

NK HEAVY COMMERCIAL EVAPORATORS

Ideal Solution
for Industrial and
Deep Freezing Applications



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BEIJER REF
Australia

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Introduction

The NK Heavy Commercial evaporators are designed for industrial refrigeration, cold storage or deep-freezing applications.

Features & Benefits

The NK Heavy Commercial evaporator range offers:

- Wide range of options for specific heavy duty industrial applications, included various fin spacing profiles.
- Pre-painted, galvanized steel casing offering high resistance to corrosion and external damage.
- High efficiency fins deliver improved efficiency, with reduced heat exchanger size enabling fast defrost times, particularly suitable for packaged products.
- Shielded electric heating elements, inserted in sleeves located under the finned coil, produces homogenous heat distribution for fast and efficient defrost.
- Hinge mounted side panels and drain pan allow ease access for maintenance, cleaning and commissioning.

NK Heavy Commercial evaporators can be configured with the following options:

- Air pressure shell ventilation, allowing the connection of a textile duct
- Blygold coil protectant
- Glycol water and coolant
- Light electric, electric and hot gas defrost

NK Heavy Commercial Evaporators – - Nomenclature

NKH	3X6 Fans # X Ø Number of Fans x Diameter	D	B2	R Fin Spacing R 4mm L 6mm C 6mm S 9mm
Product Brand NKH Kirby Heavy Commercial	Module	Motor Connection D Delta		

