



**REAL**

**SUBMITTAL DATA - FURNACE/COIL**  
**VPC036H4M-3PD - ML296UH070XV36B / CX35-36B+TDR**  
**Single Zone Lennox REAL Heat Pump**

Job: \_\_\_\_\_  
Location: \_\_\_\_\_  
Schedule No.: \_\_\_\_\_  
System Designation: \_\_\_\_\_

Engineer: \_\_\_\_\_  
Architect: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date: \_\_\_\_\_  
For: Approval | Review | Construction

**FEATURES**

**Outdoor Unit: VPC036H4M-3PD**



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

**Indoor Unit: ML296UH070XV36B - CX35-36B+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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**REAL****SUBMITTAL DATA - FURNACE/COIL****VPC036H4M-3PD - ML296UH070XV36B / CX35-36B+TDR****Single Zone Lennox REAL Heat Pump****OUTDOOR SPECIFICATIONS**

PERFORMANCE		
Cooling Capacity <sup>1</sup> (Btu/h)	Nominal	36,000
	Rated <sup>2</sup>	36,000
EER2		10.5
SEER2		15.4
Heating Capacity <sup>1</sup> (Btu/h)		18,000
HSPF2		7.50
COP2 at 5°F (W/W)		1.70
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)	15
Maximum Overcurrent Protection (A)	25
Compressor RLA (A)	10.6
Number of Compressors	1
Outdoor Fan Power Output (W)	190
Outdoor Fan FLA (A)	1.2

GENERAL DATA		
Connection Ratio		65% to 130%
Maximum Number of Indoor Units		3
Sound Pressure Level (dBA) Heating - High/Low		58/40
Sound Pressure Level (dBA) Cooling - High/Low		55/40
Refrigerant Type		R-410A
Factory Refrigerant Charge (each unit)		6 lbs. 13 oz.

DIMENSIONS		
Unit	Height	34-1/64
Dimensions (in)	Width	41
	Depth	20-5/8
Shipping Weight (lb)		192
Net Weight (lb)		170

**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

**INDOOR SPECIFICATIONS**

Gas	Model No.	ML296UH070XV36B
<b>Heating Performance</b>		
	<sup>1</sup> AFUE	96%
<b>High Fire</b>	Input - Btuh	66,000
	Output - Btuh	62,000
	Temperature rise range - °F	50 - 80
	Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane	3.5 / 10.0
<b>Low Fire</b>	Input - Btuh	43,000
	Output - Btuh	41,000
	Temperature rise range - °F	25 - 55
	Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane	1.7 / 4.5
<b>High static - in. w.g.</b>	Heating	0.8
	Cooling	1.0
<b>Connections in.</b>	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
<b>Indoor Blower</b>	Wheel nominal diameter x width - in.	10 x 9
	Motor output - hp	1/2
	Tons of add-on cooling	2 - 3
	Air Volume Range - cfm	500 - 1365
<b>Electrical Data</b>	Voltage	120 V - 60 Hz - 1 Ph
	Blower motor full load amps	7.7
	Maximum overcurrent protection	15
<b>Shipping Data</b>	lbs. - 1 package	138

General Data	Model No.	CX35-36B-6F
<b>Nominal size - Tons</b>		3
<b>Line</b>	Suction / vapor o.d. - sweat	3/4
<b>Connections in.</b>	Liquid o.d. - sweat	3/8
	Condensate drain (fpt)	(2) 3/4
<b>Indoor Coil</b>	Net face area sq. ft.	4.89
	Tube diameter - in.	3/8
	Number of rows	3
	Fins per inch	14
<b>Matching Lennox Furnace Width</b>		B
<b>Coil &amp; Furnace Cabinet Width - in.</b>		17-1/2
<b>Shipping Data - lbs.</b>		50

