

BEIJER REF

Singapore



**UNIT
COOLERS**

Muller

9000 Series

Low Profile



Nomenclature

MMT^① 158^② H^③ - N^④ P^⑤ C^⑥

- ① MMT: Medium Temp
MLT:Low Temp
- ② Capacity (kW)=158/10kW
- ③ H: Electrical defrost
Blank:without defrost

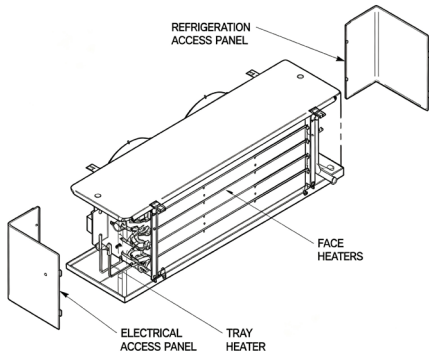
- ④ N:Freddox motor M:EBM EC motor
Blank:EBM motor
- ⑤ P: Overheat protection
Blank:without Overheat protection
- ⑥ C:Order Code

Note:

Electrical defrost is standard for low temp units.

Advantages

- Installation
- Large space available for easy installation of the expansion valve.
- Servicing / Maintenance
- Easily removable side panels offer comfortable access to all unit cooler components.



Feature

- High Efficiency, Extended Frosting Time, Stable Room Temperature
- Rifled tube and special coil arrangement, along with Beijer Ref liquid distribution technology and advanced fin flap process, resulting in a better-efficient unit cooler which has extended frosting time to maintain stable room temperature.
- Reliable
- 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 to deliver reliable products to every customer.
- Easy Operation and Servicing
- 9000 Series Unit Cooler has easy front-opening access to electrical panel and refrigeration components.
- Wide Capacity Range
- Capacity coverage of 1.7 kW-25.9 kW for medium temperature and 1.2 kW-12.4 kW for low temperature.

Description

- 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.
- 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.
- 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 resulted in more stable room conditions between defrosts and allows the coil to hold ice for longer between defrosts.
- 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.

Options

● Standard ① Optional × Not available

Options	MULLER	
	MMT-Medium Temp	MLT-Low Temp
Motor		
Freddox motor	●	●
EBM motor(EC)	①	①
ZIEHL-ABEGG motor	×	×
EBM standard motor	①	①
Fin		
Fin coating(blue fin)	①	①
Fin coating(black electrophoresis)*	①	×
Casing		
Plastics sprayed aluminum	●	●
Stainless steel	①	①
Defrost		
Electrical defrost	①	●
Hot gas defrost(coil&tray)	①	①
Water defrost	×	×
Fin spacing		
7FPI(3.63mm)	×	×
6FPI(4.23mm)	●	①
5FPI(5.08mm)	①	①
4FPI(6.35mm)	①	●
Others		
Fan wiring	●	●
Electrical cabinet(IP54)	①	①
Double drain trays	①	①
Glycol	①	①

Note:
If need other unlisted configurations, please consult Beijer Ref local representative office.
*Optional: Medium temperature version without electrical heater.

Correction Factors

► **MLT**

Capacity Factors and Application Limits

SST °C	-40	-36	-30	-25	-20	-15
Correction factor	0.71	0.82	0.91	1	1.09	1.18
Max.KTD	11	11	10	10	10	10
Min.KTD	4	4	4	4	4	4

Fin Capacity Correction Factors

6FPI		5FPI		4FPI	Aluminum fin	Coated aluminum fin
φ300mm	φ350mm	φ300mm	φ350mm			
1.27	1.25	1.13	1.12	1	1	0.97

*Standard coils are 4FPI Aluminum. Multiply capacity by factors to find capacity with required FPI.

► **MMT**

Capacity Factors and Application Limits

SST °C	-10	-8	-6	-4	-2	0	2	4	6	9	12
Correction factor	0.97	1	1.01	1.02	1.04	1.07	1.1	1.13	1.17	1.21	1.21
Max.KTD	9	10	10	10	10	10	10	10	10	10	10
Min.KTD	4	4	4	4	4	5	5	5	5	6	6

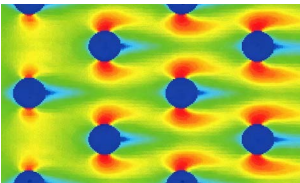
Fin Capacity Correction Factors

6FPI	5FPI		4FPI		Aluminum fin	Coated aluminum fin
	φ300mm	φ350mm	φ300mm	φ350mm		
1	0.89	0.91	0.8	0.83	1	0.97

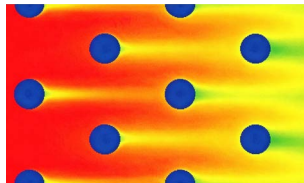
*Standard coils are 4FPI Aluminum. Multiply capacity by factors to find capacity with required FPI.

Notes:

- Actual capacity = capacity × factor × required KTD /std KTD.
- The limits on this chart are intended to indicate the maximum application range of standard coils.
- For application outside these limits,consult your nearest Beijer Ref office. Distributors and/or circuiting may be unsuitable outside these limits.
- Refrigerant capacity factors were calculated using the latest thermodynamic data from the refrigerant manufacturer and the Beijer Ref refrigeration rating program.



CFD air flow speed simulation



CFD temperature simulation

Medium Temp Technical Data

4.23mm 6FPI

Model	Capacity W SC2*1				Internal Volume dm³	No.of rows	Fan Data							Heaters*2		Weight (kg)
	R404A	R507A	R448A	R449A			Fan Diam. (mm)	No.of Fan	Power	Air Flow (m³/h)	Air Throw (m)	Total Power (W)	Total Current (A)	Total Power (W)	Power	
MMT021	2117	2053	2032	2011	0.75	3	300	1	220V/1P/50Hz	1296	6.9	85	0.42	900	220V/1P/50Hz	10.3
MMT026	2626	2547	2521	2495	1.1	4	300	1	220V/1P/50Hz	1224	6.5	85	0.42	900	220V/1P/50Hz	11.5
MMT035	3528	3422	3387	3352	1.1	2	300	2	220V/1P/50Hz	2736	10.3	170	0.84	1800	220V/1P/50Hz	15.1
MMT039	3855	3739	3701	3662	1.85	4	350	1	220V/1P/50Hz	2448	8.3	170	0.78	1600	220V/1P/50Hz	16.3
MMT044	4443	4310	4265	4221	1.7	3	300	2	220V/1P/50Hz	2592	9.8	170	0.84	1800	220V/1P/50Hz	16.9
MMT049	4939	4791	4741	4692	2.3	4	300	2	220V/1P/50Hz	2448	9.3	170	0.84	1800	220V/1P/50Hz	18.7
MMT059	5880	5704	5645	5586	3.4	3	350	2	220V/1P/50Hz	5040	12.6	340	1.56	3200	380V/3P/50Hz	25.3
MMT066	6599	6401	6335	6269	2.3	3	300	3	220V/1P/50Hz	3888	12.1	255	1.26	2700	380V/3P/50Hz	23
MMT082	8167	7922	7840	7759	3.3	3	350	2	220V/1P/50Hz	5040	12.6	340	1.56	3200	380V/3P/50Hz	26.3
MMT093	9277	8999	8906	8813	4.5	4	350	2	220V/1P/50Hz	4950	11.9	340	1.56	3200	380V/3P/50Hz	30.4
MMT098	9800	9506	9408	9310	5.6	5	350	2	220V/1P/50Hz	4752	11.5	340	1.56	3200	380V/3P/50Hz	33.8
MMT105	10519	10203	10098	9993	4.5	4	300	4	220V/1P/50Hz	4896	12.9	340	1.68	3600	380V/3P/50Hz	32.4
MMT122	12152	11787	11666	11544	5.6	3	350	3	220V/1P/50Hz	7776	15.4	510	2.34	4800	380V/3P/50Hz	37.7
MMT139	13851	13435	13297	13158	6.7	4	350	3	220V/1P/50Hz	7416	14.7	510	2.34	4800	380V/3P/50Hz	42.6
MMT158	15811	15337	15179	15020	8.3	5	350	3	220V/1P/50Hz	7092	14.2	510	2.34	4800	380V/3P/50Hz	47.6
MMT172	17248	16731	16558	16386	6.6	3	350	4	220V/1P/50Hz	10368	17.3	680	3.12	6400	380V/3P/50Hz	49.5
MMT183	18293	17744	17561	17378	8.9	4	350	4	220V/1P/50Hz	9900	16.4	680	3.12	6400	380V/3P/50Hz	58.3
MMT216	21560	20913	20698	20482	8.3	3	350	5	220V/1P/50Hz	12960	19.3	850	3.9	8000	380V/3P/50Hz	60.5
MMT235	23520	22814	22579	22344	11.1	4	350	5	220V/1P/50Hz	12384	18.4	850	3.9	8000	380V/3P/50Hz	69.6
MMT259	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.SC2 Condition: -8°C evaporating temperature, 0°C room temperature, 8 KTD
*2.Only refer electrical heaters option
For Zeotropic mixtures, the evaporating temperature are based on mean temperature.

Low Temp Technical Data

6.35mm 4FPI

Model	Capacity W SC3*1				Internal Volume dm³	No.of rows	Fan Data							Heaters		Weight (kg)
	R404A	R507A	R448A	R449A			Fan Diam. (mm)	No.of Fan	Power	Air Flow (m³/h)	Air Throw (m)	Total Power (W)	Total Current (A)	Total Power (W)	Power	
MLT012	1171	1136	1112	1101	0.8	3	300	1	220V/1P/50Hz	1296	6.4	85	0.42	900	220V/1P/50Hz	10.8
MLT019	1875	1819	1781	1763	1.5	3	350	1	220V/1P/50Hz	2520	8.1	170	0.78	1600	220V/1P/50Hz	15.5
MLT022	2195	2129	2085	2063	1.7	3	300	2	220V/1P/50Hz	2592	9.1	170	0.84	1800	220V/1P/50Hz	17.5
MLT027	2744	2662	2607	2579	2.3	4	300	2	220V/1P/50Hz	2488	8.6	170	0.84	1800	220V/1P/50Hz	19.5
MLT033	3293	3194	3128	3095	2.5	3	350	3	220V/1P/50Hz	3888	11.2	255	1.26	2700	380V/3P/50Hz	24.4
MLT038	3796	3682	3606	3568	3.4	4	300	3	220V/1P/50Hz	3672	10.6	255	1.26	2700	380V/3P/50Hz	26.5
MLT041	4116	3993	3910	3869	3.3	3	350	2	220V/1P/50Hz	5040	11.6	340	1.56	3200	380V/3P/50Hz	27
MLT045	4528	4392	4302	4256	3.4	3	350	2	220V/1P/50Hz	5040	11.6	340	1.56	3200	380V/3P/50Hz	27.8
MLT051	5122	4968	4866	4815	4.5	4	350	2	220V/1P/50Hz	4950	11	340	1.56	3200	380V/3P/50Hz	31.3
MLT057	5671	5501	5387	5331	4.5	4	300	4	220V/1P/50Hz	4896	11.9	340	1.68	3600	380V/3P/50Hz	34.6
MLT061	6083	5901	5779	5718	5	3	350	3	220V/1P/50Hz	7776	14.3	510	2.34	4800	380V/3P/50Hz	38.1
MLT068	6814	6610	6473	6405	5	3	350	3	220V/1P/50Hz	7776	14.3	510	2.34	4800	380V/3P/50Hz	38.9
MLT081	8141	7897	7734	7653	6.7	4	350	3	220V/1P/50Hz	7416	13.6	510	2.34	4800	380V/3P/50Hz	45.2
MLT091	9147	8873	8690	8598	8.9	4	350	4	220V/1P/50Hz	9900	15.2	680	3.12	6400	380V/3P/50Hz	58.9
MLT103	10336	10026	9819	9716	8.9	4	350	4	220V/1P/50Hz	9900	15.2	680	3.12	6400	380V/3P/50Hz	63
MLT115	11525	11179	10949	10834	8.3	3	350	5	220V/1P/50Hz	12960	17.9	850	3.9	8000	380V/3P/50Hz	69.6
MLT124	12439	12066	11817	11693	11.1	4	350	5	220V/1P/50Hz	12384	17	850	3.9	8000	380V/3P/50Hz	77.8

