



百尔制冷

产品手册

PRODUCT MANUAL

换热器

Air Heat Exchangers

BEIJER REF

China

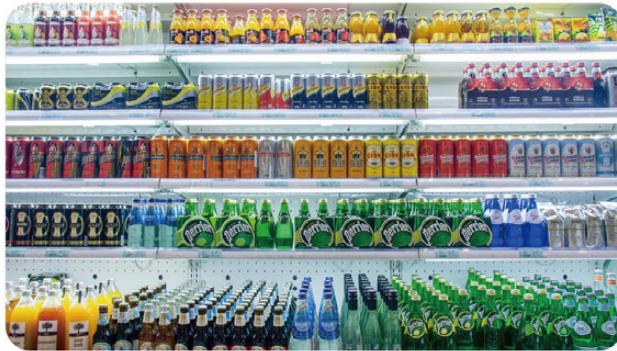
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		中温 Medium	1.7 > 25.9							
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冷凝器 Condensers										
冷凝器 Condensers	WRC		177 > 427	kW			○	○		44
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商用中小型冷风机

9000系列



BEIJER REF

Low Profile
9000 Series



特点 Features

能效，结霜延缓，室温稳定

High Efficiency, Extended Frosting Time, Stable Room Temperature

- 使用内螺纹管和叉排式排管，采用不断试验改进的分流技术以及我司翅片翻边工艺确保我司冷风机具有高制冷量，结霜时间延缓以及保持室温稳定的特点。
- Rifled tube and special coil arrangement, along with Beijer Ref liquid distribution technology and advanced fin flap process, resulting in better efficient unit cooler which has extended frosting time to maintain stable room temperature.

安全可靠

Reliable

- 我司冷风机产品按照我司集团技术要求和国家安全标准，在无锡研发中心实验室和我司全球测试中心实验室进行严格测试并通过审核后，交付给客户可以信赖的产品。
- All products from Beijer Ref follow standard Beijer design process and local regulations strictly, being tested in Wuxi Lab as well as Beijer India Technology Center. We make sure deliver reliable products to every customer.

便捷安装和维修

Easy Operation and Servicing

- 9000 系列冷风机采用了全新的可开启式箱体设计，直接方便地对电器控制部分和制冷管路部分进行操作。
- 9000 Series Unit Cooler has easy front-opening access to electrical panel and refrigeration components.

冷量范围覆盖大

Wide Capacity Range

- 9000 系列冷风机覆盖了中温 1.7kW-25.9kW, 低温 1.2kW-12.4kW 的宽范围，确保用户可以适合的选到产品
- Capacity coverage of 1.7kW-25.9kW for mid temperature and 1.2kW-12.4kW for low temperature.



描述

Description

- 传统冷风机采用小型盘管容易造成积霜，导致需要更多的加热量去化霜。同时由于翅片换热面积小，蒸发温度更低会导致过量除湿，容易结霜和频繁的化霜动作。
- Traditional coolers feature a compact coil design which blocks quickly and needs more defrost heat to remove ice build-up. Having less fin area requires the fin to run colder and this means more moisture removal, more ice formation and more frequent defrosting.
- 9000 系列冷风机采用了多项特殊改进设计来克服上述问题。首先创新的翅片铜管排列方式使潜热负荷减少，增大显热负荷。这将有助于降低除湿量并非常有效的增加了除霜间隔时间，即有效运行时间变长。
- The 9000 Series Unit Cooler was specifically designed to overcome these problems. This low frost innovation uses a unique fin pattern to minimize latent load and maximize sensible load. Enhanced fin configuration means less moisture removal and vastly improved runtime before ice formation.
- 巧妙的盘管设计降低了结霜过程中气流损失、受益于翅片表面积和铜管的表面积的比例优化，进而使室温波动稳定，而且可以使得盘管结霜时间延缓。
- Smart coil design means the coil loses less airflow as ice build-up, due to the larger ratio of fin surface to tube surface. This results in more stable room conditions between defrosts and allows the coil to hold ice for longer between defrosts.
- 换热面积的增大，使 9000 系列冷风机的换热温差较小，所需要的除霜加热量减少（大约比传统冷风机少 15%），这是显著的能耗降低，在产品使用寿命周期内给用户带来实质性的成本节约效益。
- Operating on a lower temperature differential, the 9000 Series Unit Cooler uses less defrost heater wattage (up to about 15 % less than conventional models) which reduces energy consumption and can deliver substantial cost savings over the full life of the unit.

市场范围 Market Segments



命名规则 Nomenclature

9000系列 商用中小型冷风机
9000 SERIES LOW PROFILE

BMT ⁽¹⁾ **158** ⁽²⁾ **H** ⁽³⁾ **-N** ⁽⁴⁾ **P** ⁽⁵⁾ **C** ⁽⁶⁾

(1) BMT: 中温冷风机
BLT: 低温冷风机

(2) 制冷量

(3) H: 带电加热丝除霜
空白: 无除霜

(4) N: Freddox电机
M: EBM EC 电机
L: EBM普通电机

(5) P: 过热保护
空白: 不带过热保护

(6) 订单代码

(1) BMT: Medium Temp
BLT: Low Temp

(2) Capacity (kW)=158/10kW

(3) H: Electrical defrost
Blank: without defrost

(4) N: Freddox motor
M: EBM EC motor
Blank: EBM motor

(5) P: Superheat protection
Blank: without Superheat protection

(6) Order Code

注: 低温冷风机标配电除霜

Note: Electrical defrost is standard for low temp units.

优势 Advantages

安装

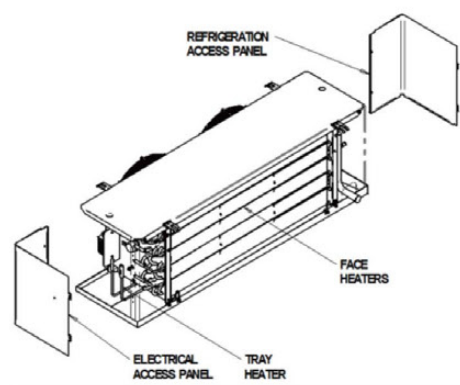
Installation

- 膨胀阀和管路安装空间大。
- Large space available for easy installation of the expansion valve.

维修/保养

Servicing/Maintenance

- 开启式箱体便于维护。
- Easily removable side panels offer comfortable access to all unit cooler components.



选项 Options

● 标配 Standard ○ 选配 Optional × 不提供 N/A

选项 Options	KIRBY	KIRBY
	BMT-中温冷风机 BMT-Medium Temp	BLT-低温冷风机 BLT-Low Temp
电机 Motor		
Freddox 电机 Freddox motor	●	●
EBM电机 (EC) EBM motor(EC)	○	○
施乐佰电机 ZIEHL-ABEGG motor	×	×
EBM 普通电机 EBM standard motor	○	○
翅片 Fin		
翅片涂层 (清水铝箔) Fin coating (blue fin)	○	○
翅片涂层 (黑色电泳) * Fin coating (black electrophoresis) *	○	×
外壳 Casing		
喷塑铝板 Plastics sprayed aluminum	●	●
不锈钢 Stainless steel	○	○
除霜方式 Defrost		
电加热丝除霜 Electrical defrost	○	●
热气化霜 (盘管+接水盘) Hot gas defrost (coil & tray)	○	○
水化霜 Water defrost	×	×
翅片片距 Fin spacing		
7FPI (3.63mm)	×	×
6FPI (4.23mm)	●	○
5FPI (5.08mm)	○	○
4FPI (6.35mm)	○	●
其他 Others		
风机接线 Fan wiring	●	●
电气箱 (IP54) Electrical cabinet (IP54)	○	○
双层接水盘 Double drain trays	○	○
乙二醇 Glycol	○	○

注：如需其他未列出的配置，请咨询百尔制冷当地代表处。
Note: If need other unlisted configurations, please consult Beijer Ref local representative office.
* 中温不带电加热可选。
* Optional of Medium temperature without electrical heater.

修正系数 Correction Factors

BMT型号

制冷量与输入功率 (R404A)
Capacity and Input Power (R404A)

蒸发温度 SST °C	-10	-8	-6	-4	-2	0	2	4	6	9	12
修正系数 Correction factor	0.97	1.00	1.01	1.02	1.04	1.07	1.10	1.13	1.17	1.21	1.21
最大温差 Max.KTD	9	10	10	10	10	10	10	10	10	10	10
最小温差 Min.KTD	4	4	4	4	4	5	5	5	5	6	6

翅片修正系数

Fin Capacity Correction Factors

6FPI	5FPI		4FPI		铝翅片 Aluminum fin	带涂层铝翅片 Coated aluminum fin
	φ300mm	φ350mm	φ300mm	φ350mm		
1	0.89	0.91	0.8	0.83	1	0.97

BLT型号

制冷量修正系数与冷风机运行范围
Capacity Factors and Application Limits

蒸发温度 SST °C	-40	-36	-30	-25	-20	-15
修正系数 Correction factor	0.71	0.82	0.91	1.00	1.09	1.18
最大温差 Max.KTD	11	11	10	10	10	10
最小温差 Min.KTD	4	4	4	4	4	4

翅片修正系数

Fin Capacity Correction Factors

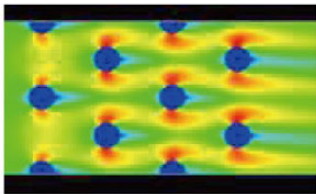
6FPI		5FPI		4FPI	铝翅片 Aluminum fin	带涂层铝翅片 Coated aluminum fin
φ300mm	φ350mm	φ300mm	φ350mm			
1.27	1.25	1.13	1.12	1	1	0.97

* 标准的盘管为4FPI铝翅片。将标准的制冷量乘上相应片距及翅片材料下的修正系数即可得实际的制冷量。
* Standard coils are 4FPI Aluminum. Multiply capacity by factors to find capacity with required FPI.

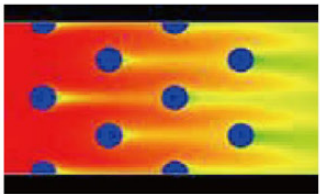
关于修正系数表：

Notes: Capacity factors tables

1. 实际制冷量 = 标准制冷量 × 修正系数 × 实际温差 / 标准温差
1. Actual capacity = capacity × factor × re-quired KTD / std KTD.
2. 修正系数表明了标准盘管的应用范围。
2. The limits on this chart are intended to indicate the maximum application range of standard coils.
3. 对于超出这些限制的应用，请咨询我司当地代表处，当超出应用工况时，原有的分液器及管路不一定合适。
3. For application outside these limits, consult your nearest Beijer Ref office. Distributors and/or circuiting may be unsuitable outside these limits.
4. 不同制冷剂的制冷量修正系数是根据制冷剂生产厂家提供的最新参数，并经过百尔盘管设计软件计算的。
4. Refrigerant capacity factors were calculated using the latest thermodynamic data from the refrigerant manufacturer and the Beijer Ref refrigeration rating program.



CFD气流速度模型
CFD air flow speed simulation



CFD气流温度模型
CFD temperature simulation

中温技术参数

Medium Temp Technical Data

(4.23mm, 6FPI)

型号 Model	制冷量 Capacity W SC2工况*1				内容积 Internal Volume dm³	盘管 排数 NO.of rows	风机参数 Fan Data							电加热丝*2 Heaters		重量 Weight (kg)
	R404A	R507A	R448A	R449A			风扇直径 Fan Diam. (mm)	风扇数量 No.of Fan	电源 Power	风量 Air Flow (m³/h)	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Current (W)	电源 Power	
BMT021-NC	2117	2053	2032	2011	0.75	3	300	1	(220V/1P/50Hz)	1296	6.9	85	0.42	900	(220V/1P/50Hz)	10.3
BMT026-NC	2626	2547	2521	2495	1.1	4	300	1	(220V/1P/50Hz)	1224	6.5	85	0.42	900	(220V/1P/50Hz)	11.5
BMT035-NC	3528	3422	3387	3352	1.1	2	300	2	(220V/1P/50Hz)	2736	10.3	170	0.84	1800	(220V/1P/50Hz)	15.1
BMT039-NC	3855	3739	3701	3662	1.85	4	350	1	(220V/1P/50Hz)	2448	8.3	170	0.78	1600	(220V/1P/50Hz)	16.3
BMT044-NC	4443	4310	4265	4221	1.7	3	300	2	(220V/1P/50Hz)	2592	9.8	170	0.84	1800	(220V/1P/50Hz)	16.9
BMT049-NC	4939	4791	4741	4692	2.3	4	300	2	(220V/1P/50Hz)	2448	9.3	170	0.84	1800	(220V/1P/50Hz)	18.7
BMT059-NC	5880	5704	5645	5586	3.4	3	350	2	(220V/1P/50Hz)	5040	12.6	340	1.56	3200	(380V/3P/50Hz)	25.3
BMT066-NC	6599	6401	6335	6269	2.3	3	300	3	(220V/1P/50Hz)	3888	12.1	255	1.26	2700	(380V/3P/50Hz)	23.0
BMT082-NC	8167	7922	7840	7759	3.3	3	350	2	(220V/1P/50Hz)	5040	12.6	340	1.56	3200	(380V/3P/50Hz)	26.3
BMT093-NC	9277	8999	8906	8813	4.5	4	350	2	(220V/1P/50Hz)	4950	11.9	340	1.56	3200	(380V/3P/50Hz)	30.4
BMT098-NC	9800	9506	9408	9310	5.6	5	350	2	(220V/1P/50Hz)	4752	11.5	340	1.56	3200	(380V/3P/50Hz)	33.8
BMT105-NC	10519	10203	10098	9993	4.5	4	300	4	(220V/1P/50Hz)	4896	12.9	340	1.68	3600	(380V/3P/50Hz)	32.4
BMT122-NC	12152	11787	11666	11544	5.6	3	350	3	(220V/1P/50Hz)	7776	15.4	510	2.34	4800	(380V/3P/50Hz)	37.7
BMT139-NC	13851	13435	13297	13158	6.7	4	350	3	(220V/1P/50Hz)	7416	14.7	510	2.34	4800	(380V/3P/50Hz)	42.6
BMT158-NC	15811	15337	15179	15020	8.3	5	350	3	(220V/1P/50Hz)	7092	14.2	510	3.12	4800	(380V/3P/50Hz)	47.6
BMT172-NC	17248	16731	16558	16386	6.6	3	350	4	(220V/1P/50Hz)	10368	17.3	680	3.12	6400	(380V/3P/50Hz)	49.5
BMT183-NC	18293	17744	17561	17378	8.9	4	350	4	(220V/1P/50Hz)	9900	16.4	680	3.12	6400	(380V/3P/50Hz)	58.3
BMT216-NC	21560	20913	20698	20482	8.3	3	350	5	(220V/1P/50Hz)	12960	19.3	850	3.9	8000	(380V/3P/50Hz)	60.5
BMT235-NC	23520	22814	22579	22344	11.1	4	350	5	(220V/1P/50Hz)	12384	18.4	850	3.9	8000	(380V/3P/50Hz)	69.6
BMT259-NC	25872	25096	24837	24578	13.9	5	350	5	(220V/1P/50Hz)	11808	17.8	850	3.9	8000	(380V/3P/50Hz)	77.5

*1 标准SC2工况: -8℃蒸发温度, 库温0℃, 8 KTD
SC2 Condition:-8℃ evaporating temperature,0℃ room temperature,8 KTD

*2 仅在选配电加热丝时适用
Only refer electrical heaters option

低温技术参数

Low Temp Technical Data

(6.35mm, 4FPI)

型号 Model	制冷量 Capacity W SC3工况*1				内容积 Internal Volume dm³	盘管 排数 NO.of rows	风机参数 Fan Data							电加热丝 Heaters		重量 Weight (kg)
	R404A	R507A	R448A	R449A			风扇直径 Fan Diam. (mm)	风扇数量 No.of Fan	电源 Power	风量 Air Flow (m³/h)	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power	
BLT012-NC	1171	1136	1112	1101	0.8	3	300	1	(220V/1P/50Hz)	1296	6.4	85	0.42	900	(220V/1P/50Hz)	10.8
BLT019-NC	1875	1819	1781	1763	1.5	3	350	1	(220V/1P/50Hz)	2520	8.1	170	0.78	1600	(220V/1P/50Hz)	15.5
BLT022-NC	2195	2129	2085	2063	1.7	3	300	2	(220V/1P/50Hz)	2592	9.1	170	0.84	1800	(220V/1P/50Hz)	17.5
BLT027-NC	2744	2662	2607	2579	2.3	4	300	2	(220V/1P/50Hz)	2488	8.6	170	0.84	1800	(220V/1P/50Hz)	19.5
BLT033-NC	3293	3194	3128	3095	2.5	3	300	3	(220V/1P/50Hz)	3888	11.2	255	1.26	2700	(380V/3P/50Hz)	24.4
BLT038-NC	3796	3682	3606	3568	3.4	4	300	3	(220V/1P/50Hz)	3672	10.6	255	1.26	2700	(380V/3P/50Hz)	26.5
BLT041-NC	4116	3993	3910	3869	3.3	3	350	2	(220V/1P/50Hz)	5040	11.6	340	1.56	3200	(380V/3P/50Hz)	27.0
BLT045-NC	4528	4392	4302	4256	3.4	3	350	2	(220V/1P/50Hz)	5040	11.6	340	1.56	3200	(380V/3P/50Hz)	27.8
BLT051-NC	5122	4968	4866	4815	4.5	4	350	2	(220V/1P/50Hz)	4950	11.0	340	1.56	3200	(380V/3P/50Hz)	31.3
BLT057-NC	5671	5501	5387	5331	4.5	4	300	4	(220V/1P/50Hz)	4896	11.9	340	1.68	3600	(380V/3P/50Hz)	34.6
BLT061-NC	6083	5901	5779	5718	5.0	3	350	3	(220V/1P/50Hz)	7776	14.3	510	2.34	4800	(380V/3P/50Hz)	38.1
BLT068-NC	6814	6610	6473	6405	5.0	3	350	3	(220V/1P/50Hz)	7776	14.3	510	2.34	4800	(380V/3P/50Hz)	38.9
BLT081-NC	8141	7897	7734	7653	6.7	4	350	3	(220V/1P/50Hz)	7416	13.6	510	2.34	4800	(380V/3P/50Hz)	45.2
BLT091-NC	9147	8873	8690	8598	8.9	4	350	4	(220V/1P/50Hz)	9900	15.2	680	3.12	6400	(380V/3P/50Hz)	58.9
BLT103-NC	10336	10026	9819	9716	8.9	4	350	4	(220V/1P/50Hz)	9900	15.2	680	3.12	6400	(380V/3P/50Hz)	63.0
BLT115-NC	11525	11179	10949	10834	8.3	3	350	5	(220V/1P/50Hz)	12960	17.9	850	3.9	8000	(380V/3P/50Hz)	69.6
BLT124-NC	12439	12066	11817	11693	11.1	4	350	5	(220V/1P/50Hz)	12384	17.0	850	3.9	8000	(380V/3P/50Hz)	77.8

*1 标准SC3工况: -25℃蒸发温度, 库温-18℃, 7 KTD
SC3 Condition:-25℃ evaporating temperature,-18℃ room temperature,7 KTD

*2 标准SC4工况: -31℃蒸发温度, 库温-25℃, 6 KTD
SC4 Condition:-31℃ evaporating temperature,-25℃ room temperature,6 KTD

商用中小型冷风机 - 9000系列 9000-Low Profile

型号 Model	制冷量 Capacity W SC4工况*2				内容积 Internal Volume dm³	盘管 排数 NO. of rows	风机参数 Fan Data							电加热丝 Heaters		重量 Weight (kg)
	R404A	R507A	R448A	R449A			风扇直径 Fan Diam. (mm)	风扇数量 No. of Fan	电源 Power	风量 Air Flow (m³/h)	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power	
BLT012-NC	911	884	856	847	0.8	3	300	1	(220V/1P/50Hz)	1296	6.4	85	0.42	900	(220V/1P/50Hz)	10.8
BLT019-NC	1460	1416	1372	1358	1.5	3	350	1	(220V/1P/50Hz)	2520	8.1	170	0.78	1600	(220V/1P/50Hz)	15.5
BLT022-NC	1709	1658	1606	1589	1.7	3	300	2	(220V/1P/50Hz)	2592	9.1	170	0.84	1800	(220V/1P/50Hz)	17.5
BLT027-NC	2136	2072	2008	1986	2.3	4	300	2	(220V/1P/50Hz)	2488	8.6	170	0.84	1800	(220V/1P/50Hz)	19.5
BLT033-NC	2563	2486	2409	2384	2.5	3	300	3	(220V/1P/50Hz)	3888	11.2	255	1.26	2700	(380V/3P/50Hz)	24.4
BLT038-NC	3055	2963	2872	2841	3.4	4	300	3	(220V/1P/50Hz)	3672	10.6	255	1.26	2700	(380V/3P/50Hz)	26.5
BLT041-NC	3204	3108	3012	2980	3.3	3	350	2	(220V/1P/50Hz)	5040	11.6	340	1.56	3200	(380V/3P/50Hz)	27.0
BLT045-NC	3524	3418	3313	3277	3.4	3	350	2	(220V/1P/50Hz)	5040	11.6	340	1.56	3200	(380V/3P/50Hz)	27.8
BLT051-NC	3987	3867	3748	3708	4.5	4	350	2	(220V/1P/50Hz)	4950	11.0	340	1.56	3200	(380V/3P/50Hz)	31.3
BLT057-NC	4414	4282	4149	4105	4.5	4	300	4	(220V/1P/50Hz)	4896	11.9	340	1.68	3600	(380V/3P/50Hz)	34.6
BLT061-NC	4735	4593	4451	4404	5.0	3	350	3	(220V/1P/50Hz)	7776	14.3	510	2.34	4800	(380V/3P/50Hz)	38.1
BLT068-NC	5304	5145	4986	4933	5.0	3	350	3	(220V/1P/50Hz)	7776	14.3	510	2.34	4800	(380V/3P/50Hz)	38.9
BLT081-NC	6337	6147	5957	5893	6.7	4	350	3	(220V/1P/50Hz)	7416	13.6	510	2.34	4800	(380V/3P/50Hz)	45.2
BLT091-NC	7120	6906	6693	6622	8.9	4	350	4	(220V/1P/50Hz)	9900	15.2	680	3.12	6400	(380V/3P/50Hz)	58.9
BLT103-NC	8046	7805	7563	7483	8.9	4	350	4	(220V/1P/50Hz)	9900	15.2	680	3.12	6400	(380V/3P/50Hz)	63.0
BLT115-NC	8971	8702	8433	8343	8.3	3	350	5	(220V/1P/50Hz)	12960	17.9	850	3.9	8000	(380V/3P/50Hz)	69.6
BLT124-NC	9683	9393	9102	9005	11.1	4	350	5	(220V/1P/50Hz)	12384	17.0	850	3.9	8000	(380V/3P/50Hz)	77.8

低温技术参数

Low Temp Technical Data

(10mm)

