

COMPACT PROFILE
UNIT COOLERS



COMPACT PROFILE UNIT COOLER

CP Series Technical Data



CPA - Cooler above 34 °F

AIR DEFROST

MODEL	CAPACITY MBH			FAN DATA		MOTORS FULL LOAD AMPERE				R404A CHARGE LBS
	10° FTD	12° FTD	15° FTD	QTY	CFM	240/1	240/3	480 V	600 V	
CPA-18-1300	13.0	15.6	19.5	1	2200	2.8	N/A†	N/A†	N/A†	3.0
CPA-18-1550	15.5	18.6	23.3	1	2000	2.8	N/A†	N/A†	N/A†	4.5
CPA-28-2150	21.5	25.8	32.3	2	4500	5.6	2.8*	1.15*	0.8*	4.0
CPA-28-2650	26.5	31.8	39.8	2	4200	5.6	2.8*	1.15*	0.8*	5.4
CPA-28-3000	30.0	36.0	45.0	2	3900	5.6	2.8*	1.15*	0.8*	8.1
CPA-38-3750	37.5	45.0	56.3	3	6400	8.4	2.8	1.15	0.8	8.0
CPA-38-4600	46.0	55.2	69.0	3	5700	8.4	2.8	1.15	0.8	12.0
CPA-58-5750	57.5	69.0	86.3	5	9400	14	5.6*	2.3*	1.6*	10.6
CPA-58-6600	66.0	79.2	99.0	5	8600	14	5.6*	2.3*	1.6*	16.0

CPE - Freezer from -40 °F to 34 °F

ELECTRIC DEFROST

MODEL	CAPACITY MBH				FAN DATA		MOTORS FULL LOAD AMPERE				DEFROST HEATERS				R404A CHARGE LBS				
	-30° F SST	-20° F SST	0° F SST	+20° F SST							KILOWATTS		FULL LOAD AMPERE						
					240/1	240/3	480V	600V	240/1	240/3	480V	600V							
CPE-16-1200	9.7	10.2	11.4	12.0	1	2300	2.8	N/A†	N/A†	N/A†	4.2	N/A†	N/A†	N/A†	17.5	N/A†	N/A†	N/A†	3.0
CPE-16-1450	11.7	12.3	13.8	14.5	1	2100	2.8	N/A†	N/A†	N/A†	4.2	N/A†	N/A†	N/A†	17.5	N/A†	N/A†	N/A†	4.5
CPE-26-2000	16.2	17.0	19.0	20.0	2	4600	5.6	5.6*	2.3*	1.6*	7.8	7.8	6.7	7.8	32.5	18.8	8.0	7.5	4.0
CPE-26-2500	20.2	21.3	23.8	25.0	2	4300	5.6	5.6*	2.3*	1.6*	7.8	7.8	6.7	7.8	32.5	18.8	8.0	7.5	5.4
CPE-26-2900	23.4	24.7	27.6	29.0	2	4100	5.6	5.6*	2.3*	1.6*	7.8	7.8	6.7	7.8	32.5	18.8	8.0	7.5	8.1
CPE-36-3550	28.7	30.2	33.7	35.5	3	6700	8.4	5.6	2.3	1.6	12.0	12.0	10.2	12.0	50	28.9	12.3	11.6	8.0
CPE-36-4200	33.9	35.7	39.9	42.0	3	6000	8.4	5.6	2.3	1.6	12.0	12.0	10.2	12.0	50	28.9	12.3	11.6	12.0
CPE-56-5250	42.4	44.6	49.9	52.5	5	9700	14	8.4*	3.5*	2.4*	16.8	16.8	14.3	16.8	70	40.5	17.3	16.2	10.6
CPE-56-6300	50.9	53.6	59.9	63.0	5	9000	14	8.4*	3.5*	2.4*	16.8	16.8	14.3	16.8	70	40.5	17.3	16.2	16.0

