



GE APPLIANCES

Product Specifications

**NCU(C/U)*5S
UPFLOW COILS**

RESIDENTIAL PRODUCT SPECIFICATIONS

- Upflow / Cased and Uncased
- Total Corrosion Technology Designed Coil
- TXV Furnished
- R- 454B
- 2 to 5 Tons

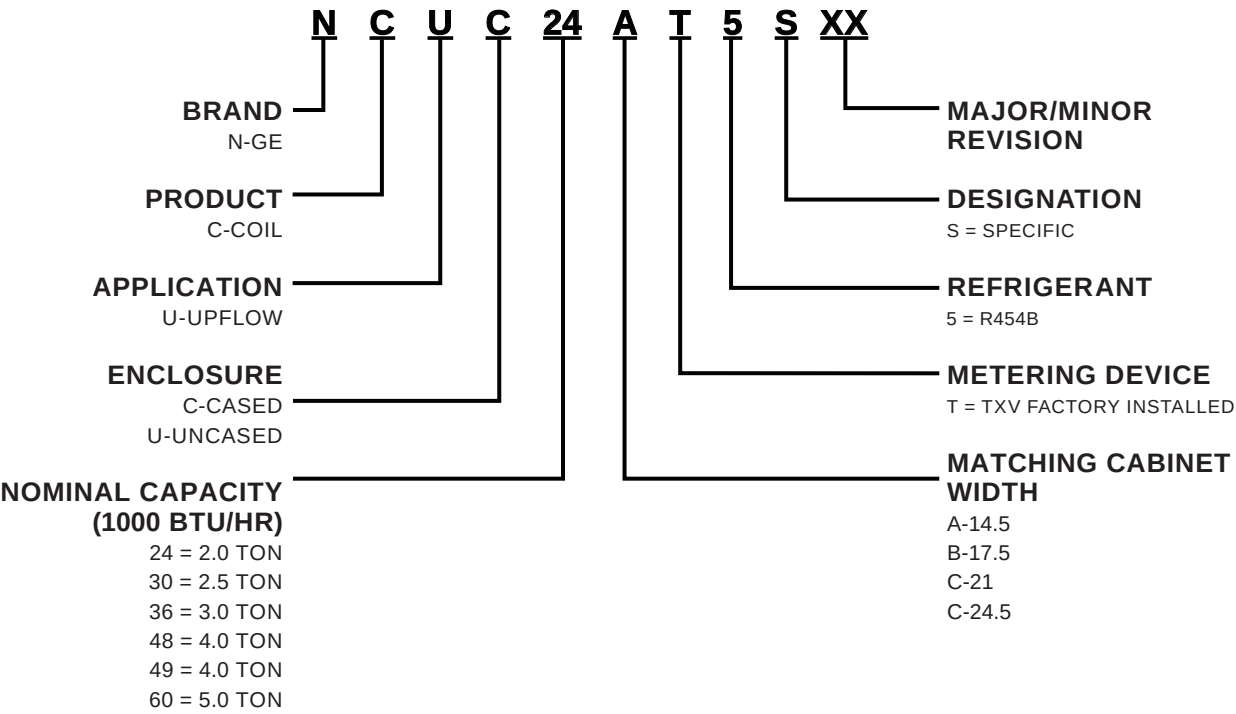


**READ CAREFULLY.
KEEP THESE INSTRUCTIONS.**

NCU(C/U)*5S

PRODUCT SPECIFICATIONS

MODEL NUMBER GUIDE



APPROVALS

- Tested with matching air conditioners and heat pump units in accordance with AHRI Standard 210/240-2023
- AHRI Certified system match-ups and expanded ratings, visit **AHRIDirectory.org**
- Air resistance tests from air test chamber

APPLICATIONS

- 2 to 5 ton nominal sizes
- Upflow cased indoor coils can easily be installed with most branded upflow furnaces
- Factory installed R-454B, check/expansion valve

COIL CONSTRUCTION

Total Corrosion Technology Designed 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
- Axial 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 Pans

- 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

LOW GWP REFRIGERANT DETECTION SYSTEM

- Consists of an RDS detection sensor on the coil and a RDS control in the furnace

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

Furnaces without a RDS 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

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 dissipate 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

- Pre-painted cabinet finish
- Insulated with thick fiberglass insulation
- Coil slides out of cabinet for ease of servicing
- Flanges provided in outlet for ease of duct connection
- 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 - ORDER SEPARATELY

Description		Order No.
Refrigerant Detection System (RDS) Blower Control Board	Any Non-Communicating 24V Furnace	27A05
NOTE - Non-Communicating Blower Control Board can be used with any non-communicating 24 volt furnace.		

