

轻型活塞并联机组

BMR系列



中低温 36 69 HP

中高温 24 90 HP



BMR Semi- Hermetic Rack

BMR Series



描述 Description

稳定可靠

Stable and reliable

- 高品质的世界名牌压缩机。
- High quality and world famous compressors.
- 机组中某台压缩机故障时，其他压缩机仍可继续正常工作。
- If one compressor has broken, other compressor also can work continually.
- 每台机组出厂均标配控制器，自动调节压缩机运行时间，延长压缩机使用寿命。
- Standard products are configured controller which can regulate the running time of compressors automaticly and extend compressor service life.
- 独特的汽液分离设计，最大限度避免液击。
- Special design for suction accumulator can maximize a voiding liquid impact .

高效节能

High efficiency and saving energy

- 控制器在日常部分负荷情况下调整机组最佳运行曲线，为终端用户节省大量电能。
- Controller can adjust compressor on - off in the routine days which saves more electric energy for end - user.
- 精确的管路设计，把管路压力损失减到最小，最大限度提高机组效率。
- Perfect design of pipe minimizes pressure loss along the pipeline which lead to enhance efficiency.
- 可对比不等大小压缩机，提供更多的调节级数，冷量输出可以更加平滑地动态匹配实际负荷。
- Can use different compressors in the same system and balance dynamic cooling capacity output.



结构紧凑灵活

Structure compact and Flexible

- 多台压缩机共享油分离器、冷凝器、储液器、控制系统及框架。
- Share oil separator, condenser, liquid receiver, control system and frame.
- 安装空间的减少可以为大型超市和冷库提供更大的商用空间，进一步为终端用户创造价值。
- Redce installation space and create more value for end - user .
- 自动化程度高。
- Highly - automated .
- 微电脑控制并联机组实时匹配动态负载，明显降低蒸发压力波动。
- Micro - computer control sthereal - time dynamicload which can result in decreasing fluctuation of evaporating pressure .
- 可选用远程监控，自动化运行。
- Through remote monitoring , achieve system running automatically .

市场范围 Market Segments



• 超市 Super Market

• 冷冻冷藏 Cold Storage

命名规则 Nomenclature

轻型活塞并联机组
BMR Semi-Hermetic Rack

BMR₍₁₎ **3**₍₂₎ **60**₍₃₎ **-S**₍₄₎ **M**₍₅₎ **-Y**₍₆₎

(1) BMR:小型并联机组轻型机架	(1)BMR:Small light Frame
(2) 3:压缩机数量	(2)3:Compressor No.
(3) 60:总匹数	(3)60:Total HP
(4) S:单级压缩	(4)S:Single stage
(5) M:中温(蒸发温度:-25~-5℃)	(5)M:Med temp(Evaporating temp. range: -25~-5℃)
L:低温(蒸发温度:-45~-25℃)	L:Low temp(Evaporating temp. range: -45~-25℃)
(6) 润滑油种类	(6)Types of oil
空白:矿物油	Blank:Mineral Oil(R22)
Y:聚酯油	Y:Polyester Oil(R404A,R507A)

产品概述

Product overview

- 标准配置控制器可以自动调节压缩机的运行时间,延长寿命。
• Standard configured controller can automatically regulate the running time among compressors and extend the lifetime.
- 标准配置控制器可以根据不同的负载调节压缩机的运转周期,为用户节省更多电力。
• Standard configured controller can regulate the on-off cycle of compressors according to different load which saves more electricity for end-users.
- 采用高效油分离器,润滑油只有很少一部分进入系统,提高了换热器的效率。
• Apply high efficient oil separator, tremendously decrease the oil into system which can improve the efficiency of heat exchangers.
- 电子控制器实现实时负荷控制,减少蒸发压力波动。
• Electronic controller achieves real-time load control. It helps decreasing the fluctuation of evaporating pressure.

