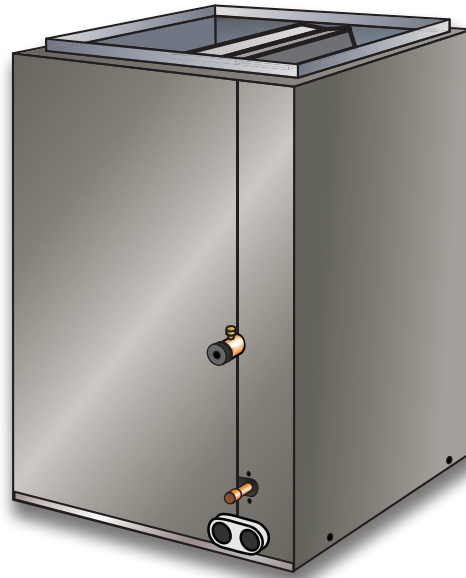
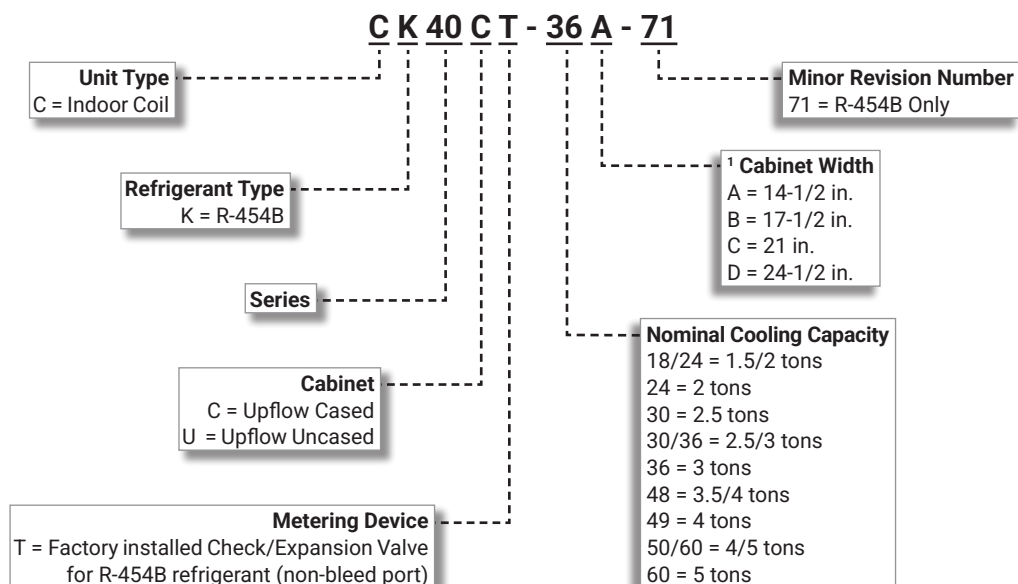


CK40CT | CK40UTUpflow | Cased and Uncased | Quantum™ Coil | TXV Furnished | **R-454B****RESIDENTIAL
PRODUCT SPECIFICATIONS (EHB)****1.5 to 5 Tons****2025 COMPLIANT
REFRIGERANT****MODEL NUMBER IDENTIFICATION**¹ 1 Furnaces with the same letter designation physically match the indoor coil.

CONTENTS

Air Resistance	5
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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 210/240-2023
- AHRI Certified system match-ups and expanded ratings, visit www.LennoxPros.com
- All models meet UL 60335-2-40 Refrigerant Detector Requirements
- 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® Basic Limited Warranty at www.Lennox.com for additional details.

FEATURES

APPLICATIONS

- 1.5 to 5 ton nominal sizes
- Lennox designed upflow cased indoor coils can easily be installed with most Lennox upflow furnaces
- Factory installed R-454B, check/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
- Helical grooved tubing provides superior heat transfer
- Twin coil construction assembled in an “A” configuration for large surface area
- High pressure testing insures leak-proof construction

Refrigerant Line Connections

- Copper refrigerant sweat connections on both liquid and suction lines for easy brazing
- Lines extend outside of the cabinet for ease of connection
- See dimension drawings for locations

Braze-Free/Press Fitting Flexibility

- Units can accommodate braze-free or press fittings for installation versatility

Anti-Microbial Drain Pan

- Non-corrosive, UV-resistant polymer drain pan with dual FPT drain connections
- Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage

R-454B Check/Expansion Valve

- All models have a factory-installed, internal check/expansion valve
- For use with R-454B systems
- Wide range valve
- Chatleff style fitting
- Expansion valves are externally-equalized, non-bleed port type

FEATURES

LOW GWP REFRIGERANT DETECTION SYSTEM

- Consists of a refrigerant detection sensor on the coil and a mitigation control in the furnace

NOTE - Furnaces with a factory installed RDS mitigation control - The mitigation control is integral to the furnace ignition control board.

Furnaces without a RDS mitigation control - The Refrigerant Detection System (RDS) Blower Control Board is required and must be ordered separately for field installation. See below for description and features.

Refrigerant Detection System (RDS) Coil Sensor

- Factory installed on all indoor coils
- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Sensor ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant

Optional Accessories

Refrigerant Detection System (RDS) Blower Control Board

NOTE - For furnaces manufactured without the RDS Blower Control Board.

- Connects to the RDS sensor furnished with the coil

Communicating Blower Control Board (Universal)

- Communicating Blower Control Board and Sensor can be used universally with any Lennox® communicating furnace or any non-communicating 24 volt furnace

Non-Communicating Blower Control Board

- Non-Communicating Blower Control Board and Sensor can be used with any non-communicating 24 volt furnace

Standard Features

- Connects to the RDS sensor furnished with the coil
- Supports up to two RDS Sensors (factory setting)
- Used as interface between indoor unit and thermostat to control system
- Ensures safe operation for systems equipped with R-454B refrigerant
- If R-454B refrigerant is detected the refrigerant detection system will prevent compressor and heating operation until R-454B refrigerant is no longer detected
- Refrigeration detection system also energizes the blower if R-454B refrigerant is detected to mitigate any concentrations of refrigerant from the conditioned space
- Multi-color LED for system status and as an aid in troubleshooting
 - Flashing LED codes for system status (Green/Blue) and diagnosing Sensor errors (Red)
- Alarm relay can trigger an external alarm if R-454B refrigerant is detected
- Zone relay opens all zone dampers (if part of a zoning system) if R-454B refrigerant is detected

- Power is disabled to non-communicating thermostats to prevent demand if R-454B refrigerant is detected
- On system start-up blower will run for five minutes and any thermostat demands are disabled
- Dimensions (H x W x D): 7-7/16 x 7-7/16 x 2-1/2 (189 x 189 x 127 mm)

NOTE - Refer to the Installation Instructions for additional information.

