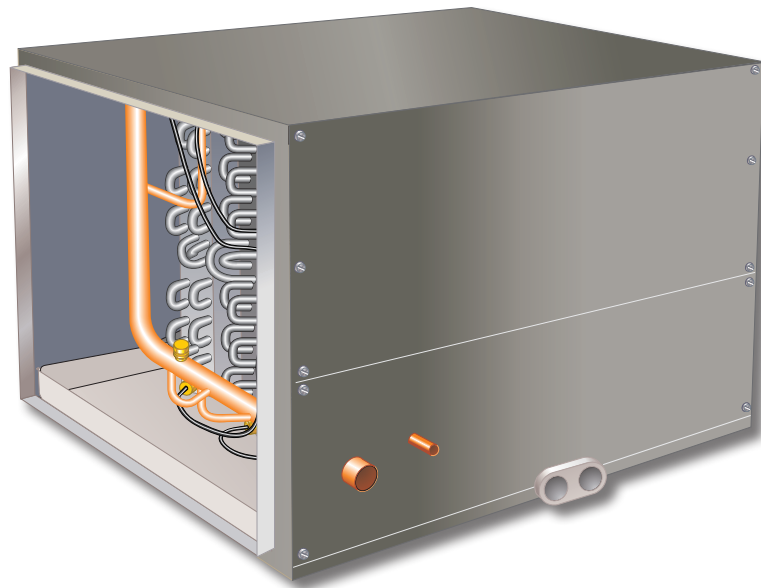


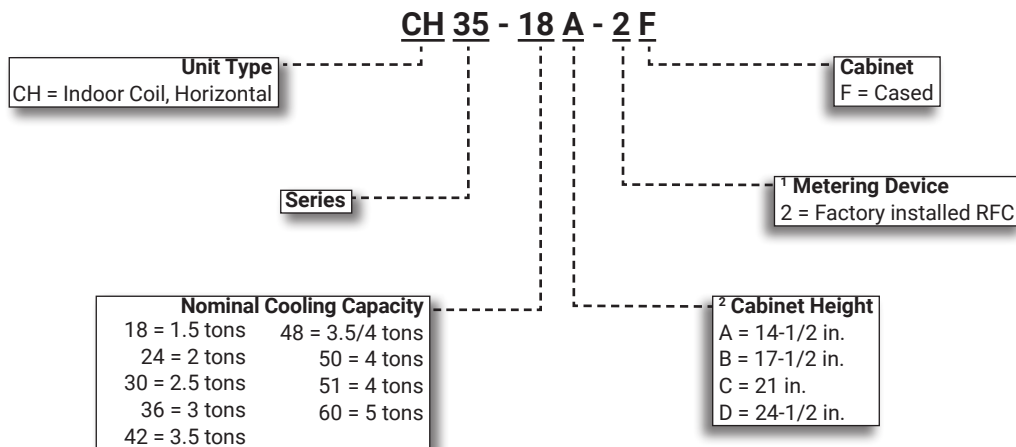


**RESIDENTIAL  
PRODUCT SPECIFICATIONS**



**1.5 to 5 Tons**

**MODEL NUMBER IDENTIFICATION**



<sup>1</sup> Factory installed RFC orifice must be replaced with a field installed expansion valve.  
<sup>2</sup> Furnaces with the same letter designation physically match the indoor coil.

## CONTENTS

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## APPROVALS AND WARRANTY

### APPROVALS

- Tested with matching air conditioners and heat pump units in the Lennox Research Laboratory environmental test room in accordance with AHRI Standard 210/240
- AHRI Certified system match-ups and expanded ratings, visit [www.LennoxPros.com](http://www.LennoxPros.com)
- Air resistance tests from Lennox Laboratory air test chamber

### WARRANTY

- All other covered components:
  - Limited five years in residential installations
  - Limited one year in non-residential installations

**NOTE** - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

## FEATURES

### APPLICATIONS

- 1.5 to 5 ton nominal sizes
- Lennox designed horizontal indoor coils can easily be installed with most Lennox horizontal furnaces
- Applicable to expansion valve systems only

**NOTE** - Expansion valve systems require field installed kit.

**NOTE** - Factory installed RFC orifice must be replaced with field installed expansion valve.

### COIL CONSTRUCTION

#### Quantum™ Coil

- Lennox designed and fabricated coil
- Aluminum tubing, hairpins, distributor and header tubes
- Copper refrigerant sweat connections on both liquid and suction lines for easy brazing
- Ripple-edged aluminum fins
- Lanced fins provide maximum exposure of fin surface to air stream
- Rifled tubing provides superior refrigerant heat transfer
- Twin coil construction assembled in an "A" configuration for large surface area
- Non-corrosive, UV-resistant polymer drain pan with dual fpt drain connections
- High pressure testing insures leakproof construction