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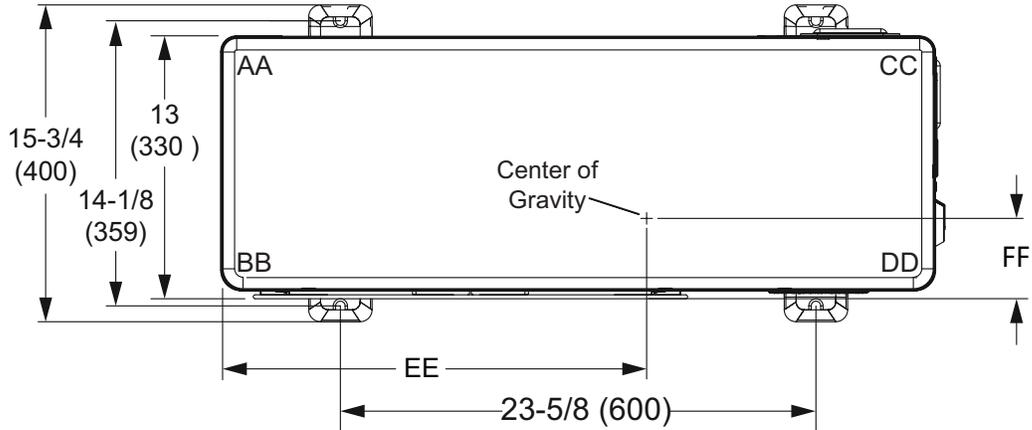


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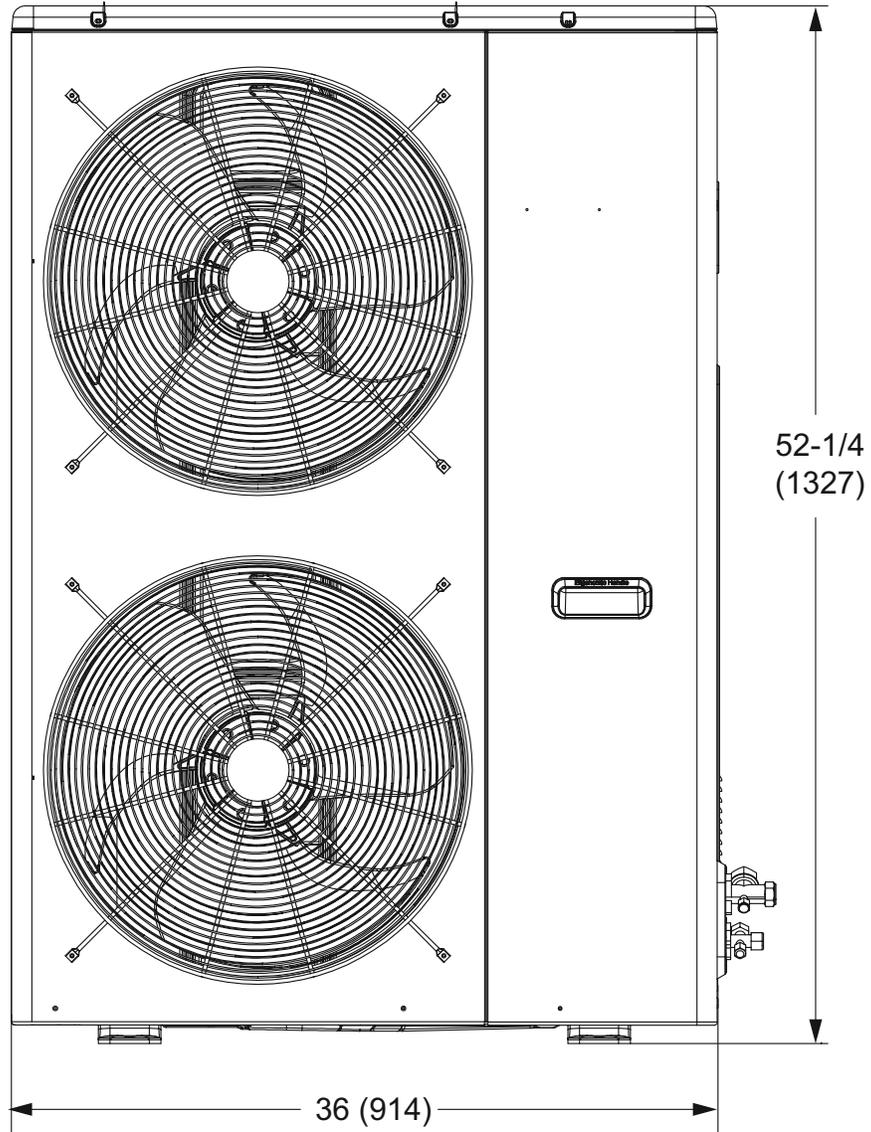
**VPC036H4M-3PD - ML296UH070XV36B / CX35-36B+TDR**