CABINET (Cased Models)

- Pre-painted heavy gauge steel
- Insulated with thick fiberglass insulation
- Flanges provided in outlet for ease of duct connection
- Coil slides out of cabinet for ease of servicing
- Removable panels provide access to coil
- Refrigerant lines extend outside of cabinet for easy installation

Furnace Match-Up

- Coils exactly match corresponding furnaces with the same letter designation in model number
- No adaptor required
- Engaging holes furnished on cabinet for alignment with furnace

Optional Accessories

Adjustable Coil Adaptor/Seal

- For uncased coils
- Telescoping adaptor provides quick and easy installation
- See dimension drawings and application drawings
- Available ten pack kits

CK40CT Cased Coil Upflow to Downflow Conversion Kits (30A, 36B, 49C and 60C size cased coils only)

- Converts upflow cased coils to downflow position
- Kit contains transition brackets, drip shields, insulation and all necessary hardware for the conversion

SPECIFICATIONS			1.5 TO 2 TON		
Size		18/24A	18/24B	24A	24B
Nominal Tonnage		1.5 / 2	1.5 / 2	2	2
Furnace Cabinet Matching Letter Width		A	B	A	B
Factory Installed Expansion Valve (TXV)		26Z70	26Z70	26Z70	26Z70
¹ Coil & Furnace Cabinet Width - in.		14-1/2	17-1/2	14-1/2	17-1/2
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8	3/8
	Suction line (OD) sweat - in.	3/4	3/4	3/4	3/4
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	3.11	3.11	3.55	3.55
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Rows	2	2	3	3
	Fins - in.	18	18	14	14
Shipping Data - lbs.	Uncased	18	20	23	24
	Cased	30	34	38	43

SPECIFICATIONS			2.5 TO 3 TON			
Size		30A	30B	30/36A	30/36B	30/36C
Nominal Tonnage		2.5	2.5	2.5 / 3	2.5 / 3	2.5 / 3
Furnace Cabinet Matching Letter Width		A	B	A	B	C
Factory Installed Expansion Valve (TXV)		26Z70	26Z70	26Z70	26Z70	26Z70
¹ Coil & Furnace Cabinet Width - in.		14-1/2	17-1/2	14-1/2	17-1/2	21
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8	3/8	3/8
	Suction line (OD) sweat - in.	3/4	3/4	3/4	3/4	3/4
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	4.44	4.44	4.89	4.89	4.89
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Rows	3	3	2	2	2
	Fins per inch	13	13	18	18	18
Shipping Data - lbs.	Uncased	31	32	26	27	29
	Cased	45	50	41	45	48

SPECIFICATIONS				3 TO 4 TON		
Size		36A	36B	36C	48B	48C
Nominal Tonnage		3	3	3	4	4
Furnace Cabinet Matching Letter Width		A	B	C	B	C
Factory Installed Expansion Valve (TXV)		26Z70	26Z70	26Z70	26Z71	26Z71
¹ Coil & Furnace Cabinet Width - in.		14-1/2	17-1/2	21	17-1/2	21
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8	3/8	3/8
	Suction line (OD) sweat - in.	3/4	3/4	3/4	7/8	7/8
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	4.89	4.89	4.89	5.77	5.77
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Rows	3	3	3	3	3
	Fins per inch	14	14	14	13	13
Shipping Data - lbs.	Uncased	31	33	35	43	44
	Cased	46	50	54	55	60

SPECIFICATIONS		4 TO 5 TON			
Size		49C	50/60C	60C	60D
Nominal Tonnage		4	4 / 5	5	5
Furnace Cabinet Matching Letter Width		C	C	C	D
Factory Installed Expansion Valve (TXV)		26Z71	26Z71	26Z72	26Z72
¹ Coil & Furnace Cabinet Width - in.		21	21	21	24-1/2
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8	3/8
	Suction line (OD) sweat - in.	7/8	7/8	7/8	7/8
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	7.0	5.78	7.50	7.58
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Rows	3	3	3	3
	Fins per inch	15	12	16	14
Shipping	Uncased	53	40	58	48
Data - lbs.	Cased	70	60	73	72

¹ Uncased coils match furnaces without any overhang, but require optional adaptor base or field fabricated transition to match furnace width. See page 11.

OPTIONAL ACCESSORIES - ORDER SEPARATELY

		"A" Width Models	"B" Width Models	"C" Width Models	"D" Width Models
CABINET ACCESSORIES					
Adjustable Coil Adaptor/Seal - Uncased models only (Ten Pack)		11L09	11L09	11L09	11L09
¹ CK40CT Cased Coil Upflow to Downflow Conversion Kits		32F20	32F20	32F22	N/A
CONTROLS					
² Refrigerant Detection System (RDS) Blower Control Board	Any Lennox® Communicating Furnace <u>or</u> any Non-Communicating 24V Furnace (Universal)	27A03	27A03	27A03	27A03
	Any Non-Communicating 24V Furnace	27A02	27A02	27A02	27A02

¹ Only for use with 30A, 36B, 49C and 60C size cased coils.

² Communicating Blower Control Board can be used universally with Lennox® communicating furnace or any non-communicating 24 volt furnace.
Non-Communicating Blower Control Board can be used with any non-communicating 24 volt furnace.

