ENGINEERING DATA

COILS – BLOWER COIL UNITS – 50hz



CR22 SERIES EVAPORATOR UNITS – DOWN-FLO AIR-CONDITIONING AND HEAT PUMP 1 To 5 Tons (4 To 18 kW) Nominal Cooling Capacity November 1993

Applications – Lennox designed and built down-flo evaporator coils can easily be installed with most Lennox down-flo furnaces. Coils match openings of most Lennox furnaces. See Coil/Furnace Match-up Selector table in this bulletin for more information. All units are shipped with factory installed expansion and check valve. See condensing units bulletins (section Cooling Units – Condensing Units) for evaporator unit applications and cooling capacities. See heat pump outdoor unit bulletins (section Heat Pumps – Matched remote Systems) for indoor coil applications and cooling and heating capacities.

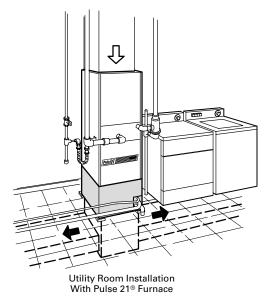
Cabinet Construction — Cabinets are constructed of heavy gauge steel with a deluxe baked-on enamel paint finish and are fully insulated with thick fiberglass insulation. Removable panel allows access for easy servicing. Refrigerant lines extend outside of cabinet for ease of connection.

Coil Construction - Lennox designed and fabricated coils are constructed of precisely spaced ripple-edged enhanced aluminum fins machine fitted to rifled copper tubes. Lanced fins allow for maximum exposure of fin surface to air stream. Copper rifled tubing construction provides long coil life and ease of service. Rifled tubing provides superior refrigerant flow resulting in maximum heat transfer. Twin coils assembled in an "A" configuration provides extra large surface and contact area for maximum efficiency. Fins have collars that grip tubing for maximum contact area resulting in excellent heat transfer. Flared shoulder tubing joints and silver soldering provide tight leakproof joints. Coils are thoroughly tested under pressure to insure leakproof construction. Drainpan is constructed of a non-corrosive polymer and has dual 3/4 inch (19 mm) fpt drain connections. Two-piece end panel on coil allows easy access for coil servicing and cleaning. Refrigerant lines are equipped with sweat connections on suction (vapor) line and liquid line.

Fully Tested — Evaporator units have been thoroughly tested with matching condensing and heat pump units in the Lennox Research Laboratory environmental test room. Air resistance data is from tests conducted in the Lennox air test chamber. Coil assemblies are shipped factory assembled and ready for installation.

Furnace Support Kit (Optional) — Kit **(41J22)** is required to provide additional support when matching 21-1/4 inch (540 mm) wide furnaces with CR22-51 and CR22-65 coils.

Typical Applications



SPECIFICATIONS

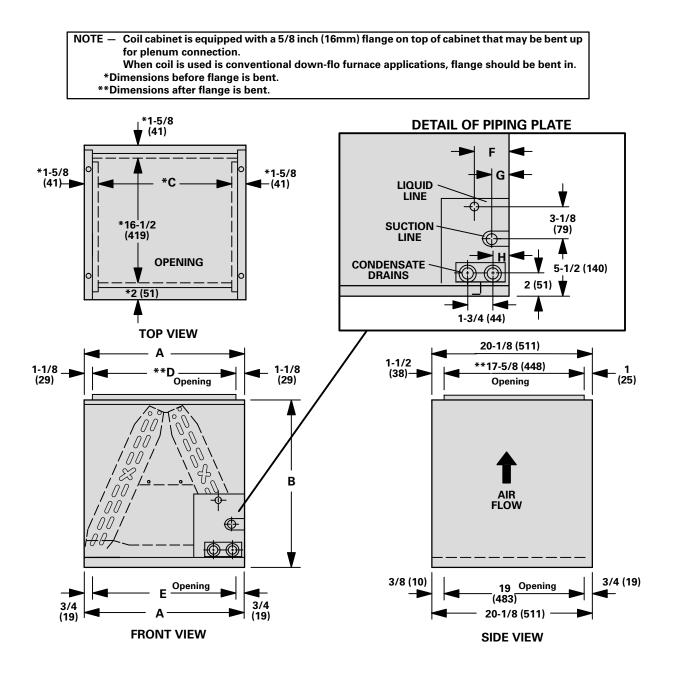
	Model Number	CR22-21-TXV	CR22-31-TXV	CR22-31W-TXV	CR22-41-TXV	CR22-51-TXV	CR22-65-TXV
	Net face area $-$ sq. ft. (m ²)	3.11 (0.29)	4.0 (0.37)	4.0 (0.37)	4.44 (0.41)	7.58 (0.70)	7.58 (0.70)
Evaporator Coil	Tube diameter — in. (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Number of rows	2	3	3	3	2	3
	Fins per inch (m)	15 (590)	12 (472)	12 (472)	12 (472)	15 (590)	12 (472)
Suction (vapor) line connection — in. (mm) sweat		5/8 (15.9)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22.2)	1-1/8 (28.6)
Liquid line connection — in. (mm) sweat		3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
Condensate d	Condensate drain (fpt) — in. (mm)		(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)
Refrigerant		R-22	R-22	R-22	R-22	R-22	R-22
Coil shipping	Coil shipping weight — Ibs. (kg) 1 package		52 (24)	56 (25)	65 (29)	86 (39)	97 (44)
*Expansion Device Furnished		Expansion And Check Valve					
**Furnace Support Kit (Optional)		Not Available 41J22					J22

