



REAL

SUBMITTAL DATA - FURNACE/COIL
VPC048H4M-3P - ML296UH090XV48C / CX35-48C+TDR
Single Zone Lennox REAL Heat Pump

Job: _____
Location: _____
Schedule No.: _____
System Designation: _____

Engineer: _____
Architect: _____
Location: _____
Date: _____
For: Approval | Review | Construction

FEATURES

Outdoor Unit: VPC048H4M-3P



- Variable-capacity outdoor unit
- Reuse existing line sets
- Sound levels as low as 40 dBA
- Controls versatility

Indoor Unit: ML296UH090XV48C - CX35-48C+TDR



- Lennox Duralok Plus Heat Exchanger
- Variable Speed Direct Drive Blower
- Lennox designed upflow cased indoor coils

PIPING

Length and Maximum Height Difference

Maximum Pipe Length - Actual Length ft. (m)	164 (50)
Maximum Pipe Length - Equivalent Length ft. (m)	180 (55)
Maximum Height Difference ft. (m)	98 (30)

PRODUCT WARRANTY

Compressor – Ten year limited warranty*
All other covered components - Ten year limited warranty*

*Applicable to Lennox REAL products only and require product registration

OPTIONAL ACCESSORIES

M30 Smart Wi-Fi Thermostat (15Z69)
E30 Smart Wi-Fi Thermostat (20A65)



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OUTDOOR SPECIFICATIONS

PERFORMANCE		
Cooling Capacity ¹ (Btu/h)	Nominal	47,000
	Rated ²	47,000
EER2		9.50
SEER2		16.0
Heating Capacity ¹ (Btu/h)		48,000
HSPF2		7.50
COP2 at 5°F (W/W)		1.80
Operating Range (°F)	Heating	-13°F to 86°F
	Cooling	5°F to 122°F

ELECTRICAL DATA	
Power Supply (Volts/Phase/Hertz)	208-230/1/60
Minimum Circuit Ampacity (A)	35
Maximum Overcurrent Protection (A)	40
Compressor RLA (A)	26.4
Number of Compressors	1
Outdoor Fan Power Output (W)	(2) 90 + 90
Outdoor Fan FLA (A)	(2) 0.9 + 0.88

INDOOR SPECIFICATIONS

Gas	Model No.	ML296UH090XV48C
Heating Performance		
	¹ AFUE	96%
High Fire	Input - Btuh	88,000
	Output - Btuh	85,000
	Temperature rise range - °F	45 - 75
	Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane	3.5 / 10.0
Low Fire	Input - Btuh	57,000
	Output - Btuh	55,000
	Temperature rise range - °F	30 - 60
	Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane	1.7 / 4.5
High static - in. w.g.	Heating	0.8
	Cooling	1.0
Connections in.	Intake / Exhaust Pipe (PVC)	2 / 2
	Gas pipe size IPS	1/2
	Condensate Drain Trap (PVC pipe) - i.d.	3/4
	with furnished 90° street elbow	3/4 slip x 3/4 Mipt
	with field supplied (PVC coupling) - o.d.	3/4 slip x 3/4 MPT
Indoor Blower	Wheel nominal diameter x width - in.	11 x 11
	Motor output - hp	3/4
	Tons of add-on cooling	2.5 - 4
	Air Volume Range - cfm	680- 1770
Electrical Data	Voltage	120 V - 60 Hz - 1 Ph
	Blower motor full load amps	10.1
	Maximum overcurrent protection	15
Shipping Data	lbs. - 1 package	163

GENERAL DATA	
Connection Ratio	50% to 130%
Maximum Number of Indoor Units	9
Sound Pressure Level (dBA) Heating - High/Low	62/44
Sound Pressure Level (dBA) Cooling - High/Low	60/44
Refrigerant Type	R-410A
Factory Refrigerant Charge (each unit)	8 lbs. 10 oz.