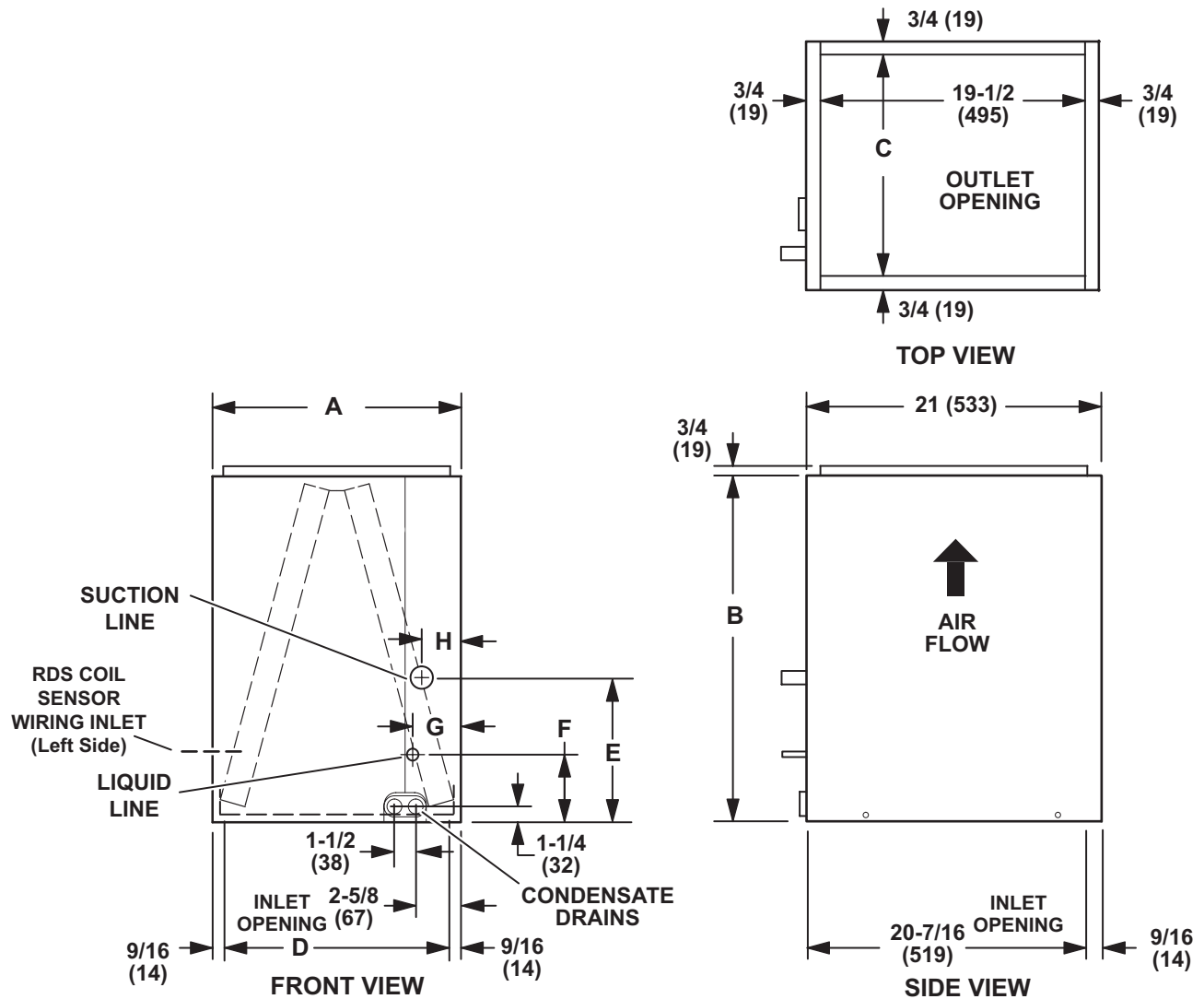
AIR RESISTANCE

UPFLOW

Size	Air Volume cfm	Total Resistance	
		Dry Coil	Wet Coil
		in. w.g.	in. w.g.
18/24A 18/24B	400	0.06	0.08
	600	0.11	0.17
	800	0.18	0.25
	1000	0.27	0.39
	1200	0.37	0.52
24A	400	0.05	0.05
	600	0.09	0.10
	800	0.16	0.18
	1000	0.23	0.26
	1200	0.32	0.36
24B	400	0.03	0.04
	600	0.07	0.09
	800	0.11	0.15
	1000	0.17	0.22
	1200	0.23	0.31
30A	600	0.07	0.08
	800	0.12	0.13
	1000	0.18	0.20
	1200	0.26	0.28
	1400	0.34	0.37
30B	600	0.06	0.06
	800	0.09	0.11
	1000	0.13	0.16
	1200	0.19	0.23
	1400	0.25	0.31
30/36A	800	0.13	0.14
	1000	0.19	0.21
	1200	0.27	0.30
	1400	0.34	0.39
	1600	0.45	0.51
30/36B 30/36C 36B	800	0.08	0.11
	1000	0.13	0.16
	1200	0.17	0.21
	1400	0.22	0.28
	1600	0.29	0.34
36A	800	0.13	0.14
	1000	0.19	0.21
	1200	0.27	0.30
	1400	0.34	0.39
	1600	0.45	0.51
36C	800	0.05	0.06
	1000	0.07	0.08
	1200	0.10	0.13
	1400	0.13	0.17
	1600	0.16	0.21
48B	1000	0.13	0.13
	1200	0.18	0.18
	1400	0.23	0.24
	1600	0.30	0.31
	1800	0.37	0.40
48C	1000	0.07	0.09
	1200	0.10	0.12
	1400	0.13	0.16
	1600	0.16	0.20
	1800	0.20	0.24
49C	1200	0.08	0.12
	1400	0.13	0.17
	1600	0.17	0.22
	1800	0.22	0.28
	2000	0.28	0.35
50/60C	1200	0.13	0.17
	1400	0.18	0.23
	1600	0.23	0.29
	1800	0.28	0.37
	2000	0.34	0.43
60C	1400	0.11	0.15
	1600	0.14	0.18
	1800	0.17	0.21
	2000	0.21	0.27
	2200	0.25	0.32
60D	2400	0.30	0.37
	1400	0.15	0.19
	1600	0.19	0.23
	1800	0.24	0.28
	2000	0.29	0.34
	2200	0.33	0.40
	2400	0.39	0.46

Size	Air Volume	Total Resistance	
		Dry Coil	Wet Coil
	cfm	in. w.g.	in. w.g.
30A	600	0.17	0.17
	800	0.29	0.29
	1000	0.43	0.43
36B	600	0.11	0.11
	800	0.19	0.20
	1000	0.29	0.30
	1200	0.40	0.42
49C	1000	0.20	0.21
	1200	0.28	0.28
	1400	0.38	0.38
	1600	0.49	0.49
60C	1000	0.14	0.15
	1200	0.20	0.20
	1400	0.26	0.27
	1600	0.33	0.35
	1800	0.40	0.43
	2000	0.49	0.52

