



KIRBY[®] HEAVY DUTY READY CONNECT

Evaporators

Legendary toughness meets revolutionary performance



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KIRBY[®] HEAVY DUTY READY CONNECT Evaporators

Introduction and Overview

Legendary Toughness Meets Revolutionary Performance

Revered for its legendary toughness and dependability in critical applications, the Kirby® Heavy Duty evaporator range just got even better with the introduction of the new Ready Connect range.

Kirby® Heavy Duty Ready Connect evaporators are factory fitted with EVD ice, the new control solution for Carel ExV proportional electronic expansion valves directly installed on the evaporator, with a revolutionary design intended specifically for low temperature conditions.

Features & Benefits

Designed specifically for semi-industrial and large commercial applications where optimum cold air flow is paramount, the Kirby® Heavy Duty Ready Connect range offers:

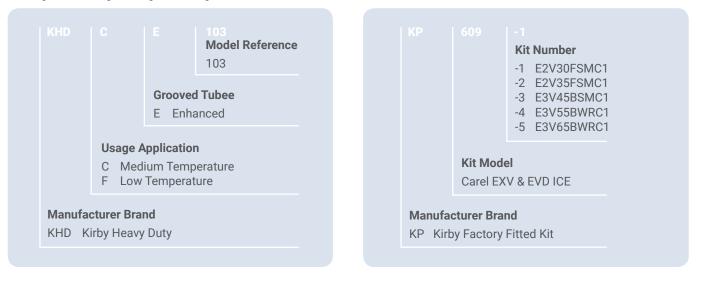
- Simplified installation including factory wiring on all models for fans and heaters
- High airflow from robust fan assemblies ensures efficient pull down and air throw
- · Positive electric defrost standard inclusion for all models
- · Reversible drain tray
- · Simple and fast installation and commissioning
- Extremely short pull-down times
- Precise refrigerant flow
- Enhanced durability rated to IP65
- Operating conditions between -30°C to 40°C



EVD ice is also designed to be compatible with third party regulation and control solutions, using standard communication protocols, or can work as a standalone solution for refrigeration cells and other applications in which compactness and versatility are key.

Kirby® Heavy Duty Ready Connect delivers all the performance benefits available without the need for cabling, welding, or complex configuration. The range also offers the quality and reliability of a factory tested and installed solution, backed by the combined knowledge and strength of both Kirby® and Carel.

Kirby[®] Heavy Duty Ready Connect – Nomenclature



HEAVY DUTY READY CONNECT EVAPORATORS

Medium Temperature Performance Data

	CAPACITY		FAN MOTOR DATA							DEFROST HEATER DATA					
	@ 6 KTD (WATTS)	240V / 50HZ / 1 PHASE							DEFROS	EXPANSION VALVE DATA					
MODEL	R134a	NUMBER	AIR MOVEMENT		MOTORS (TOTAL)		SOUND		TOTAL	TOTAL		FACTORY	CAREL E2V		
		OF FANS	FLOW (l/s)	THROW (m)	WATTS	AMPS	POWER dB(A)	VOLTS	WATTS	AMPS	PHASE	FITTED KIT	MODEL		
KHDCE103	9,482	1	1,920	20	600	1.15	66	415	5,250	8.5	THREE PHASE	KP609-1	E2V30FSMC1		
KHDCE136	12,627	2	3,960	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1		
KHDCE161	15,030	2	3,920	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1		
KHDCE188	17,502	2	3,880	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1		
KHDCE214	19,944	2	3,840	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-3	E3V45BSMC1		
KHDCE263	25,769	3	5,820	24	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-3	E3V45BSMC1		
KHDCE316	28,867	3	5,770	24	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-4	E3V55BWRC1		
KHDCE366	34,005	4	7,770	25	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-4	E3V55BWRC1		
KHDCE430	37,794	4	7,690	25	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-4	E3V55BWRC1		
KHDCE538	46,862	5	9,610	26	3,000	5.75	73	415	18,280	33.6	THREE PHASE	KP609-5	E3V65BWRC1		

	CAPACITY			FAN MOT	OR DATA							EXPANSION VALVE DATA	
	@ 6 KTD (WATTS)			240V / 50H	Z / 1 PHASE	Ξ			DEFRUS	T HEATER I	JATA		
MODEL		NUMBER	AIR MOVEMENT		MOTORS (TOTAL)		SOUND		TOTAL	TOTAL		FACTORY	CAREL E2V
	R404A	OF FANS	FLOW (l/s)	THROW (m)	WATTS	AMPS	POWER dB(A)	VOLTS	WATTS	AMPS	PHASE	FITTED KIT	MODEL
KHDCE103	11,210	1	1,920	20	600	1.15	66	415	5,250	8.5	THREE PHASE	KP609-2	E2V35FSMC1
KHDCE136	14,080	2	3,960	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1
KHDCE161	17,270	2	3,920	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1
KHDCE188	20,100	2	3,880	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-3	E3V45BSMC1
KHDCE214	23,040	2	3,840	22	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-3	E3V45BSMC1
KHDCE263	29,860	3	5,820	24	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-5	E3V65BWRC1
KHDCE316	34,280	3	5,770	24	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-5	E3V65BWRC1
KHDCE366	38,900	4	7,770	25	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-5	E3V65BWRC1
KHDCE430	43,780	4	7,690	25	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-5	E3V65BWRC1
KHDCE538	53,980	5	9,610	26	3,000	5.75	73	415	18,280	33.6	THREE PHASE	KP609-5	E3V65BWRC1