**Single Zone Lennox REAL Heat Pump**

**DIMENSIONAL DRAWINGS - INCHES (MM)**



**TOP VIEW**



**FRONT VIEW**

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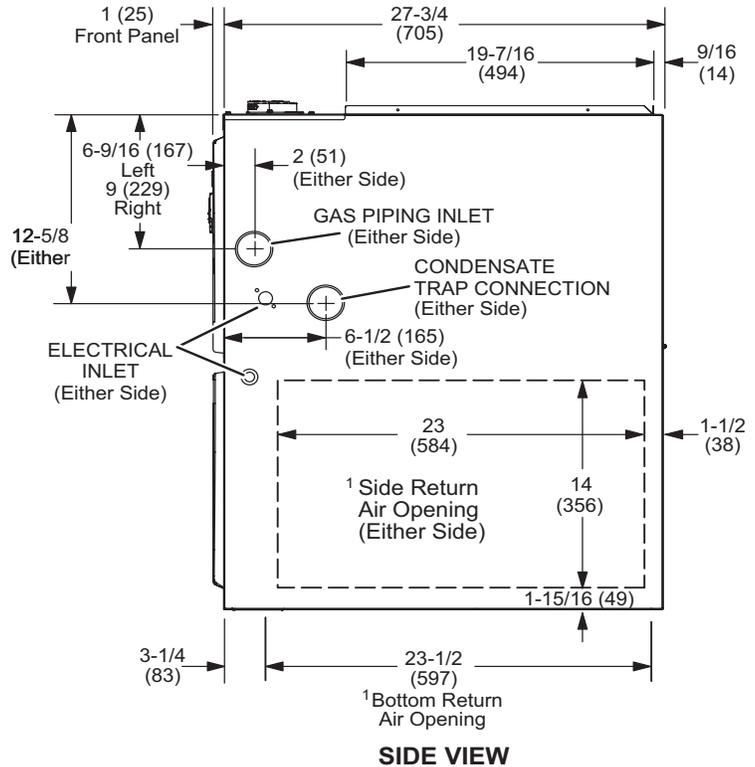
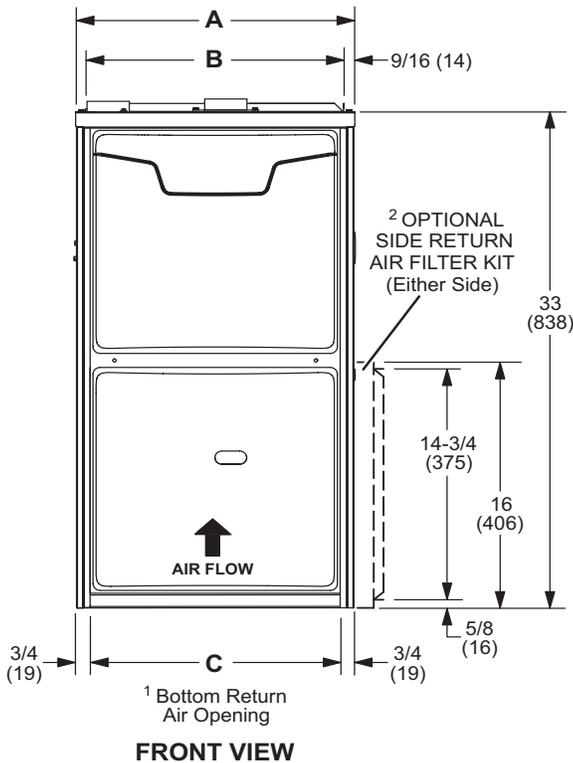
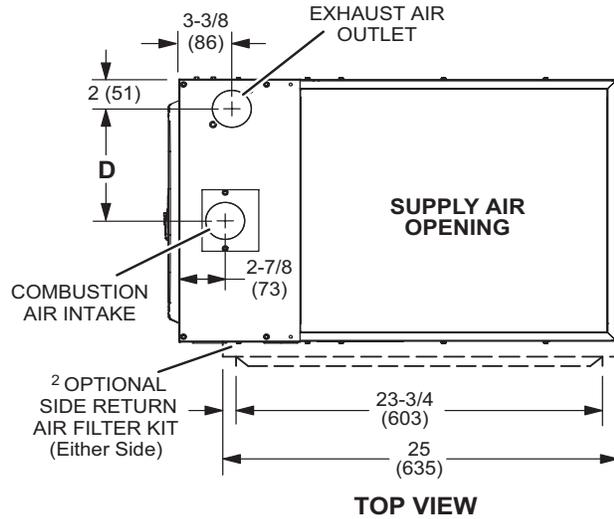
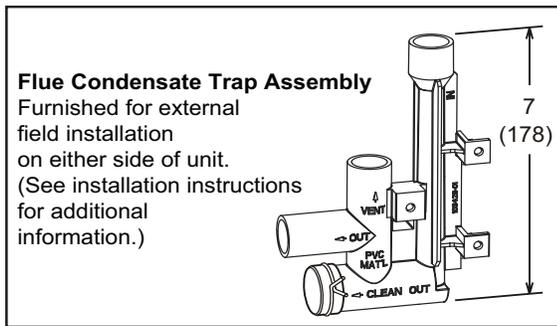
## Single Zone Lennox REAL Heat Pump