CK40CT-18/24(A/B), -30/36(A/B/C) and -36(A/B/C) Coils

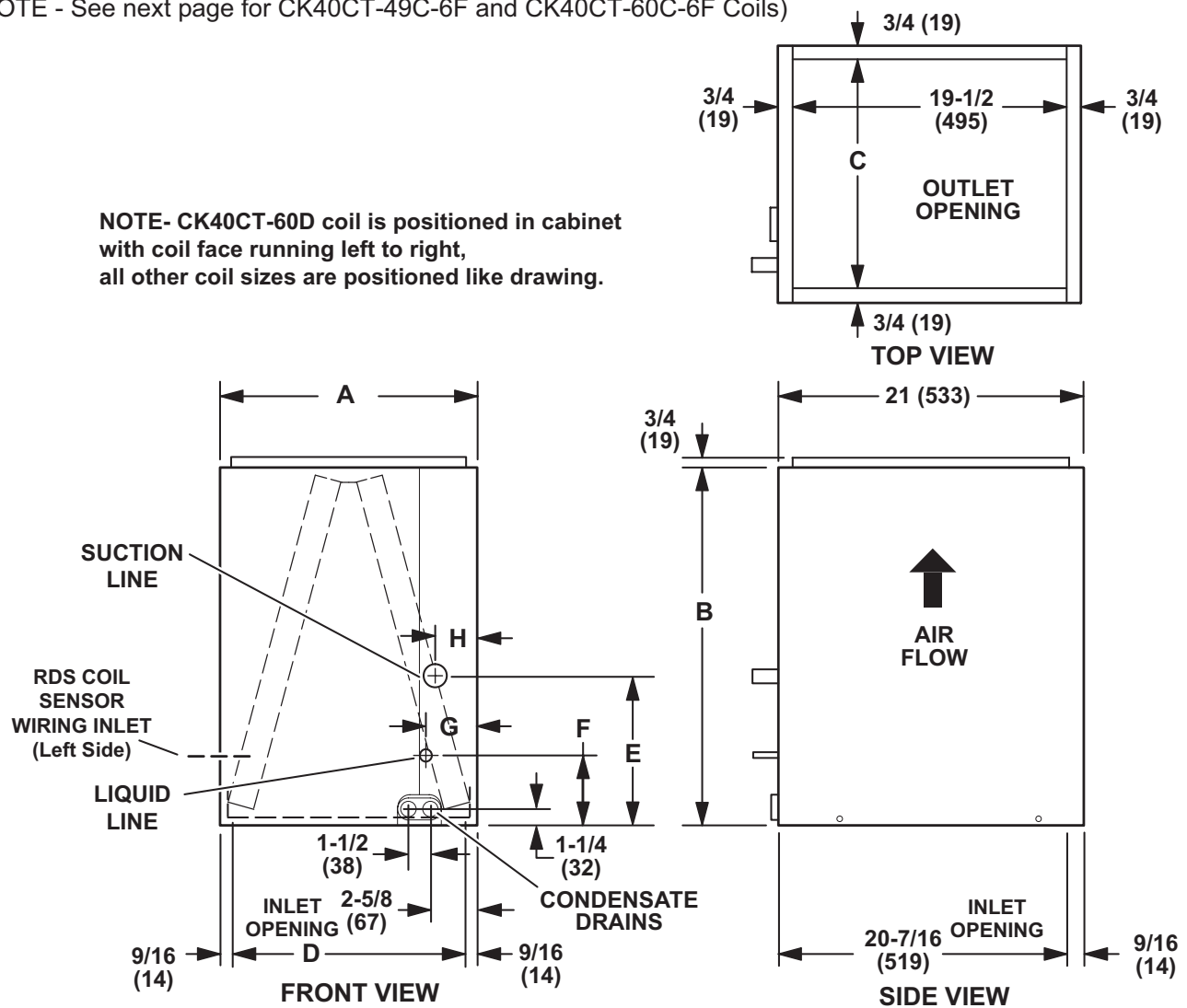


Size	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18/24A	14-1/2	368	16-1/2	419	13	330	13-3/8	340	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
18/24B	17-1/2	445	16-1/2	419	16	406	16-3/8	416	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
30/36A	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
30/36B	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
30/36C	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
36A	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
36B	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
36C	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60

CK40CT-24(A/B), -30(A/B), -48(B/C), -50/60C and -60D Coils

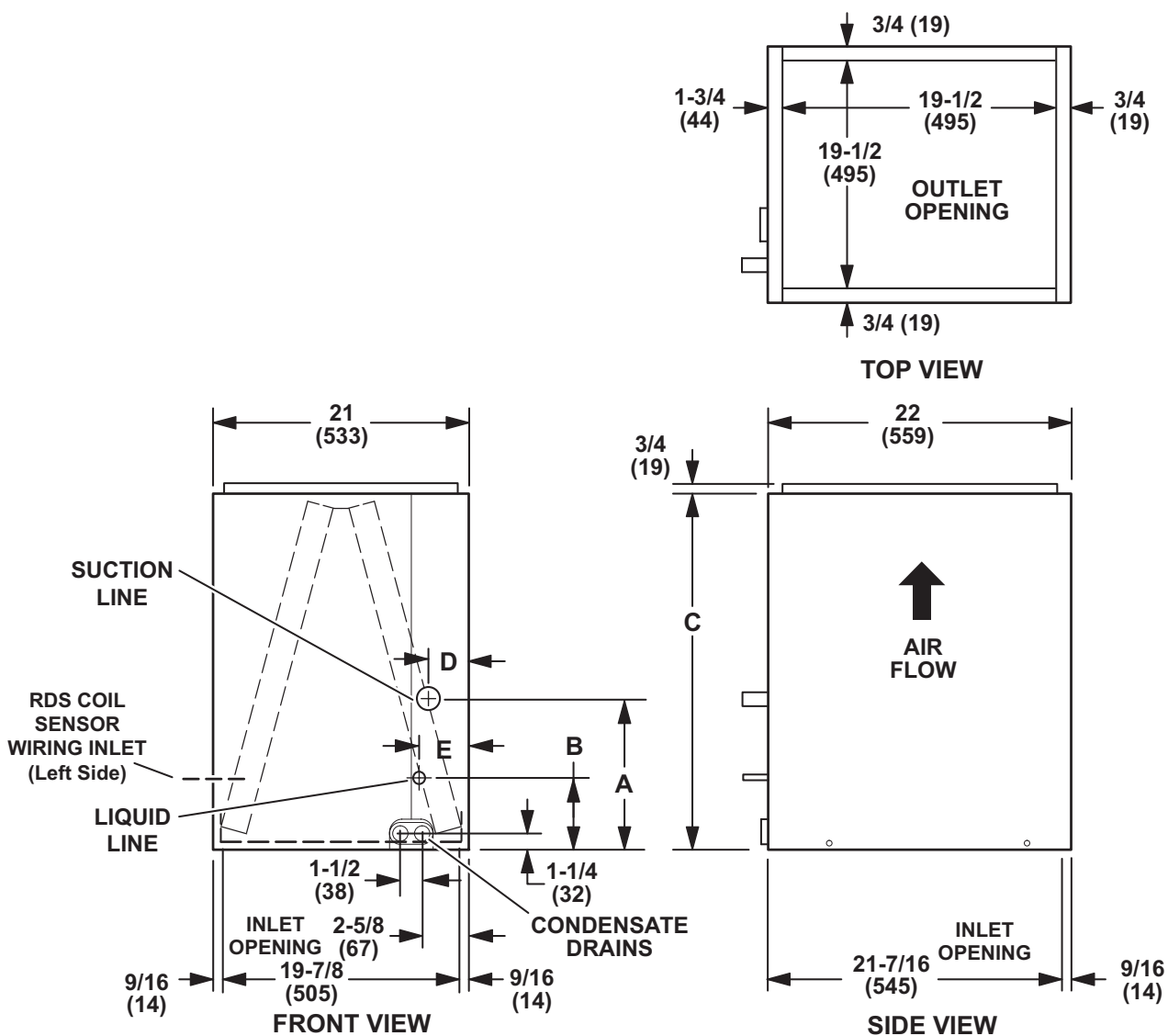
(NOTE - See next page for CK40CT-49C-6F and CK40CT-60C-6F Coils)

NOTE- CK40CT-60D coil is positioned in cabinet with coil face running left to right, all other coil sizes are positioned like drawing.



