

## Kirby® 9000 Evaporators

### Overview and Introduction

The Kirby® 9000 Series Evaporator has been specifically designed to overcome the usual limitations of a typical compact coil design. This low frost innovation uses a unique fin pattern to minimise latent load and maximise sensible load. Enhanced fin configuration means less moisture removal and vastly improved run times before ice formation.

By increasing the ratio of fin surface to tube surface, the Kirby 9000 Series Evaporator maintains airflow as ice builds up and the coil is able to hold ice for longer. The result is more stable room conditions and longer time between defrosts as well as greater energy efficiency.



### Market Segments

- Retail
- Cold storage
- Convenience
- Hospitality
- Process
- Industry

### Features and Benefits

The Kirby® 9000 Series Evaporator offers:

- Simplified installation including factory wiring on all models for fans and heaters (excludes controls).
- High airflow from the latest generation fan assemblies ensures efficient pull down and air throw.
- Front opening access to electrical panel and separate panel for refrigeration components for ease of service.
- Face heaters allow easy access for maintenance and replacement.
- A supporting spare parts range accessible 24/7 through the Realcold wholesale network.

### Optional Enhancements

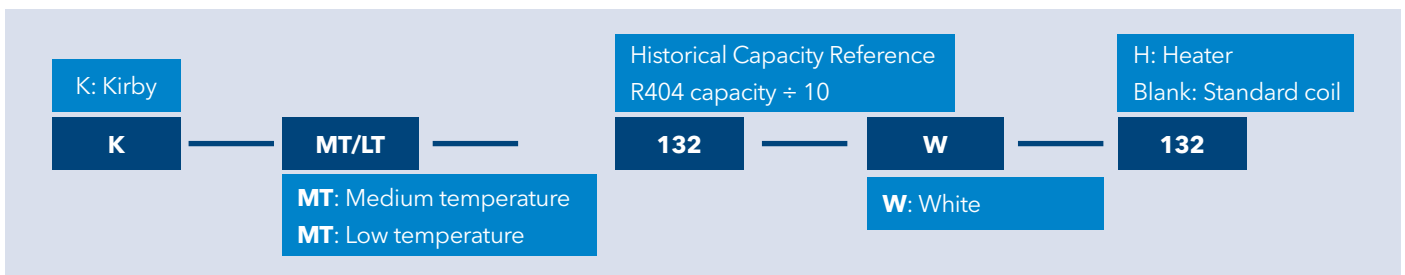
Kirby® 9000 Series can be configured with the following options:

- Special circuiting to suit glycol, CO2, water, split circuit and special operating conditions
- Expansion valves fitted
- EC fan motors
- Electric defrost for medium temperature models
- Air straightener



KEY CHART			
	Extended life		Sustainable solution
	Installation cost/time saving		Improved performance
	Improved efficiency		Flexible application

### Kirby 9000 Evaporators - Nomenclature



## KIRBY 9000 EVAPORATORS

### KMT - MEDIUM TEMPERATURE

Stock No.	Watts @ 6 KTD			Fan Data 240V 50HZ 1 Phase					Sound Power dB(A)**	Dry Weight (kg)
	R449A	R404A	R134a	Fan Qty.	Air		Total			
					Flow (l/s)*	Throw (m)	Watts	AMS		
KMT013W	1254	1320	1148	1	380	7.2	73	0.32	68	9.4
KMT016W	1539	1620	1409	1	360	6.9	73	0.32	68	10.3
KMT020W	1910	2010	1749	1	340	6.5	73	0.32	68	11.5
KMT027W	2565	2700	2349	2	760	10.3	146	0.64	71	15.1
KMT034W	3230	3400	2958	2	720	9.8	146	0.64	71	16.9
KMT038W	3591	3780	3289	2	680	9.3	146	0.64	71	18.7
KMT051W	4798	5050	4394	3	1080	12.1	219	0.96	72	23.0
KMT060W	5662	5960	5185	3	1020	11.5	219	0.96	72	26.0
KMT067W	6318	6650	5786	4	1440	13.6	292	1.28	74	29.9
KMT081W	7648	8050	7004	4	1360	12.9	292	1.28	74	32.4
KMT023W	2204	2320	2018	1	700	8.8	155	0.65	71	14.7
KMT045W	4275	4500	3915	2	1400	12.6	310	1.3	75	25.3
KMT063W	5938	6250	5438	2	1400	12.6	310	1.3	75	26.3
KMT071W	6745	7100	6177	2	1375	11.9	310	1.3	75	30.4
KMT093W	8835	9300	8091	3	2160	15.4	465	1.95	77	37.7
KMT106W	10070	10600	9222	3	2060	14.7	465	1.95	77	42.6
KMT121W	11495	12100	10527	3	1970	14.2	465	1.95	77	47.6
KMT132W	12540	13200	11484	4	2880	17.3	620	2.6	79	49.5
KMT154W	14630	15400	13398	4	2630	15.9	620	2.6	79	63.7
KMT165W	15675	16500	14355	5	3600	19.3	775	3.25	80	60.5
KMT198W	18810	19800	17226	5	3280	17.8	775	3.25	80	77.5

Performance Rating Basis KMT

CAPACITY - Performance calculations are intended as a guide only and actual capacity is subject to specific application conditions and the operating environment. Capacities are based on +2°C air on temperature, and 6KTD. KTD is defined as "air on temperature - leaving refrigerant saturation temperature".