型号 Model	制冷量 Capacity W SC3工况*1				翅片 间距 Fin Spacing	内容积 Internal Volume dm³	盘管 排数 NO. of rows	风机参数 Fan Data						电加热丝 Heaters		进液管 Inlet Tube (mm)	吸气管 Suction pipe (mm)	重量 Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)
	R404A	R507A	R448A	R449A				风量 Air Flow (m³/h)	风机 Fan (mm)	电源 Power	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power							
BLT012-NCT	850	825	808	799	10	0.75	3	1296	1 x 300	220V/1P/50Hz	6.4	85	0.42	900	220V/1P/50Hz	12.7	15.9	10.8	440	750	430	-
BLT019-NCT	1370	1329	1302	1288	10	1.5	3	2520	1 x 350	220V/1P/50Hz	8.1	170	0.78	1600	220V/1P/50Hz	12.7	19.1	15.5	540	850	545	-
BLT022-NCT	1620	1571	1539	1523	10	1.7	3	2592	2 x 300	220V/1P/50Hz	9.1	170	0.84	1800	220V/1P/50Hz	12.7	19.1	17.5	845	1155	430	-
BLT027-NCT	2050	1989	1948	1927	10	2.3	4	2448	2 x 300	220V/1P/50Hz	8.6	170	0.84	1800	220V/1P/50Hz	12.7	22.2	19.5	845	1155	430	-
BLT033-NCT	2410	2338	2290	2265	10	2.5	3	3888	3 x 300	220V/1P/50Hz	11.2	255	1.26	2700	380V/3P/50Hz	12.7	22.2	24.4	1250	1560	430	-
BLT038-NCT	2860	2774	2717	2688	10	3.4	4	3672	3 x 300	220V/1P/50Hz	10.6	255	1.26	2700	380V/3P/50Hz	12.7	25.4	26.5	1250	1560	430	-
BLT041-NCT	3020	2929	2869	2839	10	3.3	3	5040	2 x 350	220V/1P/50Hz	11.6	340	1.56	3200	380V/3P/50Hz	12.7	25.4	27	1175	1485	545	-
BLT045-NCT	3290	3191	3126	3093	10	3.4	3	5040	2 x 350	220V/1P/50Hz	11.6	340	1.56	3200	380V/3P/50Hz	12.7	25.4	27.8	1175	1485	545	-
BLT051-NCT	3830	3715	3639	3600	10	4.5	4	4950	2 x 350	220V/1P/50Hz	11.0	340	1.56	3200	380V/3P/50Hz	12.7	25.4	31.3	1175	1485	545	-
BLT057-NCT	4210	4084	4000	3957	10	4.5	4	4896	4 x 300	220V/1P/50Hz	11.9	340	1.68	3600	380V/3P/50Hz	12.7	25.4	34.6	1660	1970	430	-
BLT061-NCT	4460	4326	4237	4192	10	5	3	7776	3 x 350	220V/1P/50Hz	14.3	510	2.34	4800	380V/3P/50Hz	12.7	28.6	38.1	1745	2060	545	-
BLT068-NCT	4970	4821	4722	4672	10	5	3	7776	3 x 350	220V/1P/50Hz	14.3	510	2.34	4800	380V/3P/50Hz	12.7	28.6	38.9	1745	2060	545	-
BLT081-NCT	6060	5878	5757	5696	10	6.7	4	7416	3 x 350	220V/1P/50Hz	13.6	510	2.34	4800	380V/3P/50Hz	15.9	31.8	45.2	1745	2060	545	-
BLT091-NCT	7180	6965	6821	6749	10	8.9	4	9900	4 x 350	220V/1P/50Hz	15.2	680	3.12	6400	380V/3P/50Hz	15.9	34.9	58.9	2320	2630	545	1165
BLT103-NCT	7850	7615	7458	7379	10	8.9	4	9900	4 x 350	220V/1P/50Hz	15.2	680	3.12	6400	380V/3P/50Hz	15.9	41.3	63	1660	1970	545	1165
BLT115-NCT	8240	7993	7828	7746	10	8.3	3	12960	5 x 350	220V/1P/50Hz	17.9	850	3.90	8000	380V/3P/50Hz	15.9	41.3	69.6	2890	3200	545	1735
BLT124-NCT	9220	8943	8759	8667	10	11.1	4	12384	5 x 350	220V/1P/50Hz	17.0	850	3.90	8000	380V/3P/50Hz	15.9	41.3	77.8	2890	3200	545	1735

型号 Model	制冷量 Capacity W SC4工况*2				翅片 间距 Fin Spacing	内容积 Internal Volume dm³	盘管 排数 NO. of rows	风机参数 Fan Data						电加热丝 Heaters		进液管 Inlet Tube (mm)	吸气管 Suction pipe (mm)	重量 Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)
	R404A	R507A	R448A	R449A				风量 Air Flow (m³/h)	风机 Fan (mm)	电源 Power	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power							
BLT012-NCT	680	660	639	632	10	0.75	3	1296	1 x 300	220V/1P/50Hz	6.4	85	0.42	900	220V/1P/50Hz	12.7	15.9	10.8	440	750	430	-
BLT019-NCT	1080	1048	1015	1004	10	1.5	3	2520	1 x 350	220V/1P/50Hz	8.1	170	0.78	1600	220V/1P/50Hz	12.7	19.1	15.5	540	850	545	-
BLT022-NCT	1290	1251	1213	1200	10	1.7	3	2592	2 x 300	220V/1P/50Hz	9.1	170	0.84	1800	220V/1P/50Hz	12.7	19.1	17.5	845	1155	430	-
BLT027-NCT	1610	1562	1513	1497	10	2.3	4	2448	2 x 300	220V/1P/50Hz	8.6	170	0.84	1800	220V/1P/50Hz	12.7	22.2	19.5	845	1155	430	-
BLT033-NCT	1890	1833	1777	1758	10	2.5	3	3888	3 x 300	220V/1P/50Hz	11.2	255	1.26	2700	380V/3P/50Hz	12.7	22.2	24.4	1250	1560	430	-
BLT038-NCT	2340	2270	2200	2176	10	3.4	4	3672	3 x 300	220V/1P/50Hz	10.6	255	1.26	2700	380V/3P/50Hz	12.7	25.4	26.5	1250	1560	430	-
BLT041-NCT	2390	2318	2247	2223	10	3.3	3	5040	2 x 350	220V/1P/50Hz	11.6	340	1.56	3200	380V/3P/50Hz	12.7	25.4	27	1175	1485	545	-
BLT045-NCT	2570	2493	2416	2390	10	3.4	3	5040	2 x 350	220V/1P/50Hz	11.6	340	1.56	3200	380V/3P/50Hz	12.7	25.4	27.8	1175	1485	545	-
BLT051-NCT	2990	2900	2811	2781	10	4.5	4	4950	2 x 350	220V/1P/50Hz	11.0	340	1.56	3200	380V/3P/50Hz	12.7	25.4	31.3	1175	1485	545	-
BLT057-NCT	3320	3220	3121	3088	10	4.5	4	4896	4 x 300	220V/1P/50Hz	11.9	340	1.68	3600	380V/3P/50Hz	12.7	25.4	34.6	1660	1970	430	-
BLT061-NCT	3530	3424	3318	3283	10	5	3	7776	3 x 350	220V/1P/50Hz	14.3	510	2.34	4800	380V/3P/50Hz	12.7	28.6	38.1	1745	2060	545	-
BLT068-NCT	3890	3773	3657	3618	10	5	3	7776	3 x 350	220V/1P/50Hz	14.3	510	2.34	4800	380V/3P/50Hz	12.7	28.6	38.9	1745	2060	545	-
BLT081-NCT	4660	4617	4474	4427	10	6.7	4	7416	3 x 350	220V/1P/50Hz	13.6	510	2.34	4800	380V/3P/50Hz	15.9	31.8	45.2	1745	2060	545	-
BLT091-NCT	5640	5471	5302	5245	10	8.9	4	9900	4 x 350	220V/1P/50Hz	15.2	680	3.12	6400	380V/3P/50Hz	15.9	34.9	58.9	2320	2630	545	1165
BLT103-NCT	6210	6024	5837	5775	10	8.9	4	9900	4 x 350	220V/1P/50Hz	15.2	680	3.12	6400	380V/3P/50Hz	15.9	41.3	63	1660	1970	545	1165
BLT115-NCT	6450	6257	6063	5999	10	8.3	3	12960	5 x 350	220V/1P/50Hz	17.9	850	3.90	8000	380V/3P/50Hz	15.9	41.3	69.6	2890	3200	545	1735
BLT124-NCT	7260	7042	6824	6752	10	11.1	4	12384	5 x 350	220V/1P/50Hz	17.0	850	3.90	8000	380V/3P/50Hz	15.9	41.3	77.8	2890	3200	545	1735

尺寸参数

Dimensions

中温

MT

型号 Model	A	B	C	D	进出口接管尺寸 Connections(mm)	
					供液管 Inlet(mm)	吸气管 Outlet(mm)
BMT021-NC	440	750	430	-	9.5	9.5
BMT026-NC	440	750	430	-	12.7	12.7
BMT035-NC	845	1155	430	-	12.7	12.7
BMT039-NC	540	850	545	-	12.7	15.9
BMT044-NC	845	1155	430	-	12.7	15.9
BMT049-NC	845	1155	430	-	12.7	15.9
BMT059-NC	1175	1485	545	-	12.7	19.1
BMT066-NC	1250	1560	430	-	12.7	19.1
BMT082-NC	1175	1485	545	-	12.7	22.2
BMT087-NC	1660	1970	430	-	12.7	22.2
BMT093-NC	1175	1485	545	-	12.7	22.2
BMT098-NC	1175	1485	545	-	12.7	22.2
BMT105-NC	1660	1970	430	-	12.7	22.2
BMT122-NC	1745	2060	545	-	12.7	25.4
BMT139-NC	1745	2060	545	-	12.7	25.4
BMT158-NC	1745	2060	545	-	12.7	25.4
BMT172-NC	2320	2630	545	1165	15.9	25.4
BMT183-NC	2320	2630	545	1165	15.9	28.6
BMT216-NC	2890	3200	545	1735	15.9	28.6
BMT235-NC	2890	3200	545	1735	15.9	31.8
BMT259-NC	2890	3200	545	1735	15.9	31.8

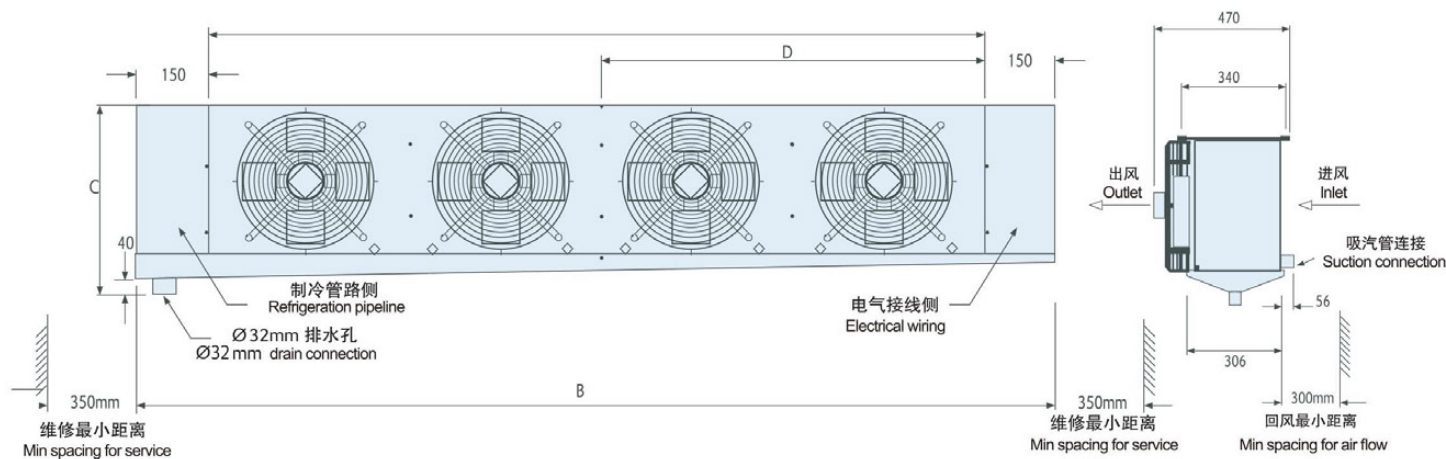
尺寸参数

Dimensions

低温

LT

型号 Model	A	B	C	D	进出口接管尺寸 Connections(mm)	
					供液管 Inlet(mm)	吸气管 Outlet(mm)
BLT019-NC	540	850	545	-	12.7	19.1
BLT022-NC	845	1155	430	-	12.7	19.1
BLT027-NC	845	1155	430	-	12.7	22.2
BLT033-NC	1250	1560	430	-	12.7	22.2
BLT038-NC	1250	1560	430	-	12.7	25.4
BLT041-NC	1175	1485	545	-	12.7	25.4
BLT045-NC	1175	1485	545	-	12.7	25.4
BLT051-NC	1175	1485	545	-	12.7	25.4
BLT057-NC	1660	1970	430	-	12.7	25.4
BLT061-NC	1745	2060	545	-	12.7	28.6
BLT068-NC	1745	2060	545	-	12.7	28.6
BLT081-NC	1745	2060	545	-	15.9	31.8
BLT091-NC	2320	2630	545	1165	15.9	34.9
BLT103-NC	2320	2630	545	1165	15.9	41.3
BLT115-NC	2890	3200	545	1735	15.9	41.3
BLT124-NC	2890	3200	545	1735	15.9	41.3



供液管尺寸说明：供液管，吸气管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定。

Note: Liquid/vapor line dimension is for inlet/outlet line of product, please calculate connection line dimension according to your applicator.

工业型冷风机

HD系列



10  72 kW

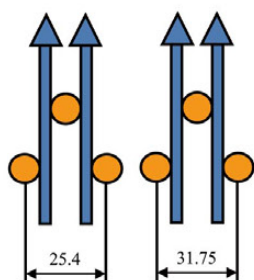
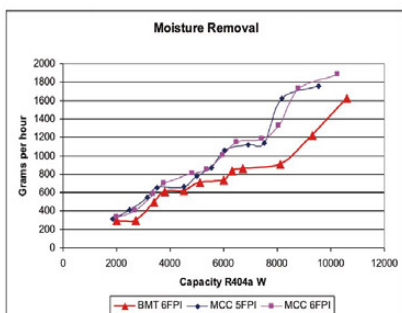


BEIJER REF

Industrial Unit Cooler
HD Series



优势 Advantages



安装

Installation

- 强化支撑脚, 利于运输及吊装。
- Sturdy supports for shipping.

维修/保养

Servicing/Maintenance

- 铰链连接的侧板等, 利于维护。
- Hinged access panel to TXV valve location for ease of service and installation.

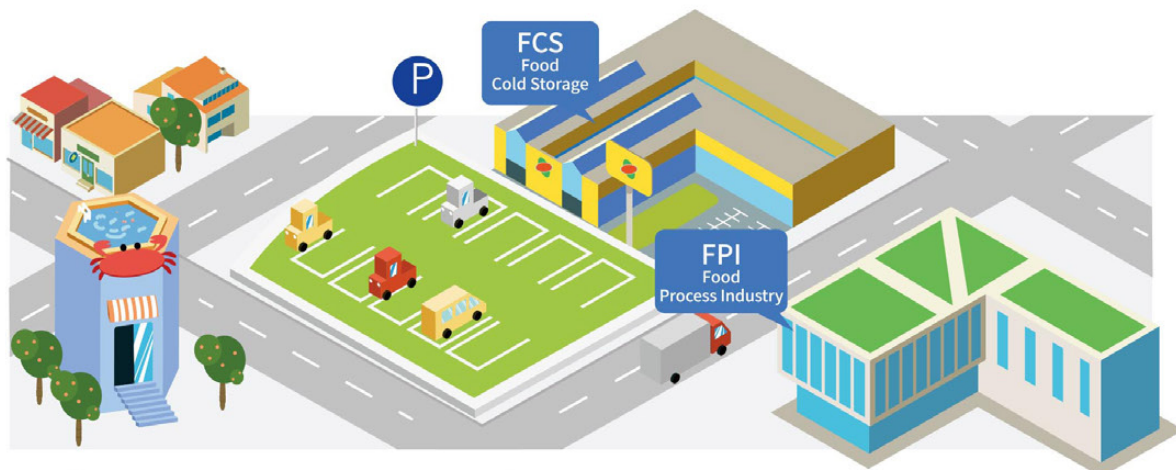


描述

Description

- 传承我司换热器的优良血统, 换热器本身设计、做工精良。
- Beijer Ref's high efficiency heat exchanger incorporated.
- 坚固美观的外形设计, 1.6mm 平铝粉末喷涂外壳。
- Solid and good-looking design, 1.6mm powder coated aluminium casing.
- 全不锈钢螺栓, 防锈设计。
- Stainless steel screws to prevent corrosion.
- 分为中温和低温两个应用范围。专为保存蔬菜, 鲜肉, 常规食品和饮料等典型的商业冷藏及冷冻库而设计。不能用于储藏有害, 腐蚀, 易燃物的冷库, 也不能用于储藏腐蚀易燃化学品的冷库。
- They comprise both 'medium' and 'low' temperature ranges. They are intended for foodstuffs, beverages, etc. They are not intended for environments that may have harmful, corrosive or flammable atmospheres or for the typical commercial sized cool room and freezer applications for the storage of vegetables, fresh meat, general storage of corrosive or flammable chemicals.

市场范围 Market Segments



• 工业 Process Industry

• 冷冻冷藏 Cold Storage

命名规则 Nomenclature

HD系列工业型冷风机
HD SERIES INDUSTRIAL UNIT COOLER

B⁽¹⁾ **HDF**⁽²⁾ **362**⁽³⁾ **H**⁽⁴⁾ **-N**⁽⁵⁾ **HG**⁽⁶⁾

(1) B: 公司名称

(2) C: 中温, 6FPI

F: 低温, 4FPI&2.54FPI

(3) 制冷量 @R134a

(4) H: 带电加热丝除霜

W: 水冲霜

空白: 不带除霜

M: 不锈钢外壳

空白: 喷塑铝板

K: 翅片防腐涂层

(5) N: Freddox 电机或同等品牌

空白: 进口电机

(6) HG: 热气化霜

空白: 标准铝翅片

D: 双层接水盘

空白: 标准接水盘

S: 出口产品

数字: 特殊非标要求

C: 订单代码

(1) B: Beijer Ref

(2) C: MT, 6FPI

F: LT, 4FPI&2.54FPI

(3) Capacity (kW)=362/10

(4) H: Electrical defrost

W: Water Defrost

Blank: Without defrost

M: Stainless steel casing

Blank: Plastics sprayed aluminum

K: Anti-Corrosion Fin

(5) N: Freddox motor or Equivalent Brand

Blank: Import Motor

(6) HG: Hot Gas Defrost

Blank: STD Aluminium Fin

D: Double Drain Trays

Blank: Single Drain Trays

S: Export products

NO: Serial number for special
customise requirements

C: Order Code

注: 低温冷风机配电除霜

Note: Electrical defrost is standard for low temp units.

选项 Options

● 标配 Standard

○ 选配 Optional

× 不提供 N/A

选项 Options	KIRBY	
	BHDC-中温冷风机 BHDC-Medium Temp	BHDF-低温冷风机 BHDF-Low Temp
电机 Motor		
Freddox 电机 Freddox motor	●	●
施乐佰电机 ZIEHL-ABEGG motor	○	○
翅片 Fin		
翅片涂层 (清水铝箔) Fin coating (blue fin)	○	○
翅片涂层 (黑色电泳) * Fin coating (black electrophoresis) *	○	×
外壳 Casing		
喷塑铝板 Plastics sprayed aluminum	●	●
不锈钢 Stainless steel	○	○
除霜方式 Defrost		
电加热丝除霜 Electrical defrost	○	●
热气化霜 (盘管+接水盘) Hot gas defrost (coil & tray)	○	○
水化霜** Water defrost	○	○
翅片片距 Fin spacing		
7FPI(3.63mm)	×	×
6FPI(4.23mm)	●	○
5FPI(5.08mm)	○	○
4FPI(6.35mm)	○	●
2.54FPI(10mm)	○	●
其他 Others		
风机接线 Fan wiring	○	○
电气箱 (IP54) Electrical cabinet (IP54)	○	○
乙二醇 Glycol	○	○
导风筒 VPA	○	○

注：如需其他未列出的配置，请咨询百尔制冷当地代表处。

Note: If need other unlisted configurations, please consult Beijer Ref local representative office.

*不带电加热可选

*Not optional of electal heater

**电伴热可选

**Optional of electal heater

中温技术参数

Medium Temp Technical Data

(片距4.23mm)

型号 Model		制冷量 Capacity W SC2工况*1				内容积 Internal Volume dm³	盘管 排数 No.of rows	风扇 直径 Fan Diam. (mm)	换热 面积 Surface (㎡)	风机参数 (500mm直径) (380伏/3相/50Hz) Fan data(500mm diameter) (380V/3P/50Hz)					电加热丝 Heaters (380V/3P/50Hz)		重量 Weight (kg)	运输 体积 Shipping volume m³
										风扇 数量 No.of fans	风量 Air Flow (m³/h)	送风 距离*3 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (w)			
		R404A	R507A	R448A	R449A													
BHDC66-N	BHDC66H-N*2	10070	9768	9667	9567	9.5	4	500	35.8	1	7056	20	620	1.4	5250	70	1.0	
BHDC92-N	BHDC92H-N	13930	13512	13373	13234	14.6	6	500	53.7	1	6912	20	620	1.4	5250	80	1.0	
BHDC129-N	BHDC129H-N	18460	17906	17722	17537	13.9	3	500	53.7	2	14256	22	1240	2.8	8700	120	1.7	
BHDC144-N	BHDC144H-N	21830	21175	20957	20739	18.9	4	500	71.7	2	14112	22	1240	2.8	8700	130	1.7	
BHDC192-N	BHDC192H-N	29110	28237	27946	27655	29	6	500	107.5	2	13824	22	1240	2.8	8700	155	1.7	
BHDC235-N	BHDC235H-N	35620	34551	34195	33839	36	5	500	134.3	3	20952	24	1860	4.2	13600	205	2.4	
BHDC283-N	BHDC283H-N	42880	41594	41165	40736	43.6	6	500	161.2	3	20772	24	1860	4.2	13600	225	2.4	
BHDC326-N	BHDC326H-N	49550	48064	47568	47073	43.9	5	500	165	4	27972	25	2480	5.6	15320	265	2.9	
BHDC384-N	BHDC384H-N	58210	56464	55882	55300	53.2	6	500	198	4	27684	25	2480	5.6	15320	285	2.9	
BHDC480-N	BHDC480H-N	72860	70674	69946	69217	66.5	6	500	247.5	5	34596	26	3100	7	18280	345	3.3	

*1标准SC2工况: -8℃蒸发温度, 库温0℃, 8KTD
SC2 Condition: -8℃ evaporating temperature, 0℃ room temperature, 8KTD

*2"H"型为带辅助电加热丝的型号
"H" Model with electrical defrost.

*3施乐佰风机+导风筒, 送风距离增加30%。
With ZIEHL-ABEGG fan+VPA, air throw increases 30%.