DIMENSIONS		
Unit	Height	52-1/4
Dimensions (in)	Width	36
	Depth	13-1/16
Shipping Weight (lb)		234
Net Weight (lb)		212

NOTES

- Cooling and Heating Capacity data is rated at the following conditions:
Cooling: 80°FDB / 67°FWB Indoor, 95°FDB Outdoor Heating: 70°FDB Indoor, 47°FDB / 43°FWB Outdoor
- Complies with AHRI 210/240 testing standards

General Data	Model No.	CX35-48C-6F
Nominal size - Tons		3.5/4
Line Connections in.	Suction / vapor o.d. - sweat	7/8
	Liquid o.d. - sweat	3/8
	Condensate drain (fpt)	(2) 3/4
Indoor Coil	Net face area sq. ft.	5.77
	Tube diameter - in.	3/8
	Number of rows	3
	Fins per inch	13
Matching Lennox Furnace Width		C
Coil & Furnace Cabinet Width - in.		21
Shipping Data - lbs.		60

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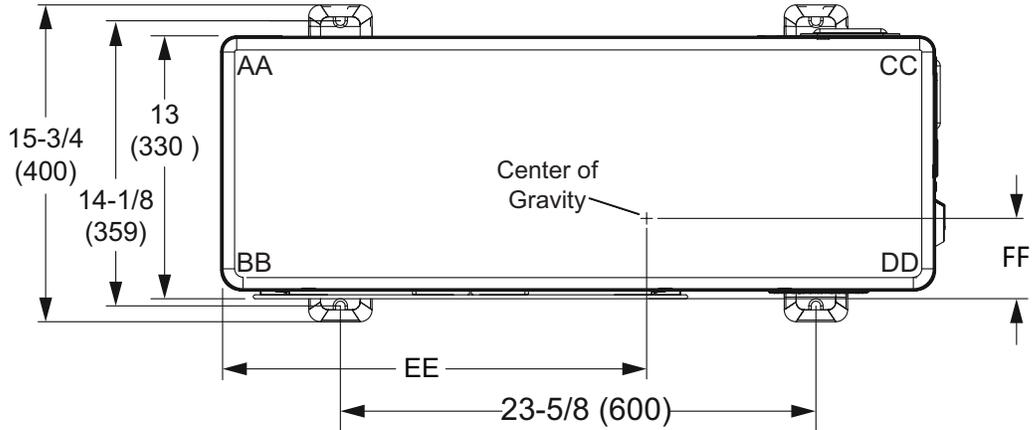
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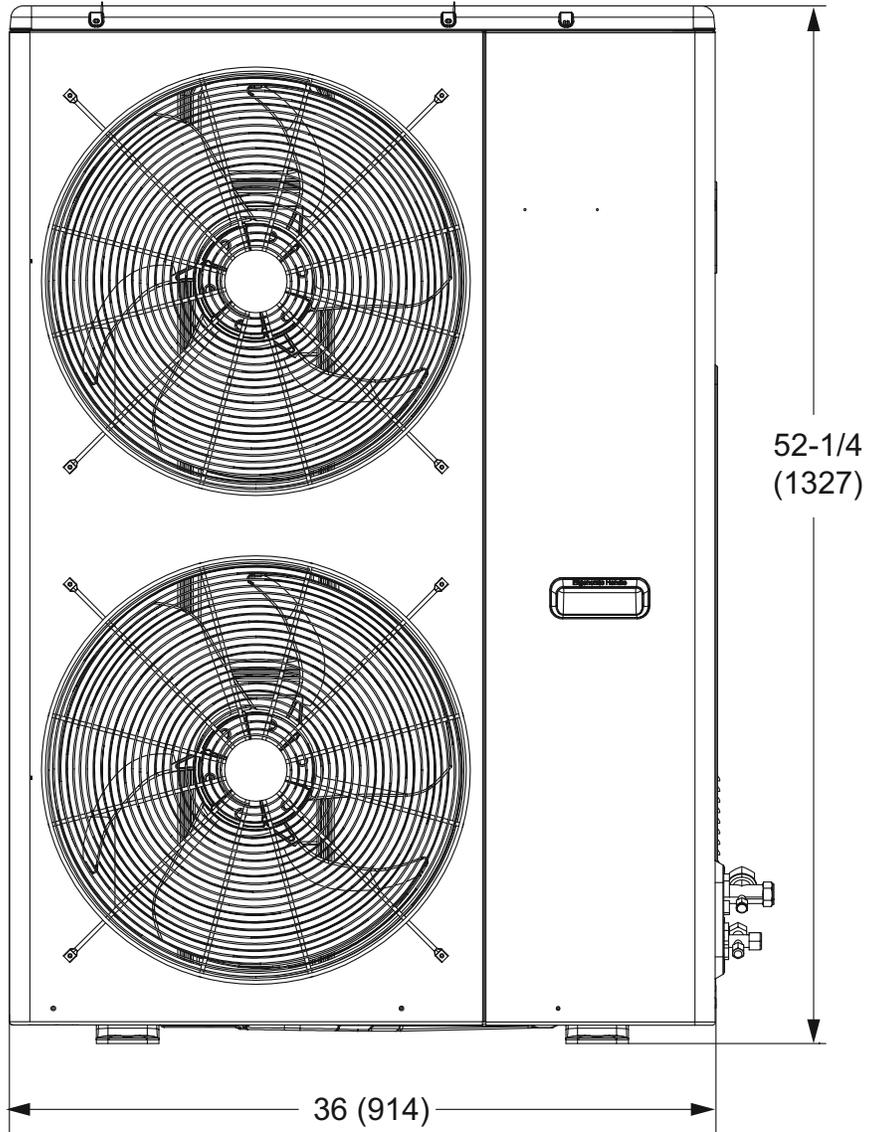
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DIMENSIONAL DRAWINGS - INCHES (MM)