ECOCOOL - 9000 Series CO₂ Unit Cooler



Feature

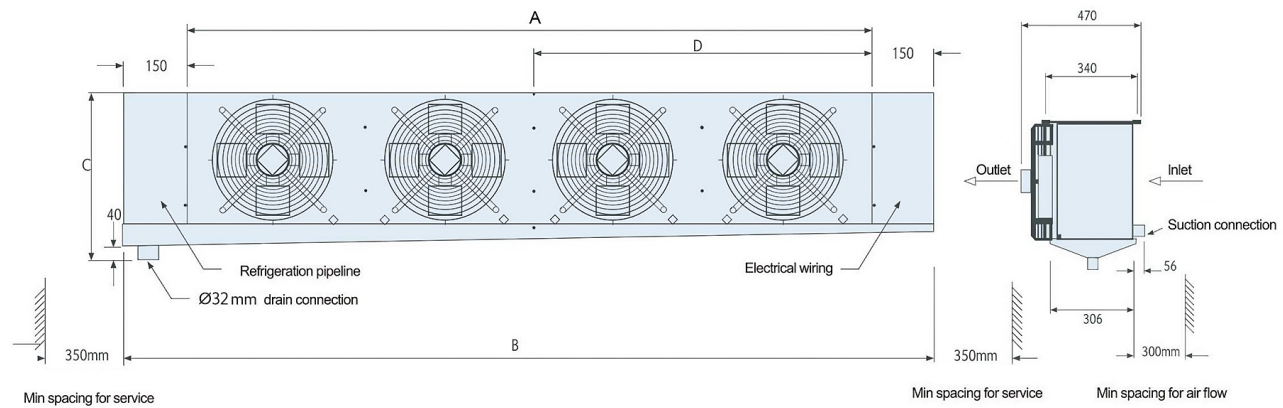
Innovative Features, Real Benefits

- All models of the Ecocool range are rated for maximum working pressures up to 80 bar and are suitable for transcritical and subcritical applications.
- Easy Operation and Servicing**
 - User friendly access panels are designed for ease of commissioning and service, with front opening access to both electrical and refrigeration components.
- Attractive and Durable**
 - Premium aluminum construction with a crisp, white powder coated finish is durable, easy to clean and provides an aesthetically pleasing appearance.
- Pre-wired Fans**
 - Pre-wired fans simplifies installation and speeds up commissioning.
- Future-Proof, Environmentally Friendly Performance**
 - With a very low global warming potential (GWP) base value of 1, R744 is an environmentally friendly alternative to synthetic refrigerants. Naturally occurring, it is non-toxic (within a ventilated space), non-flammable and non-ozone-depleting. Furthermore, not only does it provide exceptional performance, your investment is future-proof for years to come

Nomenclature

M ① MS ② C ③ -A ④ 1 ⑤ 022 ⑥ -E ⑦

- | | | |
|-------------------------|--|---------------------|
| ① Manufacturer | ③ Fluid Type: | ⑥ Nominal Capacity |
| Brand | C: CO ₂ | ⑦ -XX |
| M: Muller | ④ Fan Size | E: Electric Heaters |
| ② Usage Application: | -A: 300mm -B: 350mm | (MS only) |
| -MS: Medium Temperautre | ⑤ Number of Fans | |
| -LU: Low Temperature | 1: 1 Fans 2: 2 Fans 3: 3Fans 4: 4 Fans | |



Note:

Liquid / vapor line dimensions are for the product inlet / outlet lines. Please calculate connection line dimensions according to your application.

Medium Temp Technical Data

MT Model	Refrigerant	Capacity W @ Japan Cond.	Capacity W @ SC2	Fin Spacing FPI	Surface m ²	Rows	No. of Fans mm	Air Flow m ³ /h	Air Throw m	Total Fans Power Input W	Total Fans Current A	Power Supply	Defrost Watts W	Weight kg	Dimensions L x W x H mm
MMSCA1022	R744	2212	1770	6	7.9	4	1 x 300	1310	7.1	120 / 170	0.54 / 0.76	1~230V±10% 50/60Hz	1000	15	750 x 470 x 494
MMSCA1026	R744	2639	2111	6	11.9	6	1 x 300	1159	6.4	120 / 170	0.54 / 0.76	1~230V±10% 50/60Hz	1000	17	750 x 470 x 494
MMSCA2039	R744	3894	3115	6	11.9	3	2 x 300	2801	10.6	240 / 340	1.08 / 1.52	1~230V±10% 50/60Hz	2000	23	1155 x 470 x 494
MMSCA2050	R744	4955	3964	6	19.9	5	2 x 300	2459	9.6	240 / 340	1.08 / 1.52	1~230V±10% 50/60Hz	2000	26	1155 x 470 x 494
MMSCA3069	R744	6850	5480	6	23.8	4	3 x 300	3928	12.5	360 / 510	1.62 / 2.28	3~400V±10% 50/60Hz	3000	34	1560 x 470 x 494
MMSCA4091	R744	9121	7297	6	31.8	4	4 x 300	5238	14	480 / 680	2.16 / 3.04	3~400V±10% 50/60Hz	4000	44	1970 x 470 x 494
MMSCB1031	R744	3079	2463	6	8.7	3	1 x 350	2610	8.9	230 / 340	1.05 / 1.50	1~230V±10% 50/60Hz	1750	18	850 x 470 x 545
MMSCB2069	R744	6857	5486	6	19.5	3	2 x 350	5220	13	460 / 680	2.10 / 3.00	3~400V±10% 50/60Hz	3500	32	1485 x 470 x 545
MMSCB2095	R744	9483	7587	6	39.1	6	2 x 350	4280	11.7	460 / 680	2.10 / 3.00	3~400V±10% 50/60Hz	3500	42	1485 x 470 x 545
MMSCB3120	R744	12006	9605	6	39.1	4	3 x 350	7261	14.8	690 / 1020	3.15 / 4.50	3~400V±10% 50/60Hz	5250	49	2060 x 470 x 545
MMSCB4162	R744	16198	12958	6	52.1	4	4 x 350	9680	16.5	920 / 1360	4.20 / 6.00	3~400V±10% 50/60Hz	7000	65	2630 x 470 x 545
MMSCB4191	R744	19070	15256	6	78.1	6	4 x 350	8561	15.7	920 / 1360	4.20 / 6.00	3~400V±10% 50/60Hz	7000	78	2630 x 470 x 545

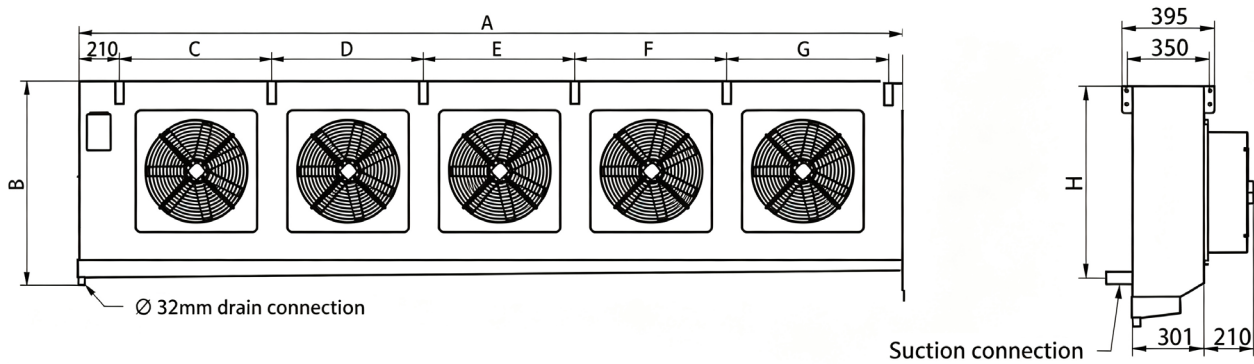
Low Temp Technical Data

LT Model	Refrigerant	Capacity W @ Japan Cond.	Capacity W @ SC3	Fin Spacing FPI	Surface m ²	Rows	No. of Fans mm	Air Flow m ³ /h	Air Throw m	Total Fans Power Input W	Total Fans Current A	Power Supply	Defrost Watts W	Weight kg	Dimensions L x W x H mm
MLUCA1019	R744	1869	1482	4.5	5.5	4	1 x 300	1390	6.1	120 / 170	0.54 / 0.76	1~230V±10% 50/60Hz	1000	15	750 x 470 x 494
MLUCA2036	R744	3634	2881	4.5	11	4	2 x 300	2779	9.5	240 / 340	1.08 / 1.52	1~230V±10% 50/60Hz	2000	24	1155 x 470 x 494
MLUCA3049	R744	4867	3859	4.5	12.4	3	3 x 300	4439	11.2	360 / 510	1.62 / 2.28	3~400V±10% 50/60Hz	3000	32	1560 x 470 x 494
MLUCB1026	R744	2609	2068	4.5	6	3	1 x 350	2761	8.3	230 / 340	1.05 / 1.50	1~230V±10% 50/60Hz	1750	18	850 x 470 x 545
MLUCB2058	R744	5750	4558	4.5	13.5	3	2 x 350	5519	12.1	460 / 680	2.10 / 3.00	3~400V±10% 50/60Hz	3500	32	1485 x 470 x 545
MLUCB2074	R744	7424	5886	4.5	22.5	5	2 x 350	4860	11	460 / 680	2.10 / 3.00	3~400V±10% 50/60Hz	3500	38	1485 x 470 x 545
MLUCB3101	R744	10059	7975	4.5	27	4	3 x 350	7769	14.3	690 / 1020	3.15 / 4.50	3~400V±10% 50/60Hz	5250	49	2060 x 470 x 545
MLUCB4133	R744	13304	10547	4.5	36.1	4	4 x 350	10361	15.6	920 / 1360	4.20 / 6.00	3~400V±10% 50/60Hz	7000	65	2630 x 470 x 545
MLUCB4148	R744	14771	11710	4.5	45.1	5	4 x 350	9720	15.3	920 / 1360	4.20 / 6.00	3~400V±10% 50/60Hz	7000	73	2630 x 470 x 545

Heavy Duty Unit Cooler
HD CO₂



10 72kW



Model	MMSCE1105	MMSCE2165	MMSCE2209	MMSCE3248	MMSCE3320	MMSCE4362	MMSCE4405	MMSCE5476	MMSCE5527
Capacity R744 @ SC2, W	10550	16480	20930	24810	31980	36250	40510	47580	52690

Model	Fin Spacing (mm)	Internal Volume (L)	No. of Rows	Heat Transfer Surface (m ²)	Air Flow (m ³ /h)	No. of Fans, Qty. x Diameter (mm)	Air Throw (m)	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W (Optional -E)	Defrost Heater Amps, A (Optional -E)
MMSCE1105	5.08	8.0	6	47.1	7182	1 x 500	20	400V/3P/50Hz	550	1.05	3750	7.4
MMSCE2165	5.08	10.7	4	62.8	15120	2 x 500	22	400V/3P/50Hz	1100	2.10	6230	12.3
MMSCE2209	5.08	16.0	6	94.2	14382	2 x 500	22	400V/3P/50Hz	1100	2.10	6230	12.3
MMSCE3248	5.08	20.0	5	117.7	22176	3 x 500	24	400V/3P/50Hz	1650	3.15	10240	20.4
MMSCE3320	5.08	24.0	6	141.2	21564	3 x 500	24	400V/3P/50Hz	1650	3.15	10240	20.4
MMSCE4362	5.08	24.6	5	144.5	28800	4 x 500	25	400V/3P/50Hz	2200	4.20	12760	20.4
MMSCE4405	5.08	29.5	6	173.5	28044	4 x 500	25	400V/3P/50Hz	2200	4.20	12760	20.4
MMSCE5476	5.08	30.7	5	180.7	36000	5 x 500	26	400V/3P/50Hz	2750	5.25	15420	24.7
MMSCE5527	5.08	36.9	6	216.8	35046	5 x 500	26	400V/3P/50Hz	2750	5.25	15420	24.7

Model	Length (mm)	Width (mm)	Height (mm)	Inlet Connector (mm)	Outlet Connector (mm)	Net Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
MMSCE1105	1265	520	890	9.5	22.2	103	1265	890	980	-	-	-	-	685
MMSCE2165	2215	520	890	9.5	22.2	159	2215	890	950	980	-	-	-	685
MMSCE2209	2215	520	890	12.7	28.6	187	2215	890	950	980	-	-	-	685
MMSCE3248	3165	520	890	12.7	28.6	243	3165	890	950	950	980	-	-	685
MMSCE3320	3165	520	890	15.9	28.6	270	3165	890	950	950	980	-	-	685
MMSCE4362	3315	520	1015	15.9	28.6	321	3315	1015	750	750	750	780	-	800
MMSCE4405	3315	520	1015	19.1	28.6	343	3315	1015	750	750	750	780	-	800
MMSCE5476	4065	520	1015	19.1	34.9	415	4065	1015	750	750	750	780	780	800
MMSCE5527	4065	520	1015	22.2	34.9	415	4065	1015	750	750	750	780	780	800

Model	MLSCE1088	MLSCE2136	MLSCE2174	MLSCE3238	MLSCE3262	MLSCE4293	MLSCE4322	MLSCE5359	MLSCE5399
Capacity R744 @ SC3, W	8820	13560	17440	23840	26240	29350	32160	35920	39940

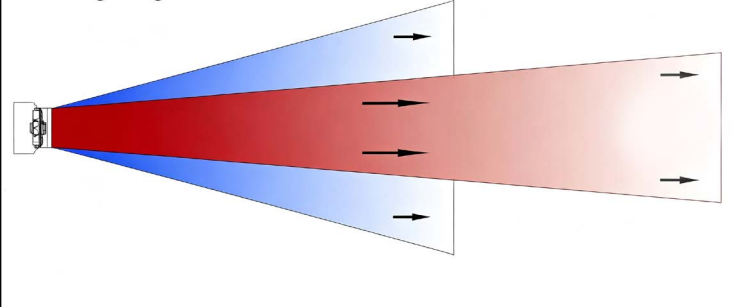
Model	Fin Spacing (mm)	Internal Volume (L)	No. of Rows	Heat Transfer Surface (m ²)	Air Flow (m ³ /h)	No. of Fans, Qty. x Diameter (mm)	Air Throw (m)	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W	Defrost Heater Amps, A
MLSCE1088	5.64	8.0	6	42.8	7182	1 x 500	18	400V/3P/50Hz	550	1.05	3750	7.4
MLSCE2136	5.64	10.7	4	57.1	15120	2 x 500	20	400V/3P/50Hz	1100	2.10	6230	12.3
MLSCE2174	5.64	16.0	6	85.7	14382	2 x 500	20	400V/3P/50Hz	1100	2.10	6230	12.3
MLSCE3238	5.64	20.0	5	107.1	22176	3 x 500	22	400V/3P/50Hz	1650	3.15	10240	20.4
MLSCE3262	5.64	24.0	6	128.5	21564	3 x 500	22	400V/3P/50Hz	1650	3.15	10240	20.4
MLSCE4293	5.64	24.6	5	124.0	28800	4 x 500	23	400V/3P/50Hz	2200	4.20	12760	20.4
MLSCE4322	5.64	29.5	6	157.8	28044	4 x 500	23	400V/3P/50Hz	2200	4.20	12760	20.4
MLSCE5359	5.64	30.7	5	155.0	36000	5 x 500	24	400V/3P/50Hz	2750	5.25	15420	24.7
MLSCE5399	5.64	36.9	6	197.3	35046	5 x 500	24	400V/3P/50Hz	2750	5.25	15420	24.7