低温技术参数

Low Temp Technical Data

(片距6.35mm)

型号 Model	制冷量 Capacity W				盘管排数 NO.of rows	风扇 直径 Fan Diam. (mm)	换热 面积 Surface (m²)	内容积 Internal Volume dm³	风机参数 (500mm直径) (380伏/3相/50Hz) Fan data(500mm diameter) (380V/3P/50Hz)					电加热丝 Heaters (380V/3P/50Hz)		重量 Net Weight (kg)	运输 体积 Shipping volume m³
	SC3工况*1								风扇 数量 No.of fans	风量 Air Flow (m³/h)	送风 距离*3 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)			
	R404A	R507A	R448A	R449A													
BHDF56-N	6380	6189	6061	5997	4	500	27.4	9.5	1	7056	18	620	1.4	5250	75	1.0	
BHDF81-N	9170	8895	8712	8620	6	500	41.0	14.6	1	6912	18	620	1.4	5250	85	1.0	
BHDF83-N	9400	9118	8930	8836	3	500	41.0	13.9	2	14256	20	1240	2.8	8700	125	1.7	
BHDF109-N	12410	12038	11790	11665	4	500	54.7	18.9	2	14112	20	1240	2.8	8700	135	1.7	
BHDF141-N	16020	15539	15219	15059	5	500	80.0	24	2	13968	20	1240	2.8	8700	150	1.7	
BHDF161-N	18340	17790	17423	17240	6	500	82.0	29	2	13824	20	1240	2.8	8700	160	1.7	
BHDF198-N	22520	21844	21394	21169	5	500	102.6	36	3	20952	22	1860	4.2	13600	205	2.4	
BHDF236-N	26810	26006	25470	25201	6	500	123.0	43.6	3	20772	22	1860	4.2	13600	230	2.4	
BHDF267-N	30400	29488	28880	28576	5	500	126.0	43.9	4	27996	23	2480	5.6	15320	270	2.85	
BHDF299-N	34000	32980	32300	31960	6	500	151.0	53.2	4	27684	23	2480	5.6	15320	290	2.85	
BHDF362-N	40400	39188	38380	37976	6	500	188.8	66.5	5	34596	24	3100	7	18280	350	3.31	

*1标准SC3工况: -25℃蒸发温度, 库温-18℃, 7KTD。
SC3Condition: -25℃ evaporating temperature, -18℃ room temperature, 7KTD.

*3施乐佰风机+导风筒, 送风距离增加30%。
With ZIEHL-ABEGG fan+VPA, air throw increases 30%.

*2 标准SC4工况: -31℃蒸发温度, 库温-25℃, 6KTD
SC4 Condition: -31℃ evaporating temperature, -25℃ room temperature, 6KTD
由于产品的持续更新和迭代升级, 因此所有技术参数均以实物铭牌值为准。
Due to the continuous upgrade and improving of the products, all the technical information on the catalog may become obsolete and what's showed on the final products' nameplates should be regarded as final and official.

型号 Model	制冷量 Capacity W				盘管排数 NO.of rows	风扇 直径 Fan Diam. (mm)	换热 面积 Surface (㎡)	内容积 Internal Volume dm³	风机参数 (500mm直径) (380伏/3相/50Hz) Fan data(500mm diameter) (380V/3P/50Hz)					电加热丝 Heaters (380V/3P/50Hz)		重量 Net Weight (kg)	运输 体积 Shipping volume m³
	SC4工况*2								风扇 数量 No.of fans	风量 Air Flow (m³/h)	送风 距离*3 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)			
	R404A	R507A	R448A	R449A													
BHDF56-N	4870	4724	4578	4529	4	500	27.4	9.5	1	7056	18	620	1.4	5250	75	1.0	
BHDF81-N	6990	6780	6571	6501	6	500	41.0	14.6	1	6912	18	620	1.4	5250	85	1.0	
BHDF83-N	7170	6955	6740	6668	3	500	41.0	13.9	2	14256	20	1240	2.8	8700	125	1.7	
BHDF109-N	9470	9186	8902	8807	4	500	54.7	18.9	2	14112	20	1240	2.8	8700	135	1.7	
BHDF141-N	12220	11853	11487	11365	5	500	80.0	24	2	13968	20	1240	2.8	8700	150	1.7	
BHDF161-N	13990	13570	13151	13011	6	500	82.0	29	2	13824	20	1240	2.8	8700	160	1.7	
BHDF198-N	17180	16665	16149	15977	5	500	102.6	36	3	20952	22	1860	4.2	13600	205	2.4	
BHDF236-N	20450	19837	19223	19019	6	500	123.0	43.6	3	20772	22	1860	4.2	13600	230	2.4	
BHDF267-N	23190	22494	21799	21567	5	500	126.0	43.9	4	27996	23	2480	5.6	15320	270	2.85	
BHDF299-N	25940	25162	24384	24124	6	500	151.0	53.2	4	27684	23	2480	5.6	15320	290	2.85	
BHDF362-N	30820	29895	28971	28663	6	500	188.8	66.5	5	34596	24	3100	7	18280	350	3.31	

低温技术参数

Low Temp Technical Data

(片距10mm)

型号 Model	制冷量 Capacity W SC3工况*1				翅片 间距 Fin Spacing (mm)	换热 面积 Surface (m²)	内容积 Internal Volume dm³	盘管 排数 NO.of rows	风机参数 Fan Data						电加热丝 Heaters	
	R404A	R507A	R448A	R449A					风量 Air Flow (m³/h)	风机 Fan (mm)	电源 Power	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power
BHDF56-NT	5080	4928	4826	4775	10	17.2	9.5	4	7750	1 x 500	380V/3P/50Hz	18	650	1.40	5250	380V/3P/50Hz
BHDF81-NT	7440	7217	7068	6994	10	25.8	14.6	6	7440	1 x 500	380V/3P/50Hz	18	650	1.40	5250	380V/3P/50Hz
BHDF83-NT	7320	7100	6954	6881	10	25.8	13.9	3	15780	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF109-NT	9780	9487	9291	9193	10	34.4	18.9	4	15500	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF141-NT	12890	12503	12246	12117	10	43.0	24	5	15200	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF161-NT	14920	14472	14174	14025	10	51.6	29	6	14880	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF198-NT	18140	17596	17233	17052	10	64.5	36	5	22800	3 x 500	380V/3P/50Hz	22	1950	4.20	13600	380V/3P/50Hz
BHDF236-NT	21830	21175	20739	20520	10	77.5	43.6	6	22320	3 x 500	380V/3P/50Hz	22	1950	4.20	13600	380V/3P/50Hz
BHDF267-NT	24210	23484	23000	22757	10	79.3	43.9	5	30000	4 x 500	380V/3P/50Hz	23	2600	5.60	15320	380V/3P/50Hz
BHDF299-NT	27460	26636	26087	25812	10	95.1	53.2	6	29280	4 x 500	380V/3P/50Hz	23	2600	5.60	15320	380V/3P/50Hz
BHDF362-NT	33010	32020	31360	31029	10	118.9	66.5	6	36600	5 x 500	380V/3P/50Hz	24	3250	7.00	18280	380V/3P/50Hz

型号 Model	制冷量 Capacity W SC4工况*2				翅片 间距 Fin Spacing (mm)	换热 面积 Surface (m²)	内容积 Internal Volume dm³	盘管 排数 NO.of rows	风机参数 Fan Data						电加热丝 Heaters	
	R404A	R507A	R448A	R449A					风量 Air Flow (m³/h)	风机 Fan (mm)	电源 Power	送风距离 Air Throw (m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率 Total Power (W)	电源 Power
BHDF56-NT	3900	3783	3666	3627	10	17.2	9.5	4	7750	1 x 500	380V/3P/50Hz	18	650	1.40	5250	380V/3P/50Hz
BHDF81-NT	5720	5548	5377	5320	10	25.8	14.6	6	7440	1 x 500	380V/3P/50Hz	18	650	1.40	5250	380V/3P/50Hz
BHDF83-NT	5640	5471	5302	5245	10	25.8	13.9	3	15780	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF109-NT	7550	7324	7097	7022	10	34.4	18.9	4	15500	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF141-NT	9830	9535	9240	9142	10	43.0	24	5	15200	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF161-NT	11380	11039	10697	10583	10	51.6	29	6	14880	2 x 500	380V/3P/50Hz	20	1300	2.80	8700	380V/3P/50Hz
BHDF198-NT	13970	13551	13132	12992	10	64.5	36	5	22800	3 x 500	380V/3P/50Hz	22	1950	4.20	13600	380V/3P/50Hz
BHDF236-NT	16750	16248	15745	15578	10	77.5	43.6	6	22320	3 x 500	380V/3P/50Hz	22	1950	4.20	13600	380V/3P/50Hz
BHDF267-NT	18690	18129	17659	17382	10	79.3	43.9	5	30000	4 x 500	380V/3P/50Hz	23	2600	5.60	15320	380V/3P/50Hz
BHDF299-NT	21110	20477	19843	19632	10	95.1	53.2	6	29280	4 x 500	380V/3P/50Hz	23	2600	5.60	15320	380V/3P/50Hz
BHDF362-NT	25980	25201	24421	24161	10	118.9	66.5	6	36600	5 x 500	380V/3P/50Hz	24	3250	7.00	18280	380V/3P/50Hz

工业型冷风机-HD系列 HD-Industrial Unit Cooler

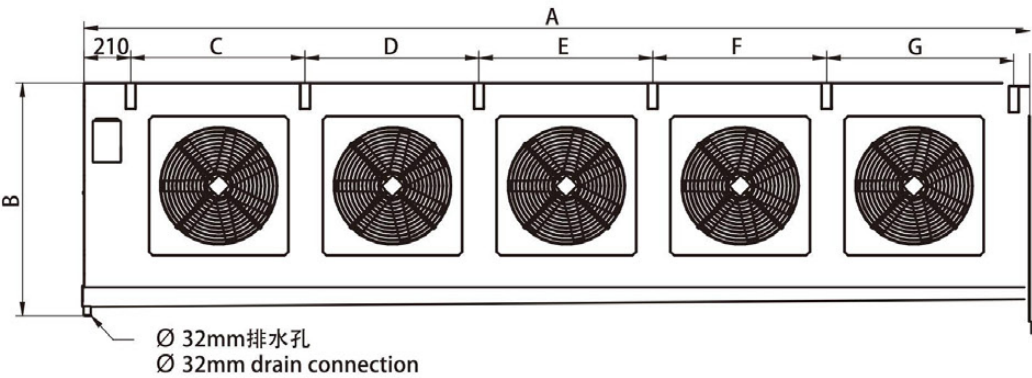
低温技术参数
Low Temp Technical Data

(10mm)

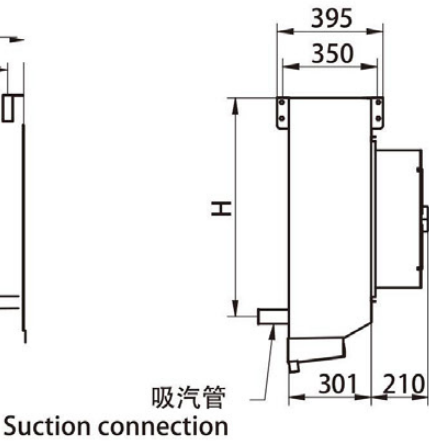
型号 Model	进液管 Inlet Tube (mm)	吸气管 Suction pipe (mm)	重量 Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
BHDF56-NT	12.7	28.6	75	1265	890	980	-	-	-	-	685
BHDF81-NT	25.4	28.6	85	1265	890	980	-	-	-	-	685
BHDF83-NT	25.4	34.9	125	2215	890	950	980	-	-	-	685
BHDF109-NT	31.7	34.9	135	2215	890	950	980	-	-	-	685
BHDF141-NT	31.7	34.9	150	2215	890	950	980	-	-	-	685
BHDF161-NT	38.1	41.3	160	2215	890	950	980	-	-	-	685
BHDF198-NT	38.1	41.3	205	3165	890	950	950	980	-	-	685
BHDF236-NT	38.1	41.3	230	3165	890	950	950	980	-	-	685
BHDF267-NT	38.1	50.8	270	3315	1015	750	750	750	780	-	800
BHDF299-NT	38.1	50.8	290	3315	1015	750	750	750	780	-	800
BHDF362-NT	38.1	50.8	350	4065	1015	750	750	750	750	780	800

尺寸参数
Dimensions

型号 Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	供液管 Inlet(mm)	回汽管 Outlet(mm)	外平衡管接口尺寸 Equalizer Connection (mm)
BHDF56-N BHDC66-N	1265	890	980	—	—	—	—	685	12.7	28.6	6.3
BHDF81-N BHDC92-N	1265	890	980	—	—	—	—	685	25.4	28.6	6.3
BHDF83-N BHDC129-N	2215	890	950	980	—	—	—	685	25.4	34.9	6.3
BHDF109-N BHDC144-N	2215	890	950	980	—	—	—	685	31.7	34.9	6.3
BHDF141-N —	2215	890	950	980	—	—	—	685	31.7	34.9	6.3
BHDF161-N BHDC192-N	2215	890	950	980	—	—	—	685	38.1	41.3	6.3
BHDF198-N BHDC235-N	3165	890	950	950	980	—	—	685	38.1	41.3	6.3
BHDF236-N BHDC283-N	3165	890	950	950	980	—	—	685	38.1	41.3	6.3
BHDF267-N BHDC326-N	3315	1015	750	750	750	780	—	800	38.1	50.8	6.3
BHDF299-N BHDC384-N	3315	1015	750	750	750	780	—	800	38.1	50.8	6.3
BHDF362-N BHDC480-N	4065	1015	750	750	750	750	780	800	38.1	50.8	6.3



供液管尺寸说明：供液管，吸气管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定，N/NT尺寸相同。
Note: Liquid/vapor line dimension is for inlet/outlet line of product please calculate connection line dimension according to your applicator
Setting Unit of the two series are the same.



修正系数 Correction Factors

BHDC

制冷量修正系数与冷风机运行范围

Capacity Factors and Application Limits

蒸发温度SST°C	-10	-8	-6	-4	-2	0	2	4	8	12
修正系数 Correction factors	0.96	1.00	1.03	1.05	1.10	1.14	1.17	1.21	1.29	1.38
最大温差 Max.KTD	8	8	8	9	9	9	8	8	8	7
最小温差 Min.KTD	4	3	3	3	3	3	4	4	4	4

使用限制提示:

Limitations:

在冷库温度低于0°C或蒸发温度低于-4°C时需要使用“H”型号的带电加热型冷风机,在冷风机运行温差超出正常范围时需要改变分液器,请咨询我公司当地代表处
If room temperature below 0°C or evaporating temperature below -4°C, need to use "H" model fan with electric heater. new circuits and/or distributor needed.
If outside max or min KTD, please consult our local representative.

翅片修正系数

Fin Capacity Correction Factors

6FPI	5FPI	4FPI	铝翅片 Aluminum fin	带涂层铝翅片 Coated aluminum fin
1	0.93	0.83	1	0.97

BHDF

制冷量修正系数和冷风机运行范围

Capacity Factors and Application Limits

蒸发温度SST°C	-36	-33	-30	-27	-25	-21	-18	-15	-12
修正系数 Correction factors	0.79	0.85	0.91	0.96	1.00	1.08	1.14	1.22	1.29
最大温差 Max.KTD	8	9	9	9	9	9	9	9	8
最小温差 Min.KTD	4	4	4	3	3	4	4	4	4

使用限制提示:

Limitations:

如果超出正常使用温差范围,需要使用风扇孔加热器。如果超出正常温差范围,建议更换分液器。
Fan perihel heaters required if outside max/min KTD. Distributor change required if outside max/min KTD.

翅片修正系数

Fin Capacity Correction Factors

6FPI	5FPI	4FPI	铝翅片 Aluminum fin	带涂层铝翅片 Coated aluminum fin
1.15	1.08	1	1	0.97

关于修正系数表:

Notes: Capacity factors tables

1. 实际制冷量=标准制冷量×修正系数×实际温差/标准温差。

1. Actual capacity=capacity×factor×actual KTD/KTD at Rated Conditions.

2. 对于标准库温低于-35°C情况的除霜方法,请咨询我公司驻当地代表处。

2. For application below -35°C room temperature, please consult Beijer Ref local representative regarding defrost methods.

3. 所有制冷量计算基于欧洲EUROVENT标准, SC3工况为蒸发温度-25°C, 库温-18°C, 7KTD, SC4工况为蒸发温度-31°C, 库温-25°C, 6KTD。

3. Capacity-based on eurovent standards

SC3 conditions: -25°C SST, -18°C room temperature, 7KTD.

SC4 conditions: -31°C SST, -25°C room temperature, 6KTD.

4. 对于超出这些限制的应用,请咨询我司当地代表处,分液器,管路及除霜特性可能不适合在超出限制的情况下使用。

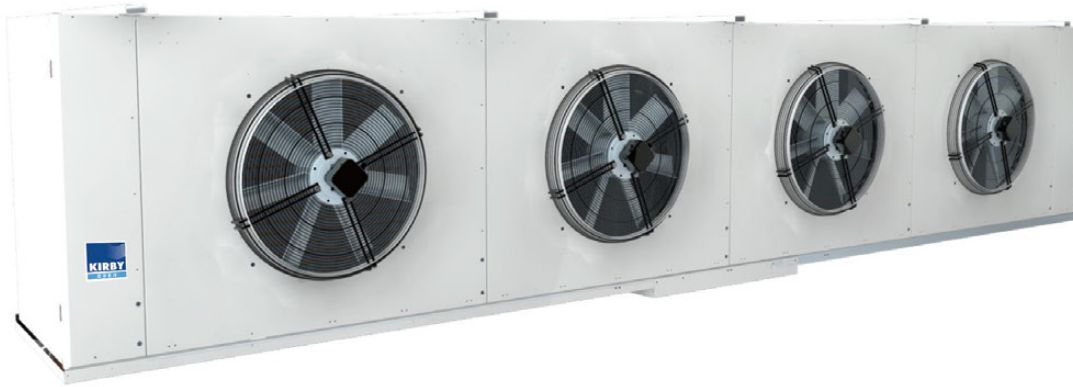
4. For application outside these limits, please consult Beijer Ref local representative, distributors, circuiting and/or defrost characteristics may be unsuitable outside these limits.

5. 不同制冷剂的制冷量修正系数是根据最新的制冷剂生产厂的参数计算出来的,并经过百尔换热器选型程序验证。

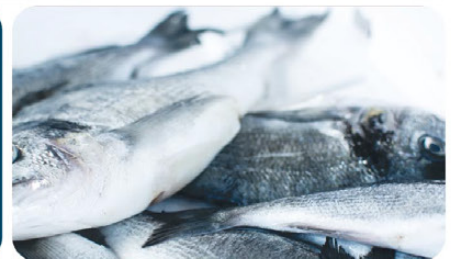
5. Refrigerant capacity factors were calculated using the latest thermodynamic data from the refrigerant manufacturer and the Beijer Ref coil rating program.

工业型冷风机

NKH系列

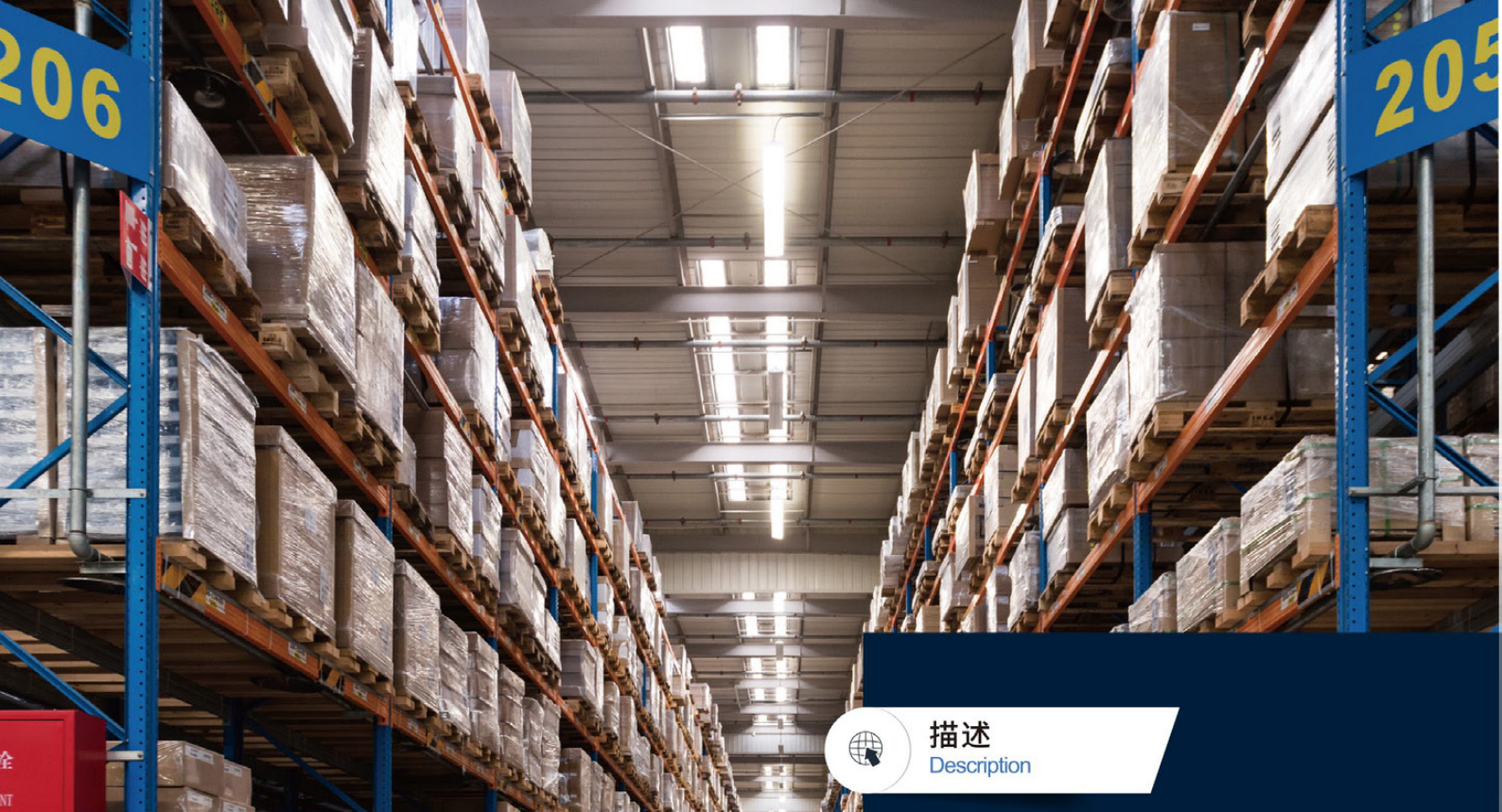


26.5  127.2 kW

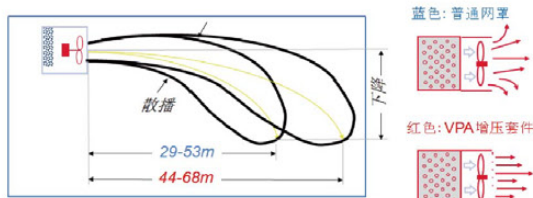
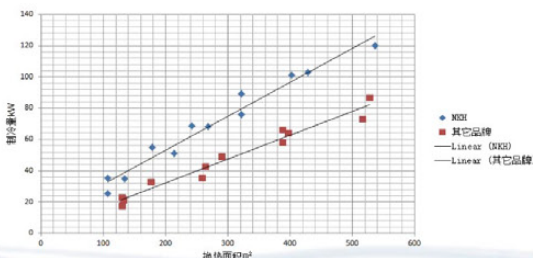


BEIJER REF

Industrial Unit Cooler
NKH Series



优势 Advantages



安装

Installation

- 电气和制冷剂管路安装便捷。
- Electrical and refrigerant connections easily accessible for simple installation.

维修/保养

Servicing/Maintenance

- 镀锌钢板侧板和排水盘采用铰链连接。易维护和清洁。
- The galvanized steel side panels and drain pan are hinge-mounted. Easy accessibility, maintenance and cleaning.
- 外部安装的风扇维护方便。
- External installation of fans offering easy access possible interventions.