CP(G, H) - Freezer from -40 °F to 34 °F

GAS DEFROST

MODEL	CAPACITY MBH				FAN DATA		MOTORS FULL LOAD AMPERE				R404A CHARGE LBS
	-30° F SST	-20° F SST	0° F SST	+20° F SST			240/1	240/3	480V	600V	
CP(G,H)-16-1200	9.7	10.2	11.4	12.0	1	2300	2.8	N/A†	N/A†	N/A†	3.0
CP(G,H)-16-1450	11.7	12.3	13.8	14.5	1	2100	2.8	N/A†	N/A†	N/A†	4.5
CP(G,H)-26-2000	16.2	17.0	19.0	20.0	2	4600	5.6	5.6*	2.3*	1.6*	4.0
CP(G,H)-26-2500	20.2	21.3	23.8	25.0	2	4300	5.6	5.6*	2.3*	1.6*	5.4
CP(G,H)-26-2900	23.4	24.7	27.6	29.0	2	4100	5.6	5.6*	2.3*	1.6*	8.1
CP(G,H)-36-3550	28.7	30.2	33.7	35.5	3	6700	8.4	5.6	2.3	1.6	8.0
CP(G,H)-36-4200	33.9	35.7	39.9	42.0	3	6000	8.4	5.6	2.3	1.6	12.0
CP(G,H)-56-5250	42.4	44.6	49.9	52.5	5	9700	14	8.4*	3.5*	2.4*	10.6
CP(G,H)-56-6300	50.9	53.6	59.9	63.0	5	9000	14	8.4*	3.5*	2.4*	16.0

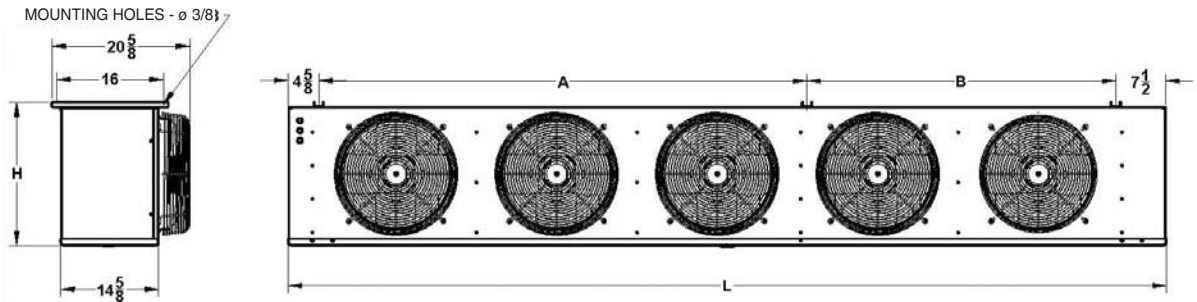
* SINGLE PHASE MOTOR, UNBALANCED PHASES LOADING
 † AVAILABLE SINGLE PHASE ONLY, CALL MANUFACTURER FOR 3 PHASES APPLICATIONS

- For 8 to 6 fpi multiply capacity by 0.90
- For 8 to 4 fpi multiply capacity by 0.75
- For 6 to 4 fpi multiply capacity by 0.85

- Multiply R404A refrigerant charge by 1.09 if R-22 or R-134a is used.
- For 50 Hz derate tabulated capacity by 12%.
- CPG model is for reverse cycle defrost. CPH model is for three pipes defrost
- Add suffix "2" to model number for 208-230/1/60, suffix "5" for 208-230/3/60, suffix "9" for 480/3/60 and suffix "8" for 600/3/60.