TOP VIEW



FRONT VIEW

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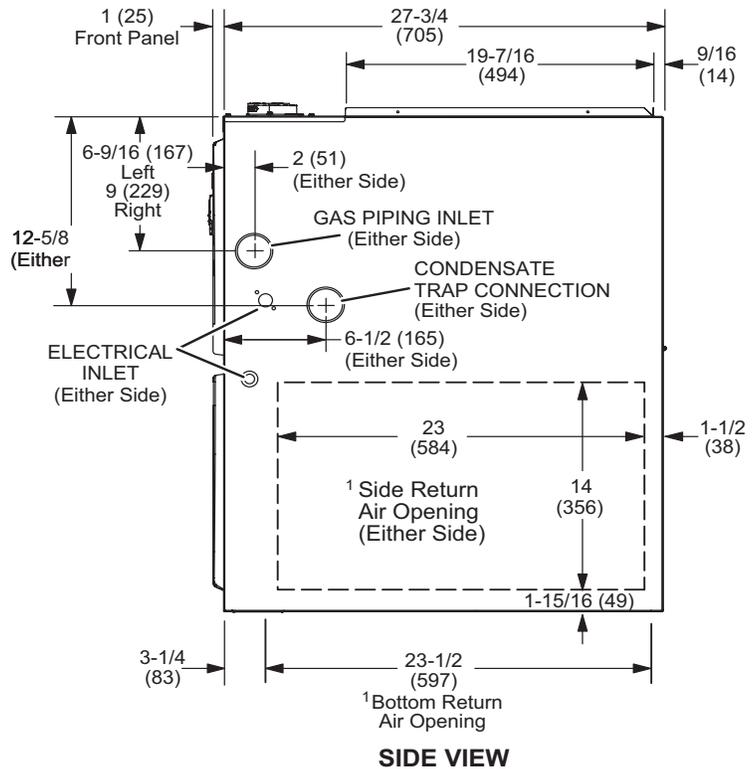
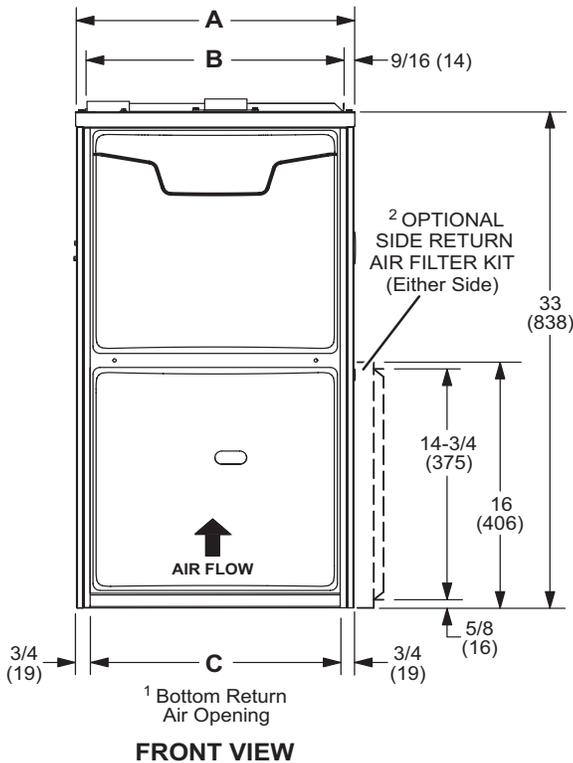
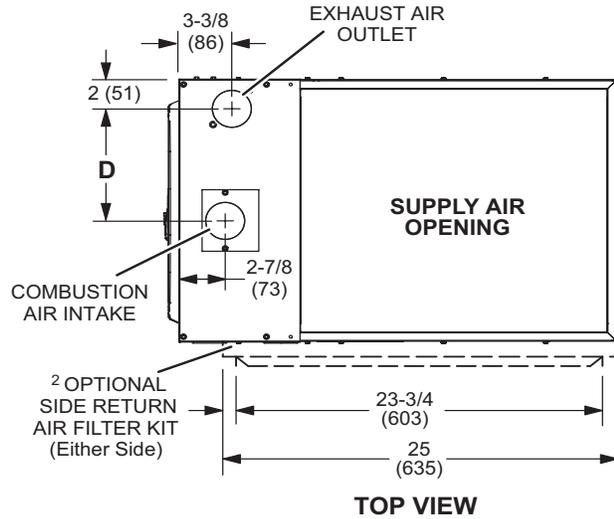
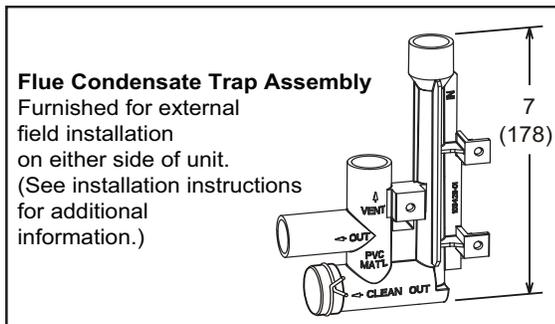
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DIMENSIONAL DRAWINGS - INCHES (MM)