Model	Length (mm)	Width (mm)	Height (mm)	Inlet Connector (mm)	Outlet Connector (mm)	Net Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
MLSCE1088	1265	520	890	9.5	22.2	103	1265	890	980	-	-	-	-	685
MLSCE2136	2215	520	890	9.5	22.2	159	2215	890	950	980	-	-	-	685
MLSCE2174	2215	520	890	12.7	28.6	187	2215	890	950	980	-	-	-	685
MLSCE3238	3165	520	890	12.7	28.6	243	3165	890	950	950	980	-	-	685
MLSCE3262	3165	520	890	15.9	28.6	270	3165	890	950	950	980	-	-	685
MLSCE4293	3315	520	1015	15.9	28.6	321	3315	1015	750	750	750	780	-	800
MLSCE4322	3315	520	1015	19.1	28.6	343	3315	1015	750	750	750	780	-	800
MLSCE5359	4065	520	1015	19.1	34.9	415	4065	1015	750	750	750	780	780	800
MLSCE5399	4065	520	1015	22.2	34.9	415	4065	1015	750	750	750	780	780	800

Heavy Duty Unit Cooler MHD Series

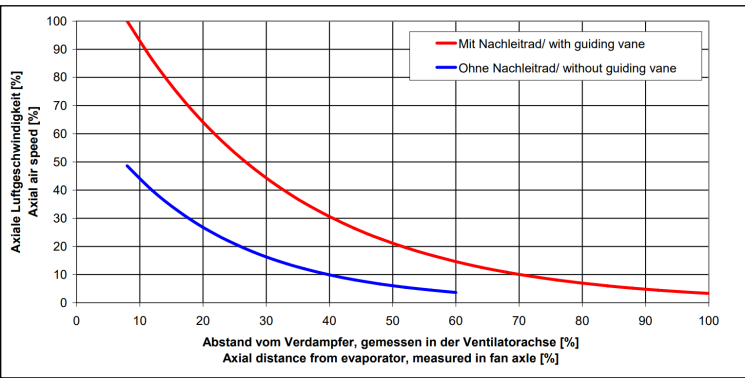


Funktionsprinzip Nachleitrad
Function guiding vane



Homogenous distribution of air flow:

- Increased air throw, optimized air flow and efficient distribution of air in the cold room.



Accessories for Axial fans

- Guiding vanes Diameter 500
- For improvement of the long flow-range behavior.

Part no. Guiding vane: 00286705

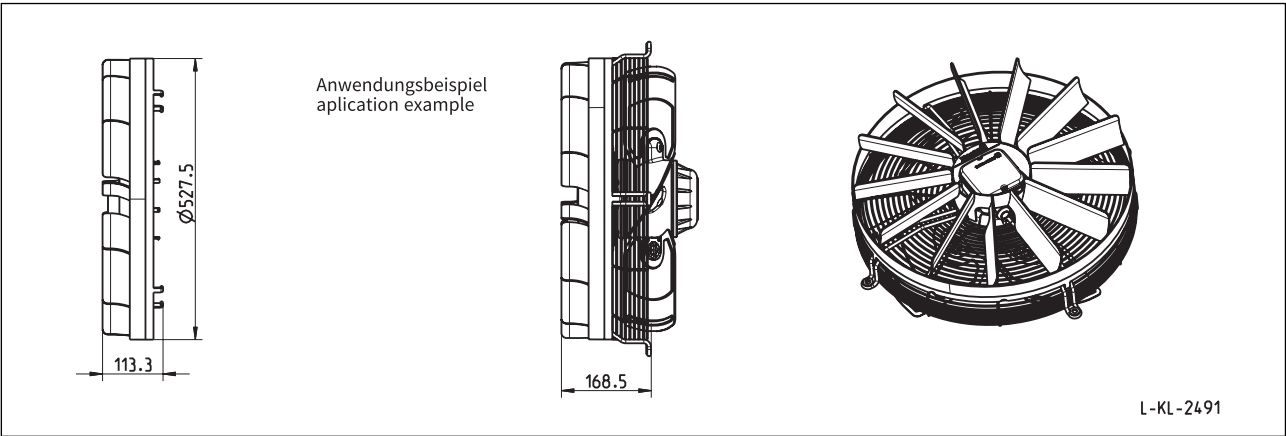
- Material:

Suitable for FB050-__K.4_V4_ is snapped onto the wire support guard part no. 00260160

TECHNICAL DATA

Model	Condition	Capacity Range kW	Fan Dia(mm)	Fan Qty	Air Throw*	Fin Space	Power
MHD**	SC2	10~72.8	500	1~5	31~40m	4.23mm 6FPI	380V/3P/50hz
MHDE**	SC3	6.38~40.4	500	1~5	27~37m	6.35mm 4FPI	380V/3P/50hz
MHDE**	SC4	4.87~30.82	500	1~5	27~37m	6.35mm 4FPI	380V/3P/50hz

SC2:-8°C evaporating temperture, 0°C room temperature, 8KTD
SC3:-25°C evaporating temperture,-18°C room temperature,7KTD
SC4:-31°C evaporating temperture,-25°C room temperature,6KTD



MHD Series

Model	Capacity R404A @ SC2, W	Capacity R507A @ SC2, W	Capacity R448A @ SC2, W	Capacity R449A @ SC2, W
MHD060	10070	9768	9667	9567
MHD083	13930	13512	13373	13234
MHD115	18460	17906	17722	17537
MHD130	21830	21175	20957	20739
MHD173	29110	28237	27946	27655
MHD210	35620	34551	34195	33839
MHD255	42880	41594	41165	40736
MHD290	49550	48064	47568	47073
MHD340	58210	56464	55882	55300
MHD470	72860	70674	69946	69217

Model	Fin Spacing, mm	Internal Volume, L	No. of Rows	Heat Transfer Surface, m²	Air Flow m³/h	No. of Fans, Qty. x Diameter, mm	Air Throw, m	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W (Optional H)	Defrost Heater Amps, A (Optional H)
MHD060	4.23	9.5	4	35.8	7056	1 x 500	20	400V/3P/50Hz	550	1.05	5250	9.3
MHD083	4.23	14.6	6	53.7	6912	1 x 500	20	400V/3P/50Hz	550	1.05	5250	9.3
MHD115	4.23	13.9	3	53.7	14256	2 x 500	22	400V/3P/50Hz	1100	2.10	8700	15.9
MHD130	4.23	18.9	4	71.7	14112	2 x 500	22	400V/3P/50Hz	1100	2.10	8700	15.9
MHD173	4.23	29	6	107.5	13824	2 x 500	22	400V/3P/50Hz	1100	2.10	8700	15.9
MHD210	4.23	36	5	134.3	20952	3 x 500	24	400V/3P/50Hz	1650	3.15	13600	25.5
MHD255	4.23	43.6	6	161.2	20772	3 x 500	24	400V/3P/50Hz	1650	3.15	13600	25.5
MHD290	4.23	43.9	5	165.0	27972	4 x 500	25	400V/3P/50Hz	2200	4.20	15320	30.7
MHD340	4.23	53.2	6	198.0	27684	4 x 500	25	400V/3P/50Hz	2200	4.20	15320	30.7
MHD470	4.23	66.5	6	247.5	34596	5 x 500	26	400V/3P/50Hz	2750	5.25	18280	36.6

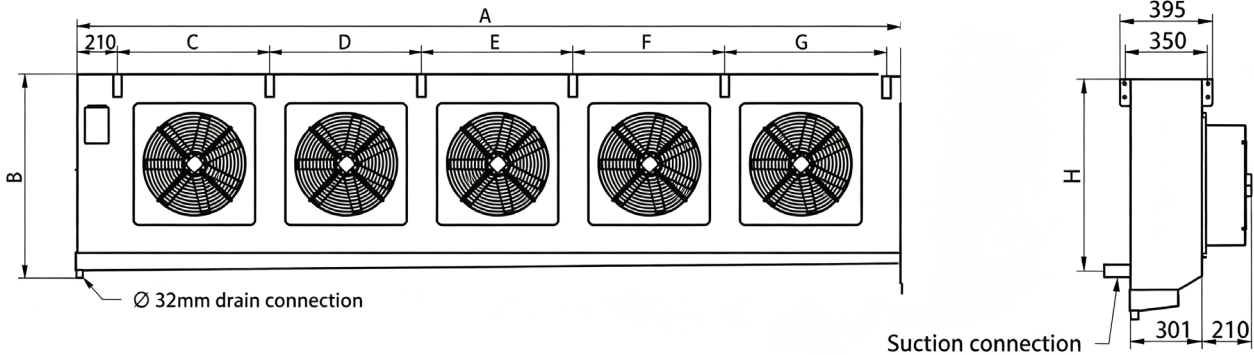
Model	Length mm	Width mm	Height mm	Inlet Connector mm	Outlet Connector mm	Net Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
MHD060	1265	520	890	12.7	28.6	70	1265	890	980	-	-	-	-	685
MHD083	1265	520	890	25.4	28.6	80	1265	890	980	-	-	-	-	685
MHD115	2215	520	890	25.4	34.9	120	2215	890	950	980	-	-	-	685
MHD130	2215	520	890	31.7	34.9	130	2215	890	950	980	-	-	-	685
MHD173	2215	520	890	38.1	41.3	155	2215	890	950	980	-	-	-	685
MHD210	3165	520	890	38.1	41.3	205	3165	890	950	950	980	-	-	685
MHD255	3165	520	890	38.1	41.3	225	3165	890	950	950	980	-	-	685
MHD290	3315	520	1015	38.1	50.8	265	3315	1015	750	750	750	780	-	800
MHD340	3315	520	1015	38.1	50.8	285	3315	1015	750	750	750	780	-	800
MHD470	4065	520	1015	38.1	50.8	345	4065	1015	750	750	750	750	780	800

Model	Capacity R404A @ SC3, W	Capacity R507A @ SC3, W	Capacity R448A @ SC3, W	Capacity R449A @ SC3, W
MHDE051	6380	6189	6061	5997
MHDE071	9170	8895	8712	8620
MHDE081	9400	9118	8930	8836
MHDE101	12410	12038	11790	11665
MHDE131	16020	15539	15219	15059
MHDE151	18340	17790	17423	17240
MHDE181	22520	21844	21394	21169
MHDE221	26810	26006	25470	25201
MHDE251	30400	29488	28880	28576
MHDE281	34000	32980	32300	31960
MHDE341	40400	39188	38380	37976

Model	Capacity R404A @ SC4, W	Capacity R507A @ SC4, W	Capacity R448A @ SC4, W	Capacity R449A @ SC4, W
MHDE051	4870	4724	4578	4529
MHDE071	6990	6780	6571	6501
MHDE081	7170	6955	6740	6668
MHDE101	9470	9186	8902	8807
MHDE131	12220	11853	11487	11365
MHDE151	13990	13570	13151	13011
MHDE181	17180	16665	16149	15977
MHDE221	20450	19837	19223	19019
MHDE251	23190	22494	21799	21567
MHDE281	25940	25162	24384	24124
MHDE341	30820	29895	28971	28663

Model	Fin Spacing mm	Internal Volume L	No. of Rows	Heat Transfer Surface m²	Air Flow, m³/h	No. of Fans Qty. x Diameter mm	Air Throw m	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W	Defrost Heater Amps, A
MHDE051	6.35	9.5	4	25.1	7056	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE071	6.35	14.6	6	37.6	6912	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE081	6.35	13.9	3	37.6	14256	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE101	6.35	18.9	4	50.2	14112	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE131	6.35	24	5	62.7	13968	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE151	6.35	29	6	75.2	13824	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE181	6.35	36	5	94.1	20952	3 x 500	22	400V/3P/50Hz	1650	3.15	13600	25.5
MHDE221	6.35	43.6	6	112.9	20772	3 x 500	22	400V/3P/50Hz	1650	3.15	13600	25.5
MHDE251	6.35	43.9	5	115.5	27996	4 x 500	23	400V/3P/50Hz	2200	4.20	15320	30.7
MHDE281	6.35	53.2	6	138.6	27684	4 x 500	23	400V/3P/50Hz	2200	4.20	15320	30.7
MHDE341	6.35	66.5	6	173.3	34596	5 x 500	24	400V/3P/50Hz	2750	5.25	18280	36.6