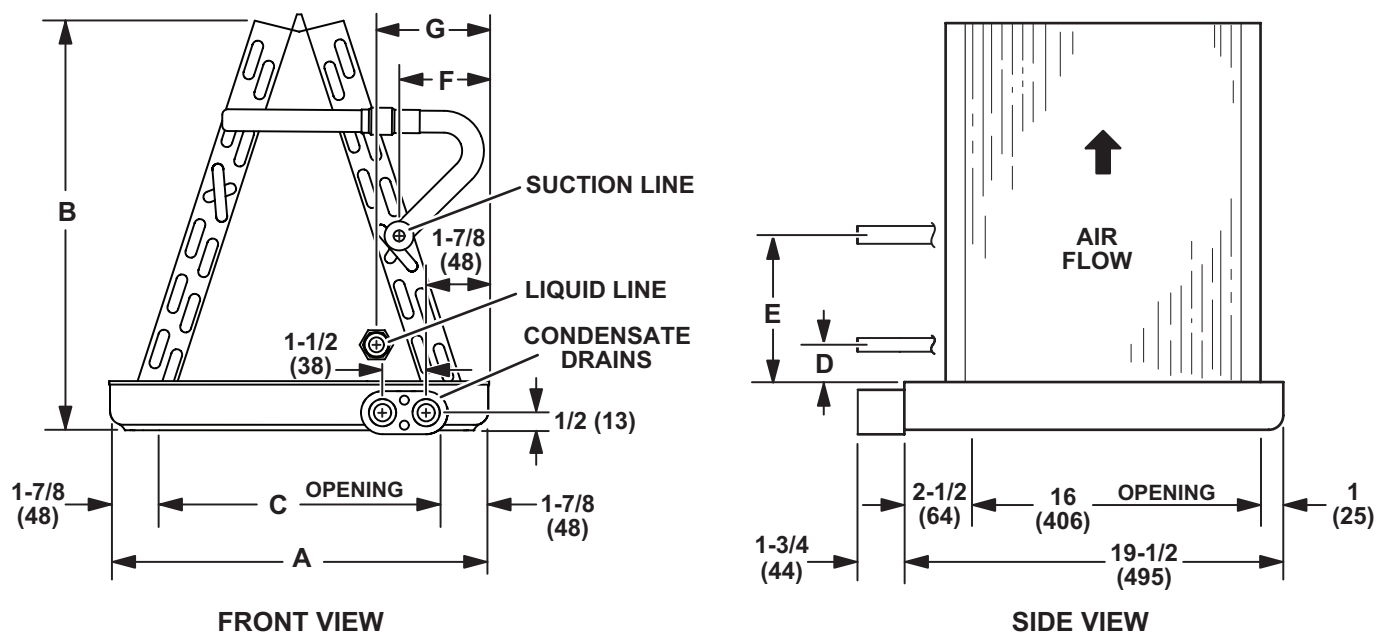
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	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24A	14-1/2	368	18-1/2	470	13	330	13-3/8	340	9-3/4	248	3-5/8	92	2-5/8	66	2-3/8	60
24B	17-1/2	445	18-1/2	470	16	406	16-3/8	416	9-3/4	248	3-5/8	92	2-5/8	66	2-3/8	60
30A	14-1/2	368	22-1/2	572	13	330	13-3/8	340	11-1/2	292	3-5/8	92	2-5/8	66	2-3/8	60
30B	17-1/2	445	22-1/2	572	16	406	16-3/8	416	11-1/2	292	3-5/8	92	2-5/8	66	2-3/8	60
48B	17-1/2	445	27-1/2	699	16	406	16-3/8	416	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
48C	21	533	27-1/2	699	19-1/2	495	19-7/8	505	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
50/60C	21	533	27-1/2	699	19-1/2	495	19-7/8	505	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
60D	24-1/2	622	29-1/2	749	23	584	23-3/8	594	10	254	3-5/8	92	2-5/8	66	2-3/8	60

CK40CT-49C-6F and CK40-CT-60C-6F



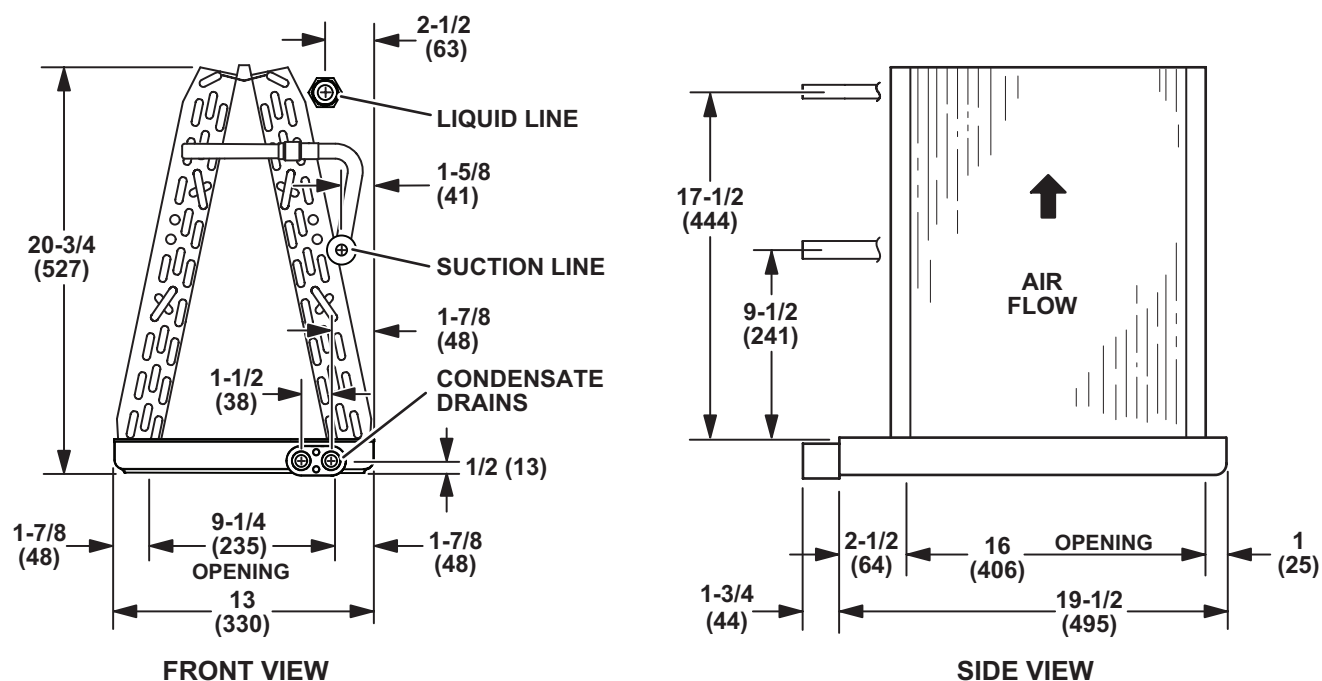
Size	A		B		C		D		E	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
49C	10	254	3-5/8	92	29-1/2	749	2-3/8	60	2-5/8	66
60C	14-1/2	368	3-5/8	92	31-1/2	800	2-3/8	60	2-5/8	66

