

Cabinet Coolers



KC/KCT MEDIUM TEMPERATURE CABINET COOLERS

Features

- Compact design allows greater top shelf space
- White colorbond housing blends with easily removed ABS plastic drain tray (up to KC1500)
- Heat exchanger with rifled bore tubing for high performance and exceptional oil return
- KOIL KOTE protection standard on all KC and KCT coolers
- KCT twin blower coolers suitable for larger cabinets

PRODUCT NUMBER	CAPACITY W @ 6KTD			TX VALVE	COIL ROWS	FIN SERIES fpi	AIR FLOW (l/s)	FANS		MOTORS (Max)		REFRIGERANT CHARGE (g)*			NETT WEIGHT (kg)
	R404A	R22	R134a					DIA mm	QTY	1 PHASE		R404A	R22	R134a	
										WATTS	AMPS				
KC301	360	310	320	INT.	3	8	72	178	1	30	0.26	235	265	265	3.9
KC401	490	430	420	INT.	4	8	77	178	1	33	0.26	315	355	355	4.2
KC550	630	570	520	INT.	4	8	110	178	2	50	0.43	420	475	470	5.9
KC651	730	670	600	INT.	5	8	105	178	2	56	0.47	525	590	585	6.5
KC750	850	770	700	INT.	5	8	120	178	2	60	0.43	525	590	585	6.7
KC1001	1180	1060	970	INT.	4	8	165	178	3	81	0.72	665	750	745	7.9
KC1201	1280	1200	1140	INT.	5	8	175	178	3	90	0.65	830	940	930	8.5
KC1350	1580	1420	1220	EXT.	4	8	265	178	3	100	0.82	1310	1465	1475	14.0
KC1500	1710	1590	1370	EXT.	5	8	260	178	3	100	0.82	1635	1830	1845	15.0
KC1700	1880	1700	1460	EXT.	4	6	380	200	3	102	0.67	1590	1795	1780	15.0
KC2100	2350	2100	1810	EXT.	6	6	350	200	3	102	0.67	2380	2690	2670	18.0
KCT300	380	330	310	INT.	4	8	100	178	1	33	0.26	420	470	400	5.4
KCT400	510	450	420	INT.	6	8	210	254	1	40	0.32	510	570	480	6.0
KCT600	730	650	550	INT.	6	8	210	254	1	40	0.32	590	660	560	6.0
KCT800	810	780	650	INT.	8	8	190	254	1	40	0.32	840	950	800	7.7
KCT1000	1090	960	820	INT.	8	8	210	254	1	60	0.40	1010	1140	960	9.0
KCT1200	1360	1250	1070	EXT.	10	8	230	254	1	60	0.40	1510	1690	1450	16.0
KCT1600	1780	1600	1340	EXT.	12	8	280	300	1	70	0.30	1810	2030	1740	15.8

CAPACITY - Based on CRMA Guidelines at 40°C entering liquid (inherent subcooling), +2°C air on and 6KTD

* = 80% liquid and 20% vapour by volume at -4°C SST



KF LOW TEMPERATURE CABINET COOLERS

Features

- Compact design allows greater top shelf space
- White colorbond housing blends with easily removed ABS plastic drain tray (up to KF1100)
- Heat exchanger with rifled bore tubing for high performance and exceptional oil return
- Operates from -32°C to -2°C storage temperature
- In-built controls terminate defrost on coil temperature
- Built-in fan delay and heater safety controls

