

CTV Series

CTV Evaporator Hot Gas Defrost

The CTV model unit coolers are specifically designed for commercial freezer applications. Time tested for many years, these virtually maintenance-free unit coolers are built with Kramer reliability.

These units are suitable for low and medium temperatures in the range of -30°F to +35°F.



Features:

- Corrosion resistant unit of sturdy construction.
- Coils constructed of copper tubes and aluminum fins.
- Industrial evaporators with 6 FPI.
- Dependable rating based on laboratory tests.
- Fan motors have built-in O/L protection.
- Hot gas heated drain pan for positive condensate drainage.
- Factory wired for quick field installation.
- Optional high pressure propellar fans.



Capacity Data • BTU/HR @ 10° TD ⁽¹⁾

6 FPI	MODEL	Evaporator Temperature - °F							
		+25°	+20°	+10°	0°	-10°	-20°	-30°	-40°
	CTV-450	51800	51100	49800	48400	47000	45200	42900	40200
	CTV-620	71000	70100	68400	66600	64600	62200	59100	55400
	CTV-850	97700	96200	93200	90700	88100	84800	80600	75500
	CTV-1070	122000	120900	118700	115300	111600	107400	102000	95800
	CTV-1220	139600	137900	134500	130000	126600	122000	115800	108500
	CTV-1360	154300	152600	149200	145100	141000	135600	128800	120700
	CTV-1580	180800	178500	174000	169500	164400	158200	150300	140700
	CTV-1800	204800	203400	200700	194400	188000	180800	171800	161800
	CTV-2110	240200	237300	231700	224900	210200	210270	199400	187000

1. Rating based on R-22.

Performance Data

6 FPI	MODEL	CFM (2)	Air Throw (FT) (3)	Motors (4)		Total Fan Motor Amps (4)	
				Qty.	H.P.	230-3-60	460-3-60
	CTV-450D	8400	50	2	1/2	3.6	1.8
	CTV-450PP	11400	75	2	1/2	9.6	4.8
	CTV-620D	8200	50	2	1/2	3.6	1.8
	CTV-620PP	10900	50	2	1/2	9.6	4.8
	CTV-850D	12800	100	2	3/4	7.0	3.5
	CTV-850PP	17200	125	2	3	17.2	8.6
	CTV-1070D	14600	100	2	3/4	7.0	3.5
	CTV-1070PP	16400	125	2	3	17.2	8.6
	CTV-1220D	14100	100	2	3/4	7.0	3.5
	CTV-1220PP	16100	125	2	3	17.2	8.6
	CTV-1360D	19700	100	3	3/4	10.5	5.3
	CTV-1360PP	22000	125	3	3	25.8	12.9
	CTV-1580D	19000	100	3	3/4	10.5	5.3
	CTV-1580PP	19000	125	3	3	25.8	12.9
	CTV-1800D	21500	100	4	3/4	14.0	7.0
	CTV-1800PP	26200	125	4	3	34.4	17.2
	CTV-2100D	31200	100	4	3/4	14.0	7.0
	CTV-2100PP	30700	125	4	3	34.4	17.2

Connections Data

6 FPI	MODEL	Connections (in) (5)				
		Suction O.D.	Liquid O.D.	Hot Gas O.D.	Ext. Equal O.D.	Drain MPT
	CTV-450D	1-3/8	1-3/8	1-1/8	1/4	1
	CTV-450PP	1-3/8	1-3/8	1-1/8	1/4	1
	CTV-620D	1-5/8	1-5/8	1-1/8	1/4	1
	CTV-620PP	1-5/8	1-5/8	1-1/8	1/4	1
	CTV-850D	1-5/8	1-5/8	1-1/8	1/4	1
	CTV-850PP	1-5/8	1-5/8	1-1/8	1/4	1
	CTV-1070D	2-1/8	1-5/8	1-1/8	1/4	1
	CTV-1070PP	2-1/8	1-5/8	1-1/8	1/4	1
	CTV-1220D	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1220PP	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1360D	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1360PP	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1580D	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1580PP	2-1/8	1-5/8	1-3/8	1/4	1-1/2
	CTV-1800D	2-1/8	1-5/8	1-5/8	1/4	1-1/2
	CTV-1800PP	2-1/8	1-5/8	1-5/8	1/4	1-1/2
	CTV-2100D	(2) 2-1/8	(2) 1-1/8	1-5/8	(2) 1/4	1-1/2
	CTV-2100PP	(2) 2-1/8	(2) 1-1/8	1-5/8	(2) 1/4	1-1/2

2. "D" - Direct Drive High efficiency propeller fans.
 "PP" - Direct Drive with high pressure axial propeller fans.
 Do NOT use "PP" models above +25° box temperature.
 "PP" models can operate with ESP up to 0.5".
 At this condition CFM will drop to "D" model CFM.