C40UT-18/24A, -18/24B, -24A, -24B Coils

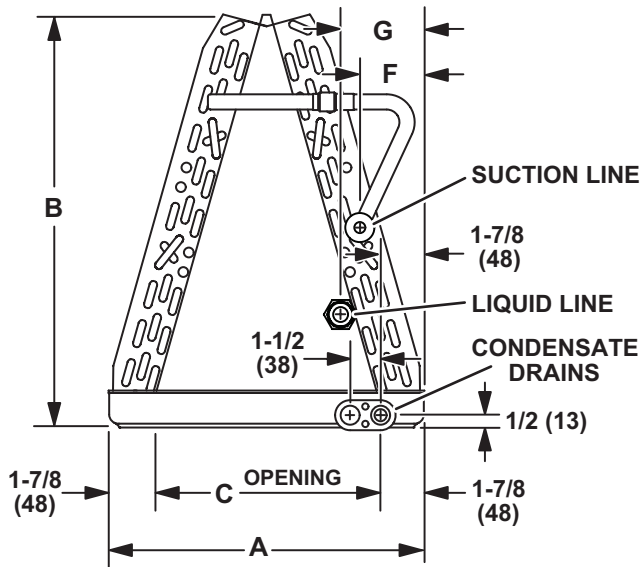


Size	A		B		C		D		E		F		G	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18/24A	13	330	14-1/8	359	9-1/4	235	1-1/4	32	5	127	3-1/8	79	3-7/8	98
18/24B	15-1/2	394	14-1/8	359	11-3/4	298	1	25	4-5/8	117	2-7/8	73	3-5/8	92
24A	13	330	16-3/8	416	9-1/4	235	2-7/8	73	7-5/8	194	3-1/8	79	3-3/4	95
24B	15-1/2	394	16-3/8	416	11-3/4	298	2-1/4	57	7-1/2	190	3-1/8	79	4	102

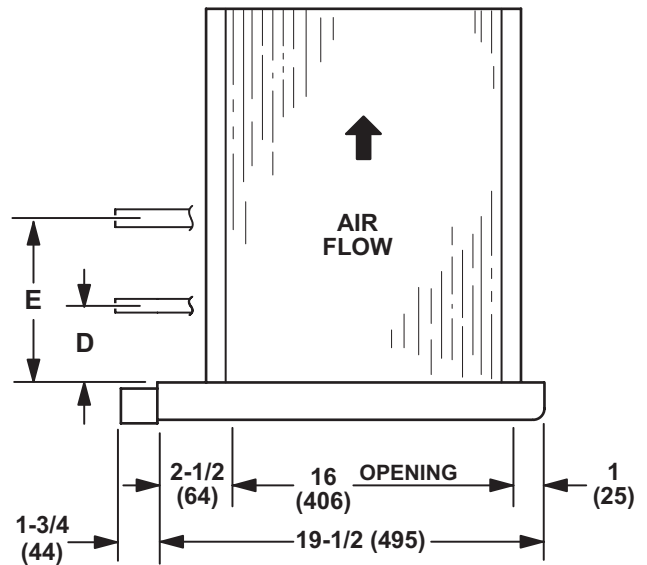
CK40UT-30A Coil



CK40UT-30B, -30/36A, -30/36B, -30/36C, -36A, -36B, -36C, -48B, -48C, -50/60C Coils



