



KIRBY® NK HEAVY COMMERCIAL Evaporators

Ideal Solution for Industrial
and Deep Freezing
Applications



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KIRBY NK HEAVY COMMERCIAL

Evaporators

Introduction

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

Features & Benefits

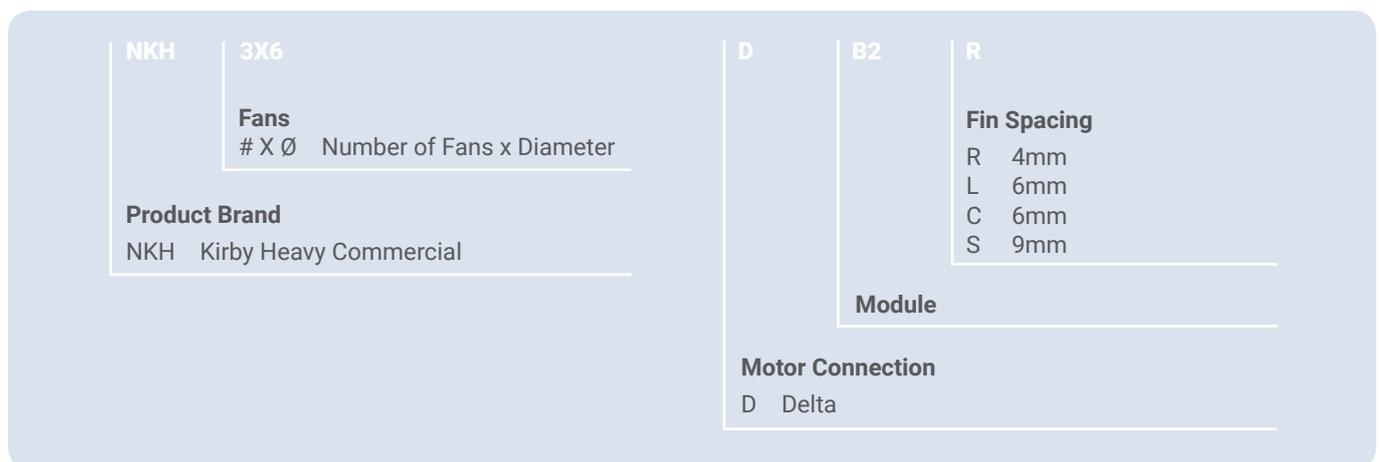
The Kirby® NK Heavy Commercial evaporator range offers:

- 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.