Model	Length mm	Width mm	Height mm	Inlet Connector mm	Outlet Connector mm	Net Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
MHDE051	1265	520	890	12.7	28.6	75	1265	890	980	-	-	-	-	685
MHDE071	1265	520	890	25.4	28.6	85	1265	890	980	-	-	-	-	685
MHDE081	2215	520	890	25.4	34.9	125	2215	890	950	980	-	-	-	685
MHDE101	2215	520	890	31.7	34.9	135	2215	890	950	980	-	-	-	685
MHDE131	2215	520	890	31.7	34.9	150	2215	890	950	980	-	-	-	685
MHDE151	2215	520	890	38.1	41.3	160	2215	890	950	980	-	-	-	685
MHDE181	3165	520	890	38.1	41.3	205	3165	890	950	950	980	-	-	685
MHDE221	3165	520	890	38.1	41.3	230	3165	890	950	950	980	-	-	685
MHDE251	3315	520	1015	38.1	50.8	270	3315	1015	750	750	750	780	-	800
MHDE281	3315	520	1015	38.1	50.8	290	3315	1015	750	750	750	780	-	800
MHDE341	4065	520	1015	38.1	50.8	350	4065	1015	750	750	750	750	780	800



MHDE-B

6.35/12.7mm

Model	Capacity R404A @ SC3, W	Capacity R507A @ SC3, W	Capacity R448A @ SC3, W	Capacity R449A @ SC3, W
MHDE051B	5600	5432	5320	5264
MHDE071B	8080	7838	7676	7595
MHDE101B	10810	10486	10270	10161
MHDE151B	16030	15549	15229	15068
MHDE221B	23620	22911	22439	22203
MHDE281B	29540	28654	28063	27768
MHDE341B	36260	35172	34447	34084

Model	Capacity R404A @ SC4, W	Capacity R507A @ SC4, W	Capacity R448A @ SC4, W	Capacity R449A @ SC4, W
MHDE051B	4300	4171	4042	3999
MHDE071B	6190	6004	5819	5757
MHDE101B	8310	8061	7811	7728
MHDE151B	12300	11931	11562	11439
MHDE221B	18080	17538	16995	16814
MHDE281B	22690	22009	21329	21102
MHDE341B	27760	26927	26094	25817

Model	Fin Spacing mm	Internal Volume L	No. of Rows	Heat Transfer Surface m²	Air Flow m³/h	No. of Fans Qty. x Diameter mm	Air Throw m	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W	Defrost Heater Amps, A
MHDE051B	6.35/12.7	9.5	4	19.6	7516	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE071B	6.35/12.7	14.6	6	29.5	7148	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE101B	6.35/12.7	18.9	4	39.3	15032	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE151B	6.35/12.7	29	6	58.9	14296	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE221B	6.35/12.7	43.6	6	88.4	21444	3 x 500	22	400V/3P/50Hz	1650	3.15	13600	25.5
MHDE281B	6.35/12.7	53.2	6	108.5	28000	4 x 500	23	400V/3P/50Hz	2200	4.20	15320	30.7
MHDE341B	6.35/12.7	66.5	6	135.7	35000	5 x 500	24	400V/3P/50Hz	2750	5.25	18280	36.6

Model	Length mm	Width mm	Height mm	Inlet Connector mm	Outlet Connector mm	Net Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
MHDE051B	1265	520	890	12.7	28.6	73	1265	890	980	-	-	-	-	685
MHDE071B	1265	520	890	25.4	28.6	81	1265	890	980	-	-	-	-	685
MHDE101B	2215	520	890	31.7	34.9	130	2215	890	950	980	-	-	-	685
MHDE151B	2215	520	890	38.1	41.3	153	2215	890	950	980	-	-	-	685
MHDE221B	3165	520	890	38.1	41.3	219	3165	890	950	950	980	-	-	685
MHDE281B	3315	520	1015	38.1	50.8	277	3315	1015	750	750	750	780	-	800
MHDE341B	4065	520	1015	38.1	50.8	333	4065	1015	750	750	750	750	780	800

MHDE-Plus

11mm

Model	Capacity R404A @ SC3, W	Capacity R507A @ SC3, W	Capacity R448A @ SC3, W	Capacity R449A @ SC3, W
MHDE051Plus	4820	4675	4579	4531
MHDE071Plus	7030	6819	6679	6608
MHDE081Plus	6890	6683	6546	6477
MHDE101Plus	9180	8905	8721	8629
MHDE131Plus	12040	11679	11438	11318
MHDE151Plus	13950	13532	13253	13113
MHDE181Plus	17010	16500	16160	15989
MHDE221Plus	20530	19914	19504	19298
MHDE251Plus	22760	22077	21622	21394
MHDE281Plus	25770	24997	24482	24224
MHDE341Plus	32000	31040	30400	30080

Model	Capacity R404A @ SC4, W	Capacity R507A @ SC4, W	Capacity R448A @ SC4, W	Capacity R449A @ SC4, W
MHDE051Plus	3720	3608	3497	3460
MHDE071Plus	5420	5257	5095	5041
MHDE081Plus	5360	5199	5038	4985
MHDE101Plus	7100	6887	6674	6603
MHDE131Plus	9250	8973	8695	8603
MHDE151Plus	10680	10360	10039	9932
MHDE181Plus	13170	12775	12380	12248
MHDE221Plus	15800	15326	14852	14694
MHDE251Plus	17630	17101	16572	16396
MHDE281Plus	19930	19332	18734	18535
MHDE341Plus	24780	24037	23293	23045

Model	Fin Spacing mm	Internal Volume L	No. of Rows	Heat Transfer Surface m²	Air Flow m³/h	No. of Fans Qty. x Diameter mm	Air Throw m	Power Supply	Total Fan Power Watts, W	Total Fan Current Amps, A	Defrost Heater Watts, W	Defrost Heater Amps, A
MHDE051Plus	11	9.5	4	16.0	7581	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE071Plus	11	14.6	6	24.0	7223	1 x 500	18	400V/3P/50Hz	550	1.05	5250	9.3
MHDE081Plus	11	13.9	3	24.0	15564	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE101Plus	11	18.9	4	32.0	15162	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE131Plus	11	24	5	40.0	14775	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE151Plus	11	29	6	48.0	14445	2 x 500	20	400V/3P/50Hz	1100	2.10	8700	15.9
MHDE181Plus	11	36	5	60.0	22162	3 x 500	22	400V/3P/50Hz	1650	3.15	13600	25.5
MHDE221Plus	11	43.6	6	72.0	21668	3 x 500	22	400V/3P/50Hz	1650	3.15	13600	25.5
MHDE251Plus	11	43.9	5	73.6	29067	4 x 500	23	400V/3P/50Hz	2200	4.20	15320	30.7
MHDE281Plus	11	53.2	6	88.4	28371	4 x 500	23	400V/3P/50Hz	2200	4.20	15320	30.7
MHDE341Plus	11	66.5	6	110.5	35464	5 x 500	24	400V/3P/50Hz	2750	5.25	18280	36.6

Model	Length mm	Width mm	Height mm	Inlet Connector mm	Outlet Connector mm	Net Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
MHDE051Plus	1265	520	890	12.7	28.6	73	1265	890	980	-	-	-	-	685
MHDE071Plus	1265	520	890	25.4	28.6	81	1265	890	980	-	-	-	-	685
MHDE081Plus	2215	520	890	25.4	34.9	123	2215	890	950	980	-	-	-	685
MHDE101Plus	2215	520	890	31.7	34.9	130	2215	890	950	980	-	-	-	685
MHDE131Plus	2215	520	890	31.7	34.9	144	2215	890	950	980	-	-	-	685
MHDE151Plus	2215	520	890	38.1	41.3	153	2215	890	950	980	-	-	-	685
MHDE181Plus	3165	520	890	38.1	41.3	198	3165	890	950	950	980	-	-	685
MHDE221Plus	3165	520	890	38.1	41.3	219	3165	890	950	950	980	-	-	685
MHDE251Plus	3315	520	1015	38.1	50.8	261	3315	1015	750	750	750	780	-	800
MHDE281Plus	3315	520	1015	38.1	50.8	277	3315	1015	750	750	750	780	-	800
MHDE341Plus	4065	520	1015	38.1	50.8	333	4065	1015	750	750	750	750	780	800

MHDE-B

6.35/12.7mm

MHDE B Staggered Low Temperature Heavy Duty Induced Draught Coolers (6.35/12.7mm)								
Model		MHDE051B	MHDE071B	MHDE101B	MHDE151B	MHDE221B	MHDE281B	MHDE341B
Capacity Watts	SC3 Cond* ¹							
	R404A	5,600	8,080	10,810	16,030	23,620	29,540	36,260
	R507A	5,432	7,838	10,486	15,549	22,911	28,654	35,172
	R448A	5,320	7,676	10,270	15,229	22,439	28,063	34,447
	R449A	5,264	7,595	10,161	15,068	22,203	27,768	34,084
	SC4 Cond* ²							
	R404A	4,300	6,190	8,310	12,300	18,080	22,690	27,760
	R507A	4,171	6,004	8,061	11,931	17,538	22,009	26,927
	R448A	4,042	5,819	7,811	11,562	16,995	21,329	26,094
	R449A	3,999	5,757	7,728	11,439	16,814	21,102	25,817
Fin Spacing, mm		6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7
No. of Rows		4	6	4	6	6	6	6
Internal Volume, L		9.5	14.6	18.9	29.0	43.6	53.2	66.5
Total Heat Transfer Surface Area, m ²		19.6	29.5	39.3	58.9	88.4	108.5	135.7
Fan Data (500mm Dia)	No. of Fans, Qty. x Dia., mm	1 x 500	1 x 500	2 x 500	2 x 500	3 x 500	4 x 500	5 x 500
	Air Flow, m ³ /h	7,516	7,148	15,032	14,296	21,444	28,000	35,000
	Air Throw, m	18	18	20	20	22	23	24
	Power Supply	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz
	Total Power, W	550	550	1,100	1,100	1,650	2,200	2,750
	Total Current, A	1.05	1.05	2.10	2.10	3.15	4.20	5.25
Defrost Heater Data	Total Watts, W	5,250	5,250	8,700	8,700	13,600	15,320	18,280
	Total Amps, A	9.3	9.3	15.9	15.9	25.5	30.7	36.6
Net Weight, kg		73	81	130	153	219	277	333
Dimensions, mm	Length	1,265	1,265	2,215	2,215	3,165	3,315	4,065
	Width	520	520	520	520	520	520	520
	Height	890	890	890	890	890	1,015	1,015
	Inlet Connector	13	25	32	38	38	38	38
	Outlet Connector	28.6	28.6	34.9	41.3	41.3	50.8	50.8
Mounting Dimensions, mm	A	1265.0	1265.0	2215.0	2215.0	3165.0	3315.0	4065.0
	B	890	890	890	890	890	1015	1015
	C	980	980	950	950	950	750	750
	D	-	-	980	980	980	750	750
	E	-	-	-	-	980	750	750
	F	-	-	-	-	-	780	750
	G	-	-	-	-	-	-	750
	H	685	685	685	685	685	800	780

MHDE-Plus

11mm

MHDE Plus Low Temperature Heavy Duty Induced Draught Coolers (11mm)								
Model		MHDE051Plus	MHDE071Plus	MHDE101Plus	MHDE151Plus	MHDE221Plus	MHDE281Plus	MHDE341Plus
Capacity Watts	SC3 Cond* ¹							
	R404A	4,820	7,030	9,180	13,950	20,530	25,770	32,000
	R507A	4,675	6,819	8,905	13,532	19,914	24,997	31,040
	R448A	4,579	6,679	8,721	13,253	19,504	24,482	30,400
	R449A	4,531	6,608	8,629	13,113	19,298	24,224	30,080
	SC4 Cond* ²							
	R404A	3,720	5,420	7,100	10,680	15,800	19,930	24,780
	R507A	3,608	5,257	6,887	10,360	15,326	19,332	24,037
	R448A	3,497	5,095	6,674	10,039	14,852	18,734	23,293
	R449A	3,460	5,041	6,603	9,932	14,694	18,535	23,045
Fin Spacing, mm		11	11	11	11	11	11	11
No. of Rows		4	6	4	6	6	6	6
Internal Volume, L		9.5	14.6	18.9	29.0	43.6	53.2	66.5
Total Heat Transfer Surface Area, m ²		16.0	24.0	32.0	48.0	72.0	88.4	110.5
Fan Data (500mm Dia)	No. of Fans, Qty. x Dia., mm	1 x 500	1 x 500	2 x 500	2 x 500	3 x 500	4 x 500	5 x 500
	Air Flow, m ³ /h	7,581	7,223	15,162	14,445	21,668	28,371	35,464
	Air Throw, m	18	18	20	20	22	23	24
	Power Supply	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz	400V/3P/50Hz
	Total Power, W	550	550	1,100	1,100	1,650	2,200	2,750
	Total Current, A	1.05	1.05	2.10	2.10	3.15	4.20	5.25
Defrost Heater Data	Total Watts, W	5,250	5,250	8,700	8,700	13,600	15,320	18,280
	Total Amps, A	9.3	9.3	15.9	15.9	25.5	30.7	36.6
Net Weight, kg		73	81	130	153	219	277	333
Dimensions, mm	Length	1,265	1,265	2,215	2,215	3,165	3,315	4,065
	Width	520	520	520	520	520	520	520
	Height	890	890	890	890	890	1,015	1,015
	Inlet Connector	13	25	32	38	38	38	38
	Outlet Connector	28.6	28.6	34.9	41.3	41.3	50.8	50.8
Mounting Dimensions, mm	A	1265.0	1265.0	2215.0	2215.0	3165.0	3315.0	4065.0
	B	890	890	890	890	890	1015	1015
	C	980	980	950	950	950	750	750
	D	-	-	980	980	950	750	750
	E	-	-	-	-	980	750	750
	F	-	-	-	-	-	780	750
	G	-	-	-	-	-	-	750
	H	685	685	685	685	685	800	780