轻型活塞并联机组 BMR Semi- Hermetic Rack

制冷量与输入功率参数 (R22)

Capacity and Input Power (R22)

中高温

MT&HT

型号 Model	压缩机 Compressor		蒸发温度SET -15°C		蒸发温度SET -10°C		蒸发温度SET -5°C		蒸发温度SET 0°C		蒸发温度SET 5°C	
	型号 Model	数量 Qty	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power
BMR224-SM	4TES-12	2	31.84	14.78	40.40	16.30	50.40	17.66	62.80	18.84	75.80	19.78
BMR230-SM	4PES-15	2	35.98	16.64	46.00	18.46	57.60	20.10	72.20	21.52	87.40	22.66
BMR240-SM	4NES-20	2	42.80	19.72	54.40	21.76	68.00	23.62	85.00	25.20	102.60	26.48
BMR250-SM	4HE-25	2	57.60	26.66	72.80	29.32	90.80	31.72	113.00	33.78	136.20	35.42
BMR260-SM	4GE-30	2	67.20	30.88	84.80	33.86	105.20	36.56	131.00	38.88	157.60	40.80
BMR345-SM	4PES-15	3	53.97	24.96	69.00	27.69	86.40	30.15	108.30	32.28	131.10	33.99
BMR360-SM	4NES-20	3	64.20	29.58	81.60	32.64	102.00	35.43	127.50	37.80	153.90	39.72
BMR375-SM	4HE-25	3	86.40	39.99	109.20	43.98	136.20	47.58	169.50	50.67	204.30	53.13
BMR390-SM	4GE-30	3	100.80	46.32	127.20	50.79	157.80	54.84	196.50	58.32	236.40	61.20

机组供电380V/3P/50Hz.

Power supply: 380V/3P/50Hz.

名义制冷量及输入功率基于环境温度+38°C, 冷凝温度+45°C, 制冷剂R22.

Nominal cooling capacity and input power are based on ambient temperature +38°C, condensing temperature +45°C and refrigerant R22.

如果机组需要运行于不同的蒸发温度或过高/过低的冷凝温度, 请联系我们公司当地代表处。

If the same rack system should be applied in different evaporating temperatures or condensing temperature is out the normal range, please contact our local representative office.

所有的制冷量参数均为净有效值, 在考虑了管路损失后仅需对系统加最多10%的余量。

All capacities are net effective valve. If pipe lose is considered in the system, only add 10% capacity.

其他技术参数 (R22)

Other Technical Data (R22)

中高温

MT&HT

型号 Model	匹数 HP	最大工作电流 Max. Operating Current	机组对外管路尺寸 Dimension (mm)			标准支管路数量 No. of Branch Line Ball Valve			外形尺寸 Dimension (mm)			电子低液位报警 Electronic Liquid Level Alarm	通风量 Air Flow) m3/h
			排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	长(L) 长(L)	宽(W) 宽(W)	高(H) 高(H)		
			A	mm	mm	mm	mm	mm	mm	mm	mm		
BMR224-SM	24	34	28	54	22	1	0	1	1600	1100	1750	N	2800
BMR230-SM	30	40	35	54	28	1	0	1	1850	1100	1750	N	3400
BMR240-SM	40	47	35	67	28	1	0	1	1850	1100	1750	N	4200
BMR250-SM	50	60	42	67	35	1	0	1	1700	1100	1750	N	5200
BMR260-SM	60	73	42	79	35	1	0	1	1700	1100	1750	N	5400
BMR345-SM	45	60	42	67	35	1	0	1	2350	1100	1750	N	6100
BMR360-SM	60	71	42	79	35	1	0	1	2200	1100	1750	N	6200
BMR375-SM	75	90	54	2*67	2*28	1	2	2	2700	1200	1750	N	8000
BMR390-SM	90	109	54	2*67	2*28	1	2	2	2700	1100	1750	N	9400

所有机组对外管路尺寸可根据客户需求定制。

All pipe sizes of rack systems can be customized by customer's requirement, such as liquid pipe and suction pipe.

所有标准机组 (R22) 预先充注矿物油, R404A机组预先充注聚酯油。

All rack system using R22 should be charged mineral oil in advance, otherwise polyester.

外形尺寸为标准, 如果有特殊要求请联系我公司当地代表处。

If you have special requirement for dimension, please contact local representative office of our company.