SPECIFICATIONS					2 to 2.5 TON
Size		24A	24B	30A	30B
Nominal Tonnage		2	2	2.5	2.5
Furnace Cabinet Matching Letter Width		A	B	A	B
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	3.55	3.55	4.44	4.44
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Rows	3	3	2	2
	Fins - in.	14	14	18	18
Shipping Data - lbs.	Uncased	23	24	31	32
	Cased	38	43	45	50

SPECIFICATIONS			3 TON	
Size		36A	36B	36C
Nominal Tonnage		3	3	3
Furnace Cabinet Matching Letter Width		A	B	C
Coil & Furnace Cabinet Width - in.		14-1/2	17-1/2	21
Connections	Liquid line (OD) sweat - in.	3/8	3/8	3/8
	Suction line (OD) sweat - in.	3/4	3/4	3/4
	Condensate drain (FPT) - in.	(2) 3/4	(2) 3/4	(2) 3/4
Indoor Coil	Net face area - ft. ²	4.89	4.89	5.77
	Tube diameter - in.	3/8	3/8	3/8
	Rows	2	2	3
	Fins - in.	18	18	14
Shipping Data - lbs.	Uncased	31	33	N/A
	Cased	46	50	48

SPECIFICATIONS		4 TON		
Size		48B	48C	49C
Nominal Tonnage		4	4	4
Furnace Cabinet Matching Letter Width		B	C	C
Coil & Furnace Cabinet Width - in.		17-1/2	21	21
Connections	Liquid line (OD) sweat - in.	3/8		
	Suction line (OD) sweat - in.	7/8		
	Condensate drain (FPT) - in.	(2) 3/4		
Indoor Coil	Net face area - ft. ²	5.77		7.0
	Tube diameter - in.	3/8		
	Rows	3		
	Fins - in.	14		
Shipping Data - lbs.	Uncased	43	44	53
	Cased	55	60	70

SPECIFICATIONS		4 TO 5 TON		
Size		50C	60C	60D
Nominal Tonnage		4	5	5
Furnace Cabinet Matching Letter Width		C	C	D
Coil & Furnace Cabinet Width - in.		21	21	24-1/2
Connections	Liquid line (OD) sweat - in.	3/8		
	Suction line (OD) sweat - in.	7/8		
	Condensate drain (FPT) - in.	(2) 3/4		
Indoor Coil	Net face area - ft. ²	5.78	7.50	7.58
	Tube diameter - in.	3/8		
	Rows	2	3	
	Fins - in.	18	14	
Shipping Data - lbs.	Uncased	N/A	58	48
	Cased	60	73	72