PRODUCT NUMBER	CAPACITY W @ 6KTD		TX VALVE	FIN SERIES fpi	AIR FLOW (l/s)	FANS		MOTORS (Max)		HEATERS (Defrost)		REFRIGERANT CHARGE (g)*		NETT WEIGHT (kg)
	R404A	R22				DIA mm	QTY	1 PHASE		1 PHASE		R404A	R22	
								WATTS	AMPS	WATTS	AMPS			
KF250	280	240	INT.	6	75	178	1	33	0.26	290	1.2	340	380	4.2
KF350	390	350	INT.	6	110	178	2	25	0.43	460	1.9	450	505	5.9
KF450	470	440	INT.	6	120	178	2	30	0.43	460	1.9	560	630	6.7
KF600	620	590	INT.	6	160	178	3	27	0.72	720	3.0	710	795	7.9
KF750	790	710	EXT.	6	175	178	3	30	0.65	720	3.0	885	990	8.5
KF1000	1170	1000	EXT.	6	270	178	3	101	0.82	1225	5.1	1385	1535	15.0
KF1100	1270	1130	EXT.	6	260	178	3	101	0.82	1225	5.1	1735	1920	15.0
KF1380	1470	1380	EXT.	6	380	200	3	102	0.67	1700	7.1	1730	1935	15.0
KF1650	1710	1650	EXT.	6	350	200	3	102	0.67	2200	9.2	2595	2900	18.0

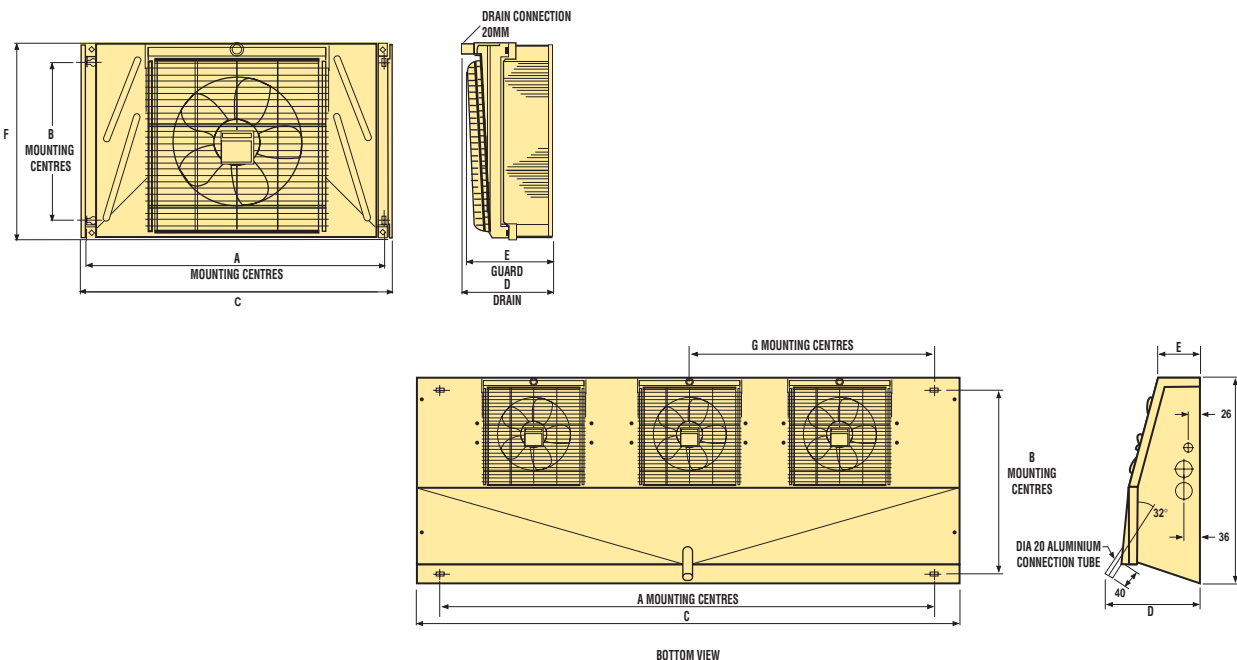
CAPACITY - Based on CRMA Guidelines at 40°C entering liquid (inherent subcooling), -18°C 90% RH air on and 6KTD

