



CPC4 EVAPORATOR DATA
Rated according to CRMA code of practice

MODEL	CPC4-67	CPC4-81	CPC4-95	CPC4-1110	CPC4-125	CPC4-141	CPC4-157	CPC4-170	CPC4-191	CPC4-212
CAPACITY R404A (@ -4°C SST)										
WATTS @ 6 KTD	6700	8100	9500	11100	12500	14100	15700	17000	19100	21200
CAPACITY R134a (@ -4°C SST)										
WATTS @ 6 KTD	5695	6966	8170	9546	10937	12308	13502	14629	16617	18232
* = Basic capacity Watts per degree temperature difference for use with capacity correction factors. Refer to application limits for min KTD allowed.										
FAN DATA (400mm DIA.)										
COIL ROWS	3	4	5	6	4	5	6	4	5	6
NO. OF FANS	2	2	2	2	3	3	3	4	4	4
AIR THROW m	16.5	16.8	17.5	17.7	19	19.3	19.8	20.9	22.1	23.4
MOTOR DATA (240V 50Hz)										
TOTAL WATTS	300	300	300	300	450	450	450	600	600	600
TOTAL AMPS	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.8	2.8	2.8

RECOMMENDED TX VALVE R404A										
DANFOSS	TES2(04)	TES2(05)	TES2(06)	TES5(01)	TES5(01)	TES5(02)	TES5(02)	TES5(03)	TES5(03)	TES5(04)
RECOMMENDED TX VALVE R134a										
DANFOSS	TEN2(04)	TEN2(05)	TEN2(06)	TEN2.8(06)	TEN5(01)	TEN5(01)	TEN5(02)	TEN5(02)	TEN5(03)	TEN5(03)

R404A CAPACITY FACTOR AND APPLICATION LIMITS (80% RH)

SST	-10	-8	-6	-4	-2	0	2	4	6	9
R404A	0.93	0.96	0.98	1.00	1.01	1.04	1.07	1.10	1.15	1.21
MAX. KTD	9	9	9	10	10	9	9	9	8	8
MIN. KTD	3	3	3	3	3	3	3	4	4	4
max. RSHF	0.9	0.93	0.96	0.97	0.98	--	--	--	--	--
min. RSHF	0.75	0.72	0.7	0.68	0.66	--	--	--	--	--
LIMITATION-	NEW CIRCUITS AND/OR DISTRIB NEEDED IF OUTSIDE MAX OR MIN KTD.						NEW DISTRIB. >= 9°SST			

R134a CAPACITY FACTOR AND APPLICATION LIMITS (80% RH)

SST	-10	-8	-6	-4	-2	0	2	4	6	9
FACTOR	0.92	0.95	0.98	1.00	1.01	1.03	1.05	1.08	1.11	1.16
MAX. KTD	9	10	11	11	11	11	11	10	9	8
MIN. KTD	4	3	3	3	3	3	3	3	4	4
max. RSHF	0.93	0.96	0.98	0.99	1	--	--	--	--	--
min. RSHF	0.77	0.74	0.72	0.7	0.68	--	--	--	--	--
LIMITATION-	NEW CIRCUITS AND/OR DISTRIB NEEDED IF OUTSIDE MAX OR MIN KTD.						NEW DISTRIB. >= 9°SST			

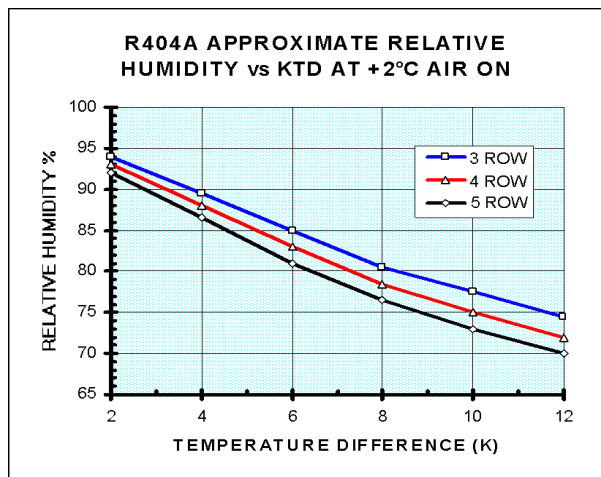
FIN CAPACITY CORRECTION FACTORS			
5FPI	0.89	COPPER FIN	1.022

STANDARD COILS ARE 6FPI ALUMINIUM. MULTIPLY RATED CAPACITY BY FACTOR TO FIND CAPACITY WITH REQUIRED FPI & MATERIAL. APPLICATION LIMITS DO NOT CHANGE FOR 5FPI AND/OR COPPER COILS.