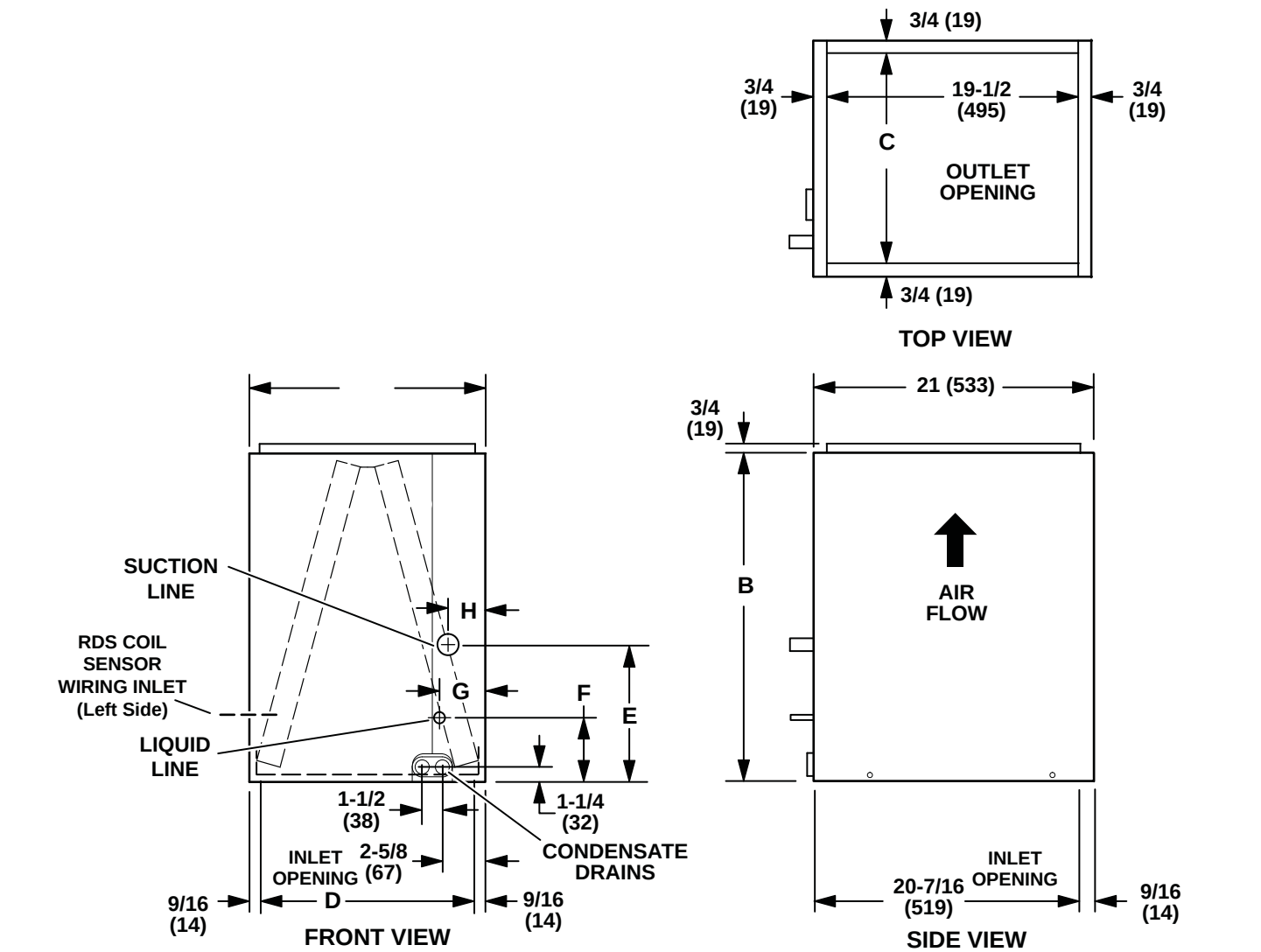
AIR RESISTANCE

Model No.	Air Volume cfm	Total Resistance	
		Dry Coil	Wet Coil
		in. w.g.	in. w.g.
NCUC24A	400	0.05	0.05
	600	0.09	0.1
	800	0.16	0.18
	1000	0.23	0.26
	1200	0.32	0.36
NCUC24B	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
NCUC30A	600	0.07	0.08
	800	0.12	0.13
	1000	0.18	0.2
	1200	0.26	0.28
	1400	0.34	0.37
NCUC30B	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
NCUC36A	800	0.13	0.14
	1000	0.19	0.21
	1200	0.27	0.3
	1400	0.34	0.39
	1600	0.45	0.51
NCUC36B	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
NCUC36C	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

Model No.	Air Volume cfm	Total Resistance	
		Dry Coil	Wet Coil
		in. w.g.	in. w.g.
NCUC48B	1000	0.13	0.13
	1200	0.18	0.18
	1400	0.23	0.24
	1600	0.3	0.31
	1800	0.37	0.4
NCUC48C	1000	0.07	0.09
	1200	0.1	0.12
	1400	0.13	0.16
	1600	0.16	0.2
	1800	0.2	0.24
NCUC49C	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
NCUC50C	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
NCUC60C	1400	0.15	0.19
	1600	0.19	0.23
	1800	0.24	0.28
	2000	0.29	0.34
	2200	0.33	0.4
NCUC60D	2400	0.39	0.46
	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
	2400	0.3	0.37