¹ NOTE - 60C size units that require air volumes over 1800 cfm must have one of the following:

1. Single side return air and Optional Return Air Base with transition that must accommodate required 20 x 25 x 1 inch (508 x 635 x 25 mm) air filter to maintain proper velocity.
 2. Bottom return air
 3. Return air from both side
 4. Bottom and one side return
- See Blower Performance Tables for additional information.

² Optional Side Return Air Filter Kit is not for use with the Optional Return Air Base.



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML296UH045XV36B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML296UH070XV36B								
ML296UH090XV48C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML296UH110XV60C								

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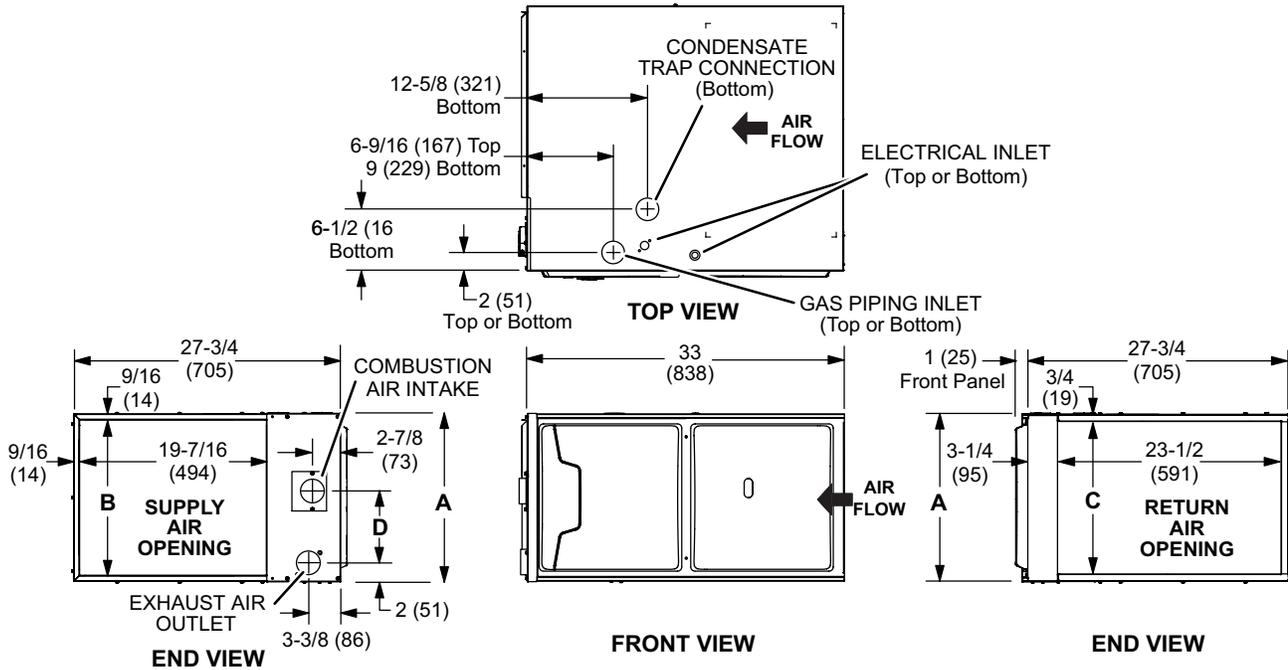