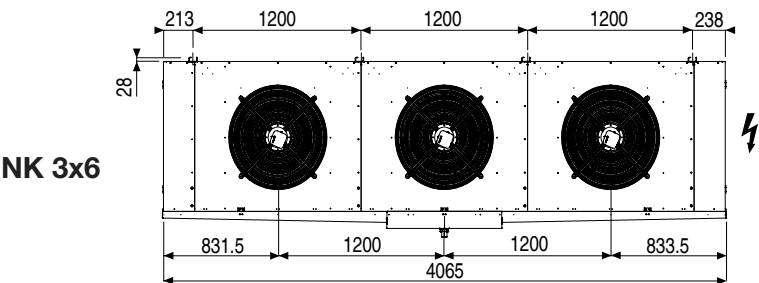
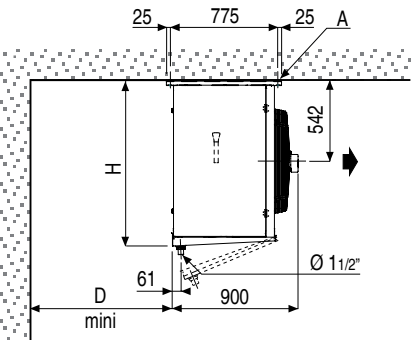
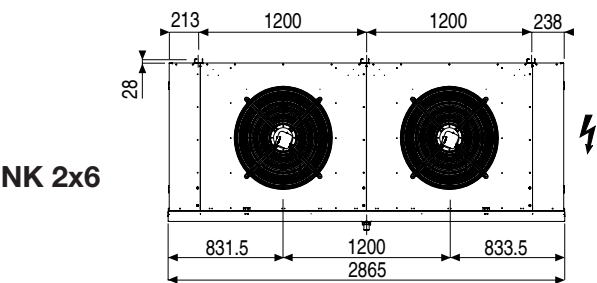
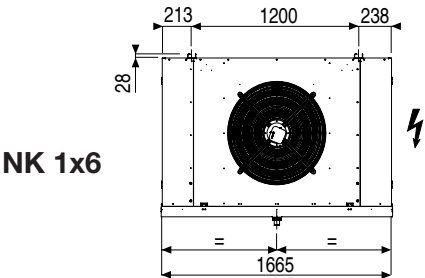
PRODUCT NUMBER	CAPACITY WATTS @ -4°C SST & 6KTD		FAN MOTOR DATA						DEFROST HEATER DATA		
			NO. OF FANS	AIR MOVEMENT		ELECTRICAL			ELECTRICAL		
	R448A	R513A			FLOW (l/s)	THROW (m)	WATTS	AMPS	PHASE	WATTS	AMPS
630mm FAN DIAMETER											
NKH1X6DB3R	20,333	19,068	1	3,236	38	1,900	3.2	THREE	10,350	14.9	THREE
NKH2X6DB2R	36,710	34,427	2	7,000	42	3,800	6.4	THREE	13,200	19.1	THREE
NKH3X6DB1R	45,802	42,953	3	11,375	50	5,700	9.6	THREE	19,500	28.1	THREE
NKH3X6DB2R	57,274	53,711	3	10,500	47	5,700	9.6	THREE	19,500	28.1	THREE
NKH4X6DB1R	61,382	57,564	4	15,167	55	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB2R	73,344	68,782	4	14,000	52	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB3R	82,272	77,155	4	12,944	49	7,600	12.8	THREE	38,700	55.9	THREE
NKH1X6DB3L	19,565	18,348	1	3,500	40	1,900	3.2	THREE	10,350	14.9	THREE
NKH2X6DB1L	27,149	25,460	2	7,944	46	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB3L	39,264	36,822	2	7,000	42	3,800	6.4	THREE	19,800	28.6	THREE
NKH3X6DB2L	52,656	49,381	3	11,167	49	5,700	9.6	THREE	19,500	28.1	THREE
NKH3X6DB3L	58,349	54,720	3	10,500	47	5,700	9.6	THREE	29,250	42.2	THREE
NKH4X6DB2L	68,237	63,992	4	14,889	55	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB3L	78,845	73,941	4	14,000	52	7,600	12.8	THREE	38,700	55.9	THREE
800mm FAN DIAMETER											
NKH1X8DC2R	28,416	26,649	1	4,958	40	2,000	4.0	THREE	9,000	13.0	THREE
NKH2X8DC1R	47,242	44,303	2	10,833	44	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2R	55,939	52,460	2	9,917	41	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC1R	62,803	58,897	3	16,250	50	6,000	12.0	THREE	25,800	37.2	THREE
NKH3X8DC2R	82,752	77,605	3	14,875	47	6,000	12.0	THREE	25,800	37.2	THREE
NKH4X8DC2R	97,939	91,847	4	19,833	52	8,000	16.0	THREE	34,200	49.4	THREE
NKH1X8DC2L	26,486	24,839	1	5,333	43	2,000	4.0	THREE	9,000	13.0	THREE
NKH2X8DC1L	42,077	39,460	2	11,472	46	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2L	52,454	49,192	2	10,667	43	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC2L	77,530	72,707	3	16,000	50	6,000	12.0	THREE	25,800	37.2	THREE
NKH4X8DC2L	92,150	86,419	4	21,333	55	8,000	16.0	THREE	34,200	49.4	THREE