COMPACT PROFILE UNIT COOLER

CP Series Physical Data

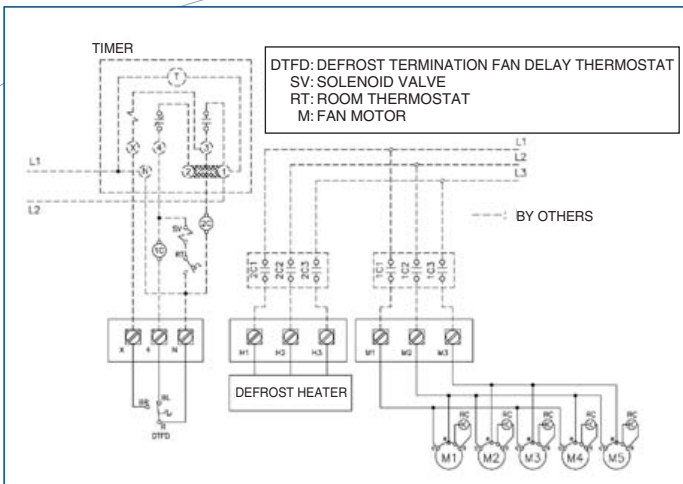


MODEL	SHIPPING WEIGHT LBS	MODEL	SHIPPING WEIGHT LBS	MODEL	SHIPPING WEIGHT LBS	UNIT SIZE (INCH)				CONNECTIONS		
						L	H	A	B	LIQ O.D.	SUCT O.D.	HOT GAS O.D.
CPA-18-1300	102	CPE-16-1200	114	CP(G,H)-16-1200	109	43 1/4	21 3/8	31 1/8	N/A	1/2	7/8	5/8
CPA-18-1550	112	CPE-16-1450	124	CP(G,H)-16-1450	120	43 1/4	21 3/8	31 1/8	N/A	1/2	7/8	5/8
CPA-28-2150	190	CPE-26-2000	210	CP(G,H)-26-2000	204	71 1/4	21 3/8	59 1/8	N/A	1/2	1 1/8	7/8
CPA-28-2650	200	CPE-26-2500	222	CP(G,H)-26-2500	215	71 1/4	21 3/8	59 1/8	N/A	1/2	1 1/8	7/8
CPA-28-3000	220	CPE-26-2900	244	CP(G,H)-26-2900	236	71 1/4	21 3/8	59 1/8	N/A	5/8	1 1/8	7/8
CPA-38-3750	250	CPE-36-3550	278	CP(G,H)-36-3550	269	101 1/4	21 3/8	60	29 1/8	5/8	1 3/8	1 1/8
CPA-38-4600	270	CPE-36-4200	300	CP(G,H)-36-4200	290	101 1/4	21 3/8	60	29 1/8	7/8	1 3/8	1 1/8
CPA-58-5750	330	CPE-56-5250	366	CP(G,H)-56-5250	355	131 1/4	21 3/8	73	46 1/8	7/8	1 3/8	1 1/8
CPA-58-6600	365	CPE-56-6300	405	CP(G,H)-56-6300	392	131 1/4	21 3/8	73	46 1/8	7/8	1 5/8	1 1/8

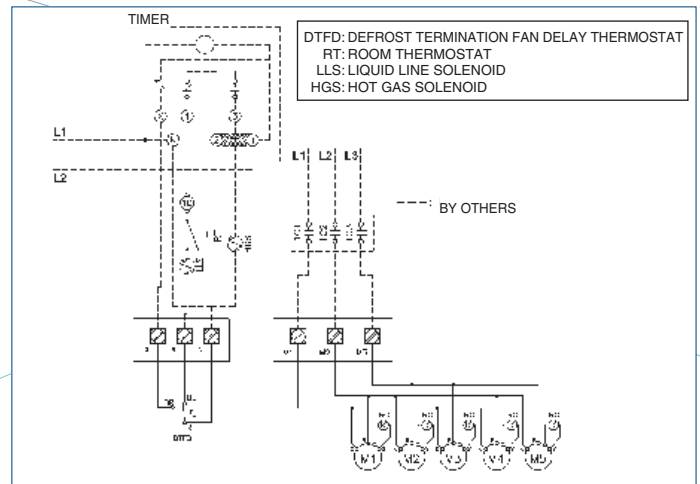
*Note : Add 1-1/16" if you have a hot gas loop in drain pan