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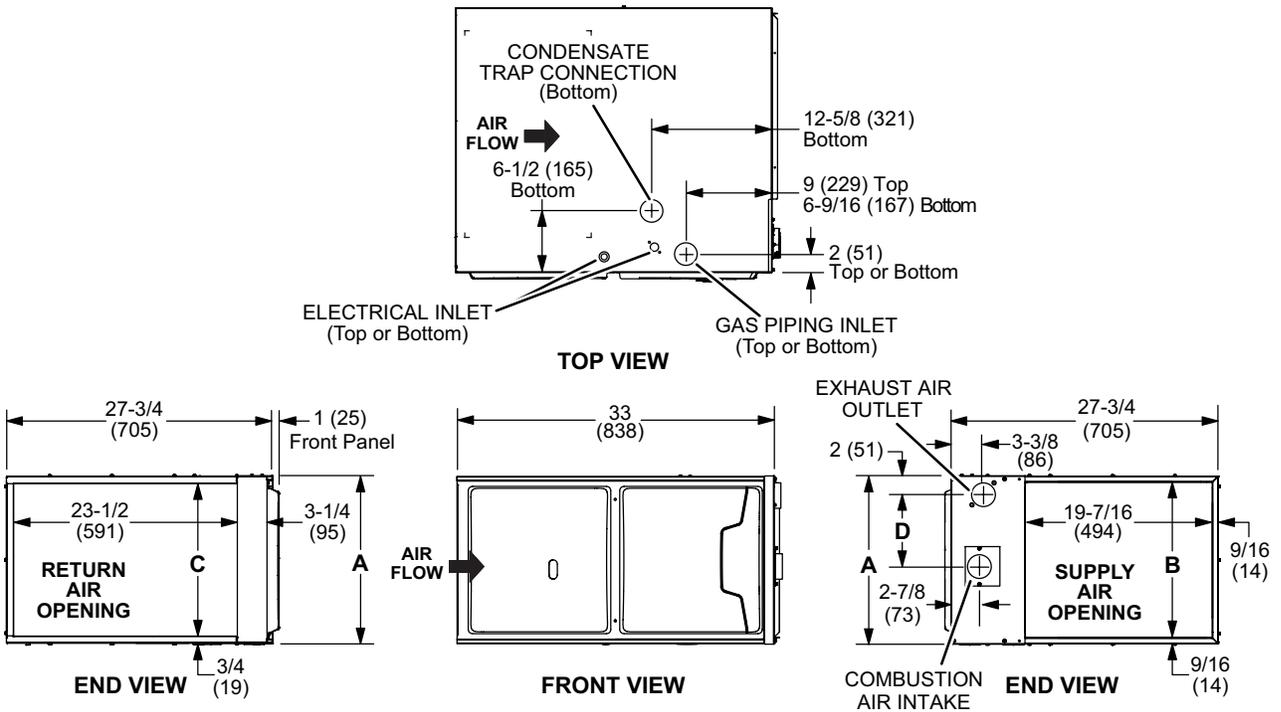
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DIMENSIONAL DRAWINGS - INCHES (MM)

LEFT-HAND AIR DISCHARGE



RIGHT-HAND AIR DISCHARGE



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML296UH045XV36B ML296UH070XV36B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML296UH090XV48C ML296UH110XV60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238