UNIT DIMENSIONS - IN. (MM) – CASED

36 (A/B/C) COILS



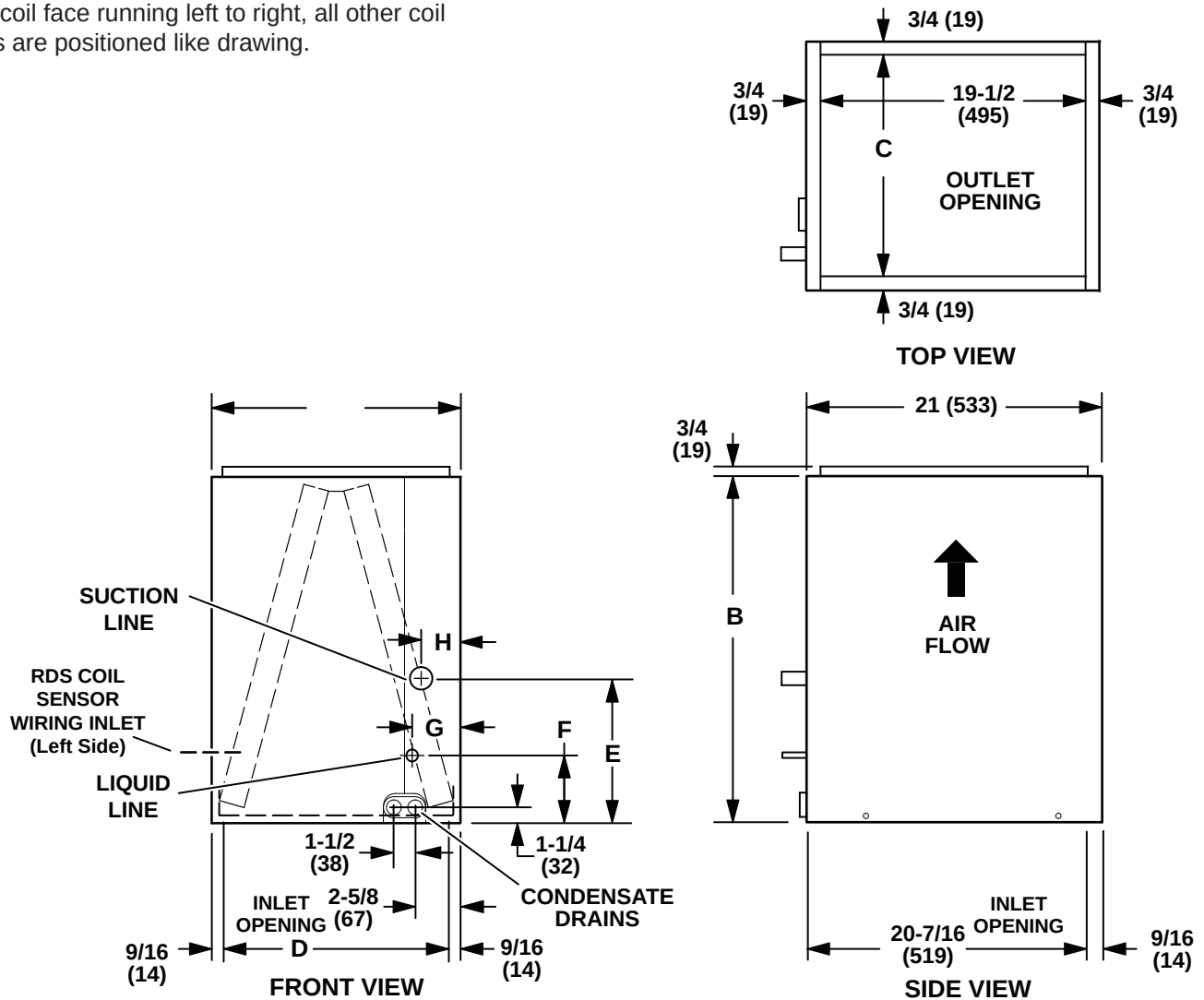
SIZE	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
36A	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
36B	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
36C	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2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

UNIT DIMENSIONS - IN. (MM) – CASED

NOTE- NCUC60D coil is positioned in cabinet with coil face running left to right, all other coil sizes are positioned like drawing.

24(A/B), 30(A/B), 48(B/C), 50C AND 60D COILS

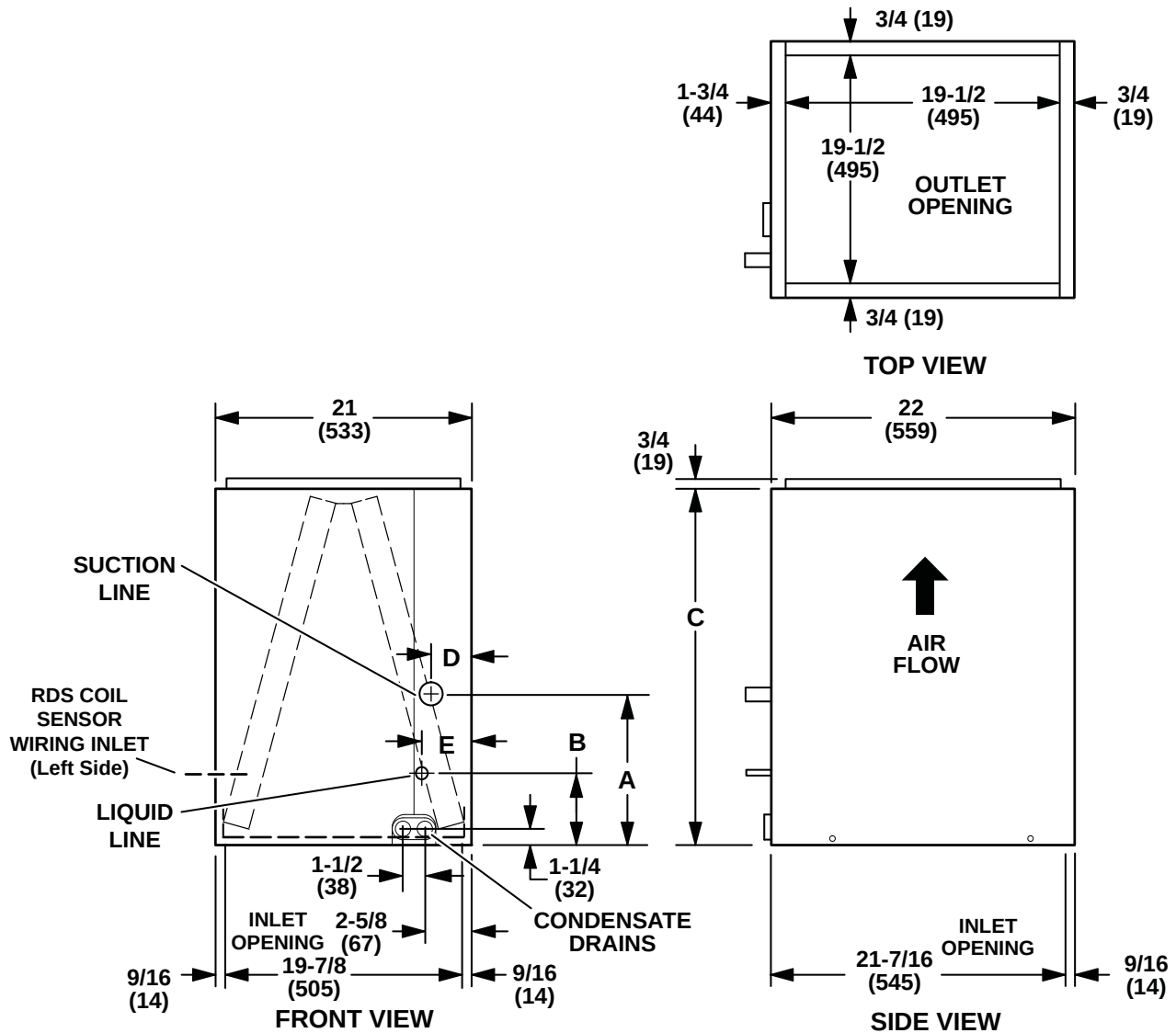
(NOTE - See next page for 49C and 60C Coils)