HEAVY DUTY READY CONNECT EVAPORATORS

Low Temperature Performance Data

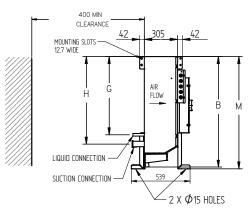
	CAPACITY	FAN MOTOR DATA 240V / 50HZ / 1 PHASE											
	@ 6 KTD (WATTS)								DEFROS	T HEATER I	EXPANSION VALVE DATA		
MODEL	R404A	NUMBER OF FANS	AIR MOVEMENT		MOTORS (TOTAL)		SOUND		TOTAL	TOTAL		FACTORY	CAREL E2V
			FLOW (l/s)	THROW (m)	WATTS	AMPS	POWER dB(A)	VOLTS	WATTS	AMPS	PHASE	FITTED KIT	MODEL
KHDFE086	9,160	1	1,920	18	600	1.15	66	415	5,250	8.5	THREE PHASE	KP609-2	E2V35FSMC1
KHDFE088	9,990	2	3,960	20	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1
KHDFE117	13,330	2	3,920	20	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-2	E2V35FSMC1
KHDFE151	16,100	2	3,880	20	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-3	E3V45BSMC1
KHDFE173	18,340	2	3,840	20	1,200	2.30	69	415	8,700	14.6	THREE PHASE	KP609-3	E3V45BSMC1
KHDFE212	23,430	3	5,820	22	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-5	E3V65BWRC1
KHDFE252	26,760	3	5,770	22	1,800	3.45	71	415	13,600	23.3	THREE PHASE	KP609-5	E3V65BWRC1
KHDFE286	29,400	4	7,770	23	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-5	E3V65BWRC1
KHDFE320	33,830	4	7,690	23	2,400	4.60	72	415	15,320	28.2	THREE PHASE	KP609-5	E3V65BWRC1
KHDFE380	38,530	5	9,610	24	3,000	5.75	73	415	18,280	33.6	THREE PHASE	KP609-5	E3V65BWRC1

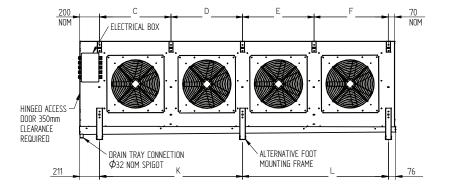


HEAVY DUTY READY CONNECT EVAPORATORS

Physical Data

	DIMENSIONS (mm)												
MODEL	OVERALL LENGTH	В	С	D	E	F	G	н	к	L	м	NET	
		KI	RBY HEAV	Y DUTY RE	ADY CON	NECT – ME	DIUM TEN	IPERATUR	E				
KHDCE103	1,265	890	980	-	-	-	600	685	-	-	905	90	
KHDCE136	2,215	890	950	980	-	-	600	685	1,930	-	905	130	
KHDCE161	2,215	890	950	980	-	-	600	685	1,930	-	905	140	
KHDCE188	2,215	890	950	980	-	-	600	685	1,930	-	905	155	
KHDCE214	2,215	890	950	980	-	-	600	685	1,930	-	905	165	
KHDCE263	3,165	890	950	950	980	-	600	685	950	1,930	905	215	
KHDCE316	3,165	890	950	950	980	-	600	685	950	1,930	905	240	
KHDCE366	3,315	1,015	750	750	750	780	715	800	1,500	1,530	1,035	285	
KHDCE430	3,315	1,015	750	750	750	780	715	800	1,500	1,530	1,035	305	
KHDCE538	4,065	1,015	750	750	750	780	715	800	1,500	2,280	1,035	370	
		I		VY DUTY	READY CO	NNECT – I	OW TEMP	ERATURE					
KHDFE086	1,265	890	980	-	-	-	600	685	-	-	905	90	
KHDFE088	2,215	890	950	980	-	-	600	685	1,930	-	905	130	
KHDFE117	2,215	890	950	980	-	-	600	685	1,930	-	905	140	
KHDFE151	2,215	890	950	980	-	-	600	685	1,930	-	905	155	
KHDFE173	2,215	890	950	980	-	-	600	685	1,930	-	905	165	
KHDFE212	3,165	890	950	950	980	-	600	685	950	1,930	905	215	
KHDFE252	3,165	890	950	950	980	-	600	685	950	1,930	905	240	
KHDFE286	3,315	1,015	750	750	750	780	715	800	1,500	1,530	1,035	285	
KHDFE320	3,315	1,015	750	750	750	780	715	800	1,500	1,530	1,035	305	
KHDFE380	4,065	1,015	750	750	750	780	715	800	1,500	2,280	1,035	370	





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