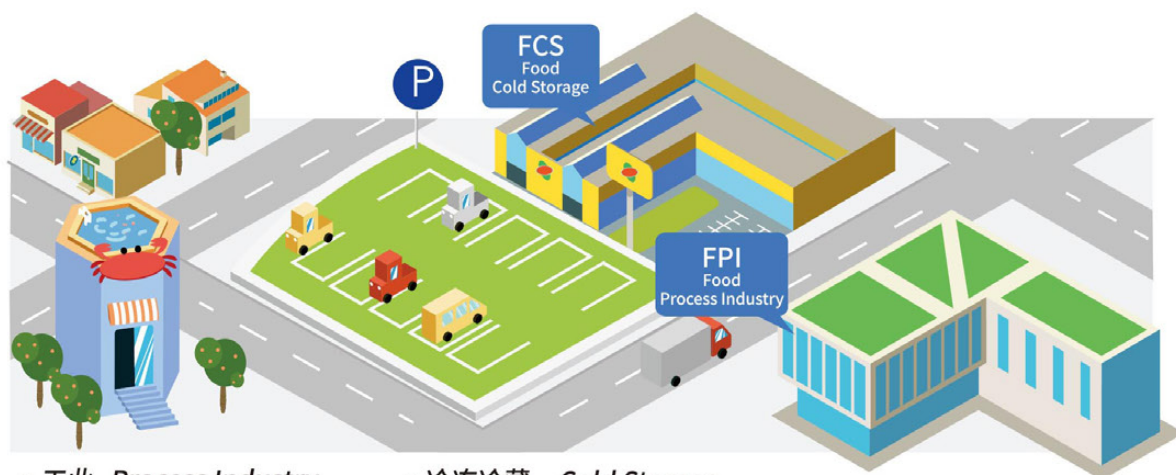


描述

Description

- 外壳采用镀锌钢板，耐腐蚀、抗冲击。内部的铝质排水盘减少主排水盘在除霜过程中结露的影响。
- The casing is made of pre-painted, galvanized steel offering a high resistance to corrosion and impact damage. An internal aluminum drain pan limits the effects of condensation under the main drain pan during the defrost process.
- NKH 系列冷风机采用木包装箱，运输至安装现场。
- The NKH unit coolers are delivered in mounting position in reinforced crates.
- 外转子风机配备符合安全标准的风扇罩。
- The external rotor fans are equipped with fan guards compliant with safety standards.
- NKH 系列有两个风扇类型：
- 2 fan types are used for the NKH range
 - @ 630mm 4 pole 1500 rpm
 - @ 800mm 6 pole 1000 rpm
- 电机是三相型，380V，50Hz，防护等级 IP54，F 级。
- The motors are of the three-phase type, 380v, 50Hz, Ip54, class F.
- 根据冷库的尺寸，选择合适的翅片间距、尺寸、射程的冷风机。
- Selection of a unit cooler with various fan number/diameter combinations offering the dimensional and air throw characteristics best adapted to the size of the cold room.
- NKH 系列的翅片盘管是由间隙 4mm，6mm，9mm 的铝翅片压接在铜管上而成的。
- The finned coils of the NKH range are designed with aluminium fins spaced at 4, 6, 9, crimped onto copper tubes.
- 经济型解决方案优化效率 H 型翅片：这种类型的翅片特别合适包装产品的存放，换热器尺寸小巧，除霜快速。
- 分液器对 R22/R404A 作了优化，如果需要其他的制冷剂产品，请联系我们，在预定注明即可。
- High-efficiency H type fin for an economical solution: This type of fin is particularly suitable for the storage of packed products. The reduced size of the heat-exchanger also enables fast defrosting. The coils are supplied via optimized R22/R404A diaphragm distributor(s). For all other refrigerants, please contact us and specify when ordering.

市场范围 Market Segments



• 工业 Process Industry

• 冷冻冷藏 Cold Storage

命名规则 Nomenclature

NKH系列工业型冷风机
NKH SERIES INDUSTRIAL UNIT COOLER

NKH (1) **3** (2) **x6** (3) **D** (4) **B2** (5) **R** (6) **Y** (7) **-HGT** (8)

(1) 翅片类型

H: 高效翅片

(2) 风机数量1~4

(3) 风机直径φ

6: 630mm 8:800mm

(4) 电机接线类型

D: 三角形链接

(5) 模块

(6) 翅片间距

R: 4mm L/C: 6mm

S: 9mm T:10mm

(7) 空白: R22

Y: R404A/R507

(8) 可选项

SSC不锈钢外壳

HGT: 热气化霜 (盘管和接水盘)

DAE水化霜 (仅R和L)

RVU 面板加热 (必须和电加热化霜一起使用)

M60 60Hz风机

VAP 空气增压套件

EGU 乙二醇溶液

BAE 盘管涂层

CMU 风机全接线

ELU 电加热化霜 (盘管和接水盘)*

*仅R,L系列, C,S,T系列标配电加热化霜

(1) Fin type

H:High-efficiency fin

(2) No.of fans 1~4

(3) Fan Dia φ

6:630mm 8:800mm

(4) Motor connection

D:Delta

(5) Module

(6) Fin spacing

R:4mm L/C:6mm

S:9mm T:10mm

(7) Blank:R22

Y:R404A/R507

(8) Options

Stainless Steel

HGT:Hot Gas Defrost (Coil and drain pan)

DAE Water defrost (Only for R and L)

RVU Sheel defrost heaters(Only using with coil electrical)

M60 Electrical fans 230-400V/3/60Hz

VAP Air pressure shell

EGU Glycol water extension

BAE Paint coil protection

CMU Motors factory wired

ELU Coil electrial defrost (Coil and Drain tray)*

*Only R,L series;C,S,T standard Coil electrical defrost

注: 低温冷风机标配电除霜

Note: Electrical defrost is standard for low temp units.

融霜 Defrost

• NKH...C,NKH...S,NKH...T

电加热元件插在翅片盘管的套管内，接水盘内部放置1到3个电加热器。
加热装置热量均匀从而快速有效的除霜。
加热器与电源接线盒上的380V/3P的接线端子连接。
热气化霜（盘管和接水盘）可供选择。

• NKH...C,NKH...S,NKH...T

The shielded electric heating elements are inserted in sleeves located in the finned coil, 2 or 3 heating elements are placed under the intermediate drain pan.
This facility enables homogenous heat distribution for fast and efficient defrosting.
The heaters are factory connected to a 380V/3 power supply on a terminal block in a junction box.
Total gas defrost (HGT) available as optional extra.

• NKH...R,NKH...L

“低温”电除霜可供选择水除霜可用的房间温度等于或大于+4℃，在这种情况下，冷风机深度增加了40mm。

最大水流量：

1 fan=5 m3/h.-2 fans=10 m3/h.
3 fans=15 m3/h.-4 fans=20 m3/h.

• NKH...R, NKH...L

"Low temperature" electric defrost (ELU) models available as optional extra.
A water defrost (DAE) option is available for room temperature equal to or greater than +4℃.
In this case the unit cooler depth is increased by 40 mm.
Maximum water flow-rate with NK:
1 fan=5 m3/h.-2 fans=10 m3/h.
3 fans=15 m3/h.-4 fans=20 m3/h.



选项 Options

● 标配 Standard ○ 选配 Optional × 不提供 N/A

选项 Options	KIRBY	KIRBY
	NKH...R,...L-中温冷风机 NKH...R,...L-Medium Temp	NKH...C,...S-低温冷风机 NKH...C,...S-Low Temp
电机 Motor		
Freddox 电机 Freddox motor	×	×
EBM 电机 (EC) EBM motor (EC)	×	×
施乐佰电机 ZIEHL-ABEGG motor	●	●
翅片 Fin		
翅片涂层（清水铝箔） Fin coating (blue fin)	○	○
翅片涂层（黑色电泳）* Fin coating (black electrophoresis)*	×	×
外壳 Casing		
镀锌钢板 Pretinned steel	●	●
不锈钢 Stainless steel	○	○
除霜方式 Defrost		
电加热丝除霜 Electrical defrost	○	●
热气化霜（盘管+接水盘） Hot gas defrost (coil & tray)	○	○
水化霜 Water defrost	○	×
面板加热 shell defrost heaters	○	○
翅片片距 Fin spacing		
4mm (...R)	●	×
6mm (...L)	●	×
6mm (...C)	×	●
9mm (...S)	×	●
10mm (...T)	×	●
其他 Others		
风机接线 Fan wiring	○	○
60Hz 风机 Fan 60Hz	○	○
空气增压套件 Air pressure shell	○	○
乙二醇 Glycol	○	○

注：如需其他未列出的配置，请咨询百尔制冷当地代表处。

Note: If need other unlisted configurations, please consult Beijer Ref local representative office.

预选 Pre-Selection

电机Y-△平均修正系数

Average correction factors for standard motors connection in Y instead of △

型号 Model	翅片距离4mm fin spacing 4mm			翅片距离6mm fin spacing 6mm			翅片距离9mm fin spacing 9mm		
	空气流量 Air flow	冷量 Capacity	射程 Air throw	空气流量 Air flow	冷量 Capacity	射程 Air throw	空气流量 Air flow	冷量 Capacity	射程 Air throw
NKH-B1	0.76	0.87	0.76	0.76	0.87	0.76	0.76	0.89	0.76
NKH-B2	0.76	0.86	0.76	0.76	0.85	0.76	0.76	0.87	0.76
NKH-B3	0.76	0.85	0.76	0.76	0.84	0.76	0.76	0.86	0.76
NKH-C1	0.73	0.85	0.73	0.74	0.84	0.74	0.74	0.86	0.74
NKH-C2	0.72	0.82	0.72	0.72	0.82	0.72	0.73	0.85	0.74

声功率水平 Lw

Sound power level Lw

Nb	1 fan		2 fan		3 fan		4 fan	
	D	Y	D	Y	D	Y	D	Y
φ630mm								
dB (A)	90	82	93	85	95	87	96	88
φ800mm								
dB (A)	84	77	87	80	89	82	90	83

修正系数 Correction Factors

R系列			
库温 °C	修正系数 Factors	最大温差 Max.KTD	最小温差 Min.KTD
-5	0.98	12	6
-2	0.99	12	6
0	1	12	6
2	1.07	12	6
4	1.14	12	6
6	1.17	12	6
8	1.17	12	6
10	1.17	12	6

C系列			
库温 °C	修正系数 Factors	最大温差 Max.KTD	最小温差 Min.KTD
-24	0.97	12	6
-22	0.98	12	6
-20	0.99	12	6
-18	1	12	6
-16	1.01	12	6
-14	1.02	12	6
-10	1.04	12	6
-5	1.06	12	6

L系列			
库温 °C	修正系数 Factors	最大温差 Max.KTD	最小温差 Min.KTD
-5	0.98	12	6
-2	0.99	12	6
0	1	12	6
2	1.07	12	6
4	1.14	12	6
6	1.17	12	6
8	1.17	12	6
10	1.17	12	6

S系列			
库温 °C	修正系数 Factors	最大温差 Max.KTD	最小温差 Min.KTD
-30	0.92	12	6
-26	0.92	12	6
-24	0.97	12	6
-22	0.98	12	6
-18	1	12	6
-14	1.02	12	6
-10	1.04	12	6
-5	1.06	12	6

使用限制提示：
Limitations:

当库温低于+2°C时，应使用电除霜或者热气除霜的化霜方式；
If room temperature below +2°C, Unit would launching Default Electrical heater defrost methods or Hot Gas Defrost methods.

当冷风机的运行温差超出正常范围时需要改变分液器，请咨询我公司当地代表处。
The operation of the air cooler needs to change distributor if the temperature beyond the normal range, please consult Beijer Ref local representative.

中温技术参数

Medium Temp Technical Data

(片距4mm)

型号 Model	制冷量 Capacity KW SC2工况*1				内容积 Internal Volume dm³	盘管 排数 NO.of rows	换热 面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	R404A	R507A	R448A	R449A				风扇 数量 No.of fans	风量 Air Flow (m³/h)	送风 距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
1x6 D B3 R	26.4	25.61	25.34	25.08	28.7	8	156.0	1	11650	29	1900	3.2	13800	200
1x8 D C2 R	36.9	35.79	35.42	35.06	35.9	6	195.0	1	17850	35	2000	4.0	13500	270
2x6 D B2 R	47.67	46.24	45.76	45.29	43.1	6	234.0	2	25200	33	3800	6.4	19800	300
3x6 D B1 R	59.47	57.69	57.09	56.50	43.1	4	234.0	3	40950	41	5700	9.6	19500	370
2x8 D C1 R	61.34	59.50	58.89	58.27	47.9	4	260.0	2	39000	39	4000	8.0	17400	420
2x8 D C2 R	72.64	70.46	69.73	69.01	71.8	6	390.0	2	35700	36	4000	8.0	26100	480
3x6 D B2 R	74.34	72.14	71.37	70.62	64.6	6	351.0	3	37800	38	5700	9.6	29250	430
4x6 D B1 R	79.71	77.32	76.52	75.72	55.7	4	312.0	4	54600	46	7600	12.8	25800	480
3x8 D C1 R	81.55	79.10	78.29	77.47	69.6	4	390.0	3	58500	45	6000	12.0	25800	570
4x6 D B2 R	95.24	92.38	91.43	90.48	83.5	6	468.0	4	50400	43	7600	12.8	38700	550
4x6 D B3 R	106.83	103.63	102.56	101.49	111.3	8	623.9	4	46600	40	7600	12.8	51600	630
3x8 D C2 R	107.46	104.24	103.16	102.09	104.3	6	584.9	3	53550	42	6000	12.0	38700	670
4x8 D C2 R	127.18	123.36	122.09	120.82	139.1	6	779.9	4	71400	47	8000	16.0	51300	840

中温技术参数

Medium Temp Technical Data

(片距6mm)

型号 Model	制冷量 Capacity KW SC2工况*1				内容积 Internal Volume dm³	盘管 排数 NO.of rows	换热 面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	R404A	R507A	R448A	R449A				风扇 数量 No.of fans	风量 Air Flow (m³/h)	送风 距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Current (W)	
1x6 D B3 L	25.41	24.65	24.39	24.14	28.7	8	107.4	1	12600	31	1900	3.2	13800	190
1x8 D C2 L	34.39	33.36	33.01	32.67	35.9	6	134.3	1	19200	38	2000	4.0	13500	260
2x6 D B1 L	35.26	34.20	33.85	33.50	28.7	4	107.2	2	28600	37	3800	6.4	13200	260
2x6 D B3 L	50.99	49.46	48.95	48.44	57.5	8	214.4	2	25200	33	3800	6.4	26400	330
2x8 D C1 L	54.64	53.00	52.45	51.91	47.9	4	179.0	2	41300	41	4000	8.0	17400	400
2x8 D C2 L	68.11	66.07	65.39	64.70	71.8	6	268.5	2	38400	38	4000	8.0	26100	460
3x6 D B2 L	68.38	66.33	65.64	64.96	64.6	6	241.2	3	40200	40	5700	9.6	29250	410
3x6 D B3 L	75.77	73.50	72.74	71.98	86.2	8	332.3	3	37800	38	5700	9.6	39000	460
4x6 D B2 L	88.61	85.95	85.07	84.18	83.5	6	322.2	4	53600	46	7600	12.8	38700	530
3x8 D C2 L	100.68	97.66	96.65	95.65	104.3	6	402.8	3	57600	45	6000	12.0	38700	650
4x6 D B3 L	102.39	99.32	98.29	97.27	111.3	8	428.9	4	50400	43	7600	12.8	51600	600
4x8 D C2 L	119.66	116.07	114.87	113.68	139.1	6	536.3	4	76800	50	8000	16.0	51300	800

*φ630mm: 380V/3P/50HZ: △=1900W max-3, 20 Amax-Y=1200 W max-1, 95A max (5)
*φ800mm:380V/3P/50HZ:△=2000W max-4,00 Amax-Y=1250 W max-2,30A max (5)

- (1)残留的空气速度: 0.5米/秒, 符合标准。
(2)电除霜套件。
(3)当电机的星形连接代替三角形连接时需要参考修正系数。

*φ630mm: 380V/3P/50HZ:△=1900W max-3,20 Amax-Y=1200 W max-1,95A max (5)
*φ800mm:380V/3P/50HZ:△=2000W max-4,00 Amax-Y=1250 W max-2,30A max (5)

- (1)Residual air speed :0.5m/s,in compliance with standard.
(2)Electric defrost kit.
(3)For motor connection in star (Y) instead of delta (D),refer to the correction factors.

*1标准SC2工况: -8℃蒸发温度, 库温0℃, 8KTD
*1 SC2 Condition:-8℃ evaporating temperature,0℃ room temperature,8KTD

由于产品的持续更新和迭代升级, 因此所有技术参数均以实物铭牌值为准。
Due to the continuous upgrade and improving of the products,all the technical information on the catalog may become obsolete and what's showed on the final products' nameplates should be regarded as final and official.

低温技术参数

Low Temp Technical Data

(片距6mm)

型号 Model	制冷量 Capacity kW SC3工况*1				内容积 Internal Volume dm³	盘管排数 NO.of rows	换热面积 Surface (m²)	风机参数*3(380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	R404A	R507A	R448A	R449A				风扇数量 No.of fans	风量 Air Flow (m³/h)	送风距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
1x6 D B3 C	19.86	19.26	18.87	18.67	28.7	8	107.4	1	12600	31	1900	3.2	13800	210
1x8 D C2 C	26.02	25.24	24.72	24.46	35.9	6	134.3	1	19200	38	2000	4.0	13500	280
2x6 D B1 C	26.31	25.52	24.99	24.73	28.7	4	107.2	2	28600	37	3800	6.4	13200	290
2x6 D B2 C	34.50	33.47	32.78	32.43	41.3	6	161.1	2	26800	35	3800	6.4	19800	320
2x6 D B3 C	40.23	39.02	38.22	37.82	57.5	8	214.4	2	25200	33	3800	6.4	26400	360
2x8 D C1 C	41.67	40.42	39.59	39.17	47.9	4	179.0	2	41300	41	4000	8.0	17400	440
3x6 D B2 C	51.95	50.39	49.35	48.83	64.6	6	241.2	3	40200	40	5700	9.6	29250	460
3x6 D B3 C	60.50	58.69	57.48	56.87	86.2	8	322.3	3	37800	38	5700	9.6	39000	520
3x8 D C2 C	68.49	66.44	65.07	64.38	104.3	6	402.3	3	57600	45	6000	12.0	38700	700
4x6 D B3 C	70.22	68.11	66.71	66.01	111.3	8	428.9	4	50400	43	7600	12.8	51600	670

低温技术参数

Low Temp Technical Data

(片距9mm)

型号 Model	制冷量 Capacity kW SC3工况*1				内容积 Internal Volume dm³	盘管排数 NO.of rows	换热面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	R404A	R507A	R448A	R449A				风扇数量 No.of fans	风量 Air Flow(m³/h)	送风距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
1x6 D B3 S	17.84	17.30	16.95	16.77	28.7	8	74.9	1	13400	33	1900	3.2	13800	210
2x6 D B1 S	22.44	21.77	21.32	21.09	28.7	4	74.9	2	29600	38	3800	6.4	13200	280
1x8 D C2 S	22.92	22.23	21.77	21.54	35.9	6	93.6	1	20150	39	2000	4.0	13500	280
2x8 D C1 S	35.27	34.21	33.51	33.15	47.9	4	124.8	2	42800	43	4000	8.0	17400	430
2x6 D B3 S	36.08	35.00	34.28	33.92	57.5	8	149.8	2	26800	35	3800	6.4	26400	360
2x8 D C2 S	40.85	39.62	38.81	38.40	71.8	6	187.2	2	40300	40	4000	8.0	26100	480
3x6 D B2 S	45.47	44.11	43.20	42.74	64.6	6	168.5	3	42150	42	5700	9.6	29250	450
3x8 D C1 S	45.80	44.43	43.51	43.05	69.6	4	187.2	3	64200	50	6000	12.0	25800	590
3x6 D B3 S	54.36	52.73	51.64	51.10	86.2	8	224.7	3	40200	40	5700	9.6	39000	510
3x8 D C2 S	60.62	58.80	57.59	56.98	104.3	6	280.8	3	60450	47	6000	12.0	38700	670
4x6 D B3 S	63.76	61.85	60.57	59.93	111.3	8	299.5	4	53600	46	7600	12.8	51600	640
4x8 D C2 S	76.19	73.90	72.38	71.62	139.1	6	374.4	4	80600	53	8000	16.0	51300	860

*3接管尺寸与S相同，尺寸通用。
*3 Nozzle size is common with S.

型号 Model	制冷量 Capacity kW SC4工况*2				内容积 Internal Volume dm³	盘管排数 NO.of rows	换热面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	R404A	R507A	R448A	R449A				风扇数量 No.of fans	风量 Air Flow(m³/h)	送风距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
1x6 D B3 S	14.10	13.68	13.25	13.11	28.7	8	74.9	1	13400	33	1900	3.2	13800	210
2x6 D B1 S	17.57	17.04	16.52	16.34	28.7	4	74.9	2	29600	38	3800	6.4	13200	280
1x8 D C2 S	18.02	17.48	16.94	16.76	35.9	6	93.6	1	20150	39	2000	4.0	13500	280
2x8 D C1 S	27.08	26.97	26.13	25.85	47.9	4	124.8	2	42800	43	4000	8.0	17400	430
2x6 D B3 S	28.56	27.70	26.85	26.56	57.5	8	149.8	2	26800	35	3800	6.4	26400	360
2x8 D C2 S	31.45	30.51	29.56	29.25	71.8	6	187.2	2	40300	40	4000	8.0	26100	480
3x6 D B2 S	35.82	34.75	33.67	33.31	64.6	6	168.5	3	42150	42	5700	9.6	29250	450
3x8 D C1 S	35.01	33.96	32.91	32.56	69.6	4	187.2	3	64200	50	6000	12.0	25800	590
3x6 D B3 S	43.07	41.78	40.49	40.06	86.2	8	224.7	3	40200	40	5700	9.6	39000	510
3x8 D C2 S	46.63	45.23	43.83	43.37	104.3	6	280.8	3	60450	47	6000	12.0	38700	670
4x6 D B3 S	49.19	47.71	46.24	45.75	111.3	8	299.5	4	53600	46	7600	12.8	51600	640
4x8 D C2 S	57.79	56.06	54.32	53.74	139.1	6	374.4	4	80600	53	8000	16.0	51300	860

低温技术参数
Low Temp Technical Data

(片距 10mm)

型号 Model	制冷量 Capacity kW				内容积 Internal Volume dm³	盘管排数 NO.of rows	换热面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	SC3工况*1							风扇数量 No.of fans	风量 Air Flow(m³/h)	送风距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
	R404A	R507A	R448A	R449A										
1x6 D B3 T	16.88	16.37	16.04	15.87	28.7	8	68.594	1	13400	33	1900	3.2	13800	210
2x6 D B1 T	20.95	20.32	19.90	19.69	28.7	4	68.594	2	29600	38	3800	6.4	13200	280
1x8 D C2 T	21.64	20.99	20.56	20.34	35.9	6	85.742	1	20150	39	2000	4.0	13500	280
2x8 D C1 T	32.81	31.83	31.17	30.84	47.9	4	114.326	2	42800	43	4000	8.0	17400	430
2x6 D B3 T	34.12	33.10	32.41	32.07	57.5	8	137.188	2	26800	35	3800	6.4	26400	360
2x8 D C2 T	38.70	37.54	36.77	36.38	71.8	6	171.489	2	40300	40	4000	8.0	26100	480
3x6 D B2 T	42.73	41.45	40.59	40.17	64.6	6	154.34	3	42150	42	5700	9.6	29250	450
3x8 D C1 T	43.46	42.16	41.29	40.85	69.6	4	171.487	3	64200	50	6000	12.0	25800	590
3x6 D B3 T	51.40	49.86	48.83	48.32	86.2	8	205.787	3	40200	40	5700	9.6	39000	510
3x8 D C2 T	57.51	55.78	54.63	54.06	104.3	6	257.231	3	60450	47	6000	12.0	38700	670
4x6 D B3 T	60.73	58.91	57.69	57.09	111.3	8	274.381	4	53600	46	7600	12.8	51600	640
4x8 D C2 T	71.87	69.71	68.28	67.56	139.1	6	342.978	4	80600	53	8000	16.0	51300	860

*φ630mm: 380V/3P/50HZ: △=1900W max-3, 20 Amax-Y=1200 W max-1, 95A max (5)
*φ800mm:380V/3P/50HZ:△=2000W max-4,00 Amax-Y=1250 W max-2,30A max (5)

(1)残留的空气速度: 0.5米/秒, 符合标准。
(2)电除霜套件。
(3)当电机的星形连接代替三角形连接时需要参考修正系数。

*φ630mm: 380V/3P/50HZ: △=1900W max-3, 20 Amax-Y=1200 W max-1, 95A max (5)
*φ800mm:380V/3P/50HZ:△=2000W max-4,00 Amax-Y=1250 W max-2,30A max (5)

(1)Residual air speed :0.5m/s,in compliance with standard.
(2)Electric defrost kit.
(3)For motor connection in star (Y) instead of delta (D),refer to the correction factors.