3. Unrestricted air flow.
 4. Single phase motors available on "D" models only, contact factory.
 5. Connection sizes are based on R-22, and may vary from catalog
 when actual site operating conditions are provided at time of order

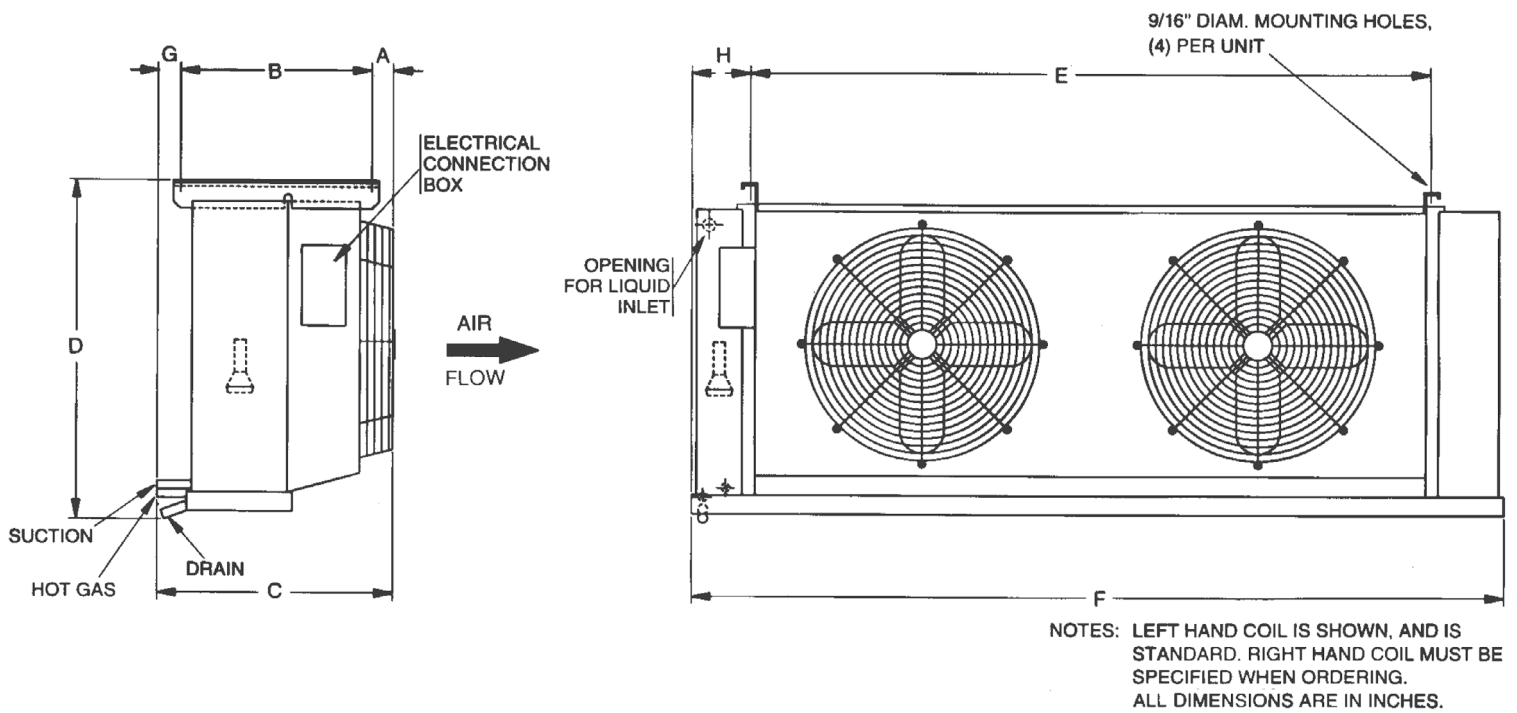
Dimensional Data

	MODEL	Dimensions (in)								Ref. Chrg. (lbs.) (6)	Approx. Ship Weight (lbs.)
		A	B	C	D	E	F	G	H		
6 FPI	CTV-450D	3-1/4	26	31-3/4	42-7/8	58	75	2-1/2	7-1/2	8	770
	CTV-450PP	3-1/4	26	31-3/4	42-7/8	58	75	2-1/2	7-1/2	8	860
	CTV-620D	3-1/4	26	31-3/4	42-7/8	58	75	2-1/2	7-1/2	13	880
	CTV-620PP	3-1/4	26	31-3/4	42-7/8	58	75	2-1/2	7-1/2	13	965
	CTV-850D	3-7/8	26	32-3/8	42-7/8	94	111	2-1/2	7-1/2	17	1170
	CTV-850PP	3-7/8	26	32-3/8	42-7/8	94	111	2-1/2	7-1/2	17	1390
	CTV-1070D	3-7/8	26	32-3/8	42-7/8	94	111	2-1/2	7-1/2	19	1285