BMR为轻型框架并联机组, 并有无吸气球阀及电子低液位警报的型号。 BMR is Small Light Franme Rack System , Only for Rack System without suction valve and electronic liquid level alarm.

制冷量与输入功率参数 (R22)

Capacity and Input Power (R22)

中低温

MT&LT

型号 Model	压缩机 Compressor		蒸发温度SET -40°C		蒸发温度SET -35°C		蒸发温度SET -30°C		蒸发温度SET -25°C		蒸发温度SET -20°C	
	型号 Model	数量 Qty	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power
BMR236-SL	4HE-18	2	10.74	11.70	16.64	14.82	23.86	17.84	32.60	20.84	44.20	23.56
BMR246-SL	4GE-23	2	12.56	14.20	19.42	17.90	27.74	21.54	37.82	24.98	53.20	28.64
BMR354-SL	4HE-18	3	16.11	17.55	24.96	22.23	35.79	26.76	48.90	31.26	66.30	35.34
BMR369-SL	4GE-23	3	18.84	21.30	29.13	26.85	41.61	32.31	56.73	37.47	79.80	42.96

机组供电380V/3P/50Hz。

Power supply: 380V/3P/50Hz.

名义制冷量及输入功率基于环境温度+38°C, 冷凝温度+45°C, 制冷剂R22。

Nominal cooling capacity and input power are based on ambient temperature +38°C, condensing temperature +45°C and refrigerant R22.

如果机组需要运行于不同的蒸发温度或过高/过低的冷凝温度, 请联系我们当地代表处。

If the same rack system should be applied in different evaporating temperatures or condensing temperature is out the normal range, please contact our local representative office.

所有的制冷量参数均为净有效值, 在考虑了管路损失后仅需对系统加最多10%的余量。

All capacities are net effective value. If pipe lose is considered in the system, only add 10% capacity.

其他技术参数 (R22)

Other Technical Data (R22)

中低温

MT&LT

型号 Model	匹数 HP	最大工作电流 Max. Operating Current	机组对外管路尺寸 Dimension (mm)			标准支管路数量 No. of Branch Line Ball Valve			电子低液位报警 Electronic Liquid Level Alarm	通风量 Air Flow) m ³ /h
			排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe		
			A	mm	mm	mm	有Y/无N	kg		
BMR236-SL	36	38	16	54	16	1	0	1	N	1600
BMR246-SL	46	44	22	54	16	1	0	1	N	1800
BMR354-SL	54	57	22	67	22	1	0	1	N	2400
BMR369-SL	69	66	28	79	22	1	0	1	N	2800

所有机组对外管路尺寸可根据客户需求定制。

All pipe sizes of rack systems can be customized by customer's requirement, such as liquid pipe and suction pipe.

所有标准机组 (R22) 预先充注矿物油, R404A机组预先充注聚酯油。

All rack system using R22 should be charged mineral oil in advance, otherwise polyester.

外形尺寸为标准, 如果有特殊要求请联系我公司当地代表处。

If you have special requirement for dimension, please contact local representative office of our company.

BMR为轻型框架并联机组, 部分代表无吸气球阀及电子低液位报警的型号。

BMR is Small Light Frame Rack System, Only for Rack System without suction valve and electronic liquid level alarm.



轻型活塞并联机组 BMR Semi- Hermetic Rack

制冷量与输入功率参数 (R404A)

Capacity and Input Power (R404A)