NOTES: CAPACITY FACTOR TABLES

- CAPACITY FACTOR APPLIES TO SST AT 1KTD. ACTUAL CAPACITY = CAPACITY @ 1 KTD x FACTOR x KTD
- THE LIMITS ON THIS CHART ARE INTENDED TO INDICATE THE MAXIMUM APPLICATION RANGE OF STANDARD CPC COILS.

CPC4 RELATIVE HUMIDITY DATA



NOTES: RELATIVE HUMIDITY GRAPHS

- 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 DESIRED TEMPERATURE. IT IS NOT A MEASURE OF THE CONDITION OF THE AIR COMING OFF THE COIL SURFACE.
- THESE GRAPHS ARE APPROXIMATE, AS FACTORS SUCH AS OUTSIDE CONDITIONS, DOOR USAGE, LEAKAGE ETC WILL AFFECT THE CONDITIONS ACHIEVED.
- THE GRAPH AND CORRECTIONS ARE ONLY DIRECTLY APPLICABLE AT THE GIVEN AIR ON CONDITION. CORRECTIONS ARE REQUIRED FOR OTHER

CPC4 DIMENSIONAL DATA

MODEL	CPC4-67	CPC4-81	CPC4-95	CPC4-110	CPC4125	CPC4-141	CPC4-157	CPC4-170	CPC4-191	CPC4-212
DIMENSIONS										
A	1720	1720	1720	1720	2405	2405	2405	3090	3090	3090
B	523	523	523	523	523	523	523	523	523	523
C	322	322	322	322	322	322	322	322	322	322
D	362	362	362	362	362	362	362	362	362	362
E	1405	1405	1405	1405	2090	2090	2090	2775	2775	2775
SUCTION CONN. mm	19.05	19.05	19.05	22.2	22.2	22.2	22.2	28.6	28.6	28.6
LIQUID CONN. mm	9.52	9.52	12.7	12.7	12.7	12.7	12.7	15.8	15.8	15.8

* =outlet of liquid subcooler -- most recommended valves have 9.5 dia. inlet flare fitting

** = Frost Free flare nut. Distributors are venturi type.

*** = Tube for flaring or brazing. Liquid and Ext. Eq. lines are soldered together for testing and charging and must be separated on installation. For Brass/Copper coils, add 50% to standard unpacked weight.

PERFORMANCE RATING BASIS OF CPC4 EVAPORATORS

- CAPACITY-** Based on CRMA Guidelines at 40°C entering liquid (inherent subcooling), +2°C air on, 80% RH, and 6KTD. Capacity figure is Total Capacity (rated with wet fin surfaces).
KTD is defined as entering air temperature - leaving refrigerant Saturation temperature. Coils are in counterflow. 3K useful coil superheat assumed. Rated Capacity is for 6fpi (standard) coils. Other fpi refer to capacity factor table.
- AIRFLOW-** Rated at standard air conditions (20°C dry air, 101.35kPa atmospheric pressure)
- AIRTHROW-** Based on CRMA guidelines. Measurements taken at 0.5, 0.75, and 1m from the ceiling at 20°C air. The distance at which the average of the 3 values equals 0.5m/s is taken as the limit of airthrow. Correction for +2°C room (0.94) is included.
- Motor WattHrs per 24 hours-** Taken as the total heat input per day (fans run continuously) for equipment selection purposes. Value is motor wattage x 24.
- T-X valve selection-** Based on coil capacity at -4°C SST & 40°C liquid, 6KTD. , R404A based on 850kPa, R134a based on 550kPa.