Wiring Diagram

Electric Defrost

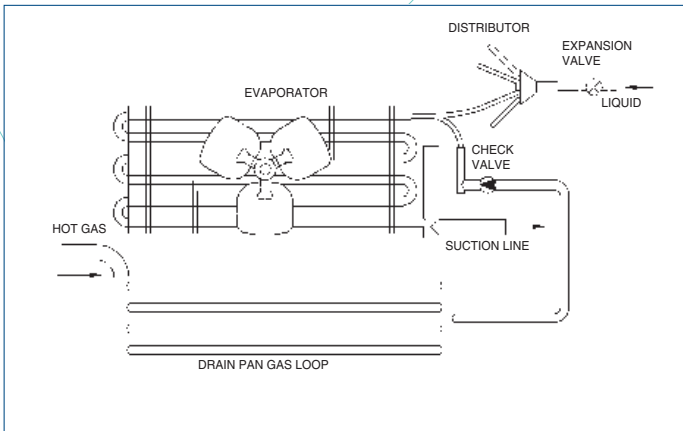


Hot Gas Defrost

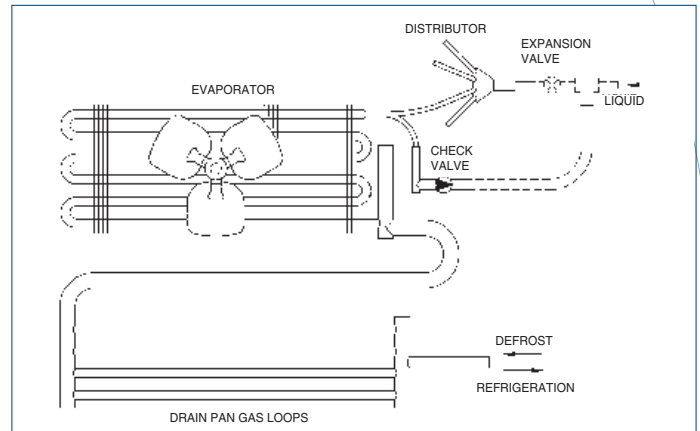


Piping Diagram

3 pipes Defrost system



Reverse cycle defrost



Standard feature

CP unit have a medium profile aluminum casing and is painted white. A centered 3/4 MPT drain pan connection is provided

State of the art evaporator coil are made of smooth copper tube mechanically expanded into self-spaced aluminum plate fins for permanent bond and maximum heat transfer. All coils are leak tested at 400 PSIG.

Permanently lubricated and thermally protected motor combined with powerful heavy duty 16 inches aluminum fans individually balanced provide vibration free operation and a long and dependable service. Fan guards are spot welded wire construction whit PVC coating for corrosion protection.

Casing allows total accessibility to expansion valve and electrical connections. Unit coolers are designed for most HFC and HCFC refrigerant including R-22, R-407C, R-404A, R-134a and R-507. All models are to be used with an externally equalized expansion valve.

Units with electric defrost are supplied with a factory wired set and fan-delay / defrost termination thermostat. For an efficient defrost and ease of removability, stainless steel heaters are embedded into die formed fin slot in the face of coils and therefore no space is needed on the sides of the units for heater replacement. Drain pan are heated for fast, reliable drainage.

Gas defrost units are supplied with a factory, wired and set, fan-delay / defrost termination thermostats, an expansion valve by-pass kit including check valve is factory installed. There is two choices of hot gas defrost: reverse cycle defrost **suffix "G"** and three pipes defrost system **suffix "H"**. Both are provided with a hot gas loop in drain pan.

Option:

- Copper fin coil
- Coated coil
- Galvanized steel housing
- Insulated drain pan
- Custom circuiting for chilled water or glycol applications
- Adjustable defrost termination, fan delay thermostat (electric & hot gas defrost)



REFRIGERATION KOOL-AIR INC.
Québec, Canada

Tel: (450) 632-5775
Fax: (450) 632-7412
Email: kool-air@kool-air-inc.com
Web site: www.kool-air-inc.com

Due to Kool-Air policies to continuously improve the quality of its products, specifications are subject to change without notice