### CABINET

- Insulated with thick fiberglass insulation
- Heavy gauge, pre-painted galvanized steel
- Flanges furnished for ease of duct connection
- Engaging holes furnished for alignment with furnace
- Removable panels provide access to coil
- Refrigerant lines extend outside of cabinet for easy connection

#### Furnace Match-Up

- All cased coils exactly match corresponding furnaces with same letter designation in model number
- No adaptor required
- Engaging holes furnished on cabinet for alignment

## Optional Accessories

### Expansion Valve Kits

- Expansion valve available for field installation
- See Air Conditioners or Heat Pump Outdoor Units Product Specifications for expansion valve kit selection

**SPECIFICATIONS**

**1.5 TO 3 TON**

General Data		Model No.	CH35	CH35	CH35	CH35	CH35	CH35	CH35
			-18A-2F	-24A-2F	-24B-2F	-30A-2F	-30B-2F	-36A-2F	-36B-2F
Nominal size - Tons			1.5	2	2	2.5	2.5	3	3
Line connections in.	Suction o.d. - sweat		3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Liquid o.d. - sweat		3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Condensate drain (fpt)		(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area sq. ft.		3.5	3.5	3.5	4.33	4.67	3.5	4.67
	Tube diameter - in.		3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Number of rows		2	3	2	3	3	3	2
	Fins per inch		19	14	19	16	14	12	18
Matching Lennox Furnace - Cabinet Width Designation			A	A	B	A	B	A	B
Coil & Furnace Cabinet Height - in.			14-1/2	14-1/2	17-1/2	14-1/2	17-1/2	14-1/2	17-1/2
Shipping Data - lbs.			43	45	49	55	53	47	48

**SPECIFICATIONS**

**3 TO 5 TON**

General Data		Model No.	CH35	CH35	CH35	CH35	CH35	CH35	CH35
			-36C-2F	-42B-2F	-42C-2F	-48B-2F	-48C-2F	-51C-2F	-60D-2F
Nominal size - Tons			3	3.5	3.5	3.5/4	3.5/4	4	5
Line connections in.	Suction o.d. - sweat		3/4	7/8	7/8	7/8	7/8	7/8	7/8
	Liquid o.d. - sweat		3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Condensate drain (fpt)		(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area sq. ft.		5.83	5.78	5.83	5.78	5.83	7.22	7.94
	Tube diameter - in.		3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Number of rows		2	4	3	3	3	3	3
	Fins per inch		18	12	13	12	12	13	12
Matching Lennox Furnace - Cabinet Width Designation			C	B	C	B	C	C	D
Coil & Furnace Cabinet Height - in.			21	17-1/2	21	17-1/2	21	21	24-1/2
Shipping Data - lbs.			55	66	60	60	59	69	78

**AIR RESISTANCE**

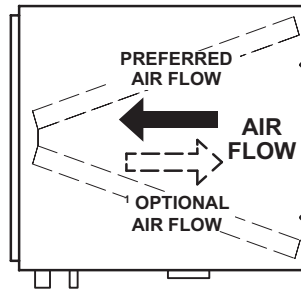
Air Volume cfm	Total Air Resistance - in. w.g.													
	CH35-18A-2F		CH35-24A-2F		CH35-24B-2F		CH35-30A-2F		CH35-30B-2F		CH35-36A-2F		CH35-36B-2F	
	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil
200	0.02	0.02	---	---	---	---	---	---	---	---	---	---	---	---
400	0.05	0.06	0.04	0.05	0.03	0.04	0.04	0.05	0.02	0.02	---	---	---	---
600	0.09	0.11	0.09	0.11	0.05	0.07	0.09	0.10	0.05	0.06	---	---	---	---
800	0.15	0.17	0.15	0.19	0.09	0.11	0.15	0.17	0.09	0.11	0.15	0.18	0.08	0.10
1000	0.22	0.25	0.23	0.29	0.15	0.17	0.24	0.27	0.14	0.16	0.22	0.27	0.11	0.16
1200	---	---	0.32	0.40	0.21	0.23	0.34	0.38	0.19	0.23	0.30	0.39	0.16	0.21
1400	---	---	0.43	0.50	0.28	0.30	0.45	0.51	0.26	0.30	0.41	0.48	0.21	0.27
1600	---	---	---	---	---	---	---	---	---	---	0.53	0.63	0.27	0.35