Kirby® 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

Kirby® NK Heavy Commercial Evaporators – Nomenclature



NK HEAVY COMMERCIAL EVAPORATORS

Medium Temperature Performance Data

PRODUCT NUMBER	CAPACITY WATTS @ -4°C SST & 6KTD		FAN MOTOR DATA						DEFROST HEATER DATA		
			NO. OF FANS	AIR MOVEMENT		ELECTRICAL			ELECTRICAL		
	R404A	R134a		FLOW (l/s)	THROW (m)	WATTS	AMPS	PHASE	WATTS	AMPS	PHASE
630mm FAN DIAMETER											
NKH1X6DB3R	21,180	18,427	1	3,236	38	1,900	3.2	THREE	10,350	14.9	THREE
NKH2X6DB2R	38,240	33,269	2	7,000	42	3,800	6.4	THREE	13,200	19.1	THREE
NKH3X6DB1R	47,710	41,508	3	11,375	50	5,700	9.6	THREE	19,500	28.1	THREE
NKH3X6DB2R	59,660	51,904	3	10,500	47	5,700	9.6	THREE	19,500	28.1	THREE
NKH4X6DB1R	63,940	55,628	4	15,167	55	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB2R	76,400	66,468	4	14,000	52	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB3R	85,700	74,559	4	12,944	49	7,600	12.8	THREE	38,700	55.9	THREE
NKH1X6DB3L	20,380	17,731	1	3,500	40	1,900	3.2	THREE	10,350	14.9	THREE
NKH2X6DB1L	28,280	24,604	2	7,944	46	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB3L	40,900	35,583	2	7,000	42	3,800	6.4	THREE	19,800	28.6	THREE
NKH3X6DB2L	54,850	47,720	3	11,167	49	5,700	9.6	THREE	19,500	28.1	THREE
NKH3X6DB3L	60,780	52,879	3	10,500	47	5,700	9.6	THREE	29,250	42.2	THREE
NKH4X6DB2L	71,080	61,840	4	14,889	55	7,600	12.8	THREE	25,800	37.2	THREE
NKH4X6DB3L	82,130	71,453	4	14,000	52	7,600	12.8	THREE	38,700	55.9	THREE
800mm FAN DIAMETER											
NKH1X8DC2R	29,600	25,752	1	4,958	40	2,000	4.0	THREE	9,000	13.0	THREE
NKH2X8DC1R	49,210	42,813	2	10,833	44	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2R	58,270	50,695	2	9,917	41	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC1R	65,420	56,915	3	16,250	50	6,000	12.0	THREE	25,800	37.2	THREE
NKH3X8DC2R	86,200	74,994	3	14,875	47	6,000	12.0	THREE	25,800	37.2	THREE
NKH4X8DC2R	102,020	88,757	4	19,833	52	8,000	16.0	THREE	34,200	49.4	THREE
NKH1X8DC2L	27,590	24,003	1	5,333	43	2,000	4.0	THREE	9,000	13.0	THREE
NKH2X8DC1L	43,830	38,132	2	11,472	46	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2L	54,640	47,537	2	10,667	43	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC2L	80,760	70,261	3	16,000	50	6,000	12.0	THREE	25,800	37.2	THREE
NKH4X8DC2L	95,990	83,511	4	21,333	55	8,000	16.0	THREE	34,200	49.4	THREE

NK HEAVY COMMERCIAL EVAPORATORS

Low Temperature Performance Data

PRODUCT NUMBER	CAPACITY WATTS @ -4°C SST & 6KTD		FAN MOTOR DATA						DEFROST HEATER DATA		
	R404A	R134a	NO. OF FANS	AIR MOVEMENT		ELECTRICAL			ELECTRICAL		
				FLOW (l/s)	THROW (m)	WATTS	AMPS	PHASE	WATTS	AMPS	PHASE
630mm FAN DIAMETER											
NKH1X6DB3C	17,020	14,467	1	3,500	40	1,900	3.2	THREE	13,800	19.9	THREE
NKH2X6DB1C	22,550	19,168	2	7,944	46	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB2C	29,570	25,135	2	7,444	44	3,800	6.4	THREE	19,800	28.6	THREE
NKH2X6DB3C	34,480	29,308	2	7,000	42	3,800	6.4	THREE	26,400	38.1	THREE
NKH3X6DB2C	44,530	37,851	3	11,167	49	5,700	9.6	THREE	29,250	42.2	THREE
NKH3X6DB3C	51,860	44,081	3	10,500	47	5,700	9.6	THREE	39,000	56.3	THREE
NKH4X6DB3C	60,190	51,162	4	14,000	52	7,600	12.8	THREE	51,600	74.5	THREE
NKH1X6DB3S	15,290	12,997	1	3,722	42	1,900	3.2	THREE	13,800	19.9	THREE
NKH2X6DB1S	19,230	16,346	2	8,222	47	3,800	6.4	THREE	13,200	19.1	THREE
NKH2X6DB3S	30,930	26,291	2	7,444	44	3,800	6.4	THREE	26,400	38.1	THREE
NKH3X6DB2S	38,970	33,125	3	11,708	51	5,700	9.6	THREE	29,250	42.2	THREE
NKH3X6DB3S	46,590	39,602	3	11,167	49	5,700	9.6	THREE	39,000	56.3	THREE
NKH4X6DB3S	54,650	46,453	4	14,889	55	7,600	12.8	THREE	51,600	74.5	THREE
800mm FAN DIAMETER											
NKH1X8DC2C	22,300	18,955	1	5,333	43	2,000	4.0	THREE	13,500	19.5	THREE
NKH2X8DC1C	35,720	30,362	2	11,472	46	4,000	8.0	THREE	17,400	25.1	THREE
NKH3X8DC2C	58,710	49,904	3	16,000	50	6,000	12.0	THREE	38,700	55.9	THREE
NKH1X8DC2S	19,650	16,703	1	5,597	44	2,000	4.0	THREE	13,500	19.5	THREE
NKH2X8DC1S	30,230	25,696	2	11,889	48	4,000	8.0	THREE	17,400	25.1	THREE
NKH2X8DC2S	35,010	29,759	2	11,194	45	4,000	8.0	THREE	26,100	37.7	THREE
NKH3X8DC1S	39,260	33,371	3	17,833	55	6,000	12.0	THREE	25,800	37.2	THREE
NKH3X8DC2S	51,960	44,166	3	16,792	52	6,000	12.0	THREE	38,700	55.9	THREE
NKH4X8DC2S	65,310	55,514	4	22,389	48	8,000	16.0	THREE	51,300	74.0	THREE