### DIMENSIONAL DRAWINGS - INCHES (MM)

<sup>1</sup> 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.

<sup>2</sup> 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 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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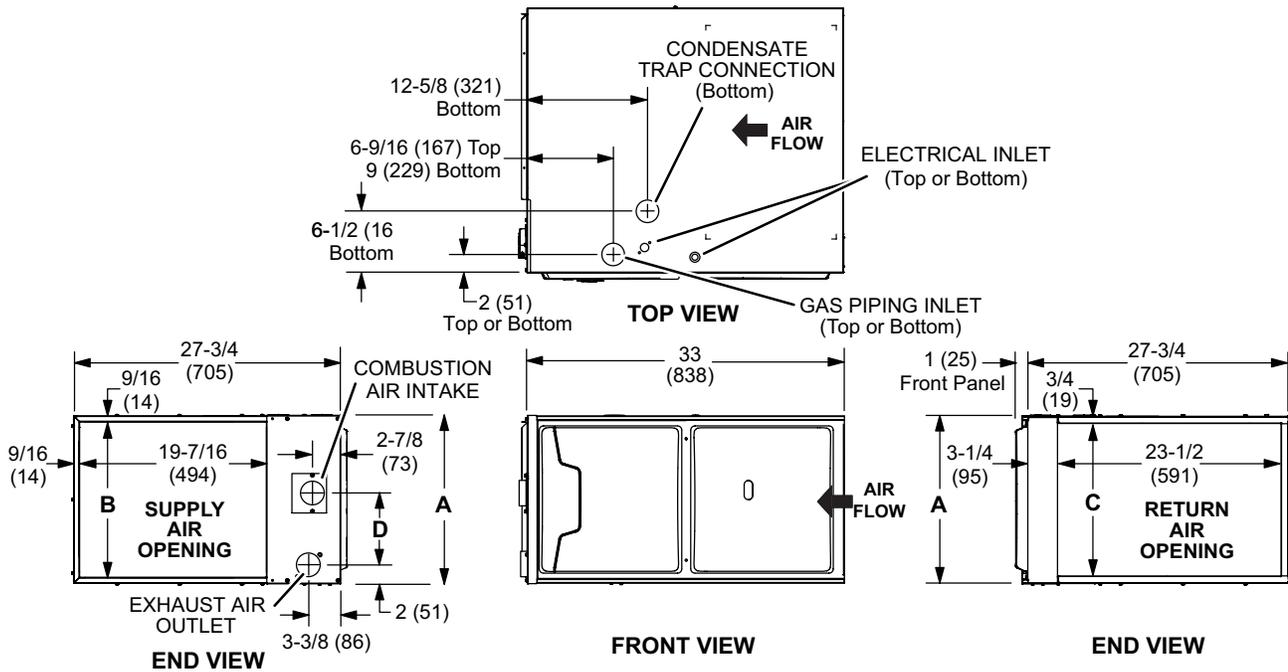