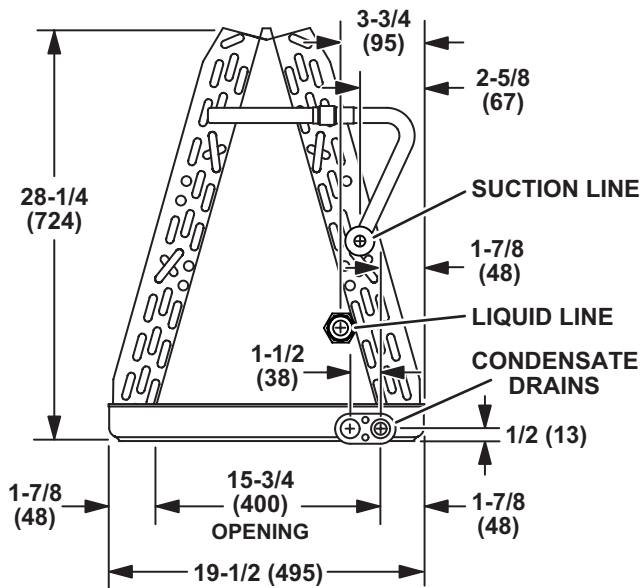
FRONT VIEW



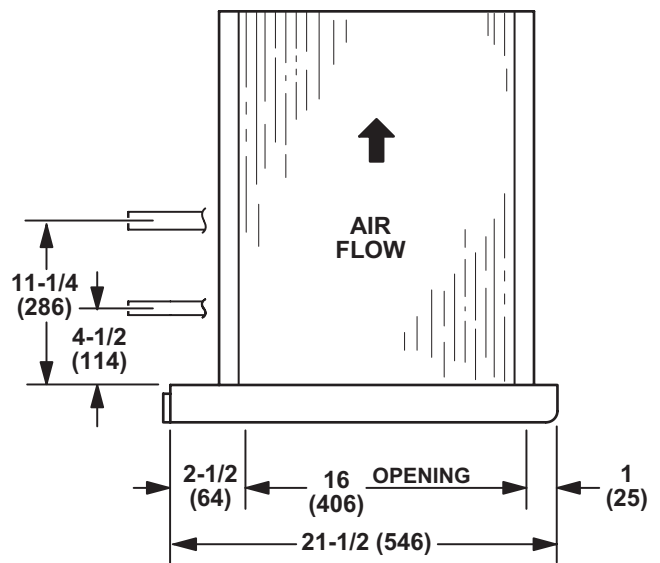
SIDE VIEW

Size	A		B		C		D		E		F		G	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
30B	15-1/2	394	20-3/4	527	11-3/4	298	3-1/8	79	8	203	3-1/8	79	4	102
30/36A	13	330	22-1/4	565	9-1/4	235	2-1/2	64	11-3/4	298	3-1/8	79	3-7/8	98
30/36B	15-1/2	394	22-1/4	565	11-3/4	298	2-5/8	67	11	279	3-1/8	79	4	102
30/36C	20	508	22-1/4	565	16-1/4	413	2-3/8	60	11-7/8	302	3-1/8	79	4	102
36A	13	330	22-3/8	568	9-1/4	235	4-1/4	108	12-5/8	321	2-1/2	64	3-1/2	89
36B	15-1/2	394	22-3/8	568	11-3/4	298	4-1/2	114	13	330	2-7/8	73	3-5/8	92
36C	20	508	22-1/4	565	16-1/4	413	2-3/8	60	11-7/8	302	3-1/8	79	4	102
48B	15-1/2	394	26-1/4	667	11-3/4	298	4-3/8	111	12-1/4	311	3-1/8	79	3-3/4	95
48C	20	508	26-1/4	667	16-1/4	413	4-1/8	105	11-3/4	298	3-1/8	79	3-3/4	95
50/60C	20	508	25-7/8	657	16-1/4	413	3-3/4	95	11-3/4	298	3-1/8	79	4	102