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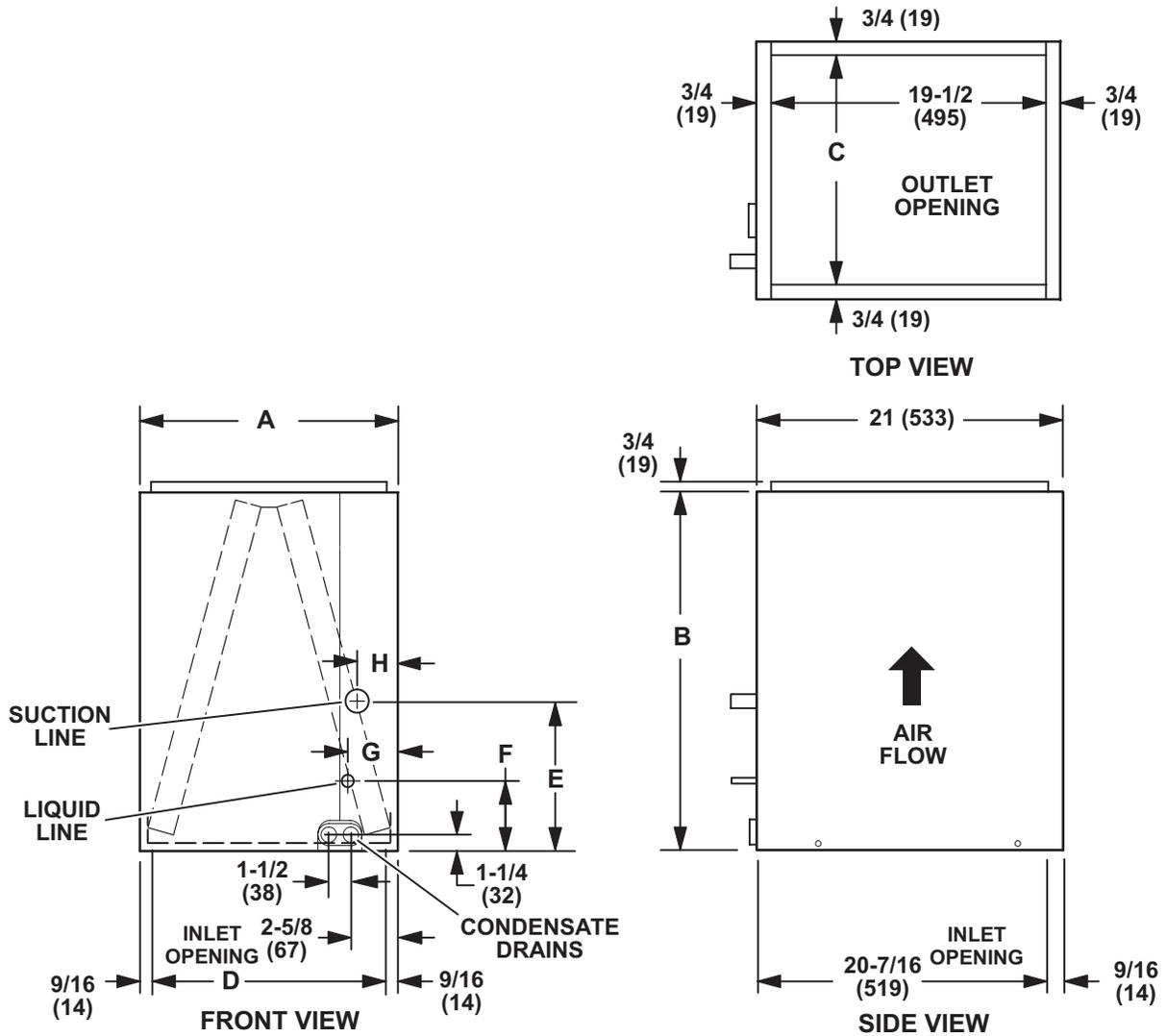


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DIMENSIONAL DRAWINGS - INCHES (MM)

CX35-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm								
CX35-18/24A-6F	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
CX35-18/24B-6F	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
CX35-30/36A-6F	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
CX35-30/36B-6F	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
CX35-30/36C-6F	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
CX35-36A-6F	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
CX35-36B-6F	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