Industrial Unit Cooler NKH Series



26.5 127.2kW

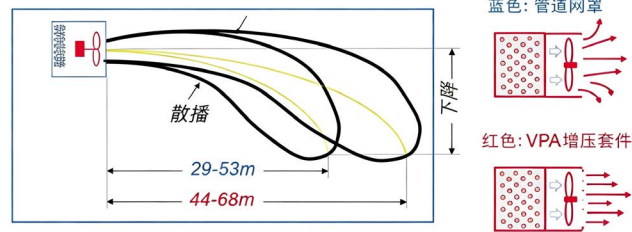
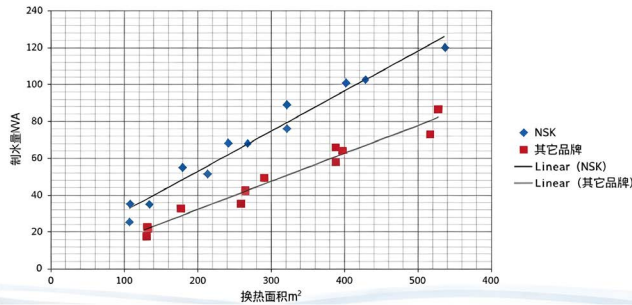
Nomenclature

NKH ① 3 ② x6 ③ D ④ B2 ⑤ R ⑥ Y ⑦ HGT ⑧

① Fin type H:High-efficiency fin	⑥ Fin spacing R:4mm L/C:6mm S:9mm T:10mm	DAE Water defrost (Only for R and L) RVU Sheel defrost heaters(Only using with coil electrical)M60 Electrical fans 230-400V/3/60Hz VPA Air pressure shell EGU Glycolwater extension BAE Paint coil protection CMU Motors factory wired ELU Coil electiral defrost (Coil and Drain tray)* *Only R,L series;C,S,T standard Coil electrical defrost
② No.of fans 1~4	⑦ Blank:R22 Y:R404A/R507	
③ Fan Dia φ 6:630mm 8:800mm	⑧ Options Stainless Steel HGT:Hot Gas Defrost (Coil and drain pan)	
④ Motor connection D:Delta		
⑤ Module		

Note:
Electrical defrost is standard for low temp units.

Advantages



- Installation**
Electrical and refrigerant connections easily accessible for simple installation.
- Servicing/Maintenance**
The galvanized steel side panels and drain pan are hinge-mounted.
Easy accessibility, maintenance and cleaning.
External installation of fans offering easy access possible interventions.

Description

- 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.
- The NKH unit coolers are delivered in mounting position in reinforced crates.
- The external rotor fans are equipped with fan guards compliant with safety standards.
- 2 fan types are used for the NKH range
@ 630mm 4 pole 1500 rpm
@ 800mm 6 pole 1000 rpm
- The motors are of the three-phase type, 380 V, 50 Hz, IP 54, Class F.
- 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.
- The finned coils of the NKH range are designed with aluminium fins spaced at 4,6,9,crimped onto copper tubes.
- 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.

Defrost

► 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

"Low-temperature" electric defrost (ELU) models are available as an optional extra.

A water defrost (DAE) option is available for room temperature equal to or greater than +4°C .

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.



Options

● Standard ⓪ Optional × Not available

Options	KIRBY	
	NKH...R...-L Medium Temp	NKH...C...-S Low Temp
Motor		
Freddox motor	×	×
EBM motor(EC)	×	×
ZIEHL-ABEGG motor	●	●
Fin		
Fin coating (blue fin)	⓪	⓪
Fin coating(black electrophoresis)*	×	×
Casing		
Galvanized steel	●	●
Stainless steel	⓪	⓪
Defrost		
Electrical defrost	⓪	●
Hot gas defrost(coil&tray)	⓪	⓪
Water defrost	⓪	×
Shell defrost heaters	⓪	⓪
Fin spacing		
4mm (...R)	●	×
6mm (...L)	●	×
6mm (...C)	×	●
9mm (...S)	×	●
10mm (...T)	×	●
Others		
Fan wiring	⓪	⓪
Fan 60Hz	⓪	⓪
Air pressure shell	⓪	⓪
Glycol	⓪	⓪

Note:

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

Pre-Selection

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

Model	fin spacing 4mm			fin spacing 6mm			fin spacing 9mm		
	Air flow	Capacity	Air throw	Air flow	Capacity	Air throw	Air flow	Capacity	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

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

Correction Factors

R			
°C	Factors	Max.KTD	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

L			
°C	Factors	Max.KTD	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			
°C	Factors	Max.KTD	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

S			
°C	Factors	Max.KTD	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

Limitations:

If the room temperature is below +2 °C , the unit will launch the default electric heater defrost or hot-gas defrost methods.

The air cooler needs to change the distributor if the temperature goes beyond the normal range; please consult your local Beijer Ref representative.

Medium Temp Technical Data

4mm

Model	Capacity KW SC2*1				Internal Volume dm³	No. of rows	Surface (m²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m³/h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 R	26.4	25.61	25.34	25.08	28.7	8	156	1	11650	29	1900	3.2	13800	200
NKH1x8 D C2 R	36.9	35.79	35.42	35.06	35.9	6	195	1	17850	35	2000	4	13500	270
NKH2x6 D B2 R	47.67	46.24	45.76	45.29	43.1	6	234	2	25200	33	3800	6.4	19800	300
NKH3x6 D B1 R	59.47	57.69	57.09	56.5	43.1	4	234	3	40950	41	5700	9.6	19500	370
NKH2x8 D C1 R	61.34	59.5	58.89	58.27	47.9	4	260	2	39000	39	4000	8	17400	420
NKH2x8 D C2 R	72.64	70.46	69.73	69.01	71.8	6	390	2	35700	36	4000	8	26100	480
NKH3x6 D B2 R	74.34	72.14	71.37	70.62	64.6	6	351	3	37800	38	5700	9.6	29250	430
NKH4x6 D B1 R	79.71	77.32	76.52	75.72	55.7	4	312	4	54600	46	7600	12.8	25800	480
NKH3x8 D C1 R	81.55	79.1	78.29	77.47	69.6	4	390	3	58500	45	6000	12	25800	570
NKH4x6 D B2 R	95.24	92.38	91.43	90.48	83.5	6	468	4	50400	43	7600	12.8	38700	550
NKH4x6 D B3 R	106.83	103.63	102.56	101.49	111.3	8	623.9	4	46600	40	7600	12.8	51600	630
NKH3x8 D C2 R	107.46	104.24	103.16	102.09	104.3	6	584.9	3	53550	42	6000	12	38700	670
NKH4x8 D C2 R	127.18	123.36	122.09	120.82	139.1	6	779.9	4	71400	47	8000	16	51300	840

Medium Temp Technical Data

6mm

Model	Capacity KW SC2*1				Internal Volume dm³	No. of rows	Surface (m²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m³/h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 L	25.41	24.65	24.39	24.14	28.7	8	107.4	1	12600	31	1900	3.2	13800	190
NKH1x8 D C2 L	34.39	33.36	33.01	32.67	35.9	6	134.3	1	19200	38	2000	4	13500	260
NKH2x6 D B1 L	35.26	34.2	33.85	33.5	28.7	4	107.2	2	28600	37	3800	6.4	13200	260
NKH2x6 D B3 L	50.99	49.46	48.95	48.44	57.5	8	214.4	2	25200	33	3800	6.4	26400	330
NKH2x8 D C1 L	54.64	53	52.45	51.91	47.9	4	179	2	41300	41	4000	8	17400	400
NKH2x8 D C2 L	68.11	66.07	65.39	64.7	71.8	6	268.5	2	38400	38	4000	8	26100	460
NKH3x6 D B2 L	68.38	66.33	65.64	64.96	64.6	6	241.2	3	40200	40	5700	9.6	29250	410
NKH3x6 D B3 L	75.77	73.5	72.74	71.98	86.2	8	332.3	3	37800	38	5700	9.6	39000	460
NKH4x6 D B2 L	88.61	85.95	85.07	84.18	83.5	6	322.2	4	53600	46	7600	12.8	38700	530
NKH3x8 D C2 L	100.68	97.66	96.65	95.65	104.3	6	402.8	3	57600	45	6000	12	38700	650
NKH4x6 D B3 L	102.39	99.32	98.29	97.27	111.3	8	428.9	4	50400	43	7600	12.8	51600	600
NKH4x8 D C2 L	119.66	116.07	114.87	113.68	139.1	6	536.3	4	76800	50	8000	16	51300	800

* φ630 mm: 380V/3P/50Hz: Δ=1900W max-3,20 A max-Y=1200 W max-1,95A max (5)

* φ800 mm: 380V/3P/50Hz: Δ=2000W max-4,00 A max-Y=1250 W max-2,30A max (5)

- (1) Residual air speed : 0,5 m/s, in compliance with standards.
(2) Electric defrost kit.
(3) For motor connection in star (Y) instead of delta (Δ), refer to the correction factors.

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

Due to the continuous upgrade and improvement of the products, all the technical information in the catalogue may become obsolete, and what is shown on the final product nameplates shall be regarded as final and official.

Low Temp Technical Data

6mm

Model	Capacity KW SC3*1				Internal Volume dm³	No. of rows	Surface (m²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m³/h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 C	19.86	19.26	18.87	18.67	28.7	8	107.4	1	12600	31	1900	3.2	13800	210
NKH1x8 D C2 C	26.02	25.24	24.72	24.46	35.9	6	134.3	1	19200	38	2000	4	13500	280
NKH2x6 D B1 C	26.31	25.52	24.99	24.73	28.7	4	107.2	2	28600	37	3800	6.4	13200	290
NKH2x6 D B2 C	34.5	33.47	32.78	32.43	41.3	6	161.1	2	26800	35	3800	6.4	19800	320
NKH2x6 D B3 C	40.23	39.02	38.22	37.82	57.5	8	214.4	2	25200	33	3800	6.4	26400	360
NKH2x8 D C1 C	41.67	40.42	39.59	39.17	47.9	4	179	2	41300	41	4000	8	17400	440
NKH3x6 D B2 C	51.95	50.39	49.35	48.83	64.6	6	241.2	3	40200	40	5700	9.6	29250	460
NKH3x6 D B3 C	60.5	58.69	57.48	56.87	86.2	8	332.3	3	37800	38	5700	9.6	39000	520
NKH3x8 D C2 C	68.49	66.44	65.07	64.38	104.3	6	402.3	3	57600	45	6000	12	38700	700
NKH4x6 D B3 C	70.22	68.11	66.71	66.01	111.3	8	428.9	4	50400	43	7600	12.8	51600	670

Low Temp Technical Data

9mm

Model	Capacity KW SC3*1				Internal Volume dm³	No. of rows	Surface (m²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m³/h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 S	17.84	17.3	16.95	16.77	28.7	8	74.9	1	13400	33	1900	3.2	13800	210
NKH2x6 D B1 S	22.44	21.77	21.32	21.09	28.7	4	74.9	2	29600	38	3800	6.4	13200	280
NKH1x8 D C2 S	22.92	22.23	21.77	21.54	35.9	6	93.6	1	20150	39	2000	4	13500	280
NKH2x8 D C1 S	35.27	34.21	33.51	33.15	47.9	4	124.8	2	42800	43	4000	8	17400	430
NKH2x6 D B3 S	36.08	35	34.28	33.92	57.5	8	149.8	2	26800	35	3800	6.4	26400	360
NKH2x8 D C2 S	40.85	39.62	38.81	38.4	71.8	6	187.2	2	40300	40	4000	8	26100	480
NKH3x6 D B2 S	45.47	44.11	43.2	42.74	64.6	6	168.5	3	42150	42	5700	9.6	29250	450
NKH3x8 D C1 S	45.8	44.43	43.51	43.05	69.6	4	187.2	3	64200	50	6000	12	25800	590
NKH3x6 D B3 S	54.36	52.73	51.64	51.1	86.2	8	224.7	3	40200	40	5700	9.6	39000	510
NKH3x8 D C2 S	60.62	58.8	57.59	56.98	104.3	6	280.8	3	60450	47	6000	12	38700	670
NKH4x6 D B3 S	63.76	61.85	60.57	59.93	111.3	8	299.5	4	53600	46	7600	12.8	51600	640
NKH4x8 D C2 S	76.19	73.9	72.38	71.62	139.1	6	374.4	4	80600	53	8000	16	51300	860

Model	Capacity KW SC4*1				Internal Volume dm³	No. of rows	Surface (m²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m³/h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 S	14.1	13.68	13.25	13.11	28.7	8	74.9	1	13400	33	1900	3.2	13800	210
NKH2x6 D B1 S	17.57	17.04	16.52	16.34	28.7	4	74.9	2	29600	38	3800	6.4	13200	280
NKH1x8 D C2 S	18.02	17.48	16.94	16.76	35.9	6	93.6	1	20150	39	2000	4	13500	280
NKH2x8 D C1 S	27.08	26.97	26.13	25.85	47.9	4	124.8	2	42800	43	4000	8	17400	430
NKH2x6 D B3 S	28.56	27.7	26.85	26.56	57.5	8	149.8	2	26800	35	3800	6.4	26400	360
NKH2x8 D C2 S	31.45	30.51	29.56	29.25	71.8	6	187.2	2	40300	40	4000	8	26100	480
NKH3x6 D B2 S	35.82	34.75	33.67	33.31	64.6	6	168.5	3	42150	42	5700	9.6	29250	450
NKH3x8 D C1 S	35.01	33.96	32.91	32.56	69.6	4	187.2	3	64200	50	6000	12	25800	590
NKH3x6 D B3 S	43.07	41.78	40.49	40.06	86.2	8	224.7	3	40200	40	5700	9.6	39000	510
NKH3x8 D C2 S	46.63	45.23	43.83	43.37	104.3	6	280.8	3	60450	47	6000	12	38700	670
NKH4x6 D B3 S	49.19	47.71	46.24	45.75	111.3	8	299.5	4	53600	46	7600	12.8	51600	640
NKH4x8 D C2 S	57.79	56.06	54.32	53.74	139.1	6	374.4	4	80600	53	8000	16	51300	860