NK HEAVY COMMERCIAL EVAPORATORS

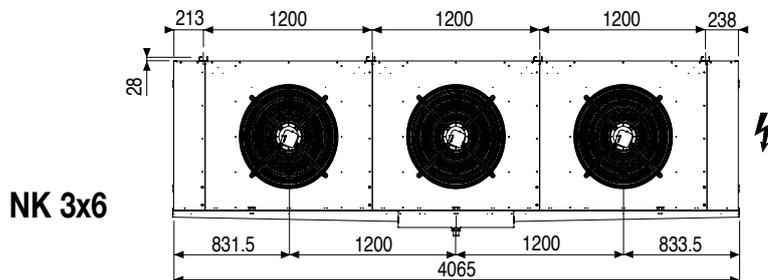
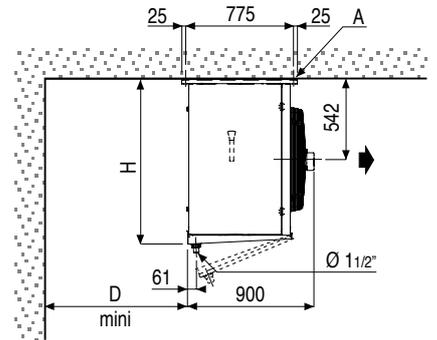
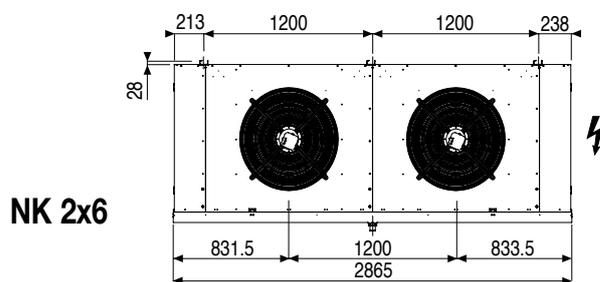
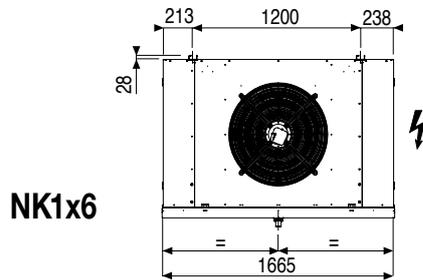
Physical Data

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"
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"

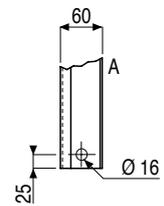
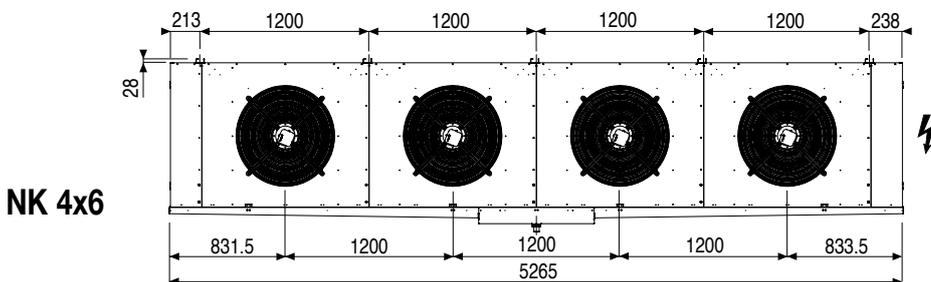
NK HEAVY COMMERCIAL EVAPORATORS