*1标准SC3工况: -25°C蒸发温度, 库温-18°C, 7KTD
*1 SC3 Condition:-25°C evaporating temperature,-18°C room temperature,7KTD
*2标准SC4工况: -31°C蒸发温度, 库温-25°C, 6KTD
*2 SC4 Condition:-31°C evaporating temperature,-25°C room temperature,6KTD

由于产品的持续更新和迭代升级, 因此所有技术参数均以实物铭牌值为准。
Due to the continuous upgrade and improving of the products,all the technical information on the catalog may become obsolete and what' s showed on the final products' nameplates should be regarded as final and official.

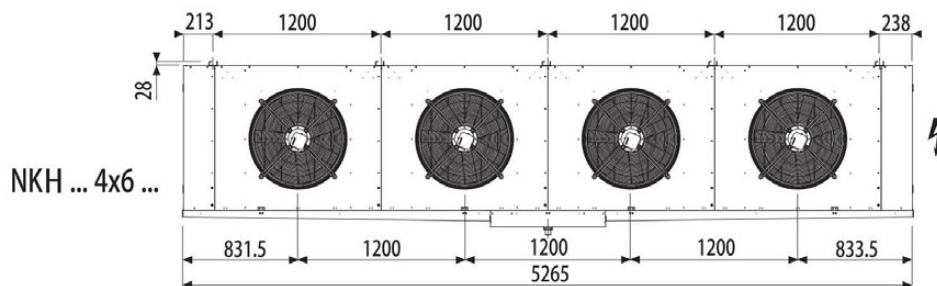
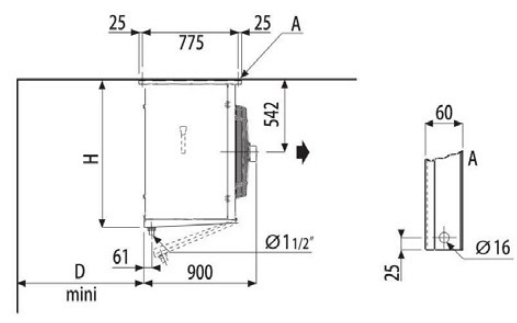
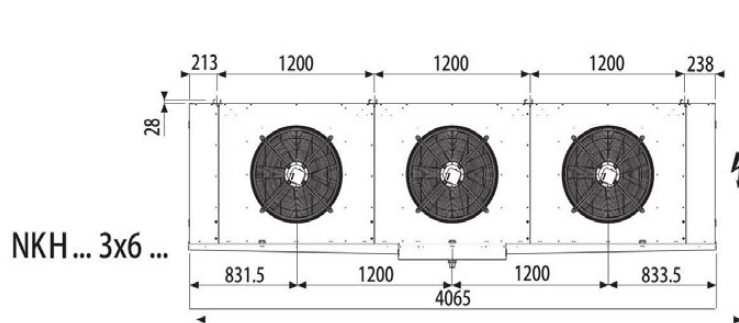
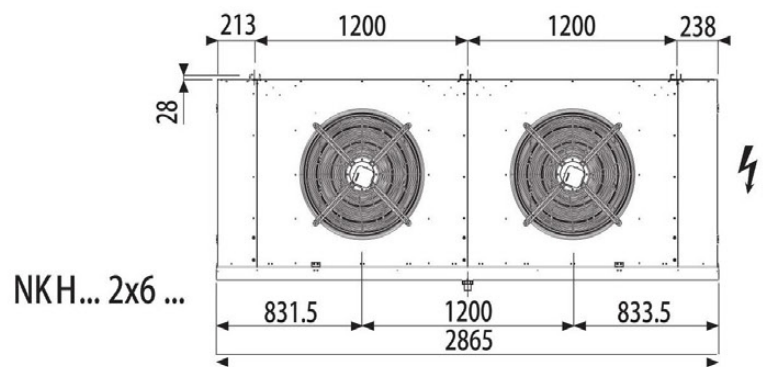
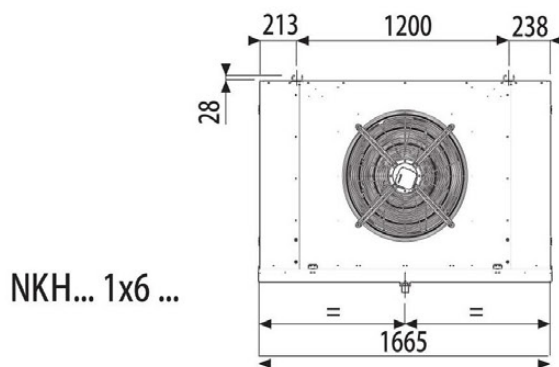
型号 Model	制冷量 Capacity kW				内容积 Internal Volume dm³	盘管排数 NO.of rows	换热面积 Surface (m²)	风机参数*3 (380伏/3相/50Hz) Fan data(380V/3P/50Hz)					电加热丝*2 Heaters (380V/3P/50Hz)	重量 Net Weight (kg)
	SC4工况*2							风扇数量 No.of fans	风量 Air Flow(m³/h)	送风距离*1 Air Throw(m)	总功率 Total Power (W)	总电流 Total Current (A)	总功率W Total Power (W)	
	R404A	R507A	R448A	R449A										
1x6 D B3 T	13.39	12.99	12.59	12.45	28.7	8	68.594	1	13400	33	1900	3.2	13800	210
2x6 D B1 T	16.45	15.96	15.46	15.30	28.7	4	68.594	2	29600	38	3800	6.4	13200	280
1x8 D C2 T	17.06	16.55	16.04	15.87	35.9	6	85.742	1	20150	39	2000	4.0	13500	280
2x8 D C1 T	25.96	25.18	24.40	24.14	47.9	4	114.326	2	42800	43	4000	8.0	17400	430
2x6 D B3 T	27.11	26.30	25.48	25.21	57.5	8	137.188	2	26800	35	3800	6.4	26400	360
2x8 D C2 T	30.02	29.12	28.22	27.92	71.8	6	171.489	2	40300	40	4000	8.0	26100	480
3x6 D B2 T	33.54	32.53	31.53	31.19	64.6	6	154.34	3	42150	42	5700	9.6	29250	450
3x8 D C1 T	32.79	31.81	30.82	30.49	69.6	4	171.487	3	64200	50	6000	12.0	25800	590
3x6 D B3 T	40.87	39.64	38.42	38.01	86.2	8	205.787	3	40200	40	5700	9.6	39000	510
3x8 D C2 T	44.61	43.27	41.93	41.49	104.3	6	257.231	3	60450	47	6000	12.0	38700	670
4x6 D B3 T	47.19	45.77	44.36	43.89	111.3	8	274.381	4	53600	46	7600	12.8	51600	640
4x8 D C2 T	55.77	54.10	52.42	51.87	139.1	6	342.978	4	80600	53	8000	16.0	51300	860

尺寸参数

Dimensions

φ630mm

型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm
	供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm	
1×6D B3 R	28.6	41.3	47.6	1×6D B3 L	28.6	41.3	47.6	1×6D B3 C	28.6	54.0	47.6	1×6D B3 S	28.6	54.0	47.6
2×6D B2 R	34.9	54.0	47.6	2×6D B1 L	34.9	54.0	47.6	2×6D B1 C	34.9	54.0	47.6	2×6D B1 S	34.9	54.0	47.6
3×6D B1 R	41.3	54.0	47.6	2×6D B3 L	41.3	54.0	47.6	2×6D B2 C	41.3	66.7	47.6	2×6D B3 S	34.9	66.7	47.6
3×6D B2 R	2×34.9	2×54.0	47.6	3×6D B2 L	2×34.9	2×54.0	47.6	2×6D B3 C	41.3	66.7	47.6	3×6D B2 S	2×28.6	2×54.0	47.6
4×6D B1 R	2×41.3	2×54.0	47.6	3×6D B3 L	41.3	66.7	47.6	3×6D B2 C	2×34.9	2×54.0	47.6	3×6D B3 S	2×34.9	2×54.0	47.6
4×6D B2 R	2×34.9	2×54.0	47.6	4×6D B2 L	2×34.9	2×54.0	47.6	3×6D B3 C	2×41.3	2×54.0	47.6	4×6D B3 S	2×41.3	2×66.7	47.6
4×6D B3 R	2×41.3	2×54.0	47.6	4×6D B3 L	2×41.3	2×54.0	47.6	4×6D B3 C	2×41.3	2×66.7	47.6	—	—	—	—



风机数量 Motor Qty	D	H
1	550	1115
2	700	1115
3	800	1158
4	850	1158

供液管尺寸说明：供液管，吸汽管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定。

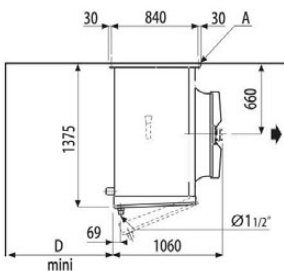
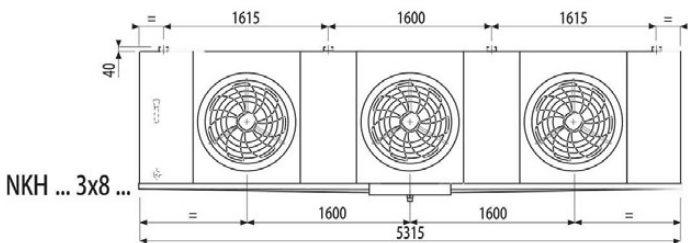
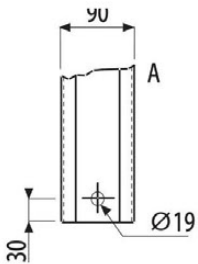
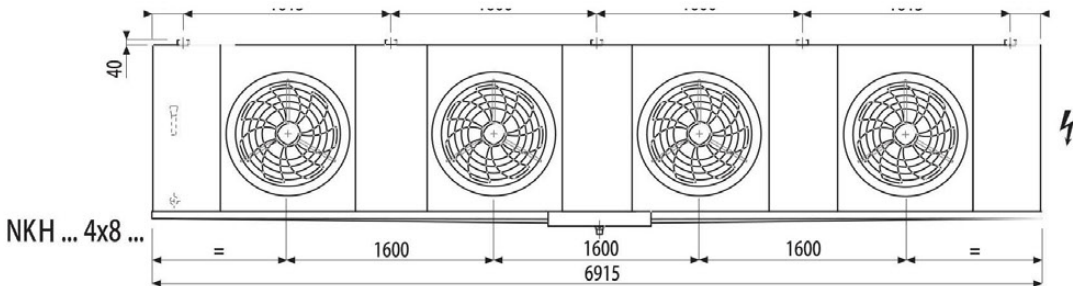
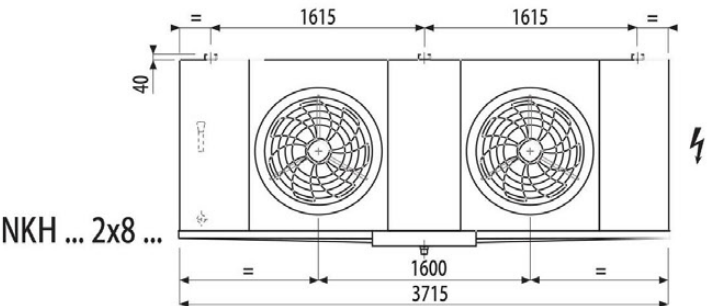
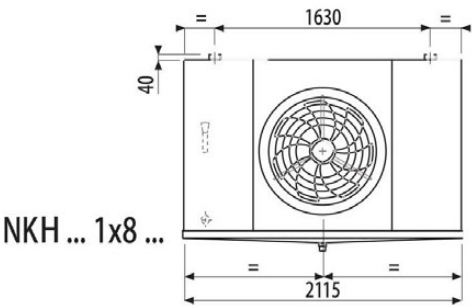
Note: Liquid/vapor line dimension is for inlet/outlet line of product, please calculate connection line dimension according to your applicator.

尺寸参数

Dimensions

φ800mm

型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm	型号 NKH Model	进出口接管尺寸 Connections		排水管 Drain tube mm
	供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm			供液管mm Inlet mm	吸汽管mm Outlet mm	
1×8D C2 R	34.9	54.0	47.6	1×8D C2 L	34.9	54.0	47.6	1×8D C2 C	34.9	54.0	47.6	1×8D C2 S	34.9	54.0	47.6
2×8D C1 R	41.3	66.7	47.6	2×8D C1 L	41.3	54.0	47.6	2×8D C1 C	41.3	66.7	47.6	2×8D C1 S	41.3	66.7	47.6
2×8D C2 R	41.3	66.7	47.6	2×8D C2 L	41.3	66.7	47.6	3×8D C2 C	2×41.3	2×66.7	47.6	2×8D C2 S	41.3	66.7	47.6
3×8D C1 R	41.3	66.7	47.6	3×8D C2 L	2×41.3	2×54.0	47.6	—	—	—	—	3×8D C1 S	41.3	66.7	47.6
3×8D C2 R	2×41.3	2×54.0	47.6	4×8D C2 L	2×41.3	2×54.0	47.6	—	—	—	—	3×8D C2 S	2×41.3	2×54	47.6
4×8D C2 R	2×41.3	2×66.7	47.6	—	—	—	—	—	—	—	—	4×8D C2 S	2×41.3	2×66.7	47.6



风机数量 Motor Qty	D
1	700
2	900
3	1000
4	1050

供液管尺寸说明：供液管，吸汽管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定。
Note: Liquid/vapor line dimension is for inlet/outlet line of product, please calculate connection line dimension according to your applicator.

百尔制冷

BEIJER REF
China

NK9E工业型冷风机
NK9E Industrial Unit Cooler

产品样册
PRODUCT CATALOGUE



型号 Model	制冷量 Capacity kW Sc2工况				翅片间距 Fin Interval	换热面积 Surface	内容积 Internal Volume	盘管 排数 NO of rows	风量 Air Flow	风机 Fan data	送风 距离 Air Throw	电源 Electrical	电机 总功率 Motor Total Power	电机 总电流 Motor Total Current	电加热丝 Heaters	电加热丝总功率 Heaters Total Power	供液管 Liquid Line	吸气管 Suction Line	重量 Weight
单位 Unit	R404A	R507A	R448A	R449A	mm	m²	dm³	--	m³/h	mm	m	--	W	A	--	W	mm	mm	kg
NKH1X9E D1R	38.24	37.09	36.71	36.33	4	157.0	28.8	4	25100	1x910	51	380V/3P/50Hz	2579	4.98	380V/3P	10500	28.6	41.3	320
NKH1X9E D3R	51.06	49.53	49.02	48.51	4	314.0	57.6	8	20800	1x910	42	380V/3P/50Hz	2579	4.98	380V/3P	19500	34.9	50.8	410
NKH2X9E D1R	77.39	75.07	74.29	73.52	4	314.0	57.6	4	50200	2x910	57	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	570
NKH2X9E D3R	103.20	100.10	99.07	98.04	4	628.0	115.2	8	41600	2x910	47	380V/3P/50Hz	5158	9.96	380V/3P	37700	41.3	66.7	750
NKH3X9E D1R	116.56	113.06	111.90	110.73	4	471.0	86.4	4	75300	3x910	59	380V/3P/50Hz	7737	14.94	380V/3P	30100	41.3	79.4	820
NKH3X9E D3R	155.31	150.65	149.10	147.54	4	942.0	172.8	8	62400	3x910	49	380V/3P/50Hz	7737	14.94	380V/3P	55900	41.3	92.1	1090
NKH4X9E D3R	207.13	200.92	198.84	196.77	4	1256.0	230.4	8	83200	4x910	51	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1420

型号 Model	制冷量 Capacity kW Sc2工况				翅片间距 Fin Interval	换热面积 Surface	内容积 Internal Volume	盘管 排数 NO of rows	风量 Air Flow	风机 Fan data	送风 距离 Air Throw	电源 Electrical	电机 总功率 Motor Total Power	电机 总电流 Motor Total Current	电加热丝 Heaters	电加热丝总功率 Heaters Total Power	供液管 Liquid Line	吸气管 Suction Line	重量 Weight
单位 Unit	R404A	R507A	R448A	R449A	mm	m²	L	--	m³/h	mm	m	--	W	A	--	W	mm	mm	kg
NKH1X9E D1L	31.96	31.00	30.68	30.36	6	107.9	28.8	4	26600	1x910	55	380V/3P/50Hz	2579	4.98	380V/3P	10500	28.6	41.3	310
NKH1X9E D3L	47.40	45.98	45.50	45.03	6	215.8	57.6	8	22800	1x910	47	380V/3P/50Hz	2579	4.98	380V/3P	19500	34.9	50.8	380
NKH2X9E D1L	64.41	62.48	61.83	61.19	6	215.8	57.6	4	53200	2x910	60	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	540
NKH2X9E D2L	82.84	80.35	79.53	78.70	6	323.7	86.4	6	49000	2x910	56	380V/3P/50Hz	5158	9.96	380V/3P	29000	41.3	66.7	610
NKH2X9E D3L	95.39	92.53	91.57	90.62	6	431.6	115.2	8	45600	2x910	51	380V/3P/50Hz	5158	9.96	380V/3P	37700	41.3	66.7	680
NKH3X9E D2L	124.55	120.81	119.57	118.32	6	485.6	129.6	6	73500	3x910	58	380V/3P/50Hz	7737	14.94	380V/3P	30100	41.3	79.4	880
NKH3X9E D3L	143.38	139.08	137.64	136.21	6	647.4	172.8	8	68400	3x910	53	380V/3P/50Hz	7737	14.94	380V/3P	55900	41.3	92.1	990
NKH4X9E D3L	185.34	179.78	177.93	176.07	6	863.2	230.4	8	91200	4x910	57	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1290

型号 Model	制冷量 Capacity kW Sc3工况				翅片间距 Fin Interval	换热面积 Surface	内容积 Internal Volume	盘管 排数 NO of rows	风量 Air Flow	风机 Fan data	送风 距离 Air Throw	电源 Electrical	电机 总功率 Motor Total Power	电机 总电流 Motor Total Current	电加热丝 Heaters	电加热丝总功率 Heaters Total Power	供液管 Liquid Line	吸气管 Suction Line	重量 Weight
单位 Unit	R404A	R507A	R448A	R449A	mm	m²	L	--	m³/h	mm	m	--	W	A	--	W	mm	mm	kg
NKH1X9E D1C	23.91	23.19	22.71	22.48	6	107.9	28.8	4	26600	1x910	55	380V/3P/50Hz	2579	4.98	380V/3P	10500	28.6	41.3	310
NKH1X9E D3C	36.20	35.11	34.39	34.03	6	215.8	57.6	8	22800	1x910	47	380V/3P/50Hz	2579	4.98	380V/3P	19500	34.9	50.8	380
NKH2X9E D1C	47.56	46.13	45.18	44.71	6	215.8	57.6	4	53200	2x910	60	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	540
NKH2X9E D2C	61.96	60.10	58.86	58.24	6	323.7	86.4	6	49000	2x910	56	380V/3P/50Hz	5158	9.96	380V/3P	29000	41.3	66.7	610
NKH2X9E D3C	73.58	71.37	69.90	69.17	6	431.6	115.2	8	45600	2x910	51	380V/3P/50Hz	5158	9.96	380V/3P	37700	41.3	66.7	680
NKH3X9E D2C	93.53	90.72	88.85	87.92	6	485.6	129.6	6	73500	3x910	58	380V/3P/50Hz	7737	14.94	380V/3P	30100	41.3	79.4	880
NKH3X9E D3C	110.96	107.63	105.41	104.30	6	647.4	172.8	8	68400	3x910	53	380V/3P/50Hz	7737	14.94	380V/3P	55900	41.3	92.1	990
NKH4X9E D3C	138.21	134.06	131.30	129.92	6	863.2	230.4	8	91200	4x910	57	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1290

*1标准SC2工况:-8℃蒸发温度, 库温0℃, 8KTD
*1 SC2 Condition:-8℃ evaporating temperature,0℃ room temperature,8KTD

*1标准SC3工况:-25℃蒸发温度, 库温-18℃, 7KTD
*1 SC3 Condition:-25℃ evaporating temperature,-18℃ room temperature,7KTD
*2标准SC4工况:-31℃蒸发温度, 库温-25℃, 6KTD
*2 SC4 Condition:-31℃ evaporating temperature,-25℃ room temperature,6KTD

由于产品的持续更新和迭代升级,因此所有技术参数均以实物铭牌值为准。
Due to the continuous upgrade and improving of the products,all the technical informationon the catalog may become obsolete and what's showed on the final products' nameplates should be regarded as final and official.