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
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
50C	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

UNIT DIMENSIONS - IN. (MM) – CASED

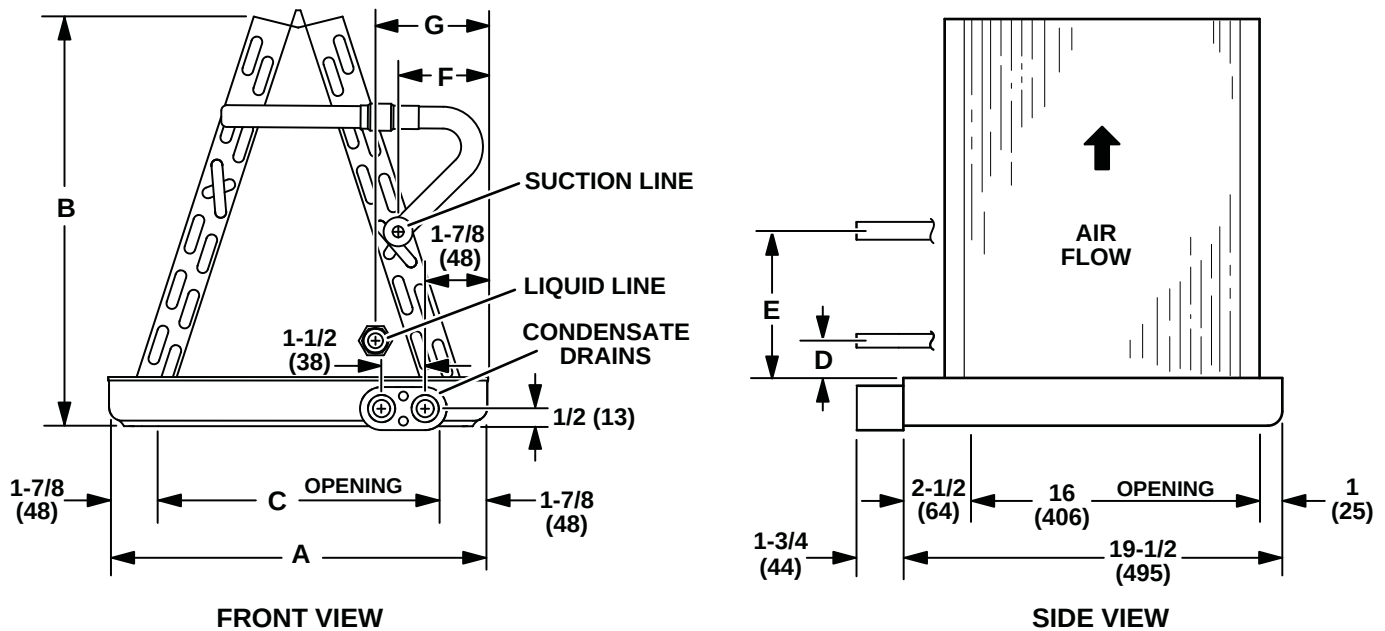
49C AND 60C COILS



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	90	31-1/2	800	2-3/8	60	2-5/8	66