*Furnished and factory installed. **Required when matching 21-1/4 inch (540 mm) wide furnaces with CR22-51 and CR22-65 coils.

AIR RESISTANCE

Model	Air Vo	olume	Total Resistance			
Number	cfm L/s		in. w.g.	Ра		
	300	140	.04	10		
	400	190	.07	17		
CR22-21	500	235	.11	27		
	600	285	.15	37		
	700	330	.20	50		
	600	285	.13	32		
	800	380	.22	55		
CR22-31	1000	470	.33	82		
	1200	570	.47	117		
	1400	660	.62	154		
	600	285	.13	32		
	800	380	.22	55		
CR22-31W	1000	470	.33	82		
	1200	570	.47	117		
	1400	660	.62	154		

Model	Air Vo	olume	Total Resistance			
Number	cfm L/s		in. w.g.	Ра		
	800	380	.15	37		
	1000	470	.23	57		
CR22-41	1200	570	.32	80		
	1400	660	.42	104		
	1600	760	.54	134		
	1200	570	.17	42		
	1400	660	.23	57		
CR22-51	1600	760	.29	72		
CR22-51	1800	850	.36	90		
	2000	940	.43	107		
	2200	1040	.52	129		
	1600	760	.23	57		
	1800	850	.29	72		
CR22-65	2000	940	.35	87		
	2200	1040	.42	104		
	2400	1130	.49	122		



Model Number	A		В		С		D		E		F		G		Н	
woder Number	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CR22-21	16-1/4	413	17	432	13	330	14	356	14-3/4	375	4-1/8	105	2-1/8	54	1-7/8	48
CR22-31	16-1/4	413	21	533	13	330	14	356	14-3/4	375	4-1/8	105	2-1/8	54	1-7/8	48
CR22-31W	21-1/4	540	21	533	18	457	19	483	19-3/4	502	6-5/8	168	4-5/8	117	4-3/8	111
CR22-41	21-1/4	540	25-3/4	654	18	457	19	483	19-3/4	502	4-1/8	105	2-1/8	54	1-7/8	48
CR22-51 CR22-65	26-1/4	667	28-3/4	730	23	584	24	629	24-3/4	629	4-1/8	105	2-1/8	54	1-7/8	48

CR22 COIL TO FURNACE MATCHING SELECTOR

Furnace Model Number		Coil Model Number									
		CR22-21	CR22-31	CR22-31W	CR22-41	CR22-51	CR22-65				
	Q3-50										
CODA	Q3-80					XX					
GSR21	Q4/5-80					xx	XX				
	Q4/5-100					XX	XX				
	2-45	X	X	Х							
	2-60	Х	Х	X							
	3-60		X	Х	x						
	2-75	X	Х	X							
	3-75		X	Х	x						
G24M	4-75		X	Х	X	xx					
	3/4-100		X	Х	X	XX					
	4/5-100					XX	XX				
	3/4-120					XX					
	4/5-120					XX	XX				
	4/5-140					XX	XX				

Coil matches furnace and air volume.

Coil matches air volume. Coil does not match furnace physically and requires field fabricated transition.

Coil matches air volume. Coil does not match furnace physically and requires field fabricated transition. Requires Furnace Support Kit (41J22).

Coil matches furnace physically. Check furnace air volume and total system pressure drop for satisfactory match with coil.

Coil does not match furnace physically and requires field fabricated transition. Check furnace air volume and total system pressure drop for satisfactory match. Requires Furnace Support Kit (41J22).

Does not match.

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