型号 Model	制冷量 Capacity kW SC3工况				翅片间距 Fin Interval	换热面积 Surface	内容积 Internal Volume	盘管 排数 NO of rows	风量 Air Flow	风机 Fan data	送风 距离 Air Throw	电源 Electrical	电机 总功率 Motor Total Power	电机 总电流 Motor Total Current	电加热丝 Heaters	电加热丝总功率 Heaters Total Power	供液管 Liquid Line	吸气管 Suction Line	重量 Weight
单位 Unit	R404A	R507A	R448A	R449A	mm	m ²	dm ³	--	m ³ /h	mm	m	--	W	A	--	W	mm	mm	kg
NKH1X9E D3S	33.61	32.60	31.93	31.59	9	150.3	57.6	8	24400	1x910	50	380V/3P/50Hz	2579	4.98	380V/3P	19500	34.9	50.8	370
NKH2X9E D1S	43.28	41.98	41.12	40.68	9	150.3	57.6	4	55400	2x910	62	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	540
NKH2X9E D2S	57.09	55.38	54.24	53.66	9	225.5	86.4	6	51800	2x910	58	380V/3P/50Hz	5158	9.96	380V/3P	29000	41.3	66.7	600
NKH2X9E D3S	66.61	64.61	63.28	62.61	9	300.6	115.2	8	48800	2x910	56	380V/3P/50Hz	5158	9.96	380V/3P	37700	41.3	66.7	670
NKH3X9E D2S	85.98	83.40	81.68	80.82	9	338.2	129.6	6	77700	3x910	60	380V/3P/50Hz	7737	14.94	380V/3P	30100	41.3	79.4	870
NKH3X9E D3S	100.32	97.31	95.30	94.30	9	450.9	172.8	8	73200	3x910	58	380V/3P/50Hz	7737	14.94	380V/3P	55900	41.3	92.1	970
NKH4X9E D3S	127.87	124.03	121.48	120.20	9	601.2	230.4	8	97600	4x910	60	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1270

型号 Model	制冷量 Capacity kW SC4工况				翅片间距 Fin Interval	换热面积 Surface	内容积 Internal Volume	盘管 排数 NO of rows	风量 Air Flow	风机 Fan data	送风 距离 Air Throw	电源 Electrical	电机 总功率 Motor Total Power	电机 总电流 Motor Total Current	电加热丝 Heaters	电加热丝总功率 Heaters Total Power	供液管 Liquid Line	吸气管 Suction Line	重量 Weight
单位 Unit	R404A	R507A	R448A	R449A	mm	m ²	dm ³	--	m ³ /h	mm	m	--	W	A	--	W	mm	mm	kg
NKH1X9E D3S	26.16	25.38	24.59	24.33	9	150.3	57.6	8	24400	1x910	50	380V/3P/50Hz	2579	4.98	380V/3P	19500	34.9	50.8	370
NKH2X9E D1S	32.93	31.94	30.95	30.62	9	150.3	57.6	4	55400	2x910	62	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	540
NKH2X9E D2S	43.85	42.53	41.22	40.78	9	225.5	86.4	6	51800	2x910	58	380V/3P/50Hz	5158	9.96	380V/3P	29000	41.3	66.7	600
NKH2X9E D3S	53.18	51.58	49.99	49.46	9	300.6	115.2	8	48800	2x910	56	380V/3P/50Hz	5158	9.96	380V/3P	37700	41.3	66.7	670
NKH3X9E D2S	66.19	64.20	62.22	61.56	9	338.2	129.6	6	77700	3x910	60	380V/3P/50Hz	7737	14.94	380V/3P	30100	41.3	79.4	870
NKH3X9E D3S	80.19	77.78	75.38	74.58	9	450.9	172.8	8	73200	3x910	58	380V/3P/50Hz	7737	14.94	380V/3P	55900	41.3	92.1	970
NKH4X9E D3S	94.43	91.60	88.76	87.82	9	601.2	230.4	8	97600	4x910	60	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1270

*1标准SC2工况:-8℃蒸发温度, 库温0℃, 8KTD

*1 SC2 Condition:-8℃ evaporating temperature, 0℃ room temperature, 8KTD

*1标准SC3工况:-25℃蒸发温度, 库温-18℃, 7KTD

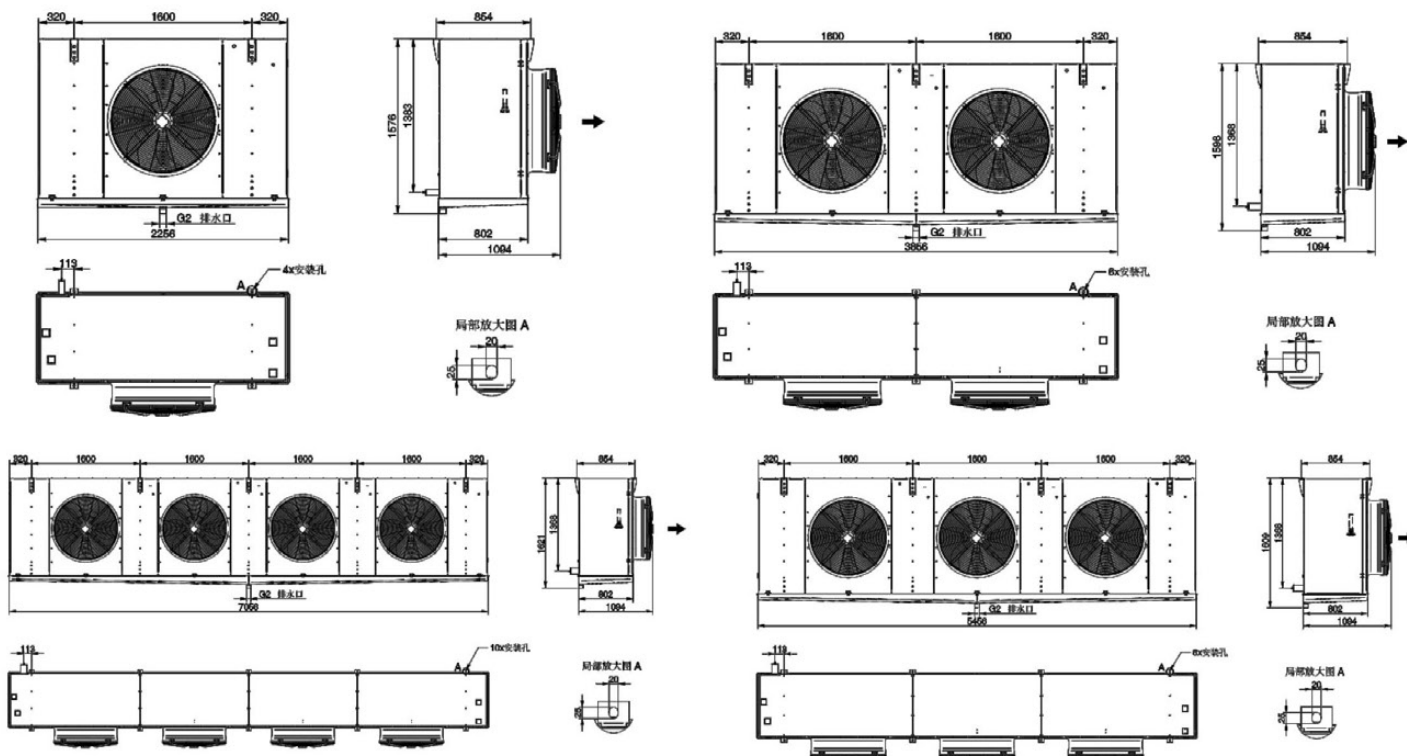
*1 SC3 Condition:-25℃ evaporating temperature, -18℃ room temperature, 7KTD

*2标准SC4工况:-31℃蒸发温度, 库温-25℃, 6KTD

*2 SC4 Condition:-31℃ evaporating temperature, -25℃ room temperature, 6KTD

由于产品的持续更新和迭代升级,因此所有技术参数均以实物铭牌值为准。

Due to the continuous upgrade and improving of the products, all the technical information on the catalog may become obsolete and what's showed on the final products' nameplates should be regarded as final and official.



商用双出风型冷风机

TA系列



2 19.5 kW



BEIJER REF

Commercial Dual Blow Unit Cooler
TA Series



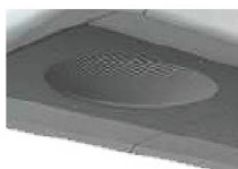
优势 Advantages



静音节能
Silent and Economy



圆角设计
Rounded Corner



整体型风罩
Integral Fan Hood



描述

Description

- 吊顶安装的 TA 系列双出风型冷风机是专门为食品加工准备间、各类包装间、实验室、冷库而设计的静音冷风机。
- The ceiling mountd TA Dual Blow Unit Cooler is a kind of silent cooler designed specifically for food processing room, packing room, laboratory and cold storage.
- 总共有14种类型，高温型温度范围（翅片间隔3.63mm）以及中温型温度范围（翅片间隔 6.35mm）。
- Totally it has 14 models covering both high temperature range (3.63mm fin spacing) and medium temperature range (6.35 mm fin spacing).
- 风口直径统一为Φ350m，均为全封闭电机。
- Uniform 350mm outlet diameter hermetic fan.
- 壳体为 ABS 工程塑料，整体型风罩，圆角设计，防腐处理，坚固美观，耐热冲击。
- ABS engineering plastic casing,rounded corner,integral fan hood and anti-corrosion treatment create solid good-looking exterior and thermal shock resistance.
- 中间的排水盘能够防止壳体上产生冷凝。
- An intermediate drain pan avoids condensation on the casing.specify when ordering.

市场范围 Market Segments



- 大型商超 Supermarket
- 食品加工间 Processing Room
- 准备间 Packing Room

命名规则 Nomenclature

商用双出风型冷风机
TA COMMERCIAL DUAL BLOW UNIT COOLER

TA 1R₍₁₎ 6P₍₂₎ -H₍₃₎ C₍₄₎

(1) 1R: 1: 序号

R: 高温.片距3.63mm

L: 中温.片距6.35mm

(2) 6P: 电机极数

6P: 6极电机

(3) H: 带电加热丝除霜

空白: 无除霜

N: Freddox

(4) C: 订单代码

(1) 1: Series No.

R: High Temp. Fin spacing 3.63mm

L: Medium Temp. Fin spacing 6.35mm

(2) 6P: Number of Poles

6P: 6 Poles motor

(3) H: Elec. Defrost

Blank: Without defrost

N: Freddox

(4) C: Order Code

注: 低温冷风机标配电除霜。

Note: Electrical defrost is standard for low temp units.

修正系数 Correction Factors

双出风冷风机标准工况

Dual Blow unit coolers standard conditions

标准型号 Models	tA1进风温度 (°C) tA1 Inlet temperature(°C)	te蒸发温度 (°C) te SST(°C)	标准温差TD1 (K) Standard TD1(K)
TA...R 6P	+10	0	10
TA...L 6P	0	-8	8

翅片材料系数

Fin Material Correction Factors

铝翅片 Aluminum fin	带涂层铝翅片 Coated Aluminum fin
1	0.97

注: 实际制冷量=标准制冷量X修正系数X实际温差/标准温差。

Note: Actual capacity = capacity X factor X actual KTD / KTD at Rated Conditions.

选项 Options

● 标配 Standard

○ 选配 Optional

× 不提供 N/A

选项 Options	BOHN	KIRBY
	TAR-高温冷风机 TAR-High Temp	TAL-中温冷风机 TAL-Medium Temp
电机 Motor		
Freddox电机 Freddox motor	●	●
EBM电机 (EC) EBM motor(EC)	×	×
FMV电机 FMV motor	×	×
施乐佰电机 ZIEHL-ABEGG motor	○	○
翅片 Fin		
翅片涂层 (清水铝箔) Fin coating (blue fin)	○	○
翅片涂层 (黑色电泳) Fin coating(black electrophoresis)	×	×
外壳 Casing		
ABS工程塑料 ABS	●	●
喷塑铝板 Plastics sprayed aluminum	×	×
不锈钢 Stainless steel	×	×
除霜方式 Defrost		
电加热丝除霜 Electrical defrost	○	●
热气化霜 (盘管) Hot gas defrost(coil)	○	○
水化霜 Water defrost	×	×
翅片片距 Fin spacing		
7FPI (3.63mm)	●	○
6FPI (4.23mm)	○	○
5FPI (5.08mm)	○	○
4FPI (6.35mm)	○	●
其他 Others		
风机接线 Fan wiring	●	●
电气箱 (IP54) Electrical cabinet(IP54)	×	×

注：如需其他未列出的配置，请咨询百尔制冷当地代表处。

Note: If need other unlisted configurations, please consult Beijer Ref local representative office.

技术参数

Technical Data

(片距3.63mm)

型号 Model	制冷量 kW@SC1				内容积 Internal Volume	换热 面积 Surface	风机参数 Fan data					电加热丝 (可选) Heaters(option) (220V/1P/50Hz)	净重 Net weight	声压级 Sound pressure level
							(220伏/ 1相/ 50Hz)			(220V/1P/ 50Hz)				总功率 Total power
	R404	R507A	R448A	R449A			风扇数量 No.of fans 350mm直径	风量 Air Flow	射程 Air throw	总功率 Total power	总电流 Total current	Lp 4m		
TA.R 6P	kW	kW	kW	kW	dm³	m²	No.	m³/h	m	W	A max	W	kg	dB(A)
1	3.93	3.81	3.81	3.77	2.23	15.23	1	1310	7	1X68	1X0.30	800	22	29
2	6.09	5.91	5.91	5.85	2.23	15.23	2	2910	7	2X68	2X0.30	800	28.3	32
3	7.46	7.24	7.24	7.16	3.35	22.84	2	2750	7	2X68	2X0.30	1200	31	32
4	8.06	7.82	7.82	7.74	4.46	30.45	2	2615	7	2X68	2X0.30	1600	33.6	32
5	11.26	10.92	10.92	10.81	5.02	34.26	3	4125	7	3X68	3X0.30	1800	37.4	34
6	13.21	12.81	12.81	12.68	8.36	57.10	3	3765	6	3X68	3X0.30	3000	45.7	34
7	16.32	15.83	15.83	15.67	8.92	60.91	4	5230	7	4X68	4X0.30	3200	60.9	35

标准工况为：
进风温度tA1=10°C 蒸发温度te=0°C 标准温差TD1=10K 风机参数：350mm直径，1000RPM，220V/1P/50Hz Lp4m：距离产品4m测试结果

Standard condition:
Air inlet temperature=10°C Evaporating temperature=0°C Standard temperature difference=10K
Fan data:350mm Diameter,1000RPM,220V/1P/50Hz. LP4m:Average sound pressure level in dB(A) measured at 4m, at fan height.

技术参数

Technical Data

(片距6.35mm)

型号 Model	制冷量 kW@SC2				内容积 Internal Volume	换热 面积 Surface (m ²)	风机参数 Fan data					电加热丝（可选） Heaters(option) (220V/1P/50Hz)	净重 Net weight	声压级 Sound pressure level
							(220伏/ 1相/ 50Hz)			(220V/1P/ 50Hz)				总功率 Total power
	R404	R507A	R448A	R449A			风扇数量 No.of fans 350mm直径	风量 Air Flow	射程 Air throw	总功率 Total power	总电流 Total current			
TA.L 6P	kW	kW	kW	kW	dm ³	m ²	No.	m ³ /h	m	W	A max	W	kg	dB(A)
1	2.38	2.31	2.28	2.26	2.79	11.33	1	1330	7	1X68	1X0.30	800	23.3	29
2	3.86	3.75	3.71	3.67	3.35	13.60	2	2875	7	2X68	2X0.30	800	25.9	32
3	4.48	4.35	4.30	4.26	4.46	18.13	2	2760	7	2X68	2X0.30	1200	29	32
4	4.89	4.75	4.69	4.65	5.58	22.66	2	2660	7	2X68	2X0.30	1600	34	32
5	5.51	5.35	5.29	5.23	5.02	20.40	3	4315	7	3X68	3X0.30	1800	38.5	34
6	7.70	7.48	7.39	7.32	8.36	33.99	3	3990	7	3X68	3X0.30	3000	47.4	34
7	9.82	9.52	9.43	9.33	11.15	45.32	4	5315	7	4X68	4X0.30	3200	57.5	35

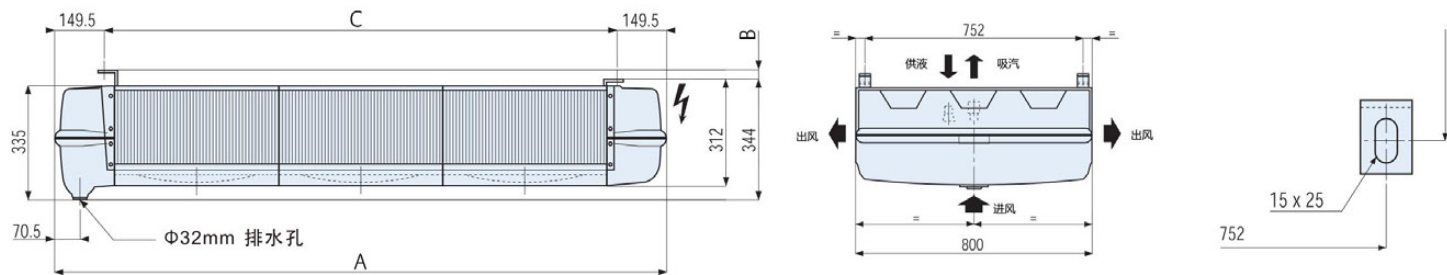
标准工况为：
进风温度tA1=0°C 蒸发温度te=-8°C 标准温差TD1=8K 风机参数：350mm直径，1000RPM，220V/1P/50Hz Lp4m：距离产品4m测试结果

Standard condition:
Air inlet temperature=0°C Evaporating temperature=-8°C Standard temperature difference=8K
Fan data:350mm Diameter,1000RPM,220V/1P/50Hz. LP4m:Average sound pressure level in dB(A) measured at 4m, at fan height.

尺寸参数
Dimensions

标注 Label	TA	1	2	3	4	5	6	7
A	mm	866	1366	1366	1366	1866	1866	2366
B	mm	17.5	17.5	17.5	17.5	35	35	35
C	mm	560	1060	1060	1060	1560	1560	2060
供液管 Inlet	mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
吸气管 Outlet	mm	15.88	15.88	22.22	22.22	22.22	28.58	28.58

尺寸图
Dimensions



供液管尺寸说明：供液管，吸气管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定。
Note:Liquid/vapor line dimension is for inlet/outlet line of product,please calculate connection line dimension according to your applicator.

工业型双出风冷风机

GTA系列



22.5  67.3kW



BEIJER REF

Industrial Dual Blow Unit Cooler
GTA Series



优势 Advantages



安装

Installation

- GTA 系列设计了简单可移动的操作门 ①, 直接方便的对电器控制部分和制冷管路部分进行操作。
- GTA are equipped with easily removable doors ①, thus providing easy access to electrical and coolant connections.

维修/维护

Servicing/Maintenance

- 在 GTA 风机维护过程中, 由于排水盘采用铰链连接, 清理时无 ② 需拆除, 使风机的维护更为便捷。
- For all work on the GTA, access to the drain pans does not require removal of the recovery vessel ② rendering maintenance work easier.
- 风扇单元用铰链固定在机组上 ③, 使维修工作更方便。
- The fan units are mounted on an articulated panel ③ rendering maintenance work easier.



描述

Description

- GTA 系列外壳采用白色喷粉的镀锌钢板。
- GTA casing is made of white pre-painted galvanized steel.
- GTA 系列采用铰链式双排水盘, 冷凝水可通过双排水管排出。
- On the GTA each removable drain pan fixed by hinge. The condensate water is evacuated via 2 large dimension drain pipes.
- 可拆卸式端盖, 利于维护和安装。
- GTA series are foreseen with removable end covers for easy maintenance and installation.
- GTA 系列选用Φ630mm, 380V/3P/50Hz 风机满足送风要求, 风机数量 2-4 个可选。
- The GTA unit cooler is equipped with fans Φ630 mm, 380V/3P/50 Hz, Qty. 2-4.
- GTA 系列标配直接膨胀式盘管, 乙二醇盘管可非标定制。
- The GTA series are equipped with two new coil configurations optimized for direct expansion and option glycol water applications.
- 总共有 9 个型号, 翅片间距 4.23mm。
- Totally GTA series have 9 models are composed of aluminum fins with a spacing of 4.23mm.

市场范围 Market Segments



- 大型商超 Supermarket

命名规则 Nomenclature

GTA系列工业型冷风机
GTA SERIES INDUSTRY UNIT COOLER

B₍₁₎ **GTA**₍₂₎ **36**₍₃₎ **R**₍₄₎ **6**₍₅₎ **-H**₍₆₎ **Z**₍₇₎ **S**₍₈₎

(1) 公司名称	(1) Beijer Ref
(2) GTA系列	(2) GTA Series
(3) 模块	(3) Module
(4) R: 翅片间距 4.23mm	(4) R: Fin spacing 4.23mm
(5) 6极电机	(5) 6P Motor
(6) H: 电加热化霜 (盘管+接水盘)	(6) H: Electric defrost(coil+drain pan)
M: 不锈钢外壳	M: Stainless Steel
D: 隔热双接水盘	D: Insulated double drain pan
(7) 空白: 50Hz	(7) Blank : 50Hz
Z: 60Hz	Z: 60Hz
(8) 空白: 国内型号	(8) Blank : Domestic products
S: 出口型号	S: Export products



选项 Options

● 标配 Standard

○ 选配 Optional

× 不提供 N/A

选项 Options	KIRBY GTA
电机 Motor	
Freddox电机 Freddox motor	×
EBM电机 (AC) EBM motor(AC)	○
施乐佰电机 ZIEHL-ABEGG motor	●
翅片 Fin	
翅片涂层 (清水铝箔) Fin coating (blue fin)	○
翅片涂层 (黑色电泳) Fin coating(black electrophoresis)	○
外壳 Casing	
镀锌钢板 Galvanized steel plain sheet	●
不锈钢 Stainless steel	○
接水盘 Drain pan	
隔热双接水盘 Insulated double drain pan	○
除霜方式 Defrost	
电加热化霜 (盘管+接水盘) Electrical defrost(coil+drain pan)	○
热气化霜 (盘管热气化霜+接水盘电化霜) Hot gas defrost(coil using hot gas defrost + drain pan using Electrical defrost)	○
水化霜 Water defrost	×
翅片片距 Fin spacing	
6FPI (4.23mm)	●
其他 Others	
风机接线 Fan wiring	○

注：盘管电加热和翅片黑色电泳不可同时选配。
如需其他未列出的配置，请咨询百尔制冷当地代表处。

Note:The coil electrical heating and black electrophoresis fin coating can not be used together.
If need other unlisted configurations, please consult Beijer Ref local representative office.



技术参数

Technical Data

(片距4.23mm)

型号 Model	换热 面积 Surface	内容积 Internal Volume	盘管 排数 No. of Rows	风机参数 Fan data					射程 Air throw	风量 Air Flow	制冷量 SC2 工况 *1 Capacity kW				电加热丝 (可选) Heaters (option) (380V/3P/50Hz)
				风扇直径 Fan diam	风扇数量 No.of fans	风机电机 接线方式 (380V/3P/50Hz) Fan-motor Connection (380V/3P/50Hz)	总功率 Total power	总电流 Total current							
BGTA...R6	m²	dm³	-	mm	-	D=三角形连接 Y=星形连接 D=Delta Connection Y=Star Connection	W	A	m	m³/h	R404A	R507A	R448A	R449A	Power.W
BGTA24R 6	130	25.2	4	630	2	D	1200	2.40	2X12	17770	27.1	26.3	26.0	25.8	13500
						Y	800	1.36	2X10	13770	23.5	22.8	22.6	22.3	
BGTA26R 6	195	37.8	6	630	2	D	1200	2.40	2X11	16780	30.9	30.0	29.7	29.4	13500
						Y	800	1.36	2X9	12750	26.2	25.4	25.2	24.9	
BGTA28R 6	260	50.4	8	630	2	D	1200	2.40	2X10	15920	34.7	33.7	33.3	33.0	13500
						Y	800	1.36	2X8	11930	28.8	27.9	27.7	27.4	
BGTA34R 6	195	37.8	4	630	3	D	1800	3.60	2X12	26650	40.1	38.9	38.5	38.1	20700
						Y	1200	2.04	2X10	20540	34.8	33.8	33.4	33.1	
BGTA36R 6	292	56.7	6	630	3	D	1800	3.60	2X11	25180	49.7	48.2	47.7	47.2	20700
						Y	1200	2.04	2X9	19130	41.5	40.3	39.8	39.4	
BGTA38R 6	390	75.7	8	630	3	D	1800	3.60	2X10	23880	52.3	50.7	50.2	49.7	20700
						Y	1200	2.04	2X8	17900	43.1	41.8	41.4	41.0	
BGTA44R 6	260	50.4	4	630	4	D	2400	4.80	2X12	35540	54.7	53.1	52.5	52.0	27000
						Y	1600	2.72	2X10	27390	47.1	45.7	45.2	44.8	
BGTA46R 6	390	75.7	6	630	4	D	2400	4.80	2X11	33570	62.1	60.2	59.6	59.0	27000
						Y	1600	2.72	2X9	25510	52.8	51.2	50.7	50.2	
BGTA48R 6	520	100.9	8	630	4	D	2400	4.80	2X10	31840	70.2	68.1	67.4	66.7	27000
						Y	1600	2.72	2X8	23860	57.8	56.1	55.5	54.9	

*1标准工况SC2:

进风温度=0℃，蒸发温度=-8℃，温差=8K

风机参数：Φ630mm风扇直径，三角形连接890r/min，星形连接690r/min

Standard condition SC2:

Air inlet temperature=0℃ Evaporating temperature=-8℃ Standard temperature difference=8K

Fan data: Φ630mm Delta connection 890r/min Star connection 690r/min

由于产品的持续更新和迭代升级，因此所有技术参数均以实物铭牌值为准。

Due to the continuous upgrade and improving of the products,all the technical information on the catalog may become obsolete and what's showed on the final products' nameplates should be regarded as final and official.