PRODUCT NUMBER	CAPACITY WATTS @ -24°C SST & 6KTD		FAN MOTOR DATA						DEFROST HEATER DATA		
			NO. OF FANS	AIR MOVEMENT		ELECTRICAL			ELECTRICAL		
	R448A	R513A			FLOW (l/s)	THROW (m)	WATTS	AMPS	PHASE	WATTS	AMPS
630mm FAN DIAMETER											
NKH1X6DB3C	16,169	14,637	1	3,500	40	1,900	3.2	THREE	13,800	19.9	THREE
NKH2X6DB1C	21,423	19,393	2	7,944	46	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB2C	28,092	25,430	2	7,444	44	3,800	6.4	THREE	19,800	28.6	THREE
NKH2X6DB3C	32,756	29,653	2	7,000	42	3,800	6.4	THREE	26,400	38.1	THREE
NKH3X6DB2C	42,304	38,296	3	11,167	49	5,700	9.6	THREE	29,250	42.2	THREE
NKH3X6DB3C	49,267	44,600	3	10,500	47	5,700	9.6	THREE	39,000	56.3	THREE
NKH4X6DB3C	57,181	51,763	4	14,000	52	7,600	12.8	THREE	51,600	74.5	THREE
NKH1X6DB3S	14,526	13,149	1	3,722	42	1,900	3.2	THREE	13,800	19.9	THREE
NKH2X6DB1S	18,269	16,538	2	8,222	47	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB3S	29,384	26,600	2	7,444	44	3,800	6.4	THREE	26,400	38.1	THREE
NKH3X6DB2S	37,022	33,514	3	11,708	51	5,700	9.6	THREE	29,250	42.2	THREE
NKH3X6DB3S	44,261	40,067	3	11,167	49	5,700	9.6	THREE	39,000	56.3	THREE
NKH4X6DB3S	51,918	46,999	4	14,889	55	7,600	12.8	THREE	51,600	74.5	THREE
800mm FAN DIAMETER											
NKH1X8DC2C	21,185	19,178	1	5,333	43	2,000	4.0	THREE	13,500	19.5	THREE
NKH2X8DC1C	33,934	30,719	2	11,472	46	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC2C	55,775	50,491	3	16,000	50	6,000	12.0	THREE	38,700	55.9	THREE
NKH1X8DC2S	18,668	16,899	1	5,597	44	2,000	4.0	THREE	13,500	19.5	THREE
NKH2X8DC1S	28,719	25,998	2	11,889	48	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2S	33,260	30,109	2	11,194	45	4,000	8.0	THREE	26,100	37.7	THREE
NKH3X8DC1S	37,297	33,764	3	17,833	55	6,000	12.0	THREE	25,800	37.2	THREE
NKH3X8DC2S	49,362	44,686	3	16,792	52	6,000	12.0	THREE	38,700	55.9	THREE
NKH4X8DC2S	62,045	56,167	4	22,389	48	8,000	16.0	THREE	51,300	74.0	THREE

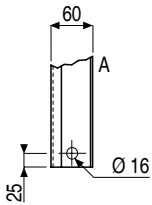
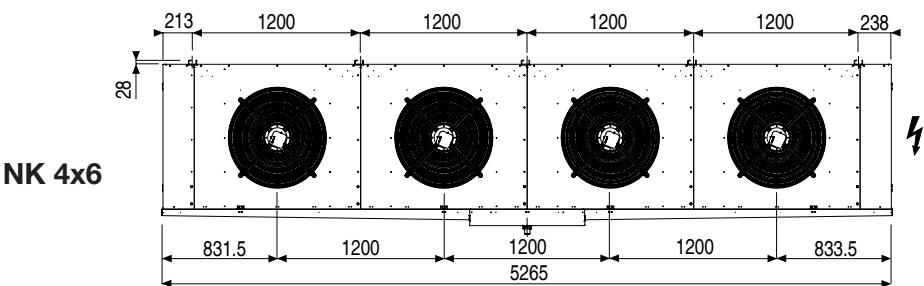
PRODUCT NUMBER	DIMENSIONS (mm)				CONNECTIONS (in)	
	WIDTH	DEPTH	HEIGHT	WEIGHT	INLET	OUTLET
MEDIUM TEMPERATURE - 630mm FAN DIAMETER						
NKH1X6DB3R	1,665	900	1,115	200	1 1/8"	1 5/8"
NKH2X6DB2R	2,865	900	1,115	300	1 3/8"	2 1/8"
NKH3X6DB1R	4,065	900	1,158	370	1 5/8"	2 1/8"
NKH3X6DB2R	4,065	900	1,158	430	2 x 1 3/8"	2 x 2 1/8"
NKH4X6DB1R	5,265	900	1,158	480	2 x 1 5/8"	2 x 2 1/8"
NKH4X6DB2R	5,265	900	1,158	550	2 x 1 3/8"	2 x 2 1/8"
NKH4X6DB3R	5,265	900	1,158	630	2 x 1 5/8"	2 x 2 1/8"
NKH1X6DB3L	1,665	900	1,115	190	1 1/8"	1 5/8"
NKH2X6DB1L	2,865	900	1,115	260	1 3/8"	2 1/8"
NKH2X6DB3L	2,865	900	1,115	330	1 5/8"	2 1/8"
NKH3X6DB2L	4,065	900	1,158	410	2 x 1 3/8"	2 x 2 1/8"
NKH3X6DB3L	4,065	900	1,158	460	1 5/8"	2 5/8"
NKH4X6DB2L	5,265	900	1,158	530	2 x 1 3/8"	2 x 2 1/8"
NKH4X6DB3L	5,265	900	1,158	600	2 x 1 5/8"	2 x 2 1/8"
MEDIUM TEMPERATURE - 800mm FAN DIAMETER						
NKH1X8DC2R	2,115	1,060	1,375	270	1 3/8"	2 1/8"
NKH2X8DC1R	3,715	1,060	1,375	420	1 5/8"	2 5/8"
NKH2X8DC2R	3,715	1,060	1,375	480	1 5/8"	2 5/8"
NKH3X8DC1R	5,315	1,060	1,375	570	1 5/8"	2 5/8"
NKH3X8DC2R	5,315	1,060	1,375	670	2 x 1 5/8"	2 x 2 1/8"
NKH4X8DC2R	6,915	1,060	1,375	840	2 x 1 5/8"	2 x 2 5/8"
NKH1X8DC2L	2,115	1,060	1,375	260	1 3/8"	2 1/8"
NKH2X8DC1L	3,715	1,060	1,375	400	1 5/8"	2 1/8"
NKH2X8DC2L	3,715	1,060	1,375	460	1 5/8"	2 5/8"
NKH3X8DC2L	5,315	1,060	1,375	650	2 x 1 5/8"	2 x 2 1/8"
NKH4X8DC2L	6,915	1,060	1,375	800	2 x 1 5/8"	2 x 2 1/8"