CK40UT-49C Coil

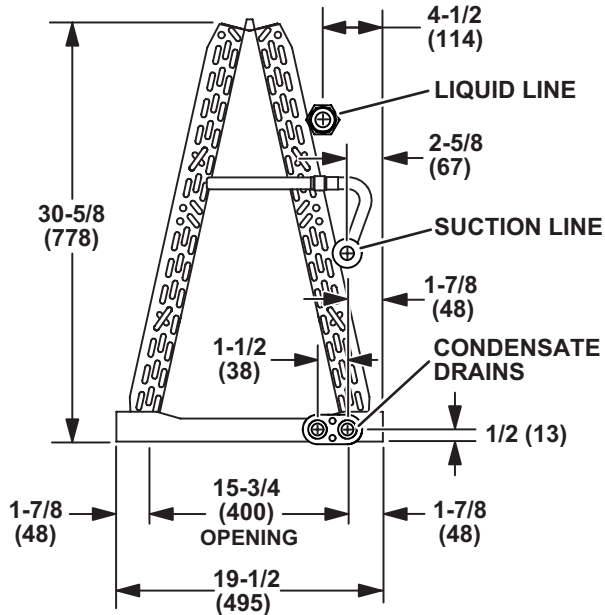


FRONT VIEW

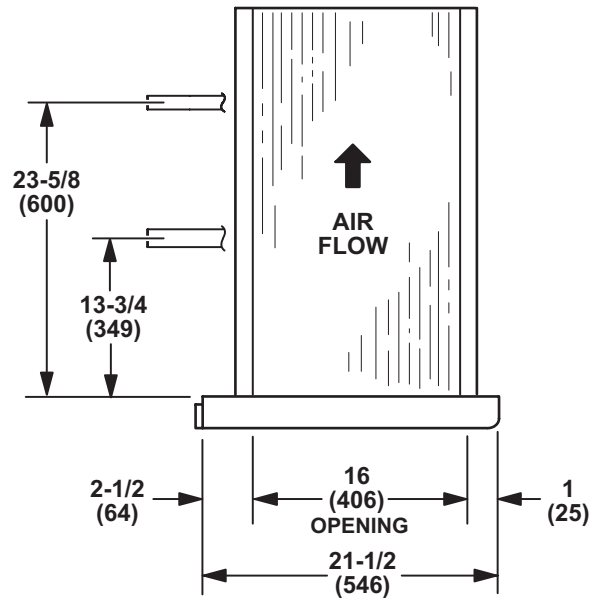


SIDE VIEW

CK40UT-60C Coil

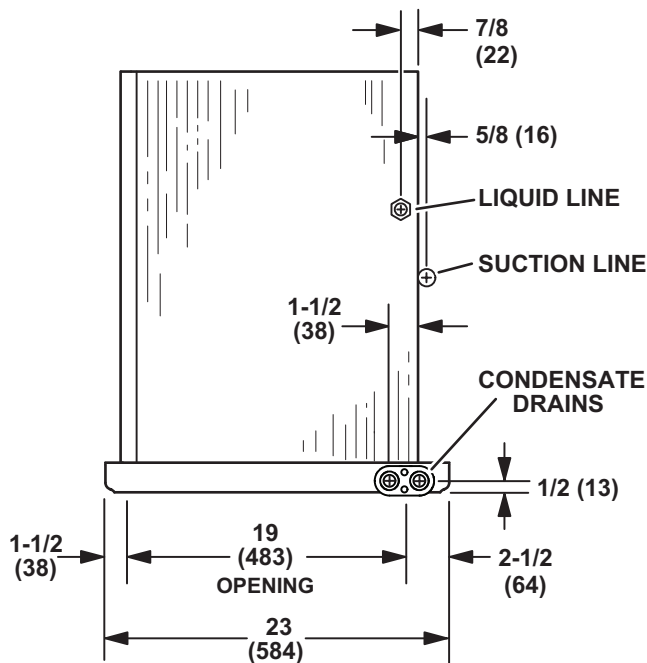


FRONT VIEW

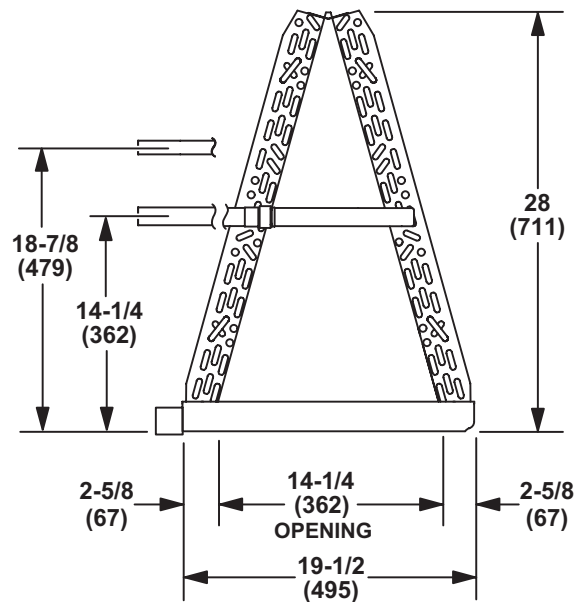


SIDE VIEW

CK40UT-60D Coil



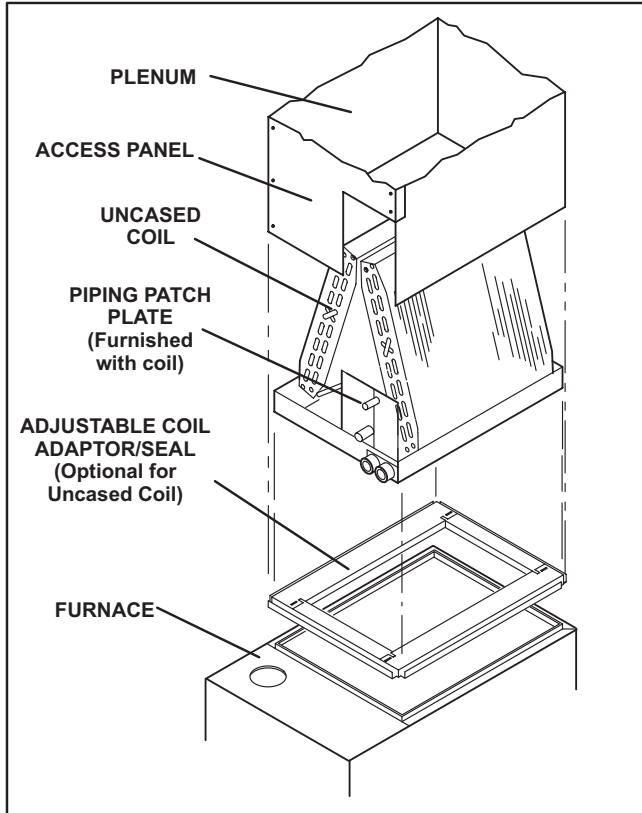
FRONT VIEW



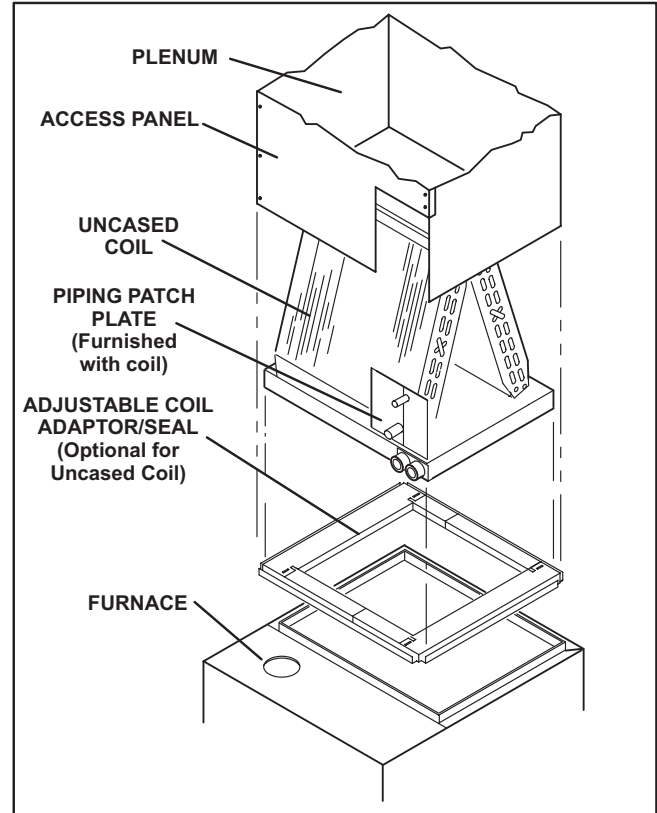
SIDE VIEW

OPTIONAL ACCESSORIES - ADJUSTABLE UNCASSED COIL ADAPTOR/SEAL

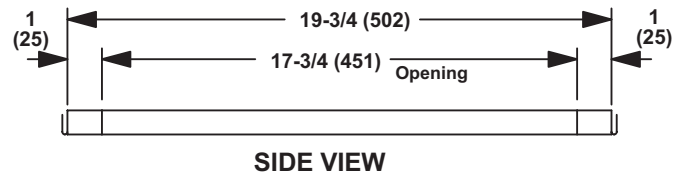
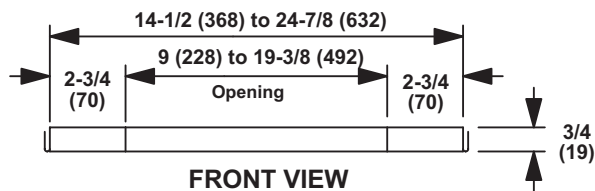
CK40UT-18/24A thru CK40UT-60C UNCASSED COILS



CK40UT-60D UNCASSED COILS

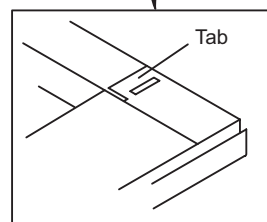
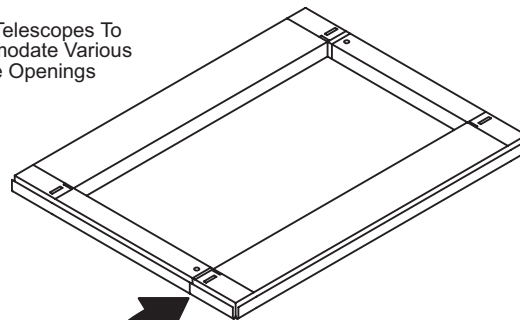


ADJUSTABLE COIL ADAPTOR/SEAL DIMENSIONS — inches (mm)



ADJUSTABLE COIL ADAPTOR/SEAL DETAIL

Frame Telescopes To Accommodate Various Furnace Openings



Tab may be bent up 90° for centering of smaller coils.

REVISIONS

Sections	Description of Change
Air Resistance	Added Downflow Air Resistance for optional conversion kits.
Optional Accessories	Added CK40CT Cased Coil Upflow to Downflow Conversion Kits.



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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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