* = 80% liquid and 20% vapour by volume including headers (where fitted) @ -24°C

Cabinet Coolers – cont'd

DIMENSIONS									
PRODUCT NUMBER	A	B	C	D	E	F	G	CONNECTIONS	
								SUCTION	LIQUID
KC/KCT SERIES									
KC301	346	345	420	125	85	390	N/A	9.52	9.52
KC401	346	345	420	125	85	390	N/A	9.52	9.52
KC550	452	365	526	130	85	410	N/A	9.52	9.52
KC651	452	365	526	130	85	410	N/A	9.52	9.52
KC750	452	365	526	130	85	410	N/A	9.52	9.52
KC1001	722	365	796	130	85	410	N/A	9.52	9.52
KC1201	722	365	796	130	85	410	N/A	9.52	9.52
KC1350	830	350	1010	185	110	400	465	15.9	12.7
KC1500	830	350	1010	185	110	400	465	15.9	12.7
KC1700	1130	419	1245	217	95	474	565	15.9	12.7
KC2100	1130	419	1245	217	95	474	565	15.9	12.7
KCT300	585	310	613	175	150	388	N/A	9.52	9.52
KCT400	585	310	613	175	170	388	N/A	9.52	9.52
KCT600	585	310	613	175	170	388	N/A	9.52	9.52
KCT800	585	310	613	175	170	388	N/A	9.52	9.52
KCT1000	585	310	613	205	194	388	N/A	9.52	9.52
KCT1200	973	390	1000	205	194	468	N/A	9.52	12.7*
KCT1600	973	390	1000	205	194	468	N/A	9.52	12.7*
KF SERIES									
KF250	346	345	420	130	85	390	N/A	9.52	9.52
KF350	452	365	526	135	85	410	N/A	9.52	9.52
KF450	452	365	526	135	85	410	N/A	9.52	9.52
KF600	722	365	796	135	85	410	N/A	9.52	9.52
KF750	722	365	796	135	85	410	N/A	9.52	9.52
KF1000	830	350	1010	185	110	400	465	15.9	12.7
KF1100	830	350	1010	185	110	400	465	15.9	12.7
KF1380	1130	419	1245	217	95	474	565	15.9	12.7
KF1650	1130	419	1245	217	95	474	565	15.9	12.7

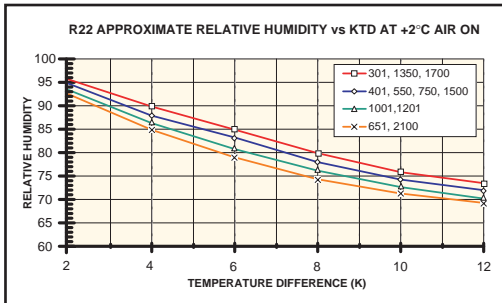
* = Distributor connection: externally equalised valves required. Distributors are pressure drop type. KF750 and on use a pressure drop type distributor, therefore an externally equalised TX valve is required.



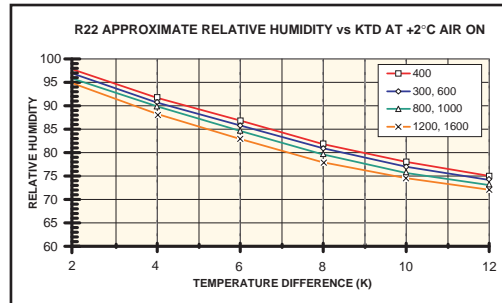
Cabinet Coolers – cont'd

KC/KCT RELATIVE HUMIDITY DATA

KC Series



KCT Series



Notes for Relative Humidity Graphs:

1. For R134a coils add 2% to above RH figures for KTD over 6 and 1% for KTD below 6.
2. For R404A and R407C coils reduce RH 1% for each 5% higher capacity as given in tables.
3. The relative Humidity is an expression of the condition maintained in the room when the coil balances the room sensible and latent heat loads, and when the product is at the desired temperature. It is not a measure of the condition of the air coming off the coil surface.
4. These graphs are approximate, as factors such as outside conditions, door usage, leakage, etc, will affect the conditions achieved
5. These graphs are only directly applicable at the given air-on condition. For accuracy, corrections are required for other air-on conditions.