Low Temp Technical Data

10mm

Model	Capacity KW SC3*1				Internal Volume dm ³	No. of rows	Surface (m ²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m ³ /h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 T	16.88	16.37	16.04	15.87	28.7	8	68.6	1	13400	33	1900	3.2	13800	210
NKH2x6 D B1 T	20.95	20.32	19.9	19.69	28.7	4	68.6	2	29600	38	3800	6.4	13200	280
NKH1x8 D C2 T	21.64	20.99	20.56	20.34	35.9	6	85.7	1	20150	39	2000	4	13500	280
NKH2x8 D C1 T	32.81	31.83	31.17	30.84	47.9	4	114.3	2	42800	43	4000	8	17400	430
NKH2x6 D B3 T	34.12	33.1	32.41	32.07	57.5	8	137.2	2	26800	35	3800	6.4	26400	360
NKH2x8 D C2 T	38.7	37.54	36.77	36.38	71.8	6	171.5	2	40300	40	4000	8	26100	480
NKH3x6 D B2 T	42.73	41.45	40.59	40.17	64.6	6	154.3	3	42150	42	5700	9.6	29250	450
NKH3x8 D C1 T	43.46	42.16	41.29	40.85	69.6	4	171.5	3	64200	50	6000	12	25800	590
NKH3x6 D B3 T	51.4	49.86	48.83	48.32	86.2	8	205.8	3	40200	40	5700	9.6	39000	510
NKH3x8 D C2 T	57.51	55.78	54.63	54.06	104.3	6	257.2	3	60450	47	6000	12	38700	670
NKH4x6 D B3 T	60.73	58.91	57.69	57.09	111.3	8	274.4	4	53600	46	7600	12.8	51600	640
NKH4x8 D C2 T	71.87	69.71	68.28	67.56	139.1	6	343	4	80600	53	8000	16	51300	860

* φ630 mm: 380V/3P/50Hz: Δ=1900W max-3,20 A max-Y=1200 W max-1,95A max (5)

* φ800 mm: 380V/3P/50Hz: Δ=2000W max-4,00 A max-Y=1250 W max-2,30A max (5)

- (1) Residual air speed: 0,5 m/s, in compliance with standards.
(2) Electric defrost kit.
(3) For motor connection in star (Y) instead of delta (Δ), refer to the correction factors.

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

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

Due to the continuous upgrade and improvement of the products, all technical information in the catalogue may become obsolete, and what is shown on the final product nameplates shall be regarded as final and official.

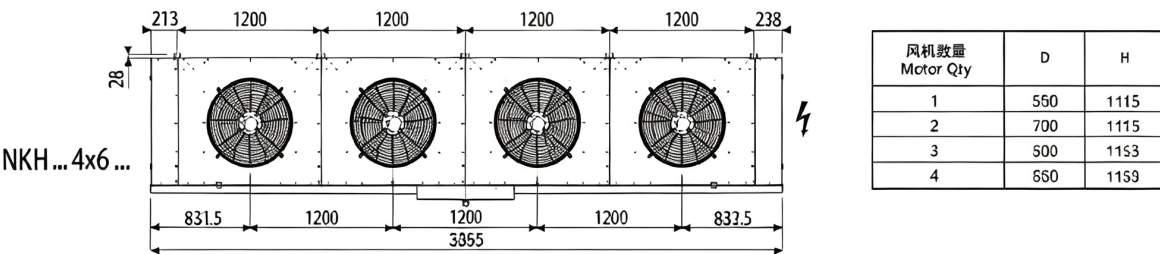
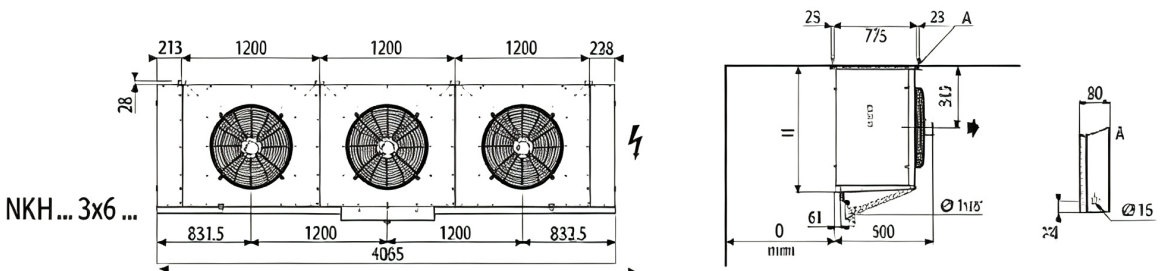
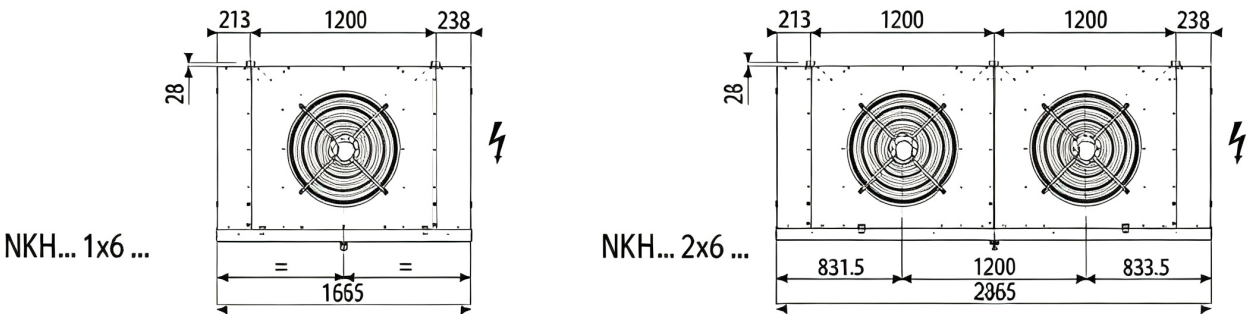
Model	Capacity KW SC4*2				Internal Volume dm ³	No. of rows	Surface (m ²)	Fan data (380V/3P/50Hz)					Heaters*2 (380V/3P/50Hz) Total Power(W)	Net Weight (kg)
	R404A	R507A	R448A	R449A				No. of fans	Air flow (m ³ /h)	Air Throw (m)*1	Total Power (W)	Total Current (A)		
NKH1x6 D B3 T	13.39	12.99	12.59	12.45	28.7	8	68.6	1	13400	33	1900	3.2	13800	210
NKH2x6 D B1 T	16.45	15.96	15.46	15.3	28.7	4	68.6	2	29600	38	3800	6.4	13200	280
NKH1x8 D C2 T	17.06	16.55	16.04	15.87	35.9	6	85.7	1	20150	39	2000	4	13500	280
NKH2x8 D C1 T	25.96	25.18	24.4	24.14	47.9	4	114.3	2	42800	43	4000	8	17400	430
NKH2x6 D B3 T	27.11	26.3	25.48	25.21	57.5	8	137.2	2	26800	35	3800	6.4	26400	360
NKH2x8 D C2 T	30.02	29.12	28.22	27.92	71.8	6	171.5	2	40300	40	4000	8	26100	480
NKH3x6 D B2 T	33.54	32.53	31.53	31.19	64.6	6	154.3	3	42150	42	5700	9.6	29250	450
NKH3x8 D C1 T	32.79	31.81	30.82	30.49	69.6	4	171.5	3	64200	50	6000	12	25800	590
NKH3x6 D B3 T	40.87	39.64	38.42	38.01	86.2	8	205.8	3	40200	40	5700	9.6	39000	510
NKH3x8 D C2 T	44.61	43.27	41.93	41.49	104.3	6	257.2	3	60450	47	6000	12	38700	670
NKH4x6 D B3 T	47.19	45.77	44.36	43.89	111.3	8	274.4	4	53600	46	7600	12.8	51600	640
NKH4x8 D C2 T	55.77	54.1	52.42	51.87	139.1	6	343	4	80600	53	8000	16	51300	860

For zeotropic mixtures, the evaporating temperature is based on the mean temperature.

Dimensions

φ630mm

NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm
	Inlet mm	Outlet mm			Inlet mm	Outlet mm			Inlet mm	Outlet mm			Inlet mm	Outlet mm	
NKH1×6D 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
NKH2×6D 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
NKH3×6D 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
NKH3×6D 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
NKH4×6D 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
NKH4×6D 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	47.6	4×6D B3 S	2×41.3	2×66.7	47.6
NKH4×6D 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	—	—	—	—



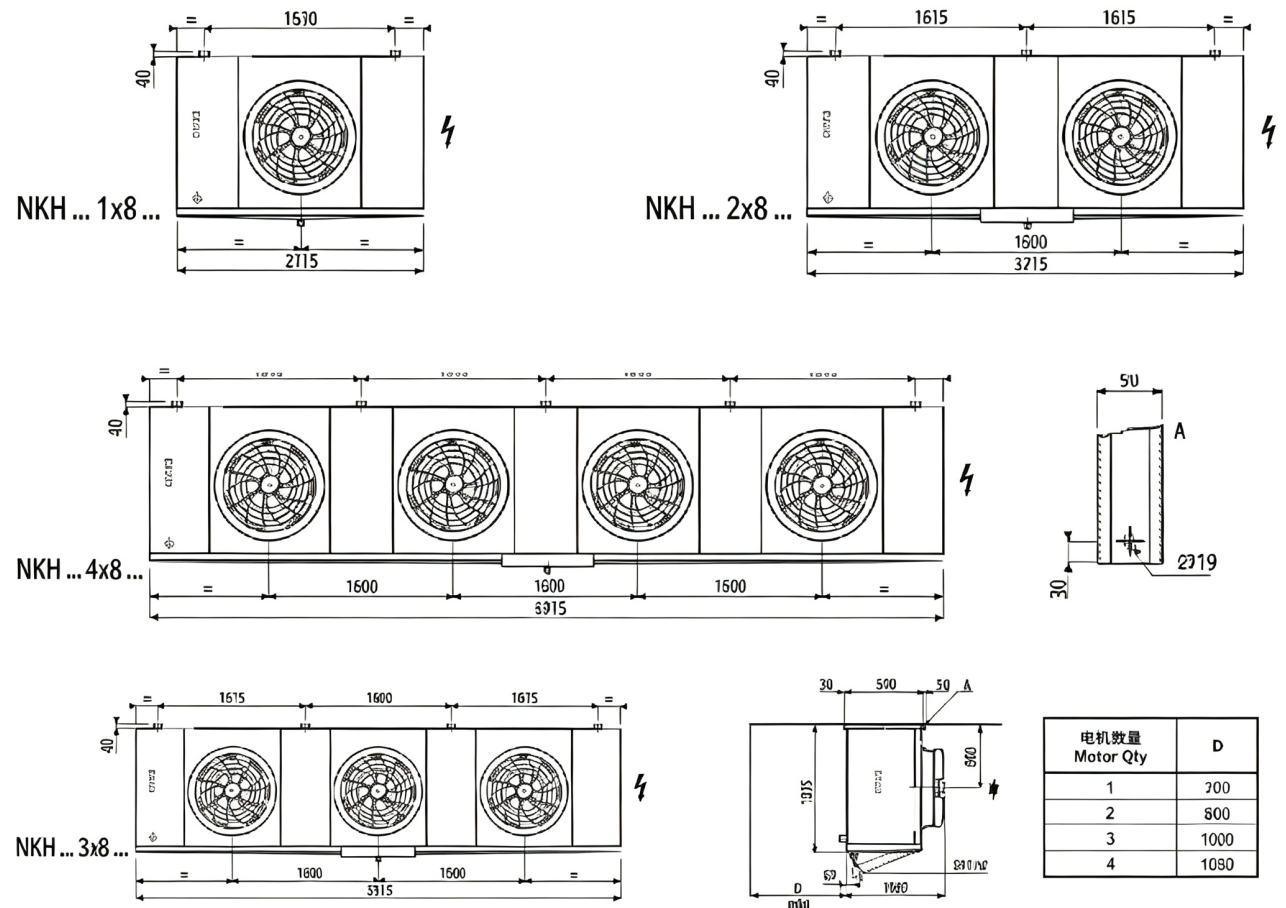
Note:

Liquid / vapor line dimensions are for the product inlet / outlet lines. Please calculate connection line dimensions according to your application.