	CTV-1070PP	3-7/8	26	32-3/8	42-7/8	94	111	2-1/2	7-1/2	19	1465
	CTV-1220D	5-3/4	28	36-1/8	43-3/4	94	111	2-3/8	7-1/2	25	1380
	CTV-1220PP	5-3/4	28	36-1/8	43-3/4	94	111	2-3/8	7-1/2	25	1610
	CTV-1360D	7-1/2	28-1/4	41-3/4	47-1/4	113-1/4	136	6	11-3/8	25	2170
	CTV-1360PP	7-1/2	28-1/4	41-3/4	47-1/4	113-1/4	136	6	11-3/8	25	2470
	CTV-1580D	7-1/2	28-1/4	41-3/4	47-1/4	113-1/4	136	6	11-3/8	33	2330
	CTV-1580PP	7-1/2	29-1/4	41-3/4	47-1/4	113-1/4	136	6	11-3/8	33	2580
	CTV-1800D	7-1/2	28-1/4	41-3/4	47-1/4	151-1/4	174	6	11-3/8	33	2420
	CTV-1800PP	7-1/2	28-1/4	41-3/4	47-1/4	151-1/4	174	6	11-3/8	33	2720
	CTV-2100D	7-1/2	28-1/4	41-3/4	47-1/4	151-1/4	174	6	11-3/8	43	2630
	CTV-2100PP	7-1/2	28-1/4	41-3/4	47-1/4	151-1/4	174	6	11-3/8	43	2830

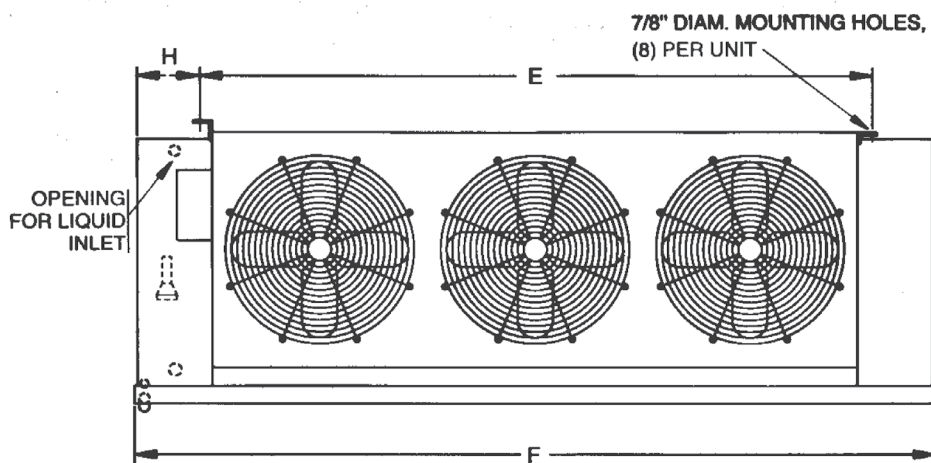
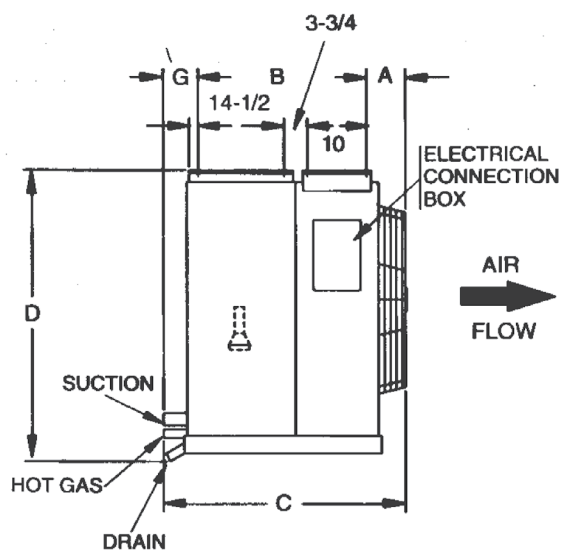
6. Rating based on R-22.