CAPACITY FACTOR (F) & APPLICATION LIMITS

KC SERIES	SATURATED SUCTION TEMPERATURE								
	-10	-8	-6	-4	-2	0	2	4	6
R404A	0.93	0.96	0.98	1.0	1.01	1.04	1.07	1.10	1.15
R22	0.95	0.97	0.98	1.0	1.02	1.04	1.06	1.09	1.12
R134a	0.92	0.95	0.98	1.0	1.01	1.03	1.05	1.08	1.11
R407C	0.94	0.95	0.97	1.0	1.03	1.07	1.10	1.14	1.17
MAX. KTD	10	11	12	12	12	12	12	11	10
MIN. KTD*	4	3	2	2	2	2	2	3	4

- Notes:
- * Minimum TD for KC301 to KC550 is 5K at all SST due to refrigerant velocity considerations. Capacity factor applies to SST at 1 KTD. Actual capacity = Capacity @ 1 KTD x Factor x KTD. The limits on this chart are intended to indicate the maximum application range of standard KC coils. Distributors and or circuiting may be unsuitable outside these limits. For applications outside these limits, contact your nearest Heatcraft outlet.

KCT SERIES	SATURATED SUCTION TEMPERATURE								
	-10	-8	-6	-4	-2	0	2	4	6
R404A	0.93	0.96	0.98	1.0	1.01	1.04	1.07	1.10	1.15
R22	0.95	0.97	0.98	1.0	1.02	1.04	1.06	1.09	1.12
R134a	0.92	0.95	0.98	1.0	1.01	1.03	1.05	1.08	1.11
R407C	0.94	0.95	0.97	1.0	1.03	1.07	1.10	1.14	1.17
MAX. KTD*	10	11	12	12	12	12	12	11	10
MIN. KTD**	4	3	3	3	3	3	3	3	4

- Notes:
- * Maximum TD for KCT1200 and KCT1600 is 8K at all SST due to distributor limitations.
 - ** Minimum TD for KCT300 and KCT400 is 5K at all SST due to refrigerant velocity considerations. Capacity factor applies to basic capacity. Actual capacity = Basic Capacity x Factor x KTD. The limits on this chart are intended to indicate the maximum application range of standard KCT coils. Distributors and or circuiting may be unsuitable outside these limits. For applications outside these limits, contact your nearest Heatcraft outlet.

KF SERIES	SATURATED SUCTION TEMPERATURE				
	-36	-30	-24	-18	-12
R404A	0.78	0.89	1.00	1.10	1.20
R22	0.79	0.94	1.00	1.05	1.16
R407B	0.84	0.97	1.00	1.07	1.17
R407C	0.89	0.95	1.00	1.08	1.11
MAX. KTD*	8	9	10	10	10*
MIN. KTD **	4	3	3	3	3

- Notes:
- * Maximum TD for KF750 is 8K at all SST due to distributor limitations.
 - ** Minimum TD for KF250 and KF350 is 5K at all SST due to refrigerant velocity considerations. Capacity factor applies to basic capacity. Actual capacity = Basic Capacity x Factor x KTD. The limits on this chart are intended to indicate the maximum application range of standard KCT coils. Distributors and or circuiting may be unsuitable outside these limits. For applications outside these limits, contact your nearest Heatcraft outlet.