修正系数 Correction Factors

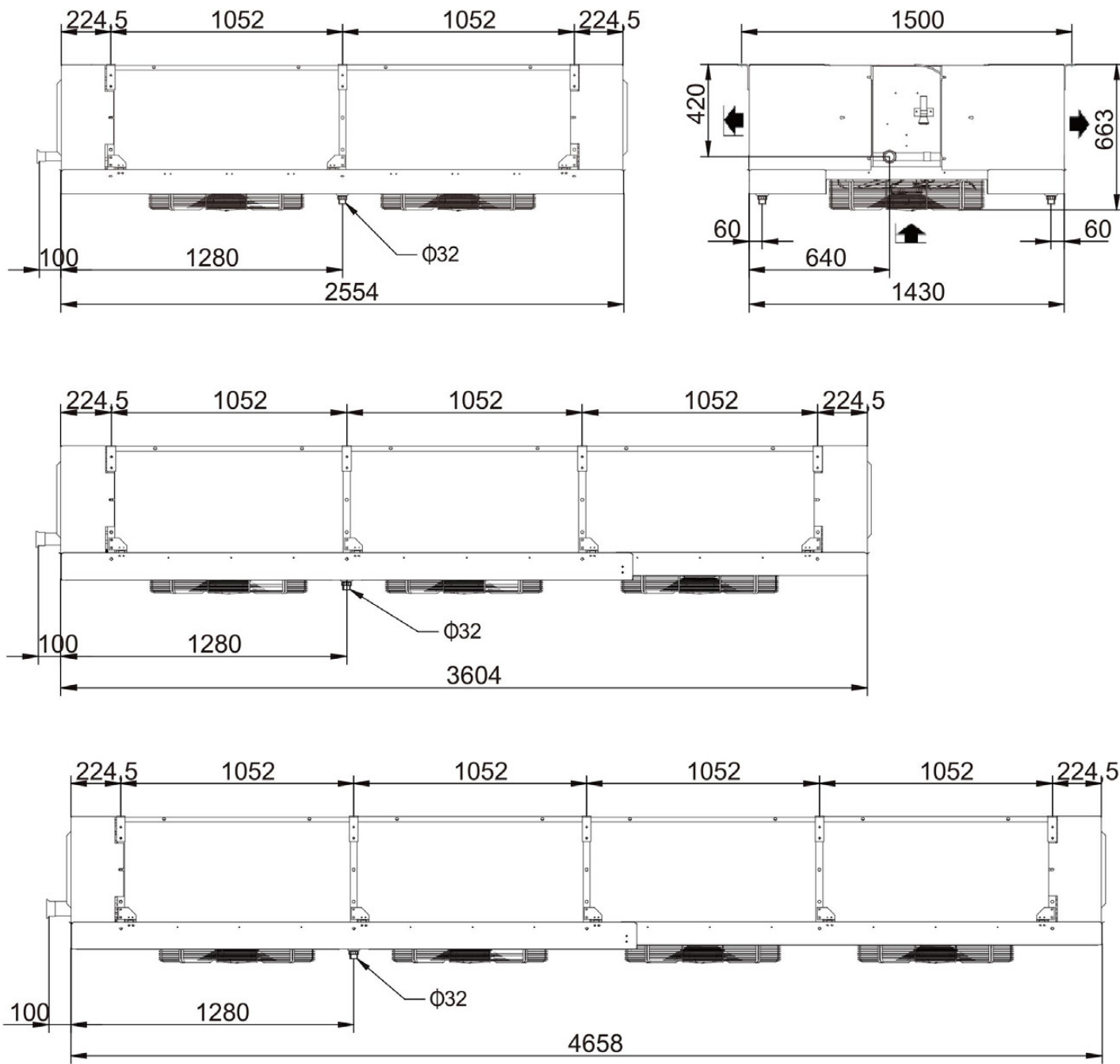
型号 Model	室温 Room Temp.℃				
室温修正系数 Room Temp. Correction Factors	0	2	4	6	15
	1.00	1.07	1.14	1.20	1.20

尺寸参数
Dimensions

型号 Model		BGTA...R6	BGTA 24R 6	BGTA 26R 6	BGTA 28R 6	BGTA 34R 6	BGTA 36R 6	BGTA 38R 6	BGTA 44R 6	BGTA 46R 6	BGTA 48R 6
进出口 接管尺寸 Connections	供液管 Inlet	OD, Inch	1" 1/8	1" 1/8	1" 3/8	1" 3/8	1" 5/8	1" 5/8	1" 5/8	1" 5/8	1" 5/8
	吸气管 Outlet	OD, Inch	1" 3/8	1" 5/8	1" 5/8	2" 1/8	2" 1/8	2" 1/8	2" 1/8	2" 1/8	2" 5/8
净重 Net weight		kg	260	292	316	349	395	433	457	506	549

供液管尺寸说明：供液管，吸气管仅为产品进出口尺寸，实际连接管径尺寸根据具体应用计算确定。
Note: Liquid/vapor line dimension is for inlet/outlet line of product, please calculate connection line dimension according to your applicator.

尺寸图
Dimensions





商用型风冷冷凝器

WRC系列

177  427kW



BEIJER REF

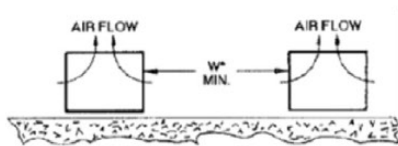
Commercial Condenser
WRC Series



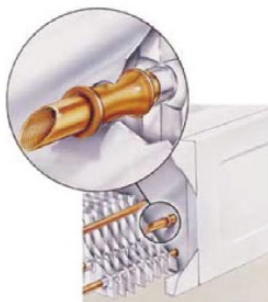
优势 Advantages



顶排风式
Top ventilation



并列安装
Multiple application



浮动盘管
Floating coil

安装 Installation

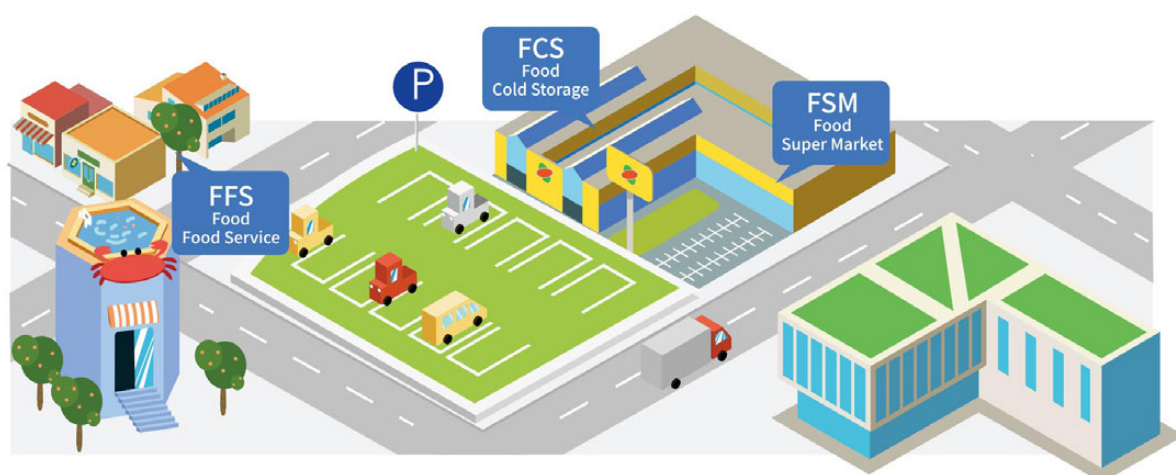
灵活的安装形式，支持顶排风和侧排风。
Flexible forms of installation allow top and side ventilation.



描述 Description

- 使用“浮动盘管”技术，消除了热胀冷缩引起的盘管泄漏，提高了冷凝器的寿命。
- "Floating coil" technology eliminates there- sulted from thermal expansion and contraction prolonging the life of condenser.
- 内螺纹管强化传热。
- Grooved tubes enhance heat transfer.
- 双速三相外转子电机，内置热保护，整体式集管保护罩。
- External two-speed three-phase motor and bulit-in thermal protection,integral header protection shield.
- 提供标准 IP54 电控箱。
- IP54 standard electrical cabinet.

市场范围 Market Segments



• 餐饮 Food Service

• 超市 Super Market

• 冷冻冷藏 Cold Storage

命名规则 Nomenclature

WRC系列风冷冷凝器
WRC SERIES CONDENSER

WRC⁽¹⁾ **198**⁽²⁾ **LN**⁽³⁾ **-EM**⁽⁴⁾

(1) WRC: 风冷冷凝器系列

(1)WRC:Air cooled condenser series

(2) 198: 名义散热量^{*}=散热量/100

(2)198:Nominal capacity =capacity/100

(3) 电机类型

(3)Motor type

LN: 8极低噪声电机

LN:8-pole low noise motor

空白: 六极标准电机

Blank:6-pole standard motor

(4) EM:EBM EC电机

(4)EM:EBM EC Motor

空白: 施乐百电机

Blank:ZIEHL-ABEGG Motor

* 散热量基于0K过冷, 32°C环境温度, 50°C冷凝温度, 100°C进气温度, R404A。

* Capacity based on sub-cooling of 0K, ambient temp of 32°C, condensing temp of 50°C, suction temp of 100°C, R404A.



选项 Options

● 标配 Standard ○ 选配 Optional × 不提供 N/A

选项 Options	KIRBY WRC
电机 Motor	
Freddox电机 Freddox motor	×
EBM电机 (EC) EBM motor(EC)	○
施乐佰电机 ZIEHL-ABEGG motor	●
翅片 Fin	
翅片涂层 (清水铝箔) Fin coating (blue fin)	○
外壳 Casing	
镀锌钢板 Galvanized steel plain sheet	●
不锈钢 Stainless steel	×
翅片片距 Fin spacing	
12FPI(2.12mm)	●
10FPI(2.54mm)	○
9FPI(2.82mm)	○
其他 Others	
风机接线 Fan wiring	●
电气箱 (IP54) Electrical cabinet (IP54)	●
双排冷凝器 Two banks condenser	○

注： 如需其他未列出的配件,请咨询百尔制冷当地代表处。
 Note:If need other unlisted accessories,please consult Beijer Ref local representative office.



技术参数

Technical Data

型号 Model	散热量 (THR) Capacity										风扇 直径 Fan Diam (mm)	风扇 数量 No. of Fans	电机参数Electrical data						
	高速 High speed					低速 Low speed							电机相电流 Phase current		电机相电压 Phase voltage (V)	总功率(W) Total power		最大电流(A) Max current	
	W/K		风量 Air Flow			W/K		风量 Air Flow					(A)			高速 High speed	低速 Low speed	高速 High speed	低速 Low speed
	R404A	R507A	R448A	R449A	m³/h	R404A	R507A	R448A	R449A	m³/h			高速* High speed*	低速 Low speed					
标准型冷凝器 Standard condensers																			
WRC098	9840	9604	8758	8758	44244	8360	8159	7440	7440	37620	800	2	4	2.30	380-3	4000	2500	8	4.6
WRC112	11210	10941	9977	9977	40890	9190	8969	8179	8179	30384	800	2	4	2.30	380-3	4000	2500	8	4.6
WRC119	11860	11575	10555	10555	38232	9610	9379	8553	8553	28008	800	2	4	2.30	380-3	4000	2500	8	4.6
WRC123	12310	12015	10956	10956	36036	9850	9614	8767	8767	26136	800	2	4	2.30	380-3	4000	2500	8	4.6
WRC147	14750	14396	13128	13128	66384	12540	12239	11161	11161	56412	800	3	4	2.30	380-3	6000	3750	12	6.9
WRC167	16740	16338	14899	14899	61344	13730	13400	12220	12220	45576	800	3	4	2.30	380-3	6000	3750	12	6.9
WRC178	17760	17334	15806	15806	56628	14390	14045	12807	12807	41472	800	3	4	2.30	380-3	6000	3750	12	6.9
WRC185	18460	18017	16429	16429	54036	14770	14416	13145	13145	39168	800	3	4	2.30	380-3	6000	3750	12	6.9
WRC198	19790	19315	17613	17613	88488	16820	16416	14970	14970	75204	800	4	4	2.30	380-3	8000	5000	16	9.2
WRC225	22470	21931	19998	19998	81792	18430	17988	16403	16403	60168	800	4	4	2.30	380-3	8000	5000	16	9.2
WRC240	23970	23395	21333	21333	76500	19420	18954	17284	17284	56016	800	4	4	2.30	380-3	8000	5000	16	9.2
WRC247	24650	24058	21939	21939	72036	19720	19246	17551	17551	52236	800	4	4	2.30	380-3	8000	5000	16	9.2
WRC297	29710	28997	26442	26442	95616	24070	23492	21422	21422	70020	800	5	4	2.30	380-3	10000	6250	20	11.5
WRC307	30690	29953	27314	27314	90036	24550	23960	21850	21850	65268	800	5	4	2.30	380-3	10000	6250	20	11.5
低噪型冷凝器 Low noise condensers																			
WRC098LN	8430	8228	7503	7503	33912	7570	7389	6737	6737	26784	800	2	2.4	1.5	380-3	2100	1540	4.8	3
WRC112LN	9490	9262	8446	8446	31536	8190	7993	7289	7289	24660	800	2	2.4	1.5	380-3	2100	1540	4.8	3
WRC119LN	9880	9643	8793	8793	29340	8410	8208	7485	7485	22572	800	2	2.4	1.5	380-3	2100	1540	4.8	3
WRC123LN	9990	9750	8891	8891	27504	8380	8179	7458	7458	20916	800	2	2.4	1.5	380-3	2100	1540	4.8	3
WRC147LN	12640	12337	11250	11250	50868	11350	11078	10102	10102	40176	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5
WRC167LN	14220	13879	12656	12656	47304	12270	11976	10920	10920	36972	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5
WRC178LN	14860	14503	13225	13225	44028	12640	12336	11250	11250	33876	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5
WRC185LN	15010	14650	13359	13359	41256	12600	12298	11214	11214	31392	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5
WRC198LN	17060	16651	15183	15183	67824	15320	14953	13635	13635	53568	800	4	2.4	1.5	380-3	4200	3080	9.6	6
WRC225LN	19000	18544	16910	16910	63072	16400	16006	14596	14596	43920	800	4	2.4	1.5	380-3	4200	3080	9.6	6
WRC240LN	19790	19315	17613	17613	58680	16840	16436	14988	14988	4514	800	4	2.4	1.5	380-3	4200	3080	9.6	6
WRC247LN	19990	19510	17791	17791	55008	16780	16377	14934	14934	41832	800	4	2.4	1.5	380-3	4200	3080	9.6	6
WRC297LN	24730	24136	22010	22010	73368	21040	20535	18726	18726	56448	800	5	2.4	1.5	380-3	5250	3850	12	7.5
WRC307LN	25010	24410	22259	22259	68796	20990	20486	18681	18681	52344	800	5	2.4	1.5	380-3	5250	3850	12	7.5

标准型：*高速880rpm，低速660rpm
Standard condensers:*High speed at 880rpm,Low speed at 660rpm
低噪型：高速680rpm，低速530rpm
Low noise condensers:High speed at 680rpm,Low speed at 530rpm
散热量(THR)：基于0K过冷，32℃环境温度，50℃冷凝温度，进气温度100℃。
Capacity: Data are based on sub-cooling of 0K, ambient temperature of 32℃, condensing temperature of 50℃ and suction temperature of 100℃.
对于其他环境温度，过冷度的要求，请参阅本手册修正值。除了列出的各种参数修正值，其他参数只有对散热值有轻微的影响。表中所列的温差（KTD）指的是冷凝器出口的饱和冷凝液体温度-进风温度（环境温度）。散热量为风扇全开最大值。
For the other requirements of ambient temperature and sub-cooling,please refer to the correction values of this handbook.Except the listed correction values,other parameters have slight effect on capacity.The temperature difference listed in the table indicates saturated liquid temperature of condenser outlet minus air temperature of inlet(ambien temperature) .The capacity is the maximum valve when all fans are operaing.
输入功率值电流值：所列值为外转子电机可能出现的最大功率及最大电流值。实际值可能根据供电电压、冷凝器放置形式和翅片洁净程度等因素而有所不同，但一般不会超出所列的最大值。

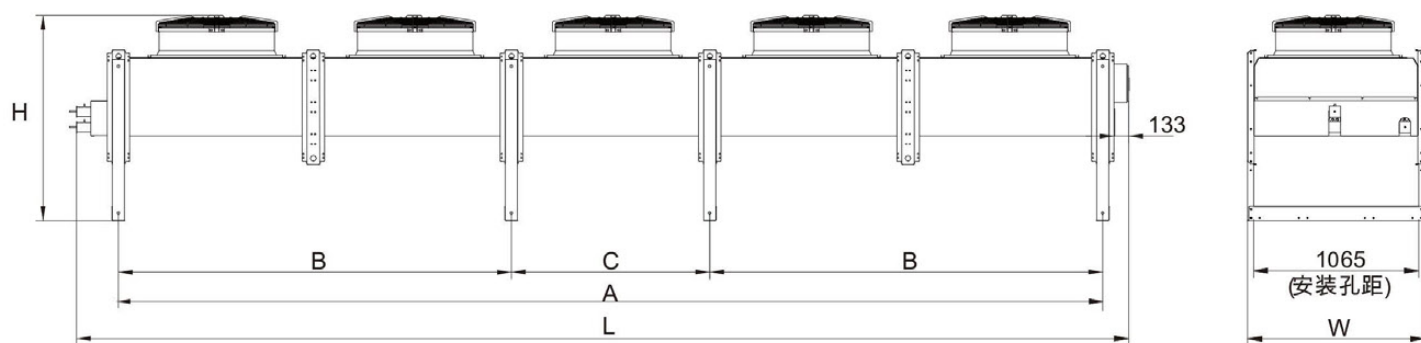
商用型风冷冷凝器 - WRC系列 WRC - Commercial Condenser

尺寸参数
Dimensions

型号 Model	尺寸参数 Dimensions						运输容积m³ Transport volume	重量 (kg) weight	
	L	W	H	A	B	C		净重 Net weight	环保装 w/packaging
单排冷凝器顶排风 Single row top ventilation condensers									
WRC098	3260	1250	1410	2750	-	-	6.7	410	440
WRC112	3260	1250	1410	2750	-	-	6.7	430	460
WRC119	3260	1250	1410	2750	-	-	6.7	460	490
WRC123	3260	1250	1410	2750	-	-	6.7	500	530
WRC147	4660	1250	1410	4150	2775	1375	8.7	560	600
WRC167	4660	1250	1410	4150	2775	1375	8.7	610	650
WRC178	4660	1250	1410	4150	2775	1375	8.7	660	700
WRC185	4660	1250	1410	4150	2775	1375	8.7	710	750
WRC198	6068	1250	1410	5550	2775	-	11.7	740	800
WRC225	6068	1250	1410	5550	2775	-	11.7	820	880
WRC240	6068	1250	1410	5550	2775	-	11.7	890	950
WRC247	6068	1250	1410	5550	2775	-	11.7	960	1020
WRC297	7469	1250	1410	6950	2775	1400	13.7	1130	1200
WRC307	7469	1250	1410	6950	2775	1400	13.7	1210	1290
单排冷凝器侧排风 Single row side ventilation condensers									
WRC098LN	3260	1136	1250	2750	-	-	6.7	410	440
WRC112LN	3260	1136	1250	2750	-	-	6.7	430	460
WRC119LN	3260	1136	1250	2750	-	-	6.7	460	490
WRC123LN	3260	1136	1250	2750	-	-	6.7	500	530
WRC147LN	4660	1136	1250	4150	2775	1375	8.7	560	600
WRC167LN	4660	1136	1250	4150	2775	1375	8.7	610	650
WRC178LN	4660	1136	1250	4150	2775	1375	8.7	660	700
WRC185LN	4660	1136	1250	4150	2775	1375	8.7	710	750
WRC198LN	6068	1136	1250	5550	2775	-	11.7	740	800
WRC225LN	6068	1136	1250	5550	2775	-	11.7	820	880
WRC240LN	6068	1136	1250	5550	2775	-	11.7	890	950
WRC247LN	6068	1136	1250	5550	2775	-	11.7	960	1020
WRC297LN	7469	1136	1250	6950	2775	1400	13.7	1130	1200
WRC307LN	7469	1136	1250	6950	2775	1400	13.7	1210	1290

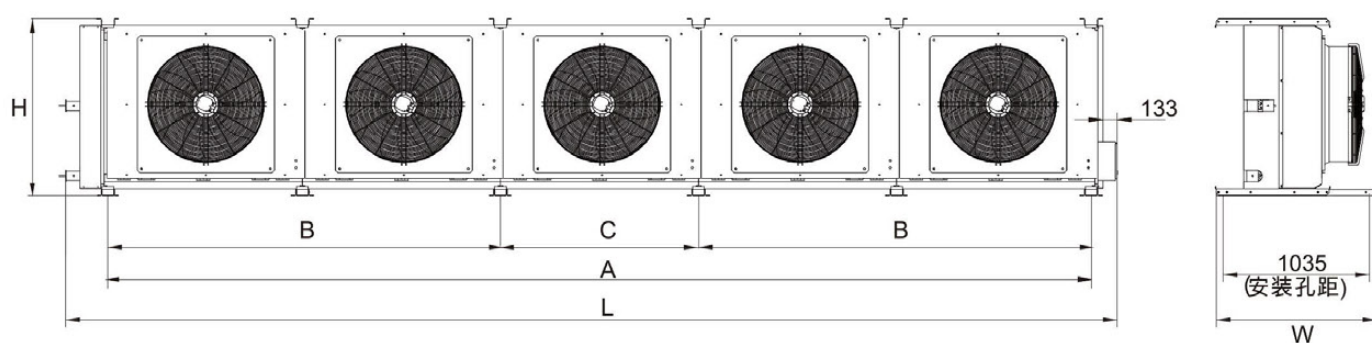
单排冷凝器顶排风

Single row top ventilation condensers



单排冷凝器侧排风

Single row side ventilation condensers



修正系数 Correction Factors

环境温度修正系数(K1) Ambient correction factors

环境温度°C Ambient temperature	15	20	25	30	35	40	45
系数 Factor	0.979	0.986	0.992	0.998	1.003	1.008	1.013

海拔高度修正系数(K2) The altitude correction factors

海拔 (m) Altitude	0	600	800	1000	1200	1400	1600
系数 Factor	1	1.04	1.06	1.075	1.09	1.11	1.12

内部过冷修正系数(K3) Internal sub-cooling correction factors

过冷度 K Subcooling	冷凝温差 KTD Condensing temperature difference KTD				
	3	5	10	15	20
2	0.966	0.976	0.989	0.994	0.996
4	-	0.934	0.975	0.986	0.990
6	-	-	0.946	0.972	0.980
8	-	-	0.898	0.960	0.966

*内部过冷指的是使用标准盘管设计达到一定的过冷度。

* Internal sub-cooling refers to using standard coil design to reach certain sub-cooling degree.