## KIRBY 9000 EVAPORATORS

### KLT - LOW TEMPERATURE

Stock No.	Watts @ 6 KTD		Fan Data 240V 50HZ 1 Phase					Heater Deforst				Dry Weight (kg)
	R449A	R404A	Fan Qty.	Air		Total		Sound Power dB(A)**	Total watts	Amps (1 Ph)	Max AMPS /Ph	
				Flow (l/s)*	Throw (m)	Watts	AMS					
<b>300mm FAN DIAMETER</b>												
KLT013W	1216	1280	1	360	6.4	73	0.32	68	900	3.75	-	10.8
KLT015W	1397	1470	1	340	6.0	73	0.32	68	900	3.75	-	11.8
KLT024W	2280	2400	2	720	9.1	146	0.64	71	1800	7.5	-	17.5
KLT028W	2641	2780	2	680	8.6	146	0.64	71	1800	7.5	-	19.4
KLT030W	2850	3000	2	680	8.6	146	0.64	71	1800	7.5	-	19.5
KLT036W	3420	3600	3	1080	11.2	219	0.96	72	2700	-	3.75	24.4
KLT042W	3943	4150	3	1020	10.6	219	0.96	72	2700	-	3.75	26.5
KLT062W	5890	6200	4	1360	11.9	292	1.28	74	3600	-	5	34.6
<b>350mm FAN DIAMETER</b>												
KLT021W	1948	2050	1	700	8.1	155	0.65	71	1600	6.67	-	15.51
KLT045W	4275	4500	2	1400	11.6	310	1.3	75	3200	-	6.67	27.02
KLT050W	4703	4950	2	1400	11.6	310	1.3	75	3200	-	6.67	27.82
KLT054W	5083	5350	2	1375	11.0	310	1.3	75	3200	-	6.67	31.23
KLT067W	6318	6650	3	2160	14.3	465	1.95	77	4800	-	10	38.05
KLT075W	7078	7450	3	2160	14.3	465	1.95	77	4800	-	10	38.87
KLT089W	8455	8900	3	2060	13.6	465	1.95	77	4800	-	10	45.18
KLT100W	9500	10000	4	2750	15.2	620	2.6	79	6400	-	13.33	58.94
KLT113W	10735	11300	4	2750	15.2	620	2.6	79	6400	-	13.33	62.96
KLT126W	11970	12600	5	3600	17.9	775	3.25	80	8000	-	16.67	69.58
KLT136W	12920	13600	5	3440	17.0	775	3.25	80	8000	-	16.67	77.82

Performance Rating Basis KLT

CAPACITY - Performance calculations are intended as a guide only and actual capacity is subject to specific application conditions and the operating environment. Capacities are based on -18°C air on temperature, and 6KTD. KTD is defined as "air on temperature - leaving refrigerant saturation temperature".

# KIRBY 9000 EVAPORATORS

## DIMENSIONS

Stock No.	A (mm)	B (mm)	L Length (mm)	H Length (mm)	Connection Data		Stock No.	A (mm)	B (mm)	L Length (mm)	H Length (mm)	Connection Data	
					Liquid (mm)	Suction (mm)						Liquid (mm)	Suction (mm)
300mm FAN DIAMETER							300mm FAN DIAMETER						
KMT013W	440	-	750	430	9.5	9.5	KLT013W	440	-	750	430	12.7	15.9
KMT016W	440	-	750	430	9.5	9.5	KLT015W	440	-	750	430	12.7	15.9
KMT020W	440	-	750	430	12.7	12.7	KLT024W	845	-	1155	430	12.7	19.1
KMT027W	845	-	1155	430	12.7	12.7	KLT028W	845	-	1155	430	12.7	22.2
KMT034W	845	-	1155	430	12.7	15.9	KLT030W	845	-	1155	430	12.7	22.2
KMT038W	845	-	1155	430	12.7	15.9	KLT036W	1250	-	1560	430	12.7	22.2
KMT051W	1250	-	1560	430	12.7	19.1	KLT042W	1250	-	1560	430	12.7	25.4
KMT060W	1250	-	1560	430	12.7	19.1	KLT062W	1660	-	1970	430	12.7	25.4
KMT067W	1660	-	1970	430	12.7	22.2	350mm FAN DIAMETER						
KMT081W	1660	-	1970	430	12.7	22.2	KLT021W	540	-	850	545	9.5	19.1
350mm FAN DIAMETER							KLT045W	1175	-	1485	545	9.5	25.4
KMT023W	540	-	850	545	12.7	12.7	KLT050W	1175	-	1485	545	9.5	25.4
KMT045W	1175	-	1485	545	12.7	19.1	KLT054W	1175	-	1485	545	9.5	25.4
KMT063W	1175	-	1485	545	12.7	22.2	KLT067W	1745	-	2060	545	9.5	28.6
KMT071W	1175	-	1485	545	12.7	22.2	KLT075W	1745	-	2060	545	9.5	28.6
KMT093W	1745	-	2060	545	12.7	25.4	KLT089W	1745	-	2060	545	12.7	31.8
KMT106W	1745	-	2060	545	12.7	25.4	KLT100W	2320	1165	2630	545	12.7	34.9
KMT121W	1745	-	2060	545	12.7	25.4	KLT113W	2320	1165	2630	545	12.7	41.3
KMT132W	2320	1165	2630	545	15.9	25.4	KLT126W	2890	1735	3200	545	12.7	41.3
KMT154W	2320	1165	2630	545	15.9	28.6	KLT136W	2890	1735	3200	545	12.7	41.3
KMT165W	2890	1735	3200	545	15.9	28.6							
KMT198W	2890	1735	3200	545	15.9	31.8							