Dimensions

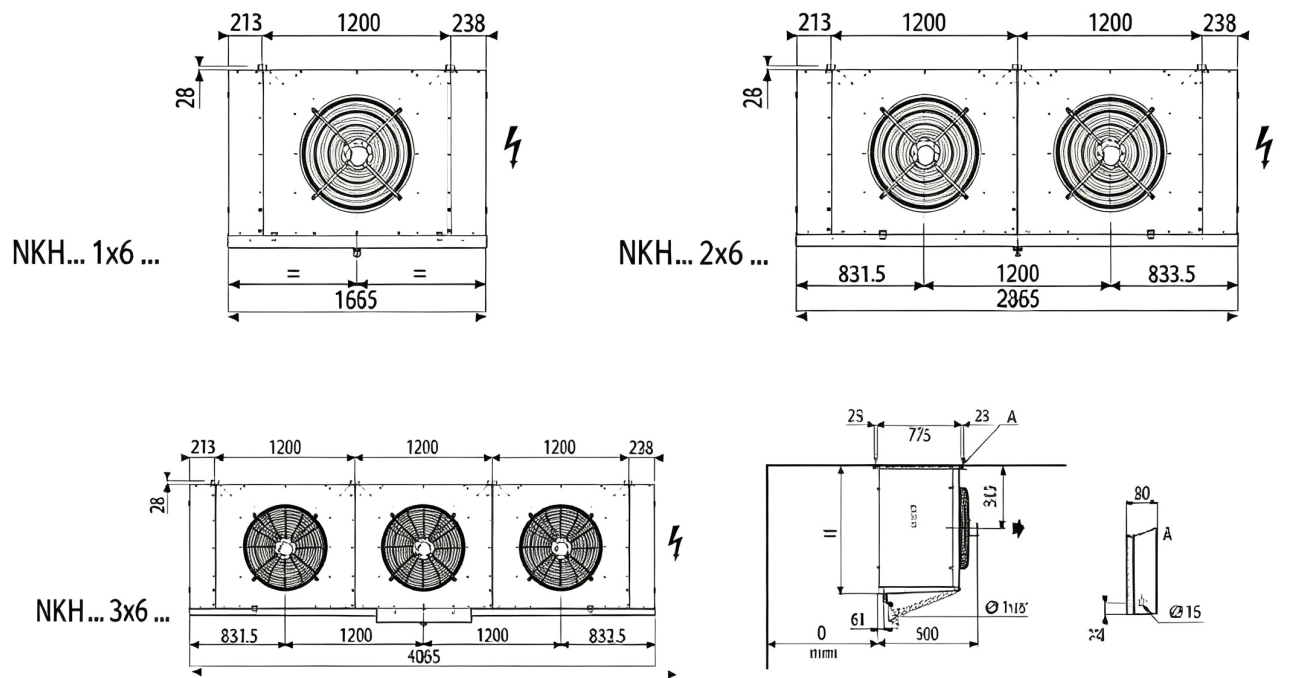
Φ800mm

NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm	NKH Model	Connections		Drain tube mm
	Inlet mm	Outlet mm			Inlet mm	Outlet mm			Inlet mm	Outlet mm			Inlet mm	Outlet mm	
NKH1×8D 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
NKH2×8D 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
NKH2×8D 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
NKH3×8D 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
NKH3×8D 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
NKH4×8D C2 R	2×41.3	2×66.7	47.6	—	—	—	—	—	—	—	—	4×8D C2 S	2×41.3	2×66.7	47.6



Note:
Liquid / vapor line dimensions are for the product inlet / outlet lines. Please calculate connection line dimensions according to your application.

Industrial Unit Cooler
NK9E Series



Technical Data

4mm

Model	Capacity kW SC2				Fin interval mm	Surface m ²	Internal volume dm ³	No. of rows	Air flow m ³ /h	Fan data mm	Air Throw m	Electrical	Motor Total Power W	Motor Total Current A	Heaters	Heaters Total Power W	Liquid line mm	Suction line mm	Weight kg
	R404A	R507A	R448A	R449A															
NKH1X9E D1R	38.24	37.09	36.71	36.33	4	157	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	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	57.6	4	50200	2x910	57	380V/3P/50Hz	5158	9.96	380V/3P	20300	34.9	66.7	570
NKH2X9E D3R	103.2	100.1	99.07	98.04	4	628	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	111.9	110.73	4	471	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	149.1	147.54	4	942	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	230.4	8	83200	4x910	51	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1420

Technical Data

6mm

Model	Capacity kW SC2				Fin interval mm	Surface m ²	Internal volume dm ³	No. of rows	Air flow m ³ /h	Fan data mm	Air Throw m	Electrical	Motor Total Power W	Motor Total Current A	Heaters	Heaters Total Power W	Liquid line mm	Suction line mm	Weight kg
	R404A	R507A	R448A	R449A															
NKH1X9E D1L	31.96	31	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	47.4	45.98	45.5	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	78.7	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

Model	Capacity kW SC3				Fin interval mm	Surface m ²	Internal volume dm ³	No. of rows	Air flow m ³ /h	Fan data mm	Air Throw m	Electrical	Motor Total Power W	Motor Total Current A	Heaters	Heaters Total Power W	Liquid line mm	Suction line mm	Weight kg
	R404A	R507A	R448A	R449A															
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	36.2	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	60.1	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	69.9	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	104.3	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	131.3	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

Technical Data

9mm

Model	Capacity kW SC3				Fin interval mm	Surface m ²	Internal volume dm ³	No. of rows	Air flow m ³ /h	Fan data mm	Air Throw m	Electrical	Motor Total Power W	Motor Total Current A	Heaters	Heaters Total Power W	Liquid line mm	Suction line mm	Weight kg
	R404A	R507A	R448A	R449A															
NKH1X9E D3S	33.61	32.6	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	83.4	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	95.3	94.3	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	120.2	9	601.2	230.4	8	97600	4x910	60	380V/3P/50Hz	10316	19.92	380V/3P	74100	41.3	92.1	1270

Model	Capacity kW SC4				Fin interval mm	Surface m ²	Internal volume dm ³	No. of rows	Air flow m ³ /h	Fan data mm	Air Throw m	Electrical	Motor Total Power W	Motor Total Current A	Heaters	Heaters Total Power W	Liquid line mm	Suction line mm	Weight kg
	R404A	R507A	R448A	R449A															
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	64.2	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	91.6	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 SC2 Condition: -8 °C evaporating temperature, 0 °C room temperature, 8 KTD
*1 SC3 Condition: -25 °C evaporating temperature, -18 °C room temperature, 7 KTD
*2 SC4 Condition: -31 °C evaporating temperature, -25 °C room temperature, 6 KTD

Due to the continuous upgrade and improvement of the products, all the technical information in the catalogue may become obsolete, and what is shown on the final product nameplates shall be regarded as final and official.

For zeotropic mixtures, the evaporating temperature is based on the mean temperature.

Commercial Dual Discharge Unit Cooler TA Series



Nomenclature

TA 1 R ① 6 P ② - H ③ C ④

- ① 1:Series No.

R:High Temp.Fin spacing 3.63mm

L: Low Temp.Fin spacing 6.35mm

② 6P:Number of Poles

6P:6Poles motor
- ③ H:Elec. Defrost

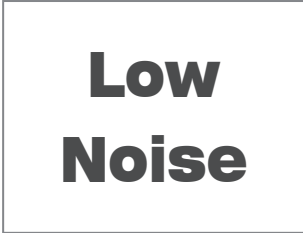
N:Freddox

Blank:Without defrost

④ C:Order Code

Note:
Electrical defrost is standard for low temp units.

Advantages



Silent and Economy



Rounded Corner



Integral Fan Hood

Description

- The ceiling-mounted TA Dual-Discharge Unit Cooler is a silent cooler designed specifically for food-processing rooms, packing rooms, laboratories and cold-storage applications.
- In total, it has 14 models covering both high-temperature range (3,63 mm fin spacing) and medium-temperature range (6,35 mm fin spacing).
- Uniform 350mm outlet diameter hermetic fan.
- ABS engineering-plastic casing, rounded corners, integral fan hood and anti-corrosion treatment create a solid, good-looking exterior and thermal-shock resistance.
- An intermediate drain pan avoids condensation on the casing. Specify when ordering.

Correction Factors

Dual Blow unit coolers standard conditions

Models	tA1 Inlet temperature(°C)	te SST(°C)	Standard TD1(K)
TA...R 6P	+10	0	10
TA...L 6P	0	-8	8

Fin Material Correction Factors

Aluminum fin	Coated Aluminum fin
1	0.97

Note:
Actual capacity = Capacity × Factor × Actual KTD / KTD at rated conditions

Options

● Standard ① Optional × Not available

Options	BOHN	KIRBY
	MMT-Medium Temp	MLT-Low Temp
Motor		
Freddox motor	●	●
EBM motor(EC)	×	×
FMV motor	×	×
ZIEHL-ABEGG motor	①	①
Fin		
Fin coating (blue fin)	①	①
Fin coating (black electrophoresis)	×	×
Casing		
ABS	●	●
Plastics sprayed aluminum	×	×
Stainless steel	×	×
Defrost		
Electrical defrost	①	●
Hot gas defrost(coil)	①	①
Water defrost	×	×
Fin spacing		
7FPI (3.63mm)	●	①
6FPI (4.23mm)	①	①
5FPI (5.08mm)	①	①
4FPI (6.35mm)	①	●
Others		
Fan wiring	●	●
Electrical cabinet(IP54)	×	×

Note:
If other unlisted configurations are required, please consult your local Beijer Ref representative office.

Technical Data

3.63mm

Model TA.R 6P	Capacity kW kW@SC1				Internal Volume dm³	Surface m²	Fan data (220V/1P/50Hz)					Heaters(option) (220V/1P/50Hz)	Net weight kg	Sound pressure level
	R404A kW	R507A kW	R448A kW	R449A kW			(220V/1P/50Hz)							Total power
							No. of fans 350mm	Air flow m³/h	Air throw m	Total power W	Total current A max			
1	3.93	3.81	3.81	3.77	2.23	15.23	1	1310	7	1X68	1X0.30	800	22.6	29
2	6.09	5.91	5.91	5.85	2.23	15.23	2	2910	7	2X68	2X0.30	800	24.5	32
3	7.46	7.24	7.24	7.16	3.35	22.84	2	2750	7	2X68	2X0.30	1200	27.6	32
4	8.06	7.82	7.82	7.74	4.46	30.45	2	2615	7	2X68	2X0.30	1600	32.9	32
5	11.26	10.92	10.92	10.81	5.02	34.26	3	4125	7	3X68	3X0.30	1800	36.4	34
6	13.21	12.81	12.81	12.68	8.36	57.1	3	3765	6	3X68	3X0.30	3000	45.3	34
7	16.32	15.83	15.83	15.67	8.92	60.91	4	5230	7	4X68	4X0.30	3200	54.7	35

Standard condition:
Air inlet temperature=10°C Evaporating temperature=0°C Standard temperature difference=10K
Fan data: 350 mm diameter, 1000 RPM, 220 V / 1P / 50 Hz. LP4 m: Average sound-pressure level in dB(A), measured at 4m distance, at fan height.
For zeotropic mixtures, the evaporating temperature is based on the mean temperature.

Technical Data

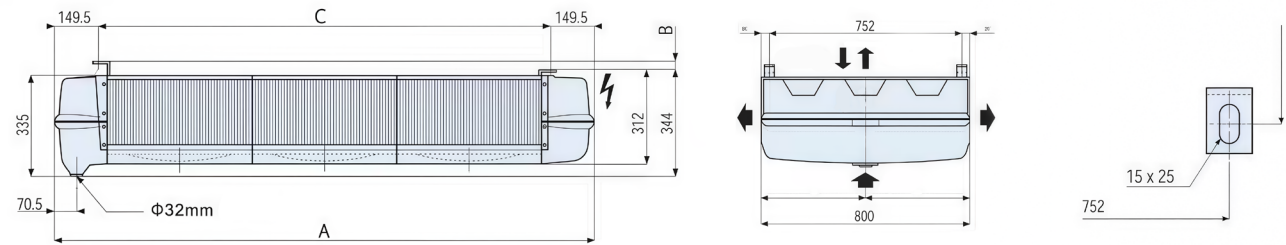
6.35mm

Model TA.R 6P	Capacity kW kW@SC2				Internal Volume dm³	Surface m²	Fan data (220V/1P/50Hz)					Heaters(option) (220V/1P/50Hz)	Net weight kg	Sound pressure level Lp 4m dB(A)
	R404A kW	R507A kW	R448A kW	R449A kW			(220V/1P/50Hz)							
							No. of fans 350mm	Air flow m³/h	Air throw m	Total power W	Total current A max	Total power		
3	4.48	4.35	4.3	4.26	4.46	18.13	2	2760	7	2X68	2X0.30	1200	29.6	32
4	4.89	4.75	4.69	4.65	5.58	22.66	2	2660	7	2X68	2X0.30	1600	32.2	32
5	5.51	5.35	5.29	5.23	5.02	20.4	3	4315	7	3X68	3X0.30	1800	35.3	34
6	7.7	7.48	7.39	7.32	8.36	33.99	3	3990	7	3X68	3X0.30	3000	43.6	34
7	9.82	9.52	9.43	9.33	11.15	45.32	4	5315	7	4X68	4X0.30	3200	58.1	35

Standard condition:
Air-inlet temperature=0°C Evaporating temperature=8°C Standard temperature difference=8K
Fan data: 350 mm diameter,1000 RPM,220V/1P/50Hz. LP4 m: Average sound pressure level in dB(A) measured at 4m, at fan height.
For zeotropic mixtures, the evaporating temperature is based on the mean temperature.

Dimensions

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
Inlet	mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
Outlet	mm	15.88	15.88	22.22	22.22	22.22	28.58	28.58



Note:
Liquid / vapor line dimensions are for the product inlet / outlet lines. Please calculate connection line dimensions according to your application.