中高温

MT&HT

型号 Model	压缩机 Compressor		蒸发温度SET -15°C		蒸发温度SET -10°C		蒸发温度SET -5°C		蒸发温度SET 0°C		蒸发温度SET 5°C	
	型号 Model	数量 Qty	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power
BMR224-SMY	4TES-12Y	2	29.82	16.26	38.24	18.04	48.40	19.72	63.00	21.20	76.00	22.46
BMR230-SMY	4PES-15Y	2	33.48	18.18	43.20	20.34	55.00	22.34	72.20	24.14	87.60	25.66
BMR240-SMY	4NES-20Y	2	40.80	22.00	52.20	24.40	66.00	26.64	86.00	28.64	103.80	30.32
BMR250-SMY	4HE-25Y	2	54.80	29.40	69.60	32.38	87.00	35.18	112.40	37.74	134.40	39.96
BMR260-SMY	4GE-30Y	2	63.20	33.98	79.80	37.42	99.80	40.60	128.60	43.60	153.80	46.20
BMR345-SMY	4PES-15Y	3	50.22	27.27	64.80	30.51	82.50	33.51	108.30	36.21	131.40	38.49
BMR360-SMY	4NES-20Y	3	61.20	33.00	78.30	36.60	99.00	39.96	129.00	42.96	155.70	45.48
BMR375-SMY	4HE-25Y	3	82.20	44.10	104.40	48.57	130.50	52.77	168.60	56.61	201.60	59.94
BMR390-SMY	4GE-30Y	3	94.80	50.97	119.70	56.13	149.70	60.90	192.90	65.40	230.70	69.30

机组供电380V/3P/50Hz。

Power supply: 380V/3P/50Hz.

名义制冷量及输入功率基于环境温度+38°C, 冷凝温度+45°C, 制冷剂R404A。

Nominal cooling capacity and input power are based on ambient temperature +38°C, condensing temperature +45°C and refrigerant R404A.

如果机组需要运行于不同的蒸发温度或过高/过低的冷凝温度, 请联系我们当地代表处。

If the same rack system should be applied in different evaporating temperatures or condensing temperature is out the normal range, please contact our local representative office.

所有的制冷量参数为均净有效值, 在考虑了管路损失后仅需对系统加最多10%的余量。

All capacities are net effective valve. If pipe lose is considered in the system, only add 10% capacity.

其他技术参数 (R404A)

Other Technical Data (R404A)

中高温

MT&HT

型号 Model	匹数 HP	最大工作电流 Max. Operating Current	机组对外管路尺寸 Dimension (mm)			标准支管路数量 No. of Branch Line Ball Valve			外形尺寸 Dimension (mm)			电子低液位报警 Electronic Liquid Level Alarm	通风量 Air Flow) m3/h
			排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	长(L) mm	宽(W) mm	高(H) mm		
BMR224-SMY	24	38	28	54	28	1	0	1	1850	1100	1750	N	750
BMR230-SMY	30	45	35	54	28	1	0	1	1700	1100	1750	N	900
BMR240-SMY	40	52	35	67	35	1	0	1	1700	1100	1750	N	900
BMR250-SMY	50	69	42	67	35	1	0	1	2200	1100	1750	N	1000
BMR260-SMY	60	81	42	79	42	1	0	1	2200	1100	1750	N	1000
BMR345-SMY	45	67	35	67	35	1	0	1	2200	1100	1750	N	1050
BMR360-SMY	60	77	42	79	42	1	0	1	2700	1100	1750	N	1200
BMR375-SMY	75	103	42	2*67	2*35	1	2	2	2700	1200	1750	N	1300
BMR390-SMY	90	122	54	2*67	2*35	1	2	2	2700	1100	1750	N	1300

所有机组对外管路尺寸可根据客户需求定制。

All pipe sizes of rack systems can be customized by customer's requirement, such as liquid pipe and suction pipe.

所有标准机组 (R22) 预先充注矿物油, R404A机组预先充注聚酯油。

All rack system using R22 should be charged mineral oil in advance, otherwise polyester.

外形尺寸为标准, 如果有特殊要求请联系我公司当地代表处。

If you have special requirement for dimension, please contact local representative office of our company.

部分表示轻型框架并联机组, 部分代表无吸气球阀及电子低液位报警的型号。

Only for Small Light Frame Rack System, Only for Rack System without suction valve and electronic liquid level alarm.

制冷量与输入功率参数 (R404A)

Capacity and Input Power (R404A)

中低温
MT<

型号 Model	压缩机 Compressor		蒸发温度SET -40°C		蒸发温度SET -35°C		蒸发温度SET -30°C		蒸发温度SET -25°C		蒸发温度SET -20°C	
	型号 Model	数量 Qty	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power	制冷量 Capacity	功率 Input Power
BMR236-SLY	4HE-18Y	2	12.44	14.46	18.00	17.50	24.90	20.70	33.38	24.00	43.60	27.32
BMR246-SLY	4GE-23Y	2	15.38	17.42	21.74	20.92	29.64	24.66	39.34	28.54	51.20	32.48
BMR354-SLY	4HE-18Y	3	18.66	21.69	27.00	26.25	37.35	31.05	50.07	36.00	65.40	40.98
BMR369-SLY	4GE-23Y	3	23.07	26.13	32.61	31.38	44.46	36.99	59.01	42.81	76.80	48.72

机组供电380V/3P/50Hz。

Power supply: 380V/3P/50Hz.