Cabinet Coolers – cont'd



EVB – MULLION & BACKWALL COOLERS

Features

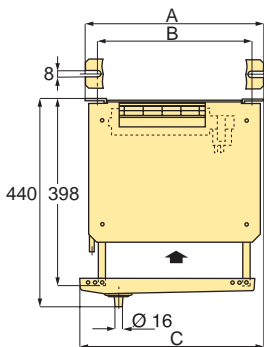
- Single Outlet (M) and Dual Outlet (C) air discharge models
- White enamelled galvanised steel casing
- ABS drain tray, easily removed for servicing
- Coated coil to resist corrosive environments and extend coil life
- Compact construction designed for small cabinets
- Optional light defrosting kit available (for room temperatures down to -10°C) – Refer Spare Parts

PRODUCT NUMBER	CAPACITY WATTS @ 6 KTD			AIR FLOW (l/s)	FIN SERIES FPI	FANS & MOTORS			REFRIG. CONTROL	DEFROST (OPTION KIT)		NETT WEIGHT kg
	R404A	R22	R134a			No. OFF	SIZE – mm Dia. x Lgth	WATTS		VOLTS	WATTS	
SINGLE OUTLET												
EVB-M1	144	140	135	18	7	1	45 x 120	15	Cap/Int.Tx	240/1/50	130	3.9
EVB-M2	192	185	180	26	7	1	45 x 180	22	Cap/Int.Tx	240/1/50	130	4.0
EVB-M3	228	220	215	30	7	1	45 x 180	22	Cap/Int.Tx	240/1/50	185	5.0
DUAL OUTLET												
EVB-C1	144	140	135	18	7	2	45 x 60	26	Cap/Int.Tx	240/1/50	130	4.7
EVB-C2	246	238	230	31	7	2	45 x 120	30	Cap/Int.Tx	240/1/50	185	5.7

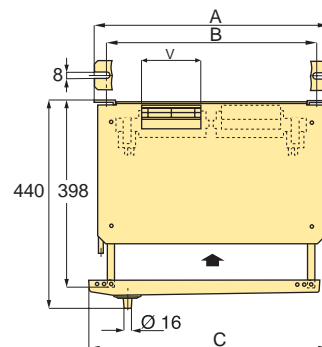
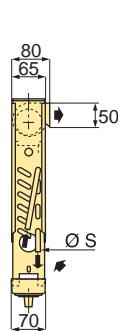
Rating Basis: Capacity @ -4°C SST, +2°C Room Temperature

DIMENSIONS

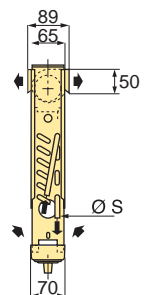
PRODUCT NUMBER	A	B	C	LIQUID	SUCTION
EVB-M1	370	340	386	5/16"	5/16"
EVB-M2	370	340	386	5/16"	5/16"
EVB-M3	490	460	506	5/16"	5/16"
EVB-C1	370	340	386	5/16"	5/16"
EVB-C2	490	460	506	5/16"	5/16"



"M" models



"C" models



Cabinet Coolers – cont'd



MJ – MULLION COOLERS

Features

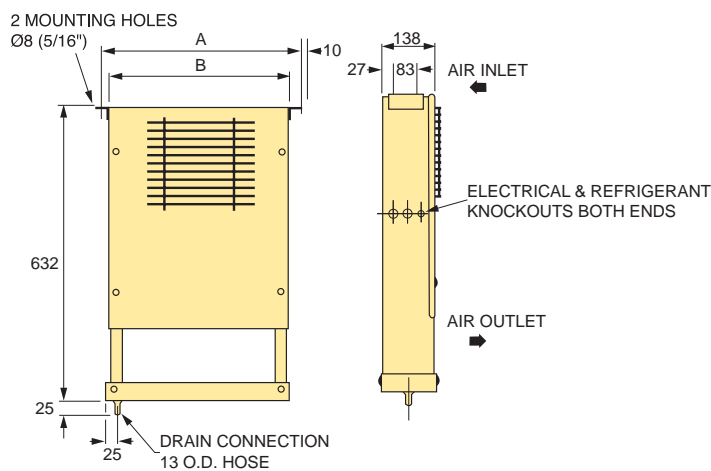
- Centre mullion or end wall mounting
- Stucco aluminium casing
- Coated coil to resist corrosive environments and extend coil life
- Compact construction
- Highly efficient heat exchanger with corrugated fins and staggered tube arrangement