Commercial Dual Discharge Unit Cooler GTA Series



22.5 ... 67.3kW

Nomenclature

B ① GTA ② 36 ③ R ④ 6 ⑤ -H ⑥ Z ⑦ S ⑧

- ① Beijer Ref

② GTA Series

③ Module

④ R: Fin spacing 4.23mm

⑤ 6P Motor

⑥ H: Electric defrost(coil+drain pan)
- M: Stainless Steel

D: Insulated double drain pan

⑦ Blank:50Hz

Z:60Hz

⑧ Blank: Domestic products

S: Export products

Advantages



- Installation**

GTA are equipped with easily removable doors ① , thus providing easy access to electrical and coolant connections.
- Servicing/Maintenance**

For all work on the GTA, access to the drain pans does not require removal of the recovery vessel ② rendering maintenance work easier. The fan units are mounted on an articulated panel ③ rendering maintenance work easier.

Description

- The GTA casing is made of white pre-painted galvanized steel.
- On the GTA, each removable drain pan is fixed by hinges. The condensate water is evacuated via 2 large-dimension drain pipes.
- The GTA series is foreseen with removable end covers for easy maintenance and installation.
- The GTA unit cooler is equipped with Ø630 mm fans, 380 V/3P/50 Hz, Qty. 2-4.
- The GTA series are equipped with two new coil configurations optimized for direct-expansion and optional glycol-water applications.
- In total, the GTA series has 9 models composed of aluminium fins with a spacing of 4,23 mm.

Options

● Standard ① Optional × Not available

Category	Options	KIRBY GTA
Motor	Freddox motor	×
	EBM motor(AC)	①
	ZIEHL-ABEGG motor	●
Fin	Fin coating (blue fin)	①
	Fin coating(black electrophoresis)	①
Casing	Galvanized steel plain sheet	●
	Stainless steel	①
Drain pan	Insulated double drain pan	①
Defrost	Electrical defrost(coil+drain pan)	①
	Hot gas defrost(coil using hot gas defrost + drain pan using Electrical defrost)	①
	Water defrost	×
Fin spacing	6FPI (4.23mm)	●
Others	Fan wiring	①

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.

Correction Factors

Model	Room Temp.°C				
Room Temp. Correction Factors	0	2	4	6	15
	1.00	1.07	1.14	1.20	1.20

Technical Data

4.23mm

Model	Surface m²	Internal volume dm³	No. of rows	Fan data					Air throw m	Air flow m³/h	SC2*1 Capacity kW				Heaters(option) (380V/3P/50Hz) Power W
				Fan diam mm	No. of fans	Fan-motor Connection (380V/3P/50Hz) D=Delta Connection Y=Star Connection	Total power W	Total current A			R404A	R507A	R448A	R449A	
BGTA 24R 6	130	25.2	4	630	2	D	1200	2.4	2X12	17770	27.1	26.3	26	25.8	13500
						Y	800	1.36	2X10	13770	23.5	22.8	22.6	22.3	
BGTA 26R 6	195	37.8	6	630	2	D	1200	2.4	2X11	16780	30.9	30	29.7	29.4	13500
						Y	800	1.36	2X9	12750	26.2	25.4	25.2	24.9	
BGTA 28R 6	260	50.4	8	630	2	D	1200	2.4	2X10	15920	34.7	33.7	33.3	33	13500
						Y	800	1.36	2X8	11930	28.8	27.9	27.7	27.4	
BGTA 34R 6	195	37.8	4	630	3	D	1800	3.6	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	
BGTA 36R 6	292	56.7	6	630	3	D	1800	3.6	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	
BGTA 38R 6	390	75.7	8	630	3	D	1800	3.6	2X10	23880	52.3	50.7	50.2	49.7	20700
						Y	1200	2.04	2X8	17900	43.1	41.8	41.4	41	
BGTA 44R 6	260	50.4	4	630	4	D	2400	4.8	2X12	35540	54.7	53.1	52.5	52	27000
						Y	1600	2.72	2X10	27390	47.1	45.7	45.2	44.8	
BGTA 46R 6	390	75.7	6	630	4	D	2400	4.8	2X11	33570	62.1	60.2	59.6	59	27000
						Y	1600	2.72	2X9	25510	52.8	51.2	50.7	50.2	
BGTA 48R 6	520	100.9	8	630	4	D	2400	4.8	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. Standard condition SC2:

Air-inlet temperature = 0 °C Evaporating temperature = -8 °C Standard temperature difference = 8 K

Fan data: Ø630 mm Delta connection: 900 r/min Star connection: 720 r/min

Due to continuous product upgrades and improvements, all technical data within this catalogue may become obsolete. Data shown on the actual product nameplate shall prevail.

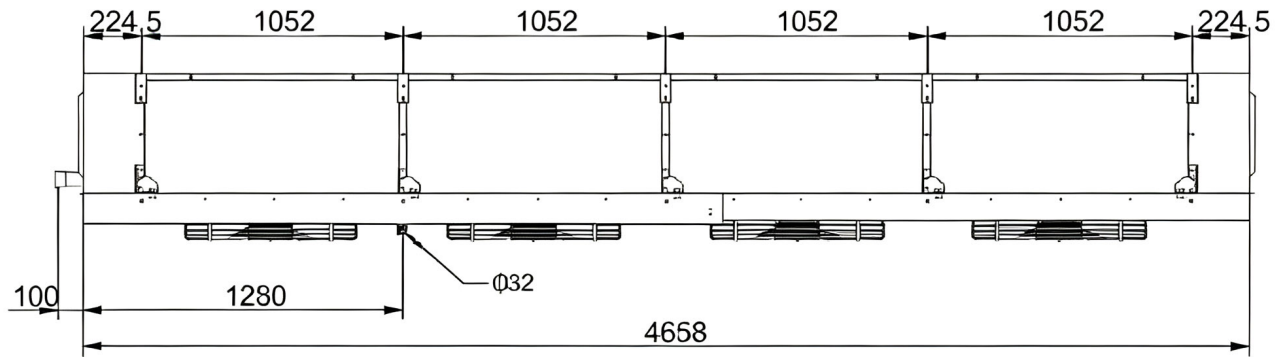
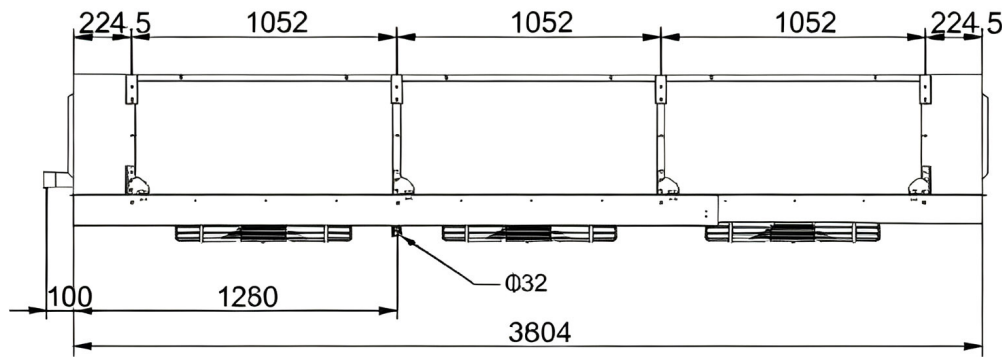
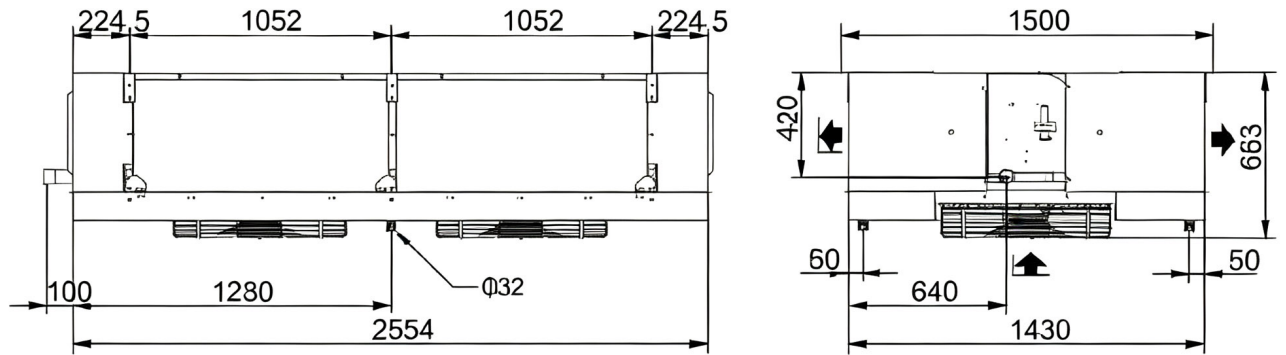
For zeotropic mixtures, the evaporating temperature is based on the mean temperature.

Dimensions

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
Connections	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
	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" 5/8
Net weight	kg	260	292	316	349	395	433	457	506	549

Note:

Liquid / vapor line dimensions are for the product inlet / outlet lines. Please calculate connection line dimensions according to your application.



BMSH / BLSH Unit Cooler



Nomenclature

B ① MS ② H ③ A ④ 1 ⑤ 93 ⑥ 1 ⑦ -1 ⑧ -R1 ⑨ -E ⑩

Manufacturer	①	B	Beijer
Usage Application	②	MS	Medium Temperature - Standard
Refrigerant	③	LS	Low Temperature - Standard
Fan Size	④	H	HFC
Number of Fans	⑤	A	300mm
		B	350mm
		1	1 Fan
		2	2 Fans
		3	3 Fans
Coil Block	⑥	4	4 Fans
		5	5 Fans
		93	Series 9000 - 3 Row
		94	Series 9000 - 4 Row
Fan Type	⑦	95	Series 9000 - 5 Row
Series & Power Supply	⑧	96	Series 9000 - 6 Row
Expansion Valve Type	⑨	1	Single Phase, AC Fan
		1	Single Phase
		2	Three Phase
		R1	Carel E2V09 + EVD-Ice
		R2	Carel E2V11 + EVD-Ice
		R3	Carel E2V14 + EVD-Ice
		R4	Carel E2V18 + EVD-Ice
Defrost Type	⑩	R5	Carel E2V24 + EVD-Ice
		R6	Carel E2V30 + EVD-Ice
		R7	Carel E2V35 + EVD-Ice
		E	Electric Heat

Feature

- Medium-temperature model (6FPI): Cooling capacity: 1.8 - 19.8kW @R404A SC2.
- Low-temperature model (4FPI): Cooling capacity: 1.3 - 12.4kW @R404A SC3
- High-quality Ziehl-Abegg 300/350mm motors, featuring high performance and low noise.
- Pre-installed Carel EVD ice electronic expansion valve.
- More precise and rapid superheat control to enhance system performance.
- Pre-installed supercapacitors that can close the electronic expansion valve during sudden power outages to prevent liquid backflow.
- High-efficiency cross-tooth copper tubes.
- Electric defrost models are equipped with temperature protection switches.
- Low-temperature models are equipped with fan delay switches.



Dimensions

Model		Fans	A	B	C	D
		QTY. x DIA.	mm	mm	mm	mm
BMSHA1941-1-R1	BMSHA1941-1-R1-E	1x300	440	750	494	-
BMSHA1961-1-R1	BMSHA1961-1-R1-E	1x300	440	750	494	-
BLSHA1961-1-R1		1x300	440	750	494	-
BMSHA2931-1-R2	BMSHA2931-1-R2-E	2x300	845	1,155	494	-
BMSHA2951-1-R3	BMSHA2951-1-R3-E	2x300	845	1,155	494	-
BLSHA2941-1-R2		2x300	845	1,155	494	-
BLSHA2961-1-R3		2x300	845	1,155	494	-
BMSHA3941-1-R3	BMSHA3941-2-R3-E	3x300	1,250	1,560	494	-
BLSHA3941-2-R3		3x300	1,250	1,560	494	-
BLSHA3951-2-R3		3x300	1,250	1,560	494	-
BMSHA4941-1-R4	BMSHA4941-2-R4-E	4x300	1,660	1,970	494	-
BMSHA4961-1-R5	BMSHA4961-2-R5-E	4x300	1,660	1,970	494	-
BLSHA4961-2-R4		4x300	1,660	1,970	494	-
BMSHB1941-1-R2	BMSHB1941-1-R2-E	1x350	540	850	545	-
BLSHB1951-1-R2		1x350	540	850	545	-
BMSHB2931-1-R3	BMSHB2931-2-R3-E	2x350	1,175	1,485	545	-
BMSHB2951-1-R4	BMSHB2951-2-R4-E	2x350	1,175	1,485	545	-
BMSHB2961-1-R4	BMSHB2961-2-R4-E	2x350	1,175	1,485	545	-
BLSHB2941-2-R3		2x350	1,175	1,485	545	-
BLSHB2961-2-R4		2x350	1,175	1,485	545	-
BMSHB3951-1-R5	BMSHB3951-2-R5-E	3x350	1,745	2,060	545	-
BMSHB3961-1-R5	BMSHB3961-2-R5-E	3x350	1,745	2,060	545	-
BLSHB3951-2-R4		3x350	1,745	2,060	545	-
BLSHB3961-2-R5		3x350	1,745	2,060	545	-
BMSHB4951-1-R5	BMSHB4951-2-R5-E	4x350	2,320	2,630	545	1,165
BLSHB4961-2-R5		4x350	2,320	2,630	545	1,165
BMSHB5961-1-R7	BMSHB5961-2-R7-E	5x350	2,890	3,200	545	1,735
BLSHB5961-2-R5		5x350	2,890	3,200	545	1,735

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