PRODUCT NUMBER	DIMENSIONS (mm)				CONNECTIONS (in)	
	WIDTH	DEPTH	HEIGHT	WEIGHT	INLET	OUTLET
LOW TEMPERATURE - 630mm FAN DIAMETER						
NKH1X6DB3C	1,665	900	1,115	210	1 1/8"	2 1/8"
NKH2X6DB1C	2,865	900	1,115	290	1 3/8"	2 1/8"
NKH2X6DB2C	2,865	900	1,115	320	1 5/8"	2 5/8"
NKH2X6DB3C	2,865	900	1,115	360	1 5/8"	2 5/8"
NKH3X6DB2C	4,065	900	1,158	460	2 x 1 3/8"	2 x 2 1/8"
NKH3X6DB3C	4,065	900	1,158	520	2 x 1 5/8"	2 x 2 1/8"
NKH4X6DB3C	5,265	900	1,158	670	2 x 1 5/8"	2 x 2 5/8"
NKH1X6DB3S	1,665	900	1,115	210	1 1/8"	2 1/8"
NKH2X6DB1S	2,865	900	1,115	280	1 3/8"	2 1/8"
NKH2X6DB3S	2,865	900	1,115	360	1 3/8"	2 5/8"
NKH3X6DB2S	4,065	900	1,158	450	2 x 1 1/8"	2 x 2 1/8"
NKH3X6DB3S	4,065	900	1,158	510	2 x 1 3/8"	2 x 2 1/8"
NKH4X6DB3S	5,265	900	1,158	640	2 x 1 5/8"	2 x 2 5/8"
LOW TEMPERATURE - 800mm FAN DIAMETER						
NKH1X8DC2C	2,115	1,060	1,375	280	1 3/8"	2 1/8"
NKH2X8DC1C	3,715	1,060	1,375	440	1 5/8"	2 5/8"
NKH3X8DC2C	5,315	1,060	1,375	700	2 x 1 5/8"	2 x 2 5/8"
NKH1X8DC2S	2,115	1,060	1,375	280	1 3/8"	2 1/8"
NKH2X8DC1S	3,715	1,060	1,375	430	1 5/8"	2 5/8"
NKH2X8DC2S	3,715	1,060	1,375	480	1 3/8"	2 5/8"
NKH3X8DC1S	5,315	1,060	1,375	590	1 5/8"	2 5/8"
NKH3X8DC2S	5,315	1,060	1,375	670	2 x 1 5/8"	2 x 2 1/8"
NKH4X8DC2S	6,915	1,060	1,375	860	2 x 1 5/8"	2 x 2 5/8"