名义制冷量及输入功率基于环境温度+38°C，冷凝温度+45°C，制冷剂R404A。

Nominal cooling capacity and input power are based on ambient temperature +38°C, condensing temperature +45°C and refrigerant R404A.

如果机组需要运行于不同的蒸发温度或过高/过低的冷凝温度，请联系我们当地代表处。

If the same rack system should be applied in different evaporating temperatures or condensing temperature is out the normal range, please contact our local representative office.

所有的制冷量参数为均净有效值，在考虑了管路损失后仅需对系统加最多10%的余量。

All capacities are net effective value. If pipe lose is considered in the system, only add 10% capacity.



其他技术参数 (R404A)

Other Technical Data (R404A)

中低温
MT<

型号 Model	匹数 HP	最大工作电流 Max. Operating Current	机组对外管路尺寸 Dimension (mm)			标准支管路数量 No. of Branch Line Ball Valve			电子低液位报警 Electronic Liquid Level Alarm	通风量 (Air Flow) m ³ /h
			排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe	排气 Discharge Pipe	吸气 Suction Pipe	供液 Liquid Pipe		
			A	mm	mm	mm				有Y/无N
BMR236-SLY	36	0	28	67	28	1	0	1	N	800
BMR246-SLY	46	0	28	67	28	1	0	1	N	950
BMR354-SLY	54	0	28	79	28	1	0	1	N	1200
BMR369-SLY	69	0	35	79	35	1	0	1	N	1300

所有机组对外管路尺寸可根据客户需求定制。

All pipe sizes of rack systems can be customized by customer's requirement, such as liquid pipe and suction pipe.

所有标准机组 (R22) 预先充注矿物油, R404A机组预先充注聚酯油。

All rack system using R22 should be charged mineral oil in advance, otherwise polyester.

外形尺寸为标准, 如果有特殊要求请联系我公司当地代表处。

If you have special requirement for dimension, please contact local representative office of our company.

BMR为轻型框架并联机组,部分代表无吸气球阀及电子低液位报警的型号。

BMR is Small Light Frame Rack System, Only for Rack System without suction valve and electronic liquid level alarm.

尺寸参数

Dimension

型号 Model	外形尺寸 Dimension (mm)			
	长(L)	宽(W)	高(H)	重量 Weight(kg)
BMR224-SM	1600	1100	1750	750
BMR230-SM	1850	1100	1750	850
BMR240-SM	1850	1100	1750	850
BMR250-SM	1700	1100	1750	900
BMR260-SM	1700	1100	1750	900
BMR345-SM	2350	1100	1750	1050
BMR360-SM	2200	1100	1750	1100
BMR375-SM	2700	1200	1750	1300
BMR390-SM	2700	1100	1750	1300
BMR236-SL	1600	1100	1900	900
BMR246-SL	1850	1100	1900	950
BMR354-SL	2350	1100	1900	1200
BMR369-SL	2350	1200	1900	1300
BMR224-SMY	1850	1100	1750	750
BMR230-SMY	1700	1100	1750	900
BMR240-SMY	1700	1100	1750	900
BMR250-SMY	2200	1100	1750	1000
BMR260-SMY	2200	1100	1750	1000
BMR345-SMY	2200	1100	1750	1050
BMR360-SMY	2700	1100	1750	1200
BMR375-SMY	2700	1200	1750	1300
BMR390-SMY	2700	1100	1750	1300
BMR236-SLY	1850	1100	1750	800
BMR246-SLY	1700	1100	1750	950
BMR354-SLY	2400	1100	1750	1200
BMR369-SLY	2400	1100	1750	1300