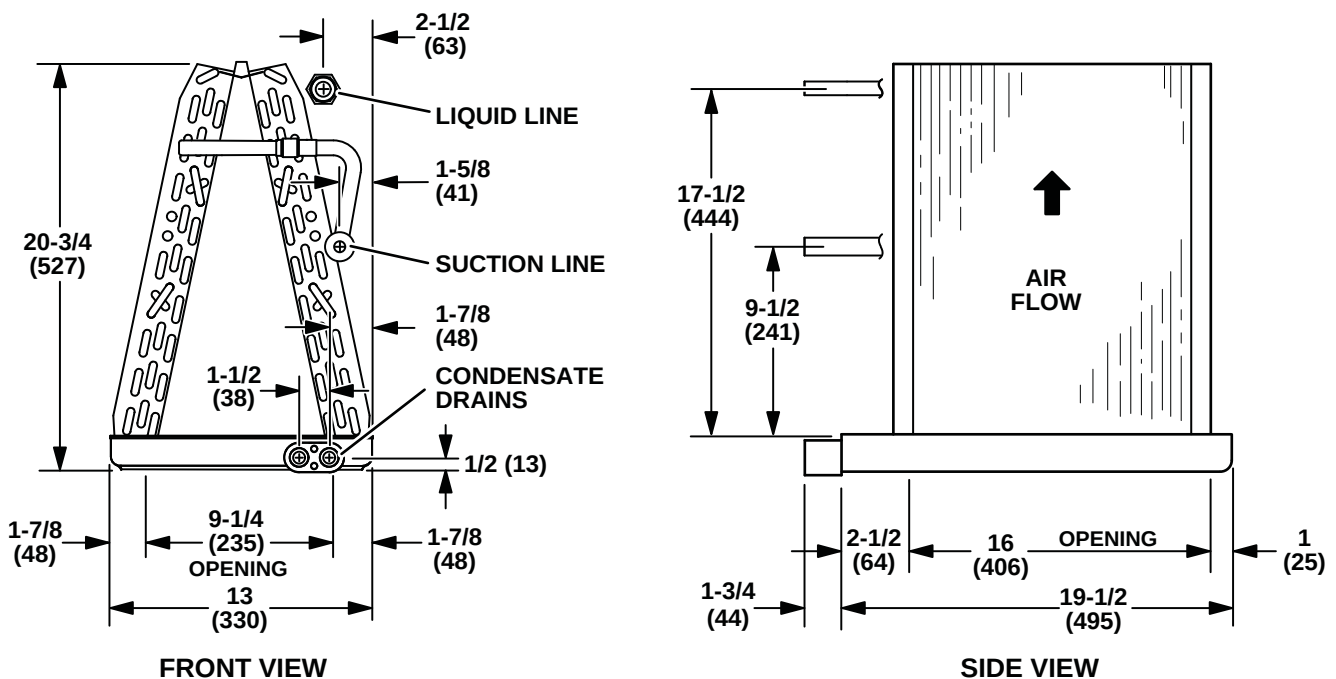
UNIT DIMENSIONS - IN. (MM) – UNCASED

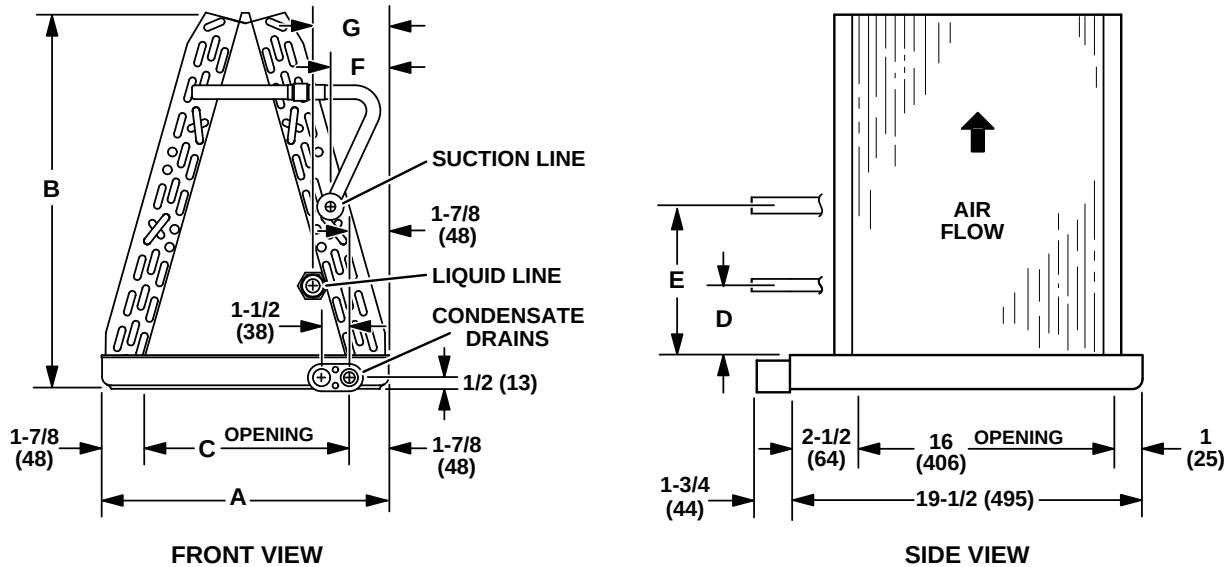
24(A/B) COILS



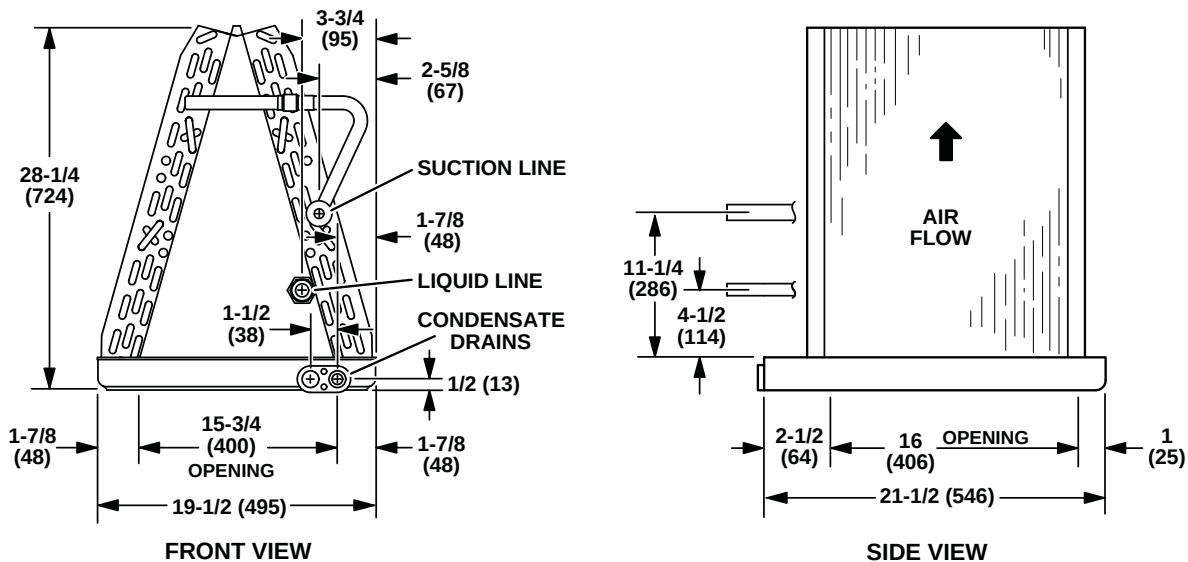
SIZE	A		B		C		D		E		F		G	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24A	