Physical Data

Ø 630mm



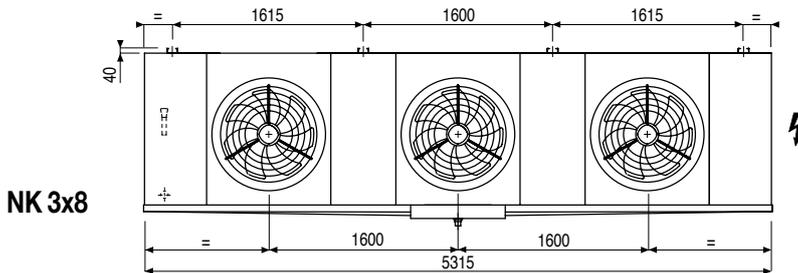
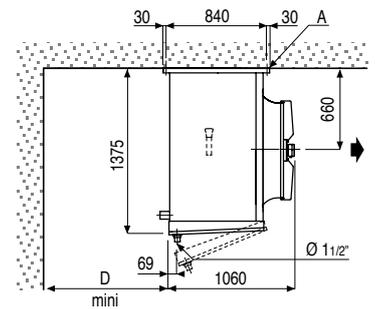
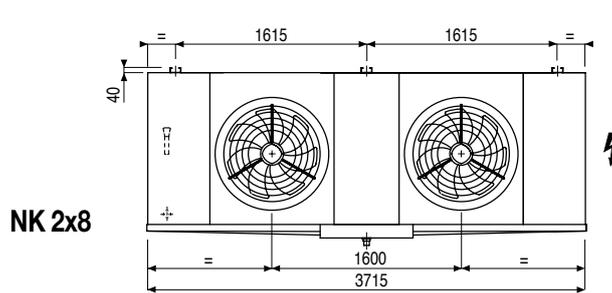
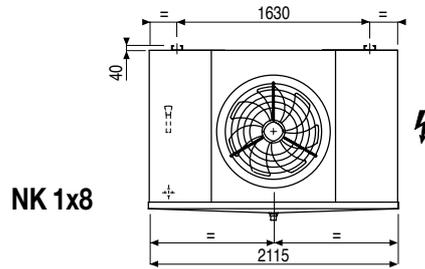
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2	700	1115
3	800	1158
4	850	1158



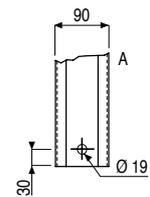
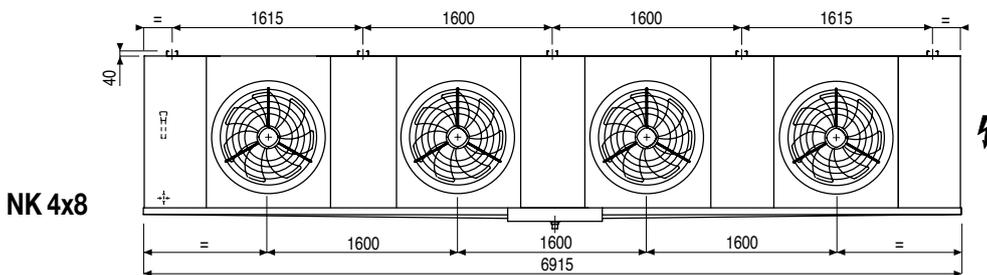
NK HEAVY COMMERCIAL EVAPORATORS

Physical Data

Ø 800mm



Vent.D	
1	700
2	900
3	1000
4	1050





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