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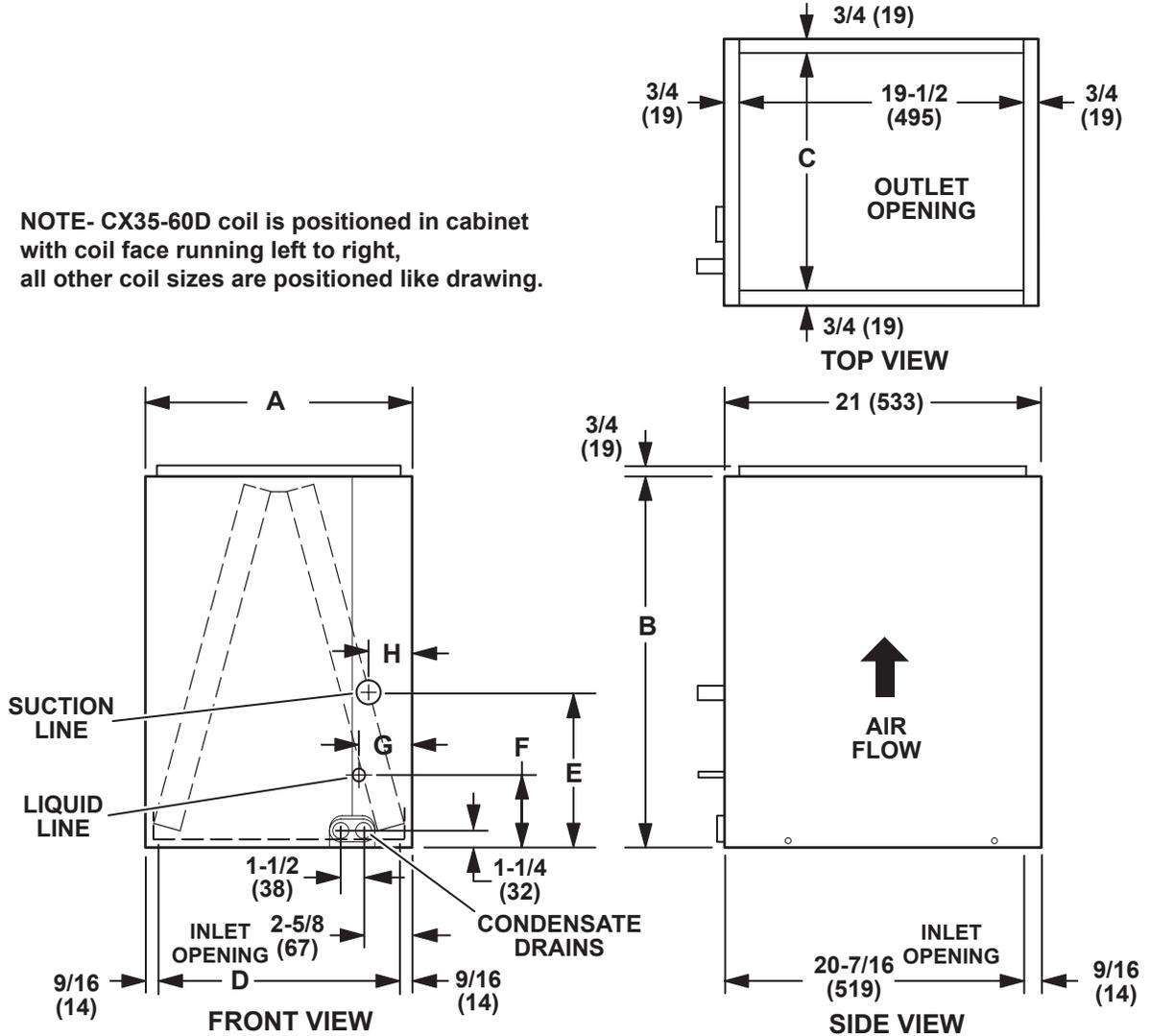


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DIMENSIONAL DRAWINGS - INCHES (MM)

CX35-24(A/B), -30(A/B), -48(B/C), -50/60C and -60D Coils

NOTE- CX35-60D coil is positioned in cabinet with coil face running left to right, all other coil sizes are positioned like drawing.



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm								
CX35-24A-6F	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
CX35-24B-6F	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
CX35-30A-6F	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
CX35-30B-6F	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
CX35-48B-6F	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
CX35-48C-6F	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
CX35-50/60C-6F	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
CX35-60D-6F	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

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