(ENGINEERING DATA

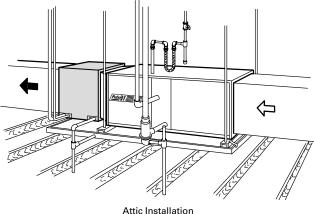
COILS – BLOWER COIL UNITS – 50hz



CH22 SERIES EVAPORATOR UNITS – HORIZONTAL AIR-CONDITIONING AND HEAT PUMP 1 To 5 Tons (4 To 18 kW) Nominal Cooling Capacity



Typical Applications



With Pulse21® Furnace

Applications — Lennox designed and built horizontal evaporator coils can easily be installed with most Lennox horizontal furnaces. See Coil/Furnace Match-up Selector table in this bulletin for more information. 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. Coils provide 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 heavy gauge galvanized steel and has dual 3/4 inch (19 mm) mpt drain connections. Refrigerant lines are equipped with sweat connections on suction (vapor) line and liquid lines.

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.

Check and Expansion Valve – Furnished and factory installed.

SPECIFICATIONS

Model Number		CH22-21-TXV CH22-21RFC	CH22-31-TXV CH22-31RFC	CH22-41-TXV CH22-41RFC	CH22-51-TXV	CH22-65-TXV		
Evaporator Coil	Net face area — sq. ft. (m²)	3.11 (0.29)	5.45 (0.51)	6.00 (0.56)	8.00 (0.74)	8.00 (0.74)		
	Tube diameter — in. (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)		
	Number of rows	2	2	2	2	3		
	Fins per inch (m)	15 (591)	15 (591)	15 (591)	15 (591)	12 (472)		
Suction (vapor) line connection — in. (mm) sweat		5/8 (15.9)	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)		
Condensate drain (mpt) — in. (mm)		(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)	(2) 3/4 (19)		
Refrigerant		HCFC-22	HCFC-22	HCFC-22	HCFC-22	HCFC-22		
Coil shipping weight — Ibs. (kg) 1 package		55 (25)	62 (28)	65 (29)	72 (33)	95 (43)		
*Expansion D	evice Furnished	Expansion And Check Valve						

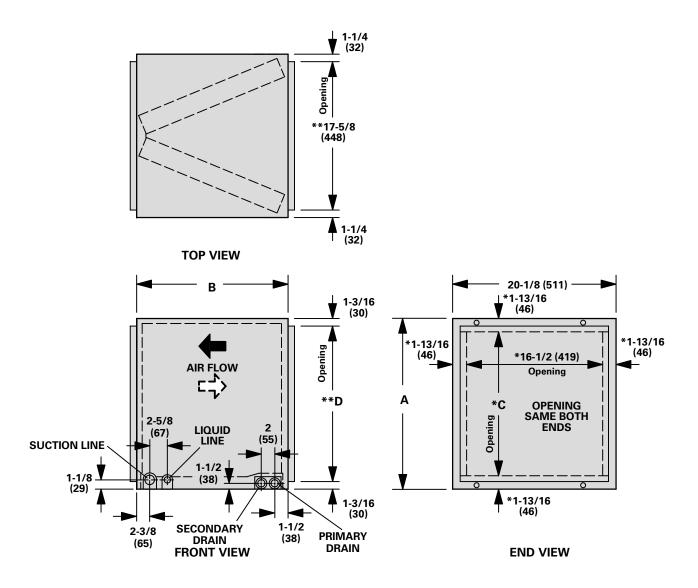
*Furnished and factory installed.

Model	Air V	olume	Total Resistance		
Number	cfm	L/s	in. w.g.	Pa	
	400	190	.04	11	
CH22-21	500	235	.07	16	
01122-21	600	285	.09	23	
	700	330	.12	30	
	600	285	.09	22	
	800	380	.15	36	
CH22-31	1000	470	.22	55	
	1200	565	.31	77	
	1400	660	.41	102	
	800	380	.09	24	
	1000	470	.14	36	
CH22-41	1200	565	.20	50	
	1400	660	.26	66	
	1600	755	.34	84	
	1200	565	.15	37	
	1400	660	.20	49	
CH22-51	1600	755	.25	62	
	1800	850	.31	77	
	2000	945	.38	94	
	1400	660	.22	54	
	1600	755	.28	69	
CH22-65	1800	850	.34	85	
CI722-00	2000	945	.41	103	
	2200	1040	.49	123	
	2400	1135	.58	145	

NOTE - Coil cabinet is equipped with a 5/8 inch (16mm) flange that may be bent out 90 $^{\circ}$

- for plenum connection on conventional horizontal applications.
- *Dimensions before flange is bent up.





Model	A		В		С		D	
Number	in.	mm	in.	mm	in.	mm	in.	mm
CH22-21	16-1/4	413	20-7/8	530	12-5/8	346	13-7/8	380
CH22-31	16-1/4	413	29-3/8	805	12-5/8	346	13-7/8	380
CH22-41	21-1/4	540	29-3/8	805	17-5/8	483	18-7/8	517
CH22-51	26-1/4	667	29-3/8	805	22-5/8	620	23-7/8	654
CH22-65	26-1/4	667	29-3/8	805	22-5/8	620	23-7/8	654

CH22 COIL TO FURNACE MATCHING SELECTOR

Furnace Model Number		Coil Model Number							
		CH22-21	CH22-31	CH22-41	CH22-51	CH22-65			
	Q3-50	x	X	Х					
00004	Q3-80		X	Х	x				
GSR21	Q4/5-80		х	х	x	x			
	Q4/5-100			x	x	x			
	2-45	x	x						
	3-60		X	x					
	2/3-75	x	х	Х					
G24M	4-75		Х	Х	x				
G24IW	3/4-100		Х	Х	x				
	4/5-100				х	x			
	4/5-120				x	х			
	4/5-140				x	x			

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

Coil does not match furnace physically and requires field fabricated transition. Check furnace air volume and total system pressure drop for satisfactory match with coil.

Does not Match.

