	456
ZRK2320-XL	160	2	¢ 89	¢ 63	2× ¢ 140	3400	2100	2200	3000	456	659
ZRK3480-XL	160	3	¢ 108	¢ 76	2× ¢ 159	4300	2100	2200	4300	659	862
ZRK4640-XL	160	4	¢ 114	¢ 89	2× ¢ 159	5200	2100	2200	5500	862	1065

低温螺杆并联机组外形尺寸图　Low Temperature Screw Rack Dimension Drawing





低温双级螺杆并联机组配置和外形尺寸

Low Temperature Double-stage Rack Technical Data

机组型号 Rack Model	压缩机匹数 Compressor power HP	台数 Set	机组对外管路 Pipings			外形尺寸 (mm) Dimension			重量 Weight(Kg)	最小工作电流（A） Min. Working Current	最大保护电流（A） Max.Protection Current
			排气 Discharge	供液 Liquid	吸气 Suction	长 Length	宽 Width	高 Height			
ZCU75-WL	75	1	¢ 64	1-3/8	¢ 108	2500	1800	1800	1800	125	225
ZRK2150-WL	75	2	¢ 64	2×1-1/8	¢ 140	2800	2500	2200	3300	225	325
ZRK3225-WL	75	3	¢ 89	2×1-3/8	¢ 168	3800	2500	2200	4500	325	425
ZRK4300-WL	75	4	¢ 89	3×1-3/8	2×¢ 140	4800	2500	2200	5400	425	525
ZRK5375-WL	75	5	¢ 108	4×1-3/8	2×¢ 168	5800	2500	2200	6100	525	625
ZRK6450-WL	75	6	¢ 108	5×1-3/8	2×¢ 168	6800	2500	2200	7100	625	725