For your convenience the diagram(s) originally here has(have) been enlarged, and can be found just after this page in the Adobe document.

MODELS: CTV-450, 620, 850, 1070 & 1220

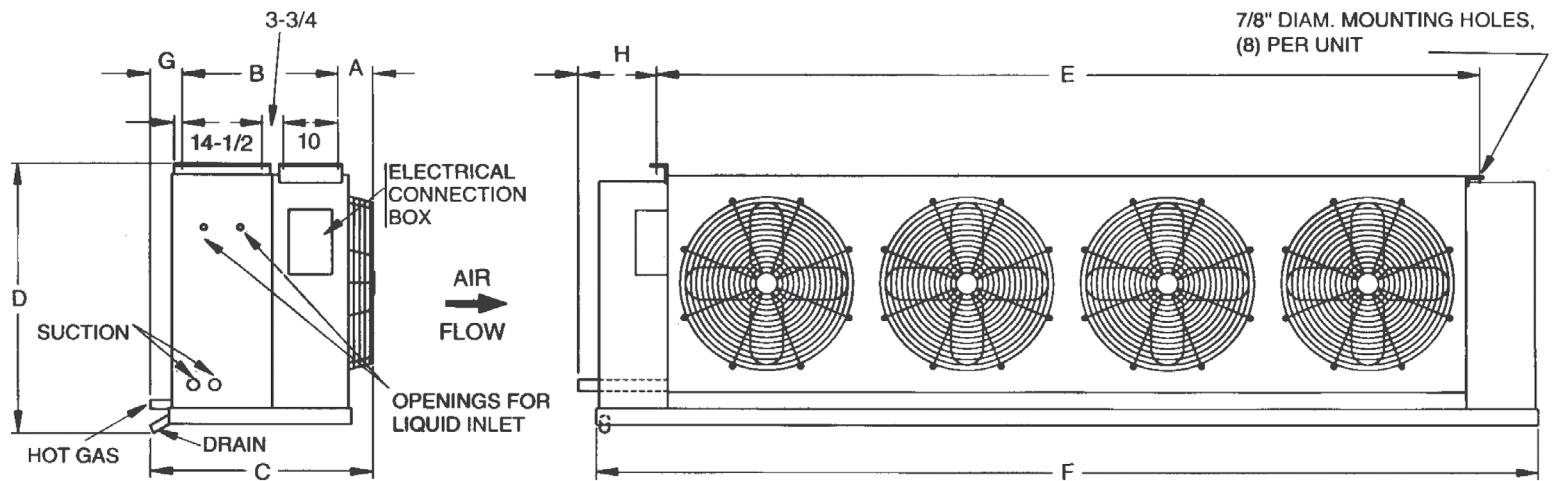


MODELS: CTV-1360 & 1580



NOTES: LEFT HAND COIL IS SHOWN, AND IS STANDARD. RIGHT HAND COIL IS AVAILABLE AND MUST BE SPECIFIED WHEN ORDERING.
ALL DIMENSIONS ARE IN INCHES.

MODELS: CTV-1800 & 2100



NOTES: LEFT HAND COIL IS SHOWN, AND IS STANDARD. RIGHT HAND COIL MUST BE SPECIFIED WHEN ORDERING.
ALL DIMENSIONS ARE IN INCHES.

Specifications and Dimensions are subject to change without notice.