Ø 630mm

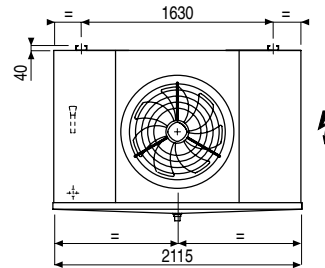


Vent.D		H
1	550	1115
2	700	1115
3	800	1158
4	850	1158

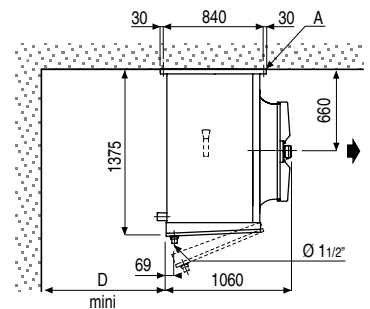
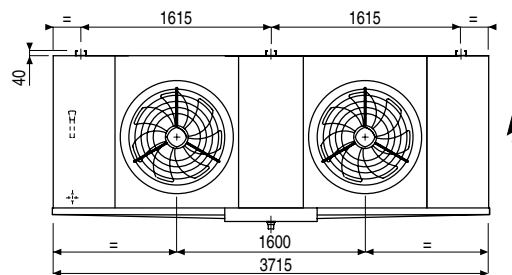


Ø 800mm

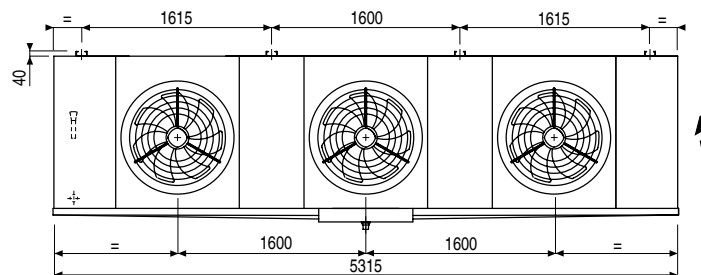
NK 1x6



NK 2x6

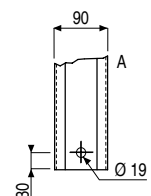
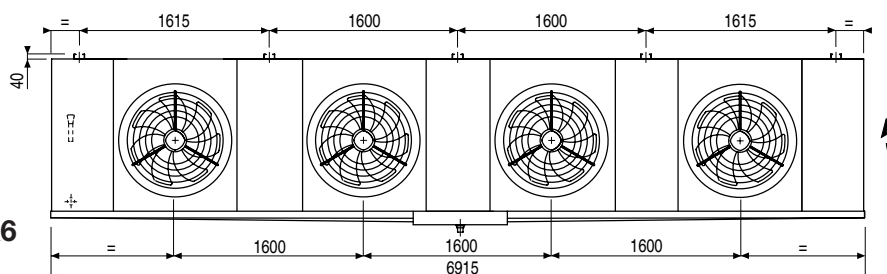


NK 3x6



Vent.D	
1	700
2	900
3	1000
4	1050

NK 4x6



NOTES

[illegible]

A world map in a dark blue color. Numerous white location pins are scattered across the map, with a higher concentration in Europe and Asia. One pin in Europe is labeled with the 'SCM' logo.

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