13	330	16-3/8	416	9-1/4	235	2-7/8	73	7-5/8	194	3-1/8	79	3-3/4	95
24B	15-1/2	394	16-3/8	416	11-3/4	298	2-1/4	57	7-1/2	190	3-1/8	79	4	102

30A Coils



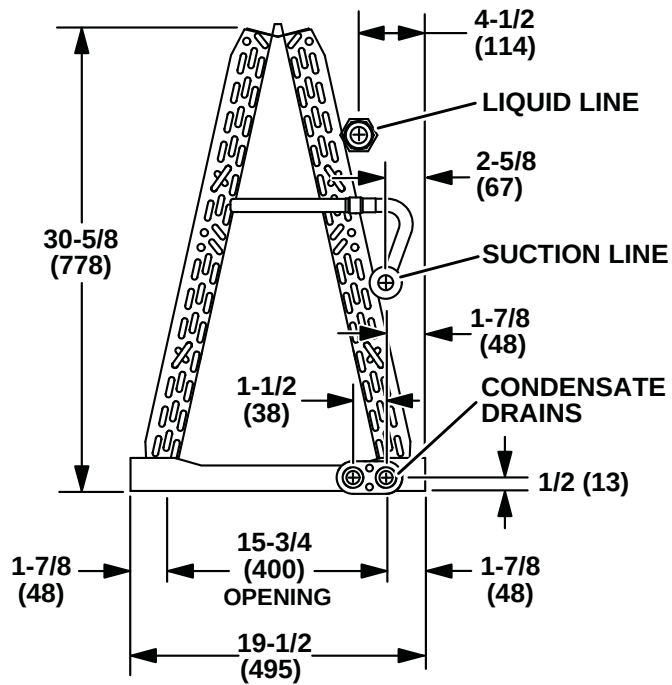
UNIT DIMENSIONS - IN. (MM) – UNCASED**30B, 36(A/B), 48(B/C) Coils**