翅片类型修正系数 (K4) Fin correction factors	铝翅片 Aluminum	1.00	清水铝箔 Blue fin	0.995
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所需冷凝器的标准散热量
Required condenser standard THR

$$= \frac{K2}{K1 \times K3 \times K4} \times \text{所需散热量}$$

required capacity

商用型风冷冷凝器 - WRC系列 WRC - Commercial Condenser

其他参数
Other Data

型号 Model	盘管参数 Coil data					噪声值 Noise data					
	排数 Rows	F.P.I	制冷管路 Refrigeration line			高速* High speed			低速* Low speed		
			充注量 Charge	连接尺寸 Connection		声功率级 Sound power level LwAdBA	声压级 Sound pressure level LpAdBA 3m	噪声比 Noise ratio	声功率级 Sound power level LwAdBA	声压级 Sound pressure level LpAdBA 3m	噪声比 Noise ratio
				R404A kg**	进气 Inlet						
标准型冷凝器 Standard condensers											
WRC098	3	12	29	54.4	54.4	86	69	65	81	64	61
WRC112	4	12	37	54.4	54.4						
WRC119	5	12	45	54.4	54.4						
WRC123	6	12	53	54.4	54.4						
WRC147	3	12	43	66.7	66.7	88	71	67	83	64	63
WRC167	4	12	55	66.7	66.7						
WRC178	5	12	67	66.7	66.7						
WRC185	6	12	79	66.7	66.7						
WRC198	3	12	54	66.7	66.7	89	72	69	84	67	65
WRC225	4	12	70	66.7	66.7						
WRC240	5	12	86	66.7	66.7						
WRC247	6	12	102	66.7	66.7						
WRC297	5	12	106	66.7	66.7	90	73	69	85	68	65
WRC307	6	12	126	66.7	66.7						
低噪型冷凝器 Low noise condensers											
WRC098LN	3	12	12	54.4	54.4	79	62	58	76	59	55
WRC112LN	4	12	12	54.4	54.4						
WRC119LN	5	12	12	54.4	54.4						
WRC123LN	6	12	12	54.4	54.4						
WRC147LN	3	12	12	66.7	66.7	81	63	60	78	60	57
WRC167LN	4	12	12	66.7	66.7						
WRC178LN	5	12	12	66.7	66.7						
WRC185LN	6	12	12	66.7	66.7						
WRC198LN	3	12	12	66.7	66.7	82	65	61	79	62	58
WRC225LN	4	12	12	66.7	66.7						
WRC240LN	5	12	12	66.7	66.7						
WRC247LN	6	12	12	66.7	66.7						
WRC297LN	5	12	12	66.7	66.7	83	66	62	80	63	59
WRC307LN	6	12	12	66.7	66.7						

标准型：*高速880rpm，低速660rpm
Standard condensers:*High speed at 880rpm,Low speed at 660rpm
低噪型：高速680rpm，低速530rpm
Low noise condensers:High speed at 680rpm,Low speed at 530rpm
噪声参数：所列噪声值为实验数据。实验符合ISO9614-1(声强法)及AS1217.7-1985(实验方法)。所列声压级参数为风扇平面上，距离叶片轴3米反射平面出测得的平均值，根据现场声音反射情况的不同，该值可能所不同。
Noise:The noise values are experiment meets ISO9614-1(sound intensity)and AS1217.7-1985(experiment).The sound pressure level data are average tested at the intersection of fan plane and reflection plane 3 meters from axis.The values may vary according to site sound reflection.
**所列制冷剂充注量为：在32℃环境温度下，抽空循环（PUMP DOWN）时，按照盘管内80%体积R404A液体，20%体积R404A气体的制冷剂总量。

商用型风冷冷凝器

KRC系列

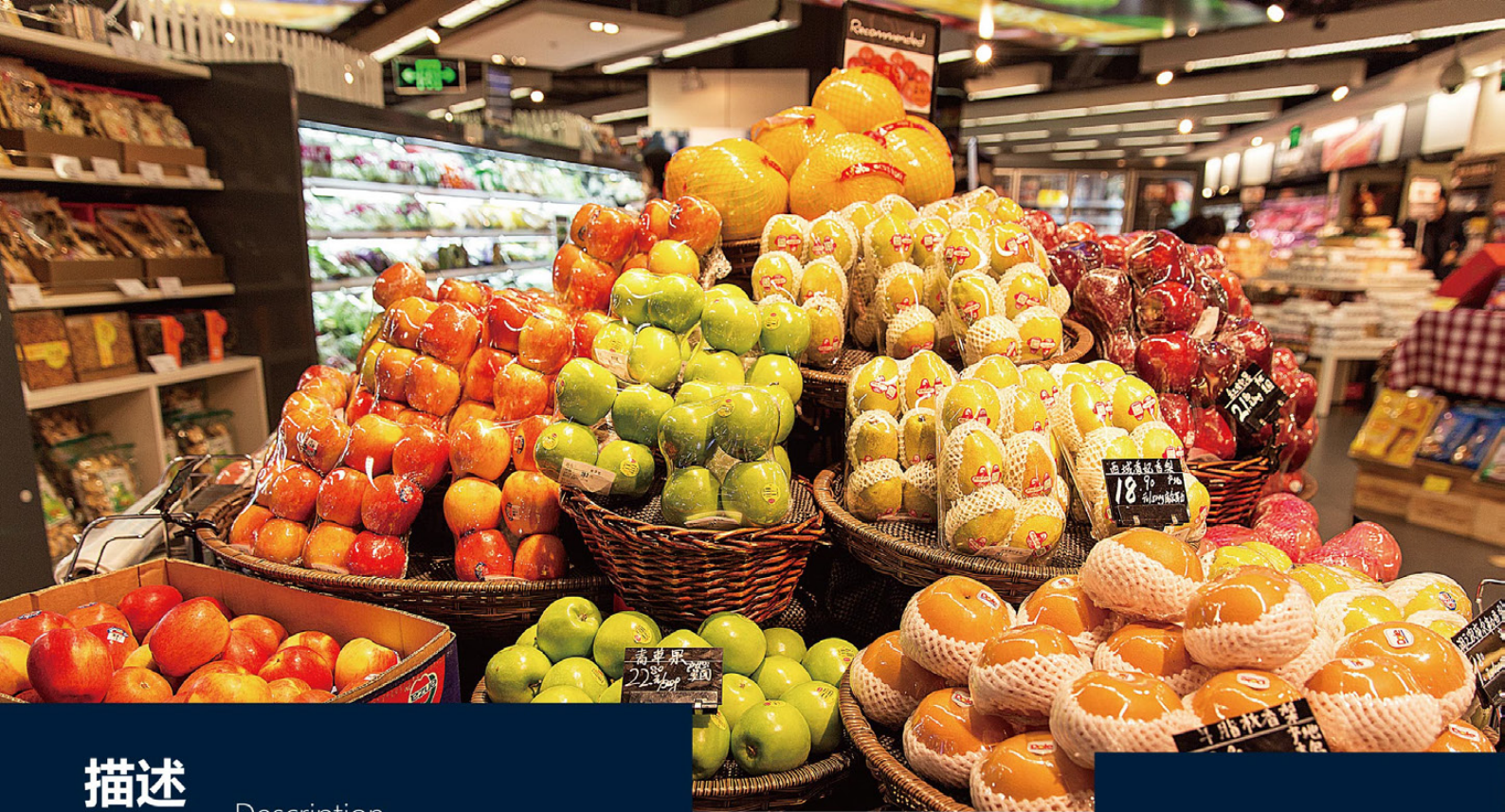


12  258kW



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Commercial Condenser
KRC Series

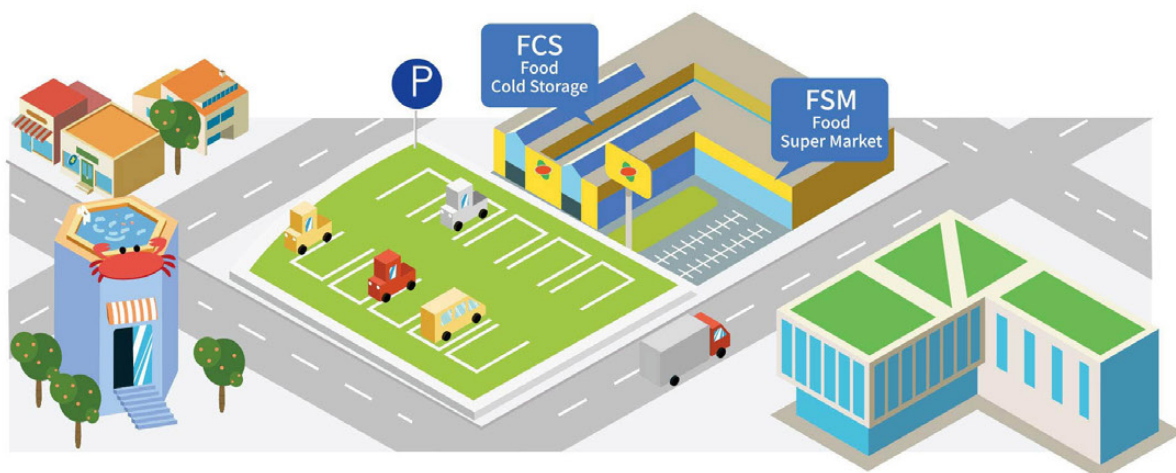


描述

Description

- 面板采用粉末涂层，使用寿命长，耐腐蚀。
• All panels are powder coated for long life and corrosion resistance.
- 灵活的安装形式，支持顶排风和侧排风。
• The units can be installed vertically or horizontally for maximum flexibility.
- KRC 配置高质量的外转子电机，使用寿命长，维护便捷。
• KRC Condenser use quality external rotor motor fans for long life and serviceability.
- 可采用低噪音风机，用以适应不同噪音要求。
• For noise sensitive areas offer selections for low noise performance.
- 冷量范围从 12kW 到 258kW。
• Range from 12kW to 258kW.
- 换热管采用内螺纹管，优化盘管设计，强化换热性能。
• Optimised Coil Design incorporating Inner Grooved Tube for enhanced heat transfer.
- 四个内部连接的换热模块应用 9000 系列盘管技术。
• 9000 Series coil technology applied to the inline four fan modules.
- 精确的加工装配精度确保侧板 / 分配器处无风量泄漏。
• Header clearance holes in ensure the end/divider plates remain a leak free zone.
- Euro 支架用以调整高度（只适用于顶排风）。
• Euro leg design for height adjustability (vertical airflow configuration only).
- 4 极单相使用 350mm 和 500mm 风扇直径。
• 4P Single Phase in 350mm and 500mm Fan Diameters.
- 6 极单相使用 500mm 和 630mm 风扇直径。
• 6P Single Phase in 500mm and 630mm Fan Diameters.
- 所有型号的产品都使用高翻边风筒，大限度提升风机性能。
• Deep Spun Venturi on all models to maximise fan performance.

市场范围 Market Segments



- 超市 Super Market
- 冷冻冷藏 Cold Storage

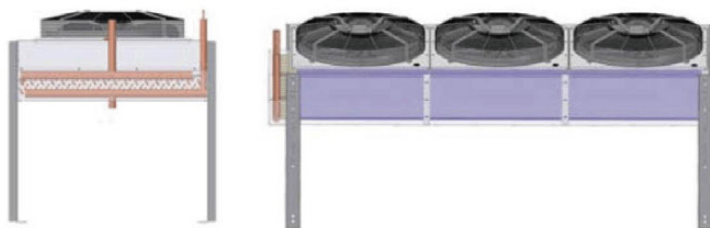
命名规则 Nomenclature

KRC系列风冷冷凝器
KRC SERIES REMOTE CONDENSER

KRC ⁽¹⁾ **80** ⁽²⁾ **C** ⁽³⁾ **-4P** ⁽⁴⁾ **H** ⁽⁵⁾ **S** ⁽⁶⁾ **-C** ⁽⁷⁾

- | | |
|---------------------------------------|---|
| (1) KRC: 风冷冷凝器系列 | (1) KRC: Air cooled condenser series |
| (2) 80: 单位温差散热量/10 | (2) 80: Capacity Watts per Degree TD/10 |
| (3) 常规可选项
空白: 标准配置 (清水铝箔/铜管, 喷涂面板) | (3) Regular Options-Set up on RMS
Blank: (Blue Fin/Cu coil, Power Coat Panels) |
| (4) 风扇类型
6P=6极电机
4P=4极电机 | (4) Fan Type
6P=6 POLE AC FAN
4P=4 POLE AC FAN |
| (5) H= 高效盘管 | (5) H= High performance Coil |
| (6) 特殊可选项或其组合 | (6) Special (Non-Regular) Option and Combination |
| (7) C: 订单代码 | (7) C: Order Code |

优势 Advantages



安装

Installation

- 灵活的安装形式, 支持顶排风和侧排风。
- Flexible forms of installation allow top and side ventilation.

商用型风冷冷凝器 -KRC系列 KRC - Commercial Condenser

技术参数
Technical Data

型号 Model	性能参数 Technical data						电气参数 Electrical Data					
	基本散热量 * W/K Capacity *W/K					风量m³/h Air flow	风扇直径 Fan Diam (mm)	风扇数量 No.of fans	电机相 电流(A) Phase current	电机相 电压 (V) Phase voltage	总功率(W) Total power	最大电流(A) Max current
	R404A	R507A	R448A	R449A	R134a							
KRC80-4PH-C	803	787	715	715	746	4536	350	2	0.58	220-1	260	1.16
KRC107-4PH-C	1076	1054	958	958	1001	4662	350	2	0.58	220-1	260	1.16
KRC134-4PH-C	1338	1311	1191	1191	1245	4356	350	2	0.58	220-1	260	1.16
KRC137-6PH-C	1366	1339	1216	1216	1271	3942	500	1	1.35	220-1	290	1.35
KRC181-6PH-C	1635	1602	1455	1455	1520	8766	500	2	1.35	220-1	580	2.7
KRC254-6PH-C	1807	1771	1608	1608	1681	7812	500	2	1.35	220-1	580	2.7
KRC164-4PH-C	2135	2092	1900	1900	1986	5508	500	1	2.8	220-1	640	2.8
KRC213-4PH-C	2544	2493	2264	2264	2366	11844	500	2	2.8	220-1	1280	5.6
KRC317-4PH-C	3171	3108	2822	2822	2949	10476	500	2	2.8	220-1	1280	5.6
KRC389-6PH-C	3885	3807	3458	3458	3613	13482	630	2	2.62	220-1	1200	5.24
KRC457-6PH-C	4572	4481	4069	4069	4252	23310	630	3	2.62	220-1	1800	7.86
KRC574-6PH-C	5738	5623	5107	5107	5337	20232	630	3	2.62	220-1	1800	7.86
KRC693-6PH-C	6927	6788	6165	6165	6442	31518	630	4	2.62	220-1	2400	10.48
KRC861-6PH-C	8611	8439	7664	7664	8008	27918	630	4	2.62	220-1	2400	10.48

*基本散热量：基于32℃环境温度，0℃过冷度，18KTD（温差KTD:冷凝器出口的饱和冷凝液体温度-进风温度（环境温度），最小实际KTD为3K）
* Capacity data are based on sub-cooling 0K, ambient temp of 32,18KTD(Temp diff KTD: Saturated temp of condenser outlet-air temp of inlet(ambient temp),minimum actual KTD is 3K)
*电气参数是电机在100%Spd运行下的数据
* Electrical Data are based on fan motor operating at 100% speed.

技术参数
Technical Data

型号 Model	盘管参数 Coil data					噪声参数 Noise Data			
	排数 Rows	F.P.I	制冷管路 Refrigeration line			声功率级 Sound power level LwAdBA	声压级 Sound pressure level LpAdBA 3m	噪声比 Noise ratio	
			充注量 Charge		连接尺寸 Connection				
			R404A		进气 Inlet				出液 Outlet
KRC80-4PH-C	3	10	1.8	15.9	12.7	77	59.5	54	
KRC107-4PH-C	4	10	3	15.9	12.7				
KRC134-4PH-C	6	10	5.4	19	15.9				
KRC137-6PH-C	6	10	5.4	19	15.9	75.8	58.3	52	
KRC181-6PH-C	3	10	4.5	22.2	19	78.8	61.3	55	
KRC254-6PH-C	6	10	10.2	25.4	22.2				
KRC164-4PH-C	6	10	5.4	19	15.9				
KRC213-4PH-C	3	10	4.5	22.2	19	84	66.5	62	
KRC317-4PH-C	6	10	10.2	25.4	22.2				
KRC389-6PH-C	5	10	11.4	31.8	28.6				
KRC457-6PH-C	3	10	10.4	34.9	31.8	80.6	63.1	60	
KRC574-6PH-C	5	10	17.3	34.9	31.8				
KRC693-6PH-C	3	10	19.1	38.1	38.1				
KRC861-6PH-C	5	10	31.8	38.1	38.1	81.8	64.3	62	

*充注量：抽空循环时，按照盘管内80%的液体，20%的气体，55℃冷凝温度

充注量的修正系数（以R404A为基准）pumpdown charge conversion factors to R404A				
制冷剂 Refrigeration	R404A	R507A	R134a	R407C
修正系数Factor	1.00	1.05	1.24	1.13

-5℃蒸发温度& 40℃冷凝温度时运行充注量与抽真空充注量的比率 Ratio of -5SST & 40SCT operating charge to pumpdown charge				
制冷剂 Refrigeration	R404A	R507A	R134a	R407C
修正系数Factor	0.34	0.35	0.21	0.26

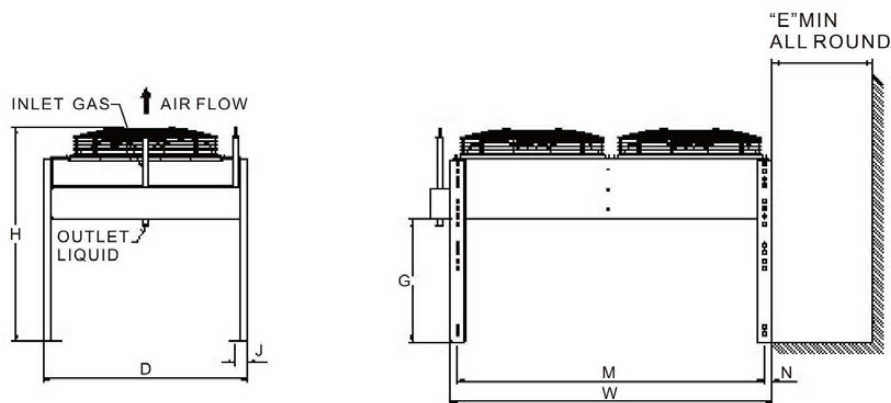
尺寸参数

Dimensions

型号 Model	尺寸参数 Dimensions														运输容积m ³ Transport volume	重量 (kg) weight	
	A	B	C	D	E	F	G	H	J	K	L	M	N	W		净重 Net weight	环保装 w/packaging
KRC80-4PH-C	452	48	80	470	500	443	390	705	40	165	951	877	25	927	0.247	29	34
KRC107-4PH-C	452	48	80	570	500	520	390	705	40	165	951	877	25	927	0.299	34	39
KRC134-4PH-C	452	48	80	670	500	647	390	725	40	165	951	877	25	927	0.351	46	51
KRC137-6PH-C	452	48	80	670	500	647	390	745	40	165	951	877	25	927	0.373	51	56
KRC181-6PH-C	766	54	75	849	500	788	605	1020	62	220	1262	1165	38	1241	0.692	68	85
KRC254-6PH-C	766	54	75	954	500	915	605	1020	62	255	1262	1165	38	1241	0.692	93	110
KRC164-4PH-C	452	48	80	670	500	647	390	745	40	165	951	877	25	927	0.373	51	56
KRC213-4PH-C	766	54	75	849	500	788	605	1020	62	220	1262	1165	38	1241	0.692	68	85
KRC317-4PH-C	766	54	75	954	500	915	605	1020	62	255	1262	1165	38	1241	0.692	93	110
KRC389-6PH-C	766	54	75	1004	500	965	605	1050	62	220	1675	1505	38	1581	1.014	129	153
KRC457-6PH-C	766	54	75	1004	750	965	605	1050	62	255	2408	2240	38	2316	2.55	158	248
KRC574-6PH-C	766	54	75	1004	750	965	605	1050	62	255	2408	2240	38	2316	2.55	186	276
KRC693-6PH-C	840	80	80	1107	750	1065	610	1050	18	440	3205	3003	44	3091	4.34	208	328
KRC861-6PH-C	840	80	80	1107	750	1065	610	1050	18	400	3205	3003	44	3091	4.34	263	383

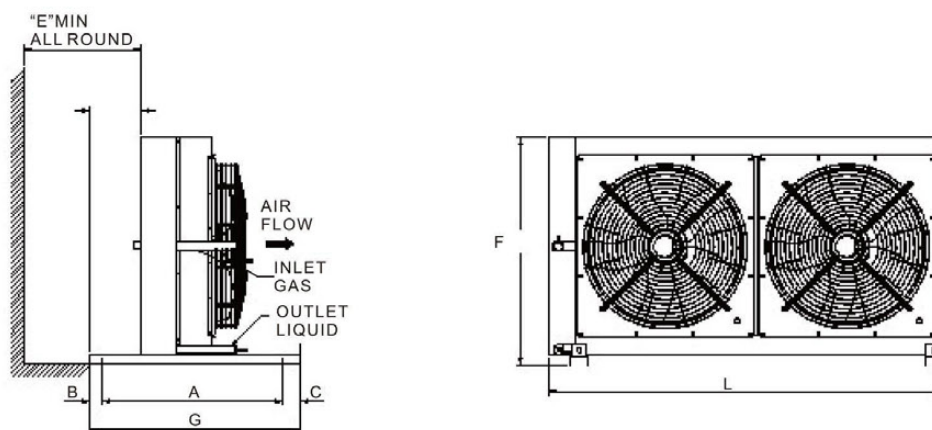
顶排风

Top Ventilation Condensers



侧排风

Side Ventilation Condensers



修正系数 Correction Factors

排气温度修正系数K0 (以100°C排气温度为基准) Discharge temp correction factors(based on discharge temp 100°C)				
制冷剂 Refrigeration	R404A	R134a	R410A	R22
85°C排气温度 discharge temp 85°C	0.978	0.97	0.985	0.988

环境温度修正系数(K1) Ambient correction factors							
环境温度°C Ambient temperature	15	20	25	30	35	40	45
系数 Factor	0.979	0.986	0.992	0.998	1.003	1.008	1.013

海拔高度修正系数(K2) The altitude correction factors							
海拔 (m) Altitude	0	600	800	1000	1200	1400	1600
系数 Factor	1	1.04	1.06	1.075	1.09	1.11	1.12

盘管内部过冷修正系数(K3) Internal sub-cooling correction factors					
过冷度 K Subcooling	冷凝温差 KTD Condensing temperature difference KTD				
	3	5	10	15	20
2	0.966	0.976	0.989	0.994	0.996
4	-	0.934	0.975	0.986	0.990
6	-	-	0.946	0.972	0.980
8	-	-	0.898	0.960	0.966

额外过冷修正系数(K3) Extra sub-cooling correction factors				
过冷度 K subcooling	4	6	8	10
系数 Factor	0.950	0.930	0.910	0.880

制冷剂散热量的修正系数(R404A为基准) (K4) Refrigeration correction factors				
制冷剂 Refrigeration	R502	R22	R407B	R407C
修正系数 Factor	0.96	0.95	0.92	0.90

计算的散热量除以合适的系数就是实际所需要的散热量（以R404A为基准）

制冷剂修正系数这里的修正系数是所有不同型号产品修正系数的平均值，并随着KTD的变化修正系数变化非常细微，然而这些系数对于大多数系统选型来说还是足够精确的。

翅片修正系数(K5) Fin correction factors	
铝 Aluminum	1

计算的散热量除以修正系数就是实际所需要的散热量（以铝翅片为基准）

$$\text{所需冷凝器的散热量} = \text{K2/K0XK1XK3XK4XK5} \times \text{所需散热量}$$

$$\text{Required condenser standard THR} = \text{K2/K0XK1XK3XK4XK5} \times \text{required capacity}$$

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