**AIR RESISTANCE**

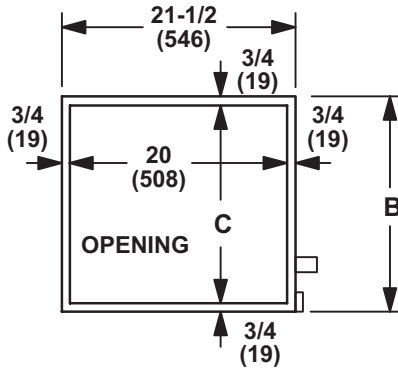
Air Volume cfm	Total Air Resistance - in. w.g.													
	CH35-36C-2F		CH35-42B-2F		CH35-42C-2F		CH35-48B-2F		CH35-48C-2F		CH35-51C-2F		CH35-60D-2F	
	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil
800	0.06	0.08	0.10	0.10	0.06	0.06	---	---	---	---	---	---	---	---
1000	0.10	0.13	0.14	0.18	0.09	0.10	0.14	0.16	---	---	---	---	---	---
1200	0.15	0.18	0.20	0.25	0.15	0.16	0.19	0.23	0.16	0.19	0.15	0.16	---	---
1400	0.19	0.23	0.26	0.31	0.18	0.21	0.25	0.29	0.21	0.26	0.20	0.23	0.12	0.16
1600	0.24	0.31	0.34	0.36	0.26	0.28	0.30	0.38	0.27	0.30	0.25	0.29	0.16	0.20
1800	---	---	0.42	0.47	0.31	0.38	0.38	0.42	0.33	0.39	0.31	0.36	0.20	0.24
2000	---	---	---	---	---	---	---	---	0.39	0.49	0.40	0.44	0.24	0.30
2200	---	---	---	---	---	---	---	---	---	---	0.48	0.54	0.29	0.36
2400	---	---	---	---	---	---	---	---	---	---	---	---	0.34	0.42

## DIMENSIONS

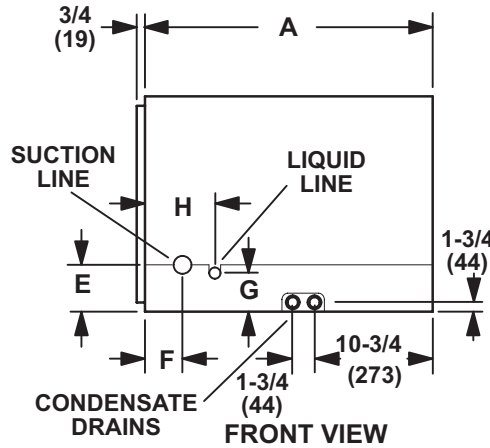
<sup>1</sup> Optional right-hand airflow requires a field fabricated 6 in. (152 mm) spacer in-between the furnace and coil.



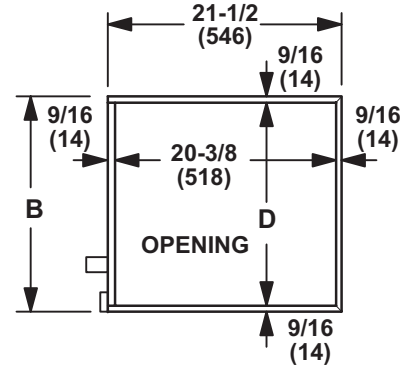
TOP VIEW



END VIEW



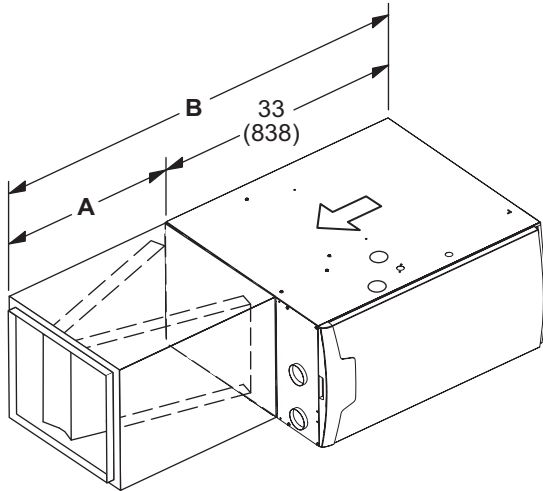
FRONT VIEW



END VIEW

Model No.	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CH35-18A-2F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-24A-2F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-24B-2F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-30A-2F	31-1/2	800	14-1/2	368	13	330	13-3/8	340	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-30B-2F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-36A-2F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-36B-2F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-36C-2F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-42B-2F	31-1/2	800	17-1/2	444	16	406	16-3/8	416	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-42C-2F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-48B-2F	31-1/2	800	17-1/2	444	16	406	16-3/8	416	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-48C-2F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-51C-2F	31-1/2	800	21	533	19-1/2	495	19-7/8	505	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124
CH35-60D-2F	31-1/2	800	24-1/2	622	23	584	23-3/8	594	3-3/8	86	2-1/8	54	3-5/8	92	4-7/8	124

## DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS



### HORIZONTAL POSITION

Model No.		A		B	
		in.	mm	in.	mm
<b>CHX35</b>					
CH35-18A, CH35-24A, CH35-24B, CH35-30B,	CH35-36A, CH35-36B, CH35-36C, CH35-42C, CH35-48C	26-1/2	673	59-1/2	1511
CH35-30A, CH35-42B, CH35-48B,	CH35-51/61C, CH35-60D	31-1/2	880	64-1/2	1638

### CH33 TO CH35 CROSS-REFERENCE

CH33 Model No.	Tons	Dimensions (H x L x D)	Order No.	CH35 Model No.	Tons	Dimensions (H x L x D)	Order No.
CH33-18A-2F	1.5	14.5 x 21.5 x 21.5	<b>76L01</b>	CH35-18A-2F	1.5	14.5 x 26.5 x 21.5	<b>10C26</b>
CH33-19A-2F	1.5	14.5 x 26.5 x 21.5	<b>18W82</b>	CH35-18A-2F	1.5	14.5 x 26.5 x 21.5	<b>10C26</b>
CH33-25A-2F	2	14.5 x 26.5 x 21.5	<b>18W83</b>	CH35-24A-2F	2	14.5 x 26.5 x 21.5	<b>10C27</b>
CH33-25B-2F	2	17.5 x 26.5 x 21.5	<b>18W84</b>	CH35-24B-2F	2	17.5 x 26.5 x 21.5	<b>10C28</b>
CH33-24/30A-2F	2/2.5	14.5 x 26.5 x 21.5	<b>76L03</b>	CH35-24A-2F	2	14.5 x 26.5 x 21.5	<b>10C27</b>
<sup>1</sup> CH33-24/30A-2F	2/2.5	14.5 x 31.5 x 21.5	<b>76L03</b>	<sup>1</sup> CH35-30A-2F	2.5	14.5 x 31.5 x 21.5	<b>10C29</b>
CH33-31A-2F	2.5	14.5 x 31.5 x 21.5	<b>18W85</b>	CH35-30A-2F	2.5	14.5 x 31.5 x 21.5	<b>10C29</b>
CH33-31B-2F	2.5	17.5 x 26.5 x 21.5	<b>18W86</b>	CH35-30B-2F	2.5	17.5 x 26.5 x 21.5	<b>10C30</b>
CH33-36A-2F	3	14.5 x 26.5 x 21.5	<b>76L04</b>	CH35-36A-2F	3	14.5 x 26.5 x 21.5	<b>10C31</b>
CH33-36B-2F	3	17.5 x 26.5 x 21.5	<b>76L07</b>	CH35-36B-2F	3	17.5 x 26.5 x 21.5	<b>10C32</b>
CH33-36C-2F	3	21 x 26.5 x 21.5	<b>76L10</b>	CH35-36C-2F	3	21 x 26.5 x 21.5	<b>10C33</b>
CH33-42B-2F	3.5	17.5 x 26.5 x 21.5	<b>76L08</b>	CH35-42B-2F	3.5	17.5 x 31.5 x 21.5	<b>10C34</b>
CH33-43B-2F	3.5	17.5 x 31.5 x 21.5	<b>18W87</b>	CH35-42B-2F	3.5	17.5 x 31.5 x 21.5	<b>10C34</b>
CH33-43C-2F	3.5	21 x 26.5 x 21.5	<b>18W88</b>	CH35-42C-2F	3.5	21 x 26.5 x 21.5	<b>10C35</b>
CH33-44/48B-2F	4	17.5 x 31.5 x 21.5	<b>76L09</b>	CH35-48B-2F	3.5/4	17.5 x 31.5 x 21.5	<b>10C36</b>
CH33-48C-2F	4	21 x 26.5 x 21.5	<b>76L11</b>	CH35-48C-2F	3.5/4	21 x 26.5 x 21.5	<b>10C37</b>
CH33-49C-2F	4	21 x 31.5 x 21.5	<b>18W89</b>	CH35-51C-2F	4	21 x 31.5 x 21.5	<b>10C38</b>
CH33-50/60C-2F	4 – 5	21 x 31.5 x 21.5	<b>76L12</b>	CH35-51C-2F	4	21 x 31.5 x 21.5	<b>10C38</b>
CH33-60D-2F	5	24.5 x 26.5 x 21.5	<b>76L13</b>	CH35-60D-2F	5	24.5 x 31.5 x 21.5	<b>10C39</b>
CH33-62D-2F	5	24.5 x 31.5 x 21.5	<b>76L14</b>	CH35-60D-2F	5	24.5 x 31.5 x 21.5	<b>10C39</b>

<sup>1</sup> When matched with a 2.5 ton air conditioner.





## REVISIONS

Sections	Description of Change
Dimensions	Dimensions "E" and "G" updated.
Dimensions - Furnace/Coil Combined Dimensions	Updated.



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Contact us at 1-800-4-LENNOX

NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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