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
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
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

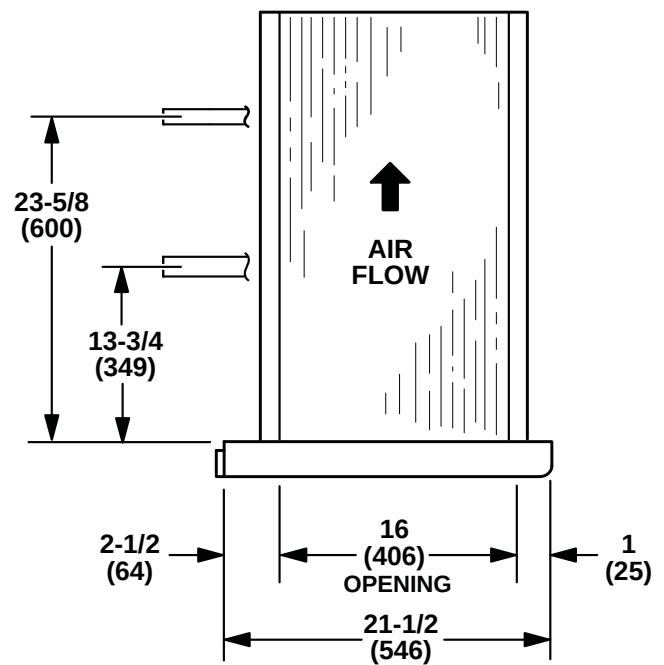
49C COILS

UNIT DIMENSIONS - IN. (MM) – UNCASED

60C Coils

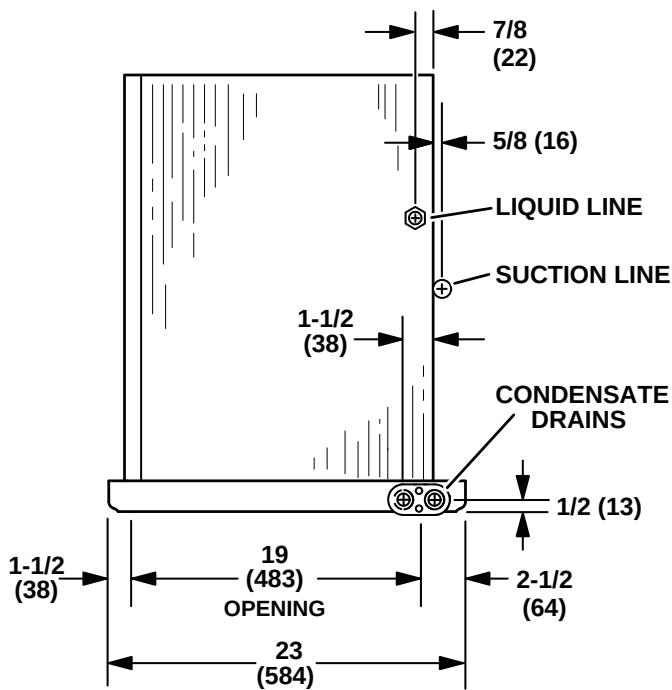


FRONT VIEW

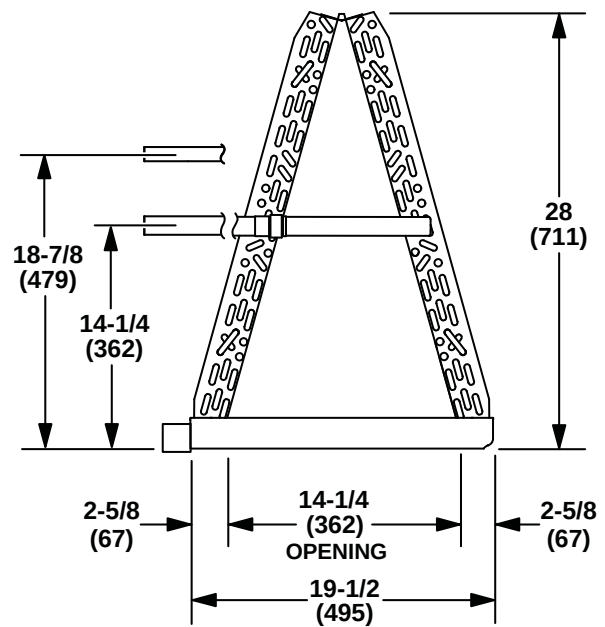


SIDE VIEW

60D COILS



FRONT VIEW



SIDE VIEW



GE APPLIANCES

All specifications and illustrations subject
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