PRODUCT NUMBER	CAPACITY WATTS @ 6 KTD			AIR QTY. (L/s)	FAN SIZE mm/ No. OFF	TOTAL MOTOR WATTS	REFRIG. CONTROL	NETT WEIGHT kg
	R404A	R22	R134a					
MJ140H	460	455	430	85	178/1	34	Cap/Int.Tx	5.9
MJ220H	740	730	690	125	178/2	70	Cap/Int.Tx	8.2

Rating Basis: Capacity @ -4°C SST, +2°C Room Temperature

DIMENSIONS

PRODUCT NUMBER	A	B	DRAIN	LIQUID	SUCTION
MJ140H	438	393	13	3/8"	1/2"
MJ220H	552	508	13	3/8"	1/2"



Cabinet Coolers – cont'd

TA LOW VELOCITY TWIN AIR COOLERS

Features

- High efficiency and compact heat exchangers utilise sinusoidal aluminium fins and rifle bore tubing.
- Robust shock resistant white ABS casing.
- Integrated fan guards.
- Rounded corners preventing any water retaining areas.
- Stainless steel fasteners.
- Hinged drain pan allowing easy access to all the components.
- Internal drain pans avoid condensation on the casing.
- Designed to accommodate installation of a condensate pump internally.
- Condensate drain either left or right side.
- 6 pole, single phase, PSC motors, IP55, Class F with overload.
- Provision for electric defrost elements.



CAPACITY RATINGS AND SPECIFICATIONS

PRODUCT NUMBER	MODEL NUMBER	CAPACITY WATTS @ 10 KTD			FIN SERIES FPI	AIR FLOW (l/s)	AIR THROW (m)	FAN SIZEmm/No. OFF	MOTORS		INTERNAL VOLUME L	NETT WEIGHT kg
		R404A	R22	R134a					WATTS	AMPS		
BO6B1R600	TA1R6P	3930	3850	3580	7	340	3.5	350/1	95	0.45	2.23	22.6
BO6B2R600	TA2R6P	6090	5230	4655	7	779	3.5	350/2	190	0.90	2.23	24.5
BO6B3R600	TA3R6P	7460	6960	6890	7	727	3.5	350/2	190	0.90	3.35	27.6
BO6B4R600	TA4R6P	8060	7830	7360	7	683	3.5	350/2	190	0.90	4.46	32.9
BO6B5R600	TA5R6P	11260	10490	10385	7	1090	3.5	350/3	285	1.35	5.02	36.4
BO6B6R600	TA6R6P	13210	12900	12513	7	972	3.2	350/3	285	1.35	8.36	45.3
BO6B7R600	TA7R6P	16320	15840	15048	7	1366	3.7	350/4	380	1.80	8.92	54.7

DIMENSIONS

MODEL NUMBER	A	B	C	D DRAIN	LIQUID	SUCTION
TA1R6P	866	560	17.5	1"	5/8"	5/8"
TA2R6P	1366	1060	17.5	1"	5/8"	5/8"
TA3R6P	1366	1060	17.5	1"	5/8"	7/8"
TA4R6P	1366	1060	17.5	1"	5/8"	7/8"
TA5R6P	1866	1560	35.0	1"	5/8"	7/8"
TA6R6P	1866	1560	35.0	1"	5/8"	1-1/8"
TA7R6P	2366	2060	35.0	1"	5/8"	1-1/8"

SOUND PRESSURE LEVEL

MODEL →	TA1R6P	TA2R6P	TA3R6P	TA4R6P	TA5R6P	TA6R6P	TA7R6P
dB(A) @ 4m	37	40	40	40	42	42	43