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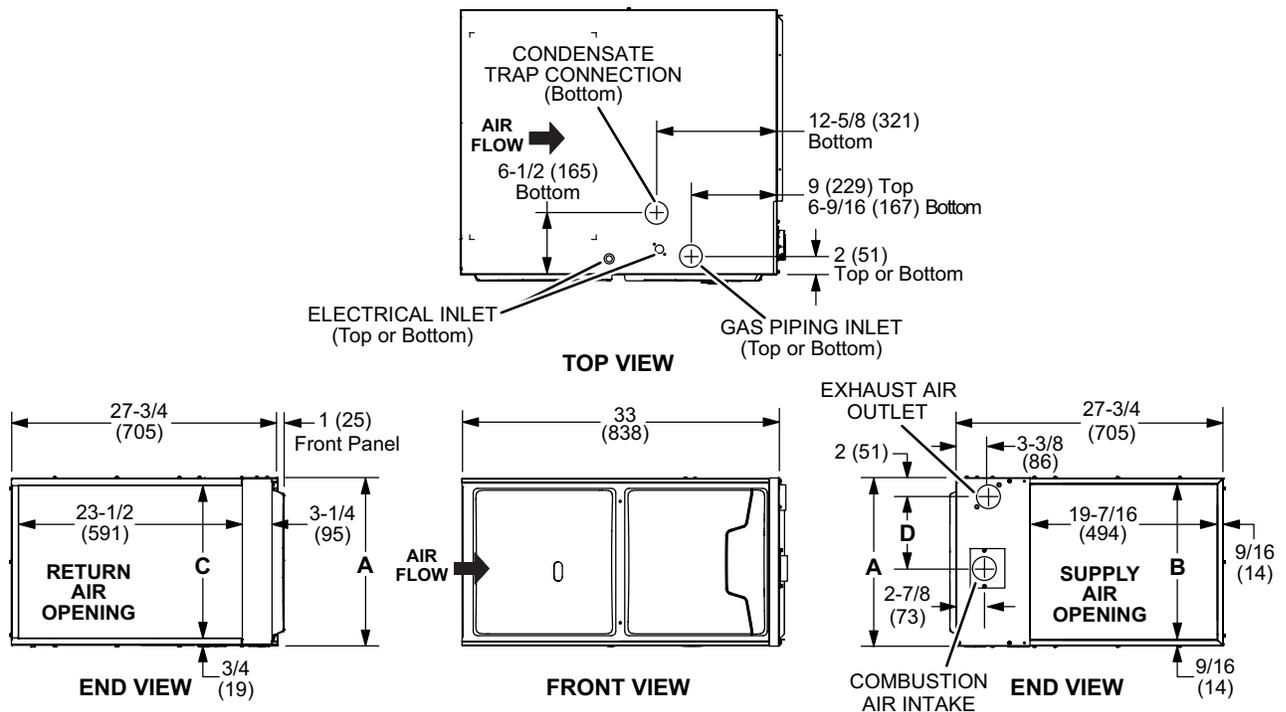
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**DIMENSIONAL DRAWINGS - INCHES (MM)**

**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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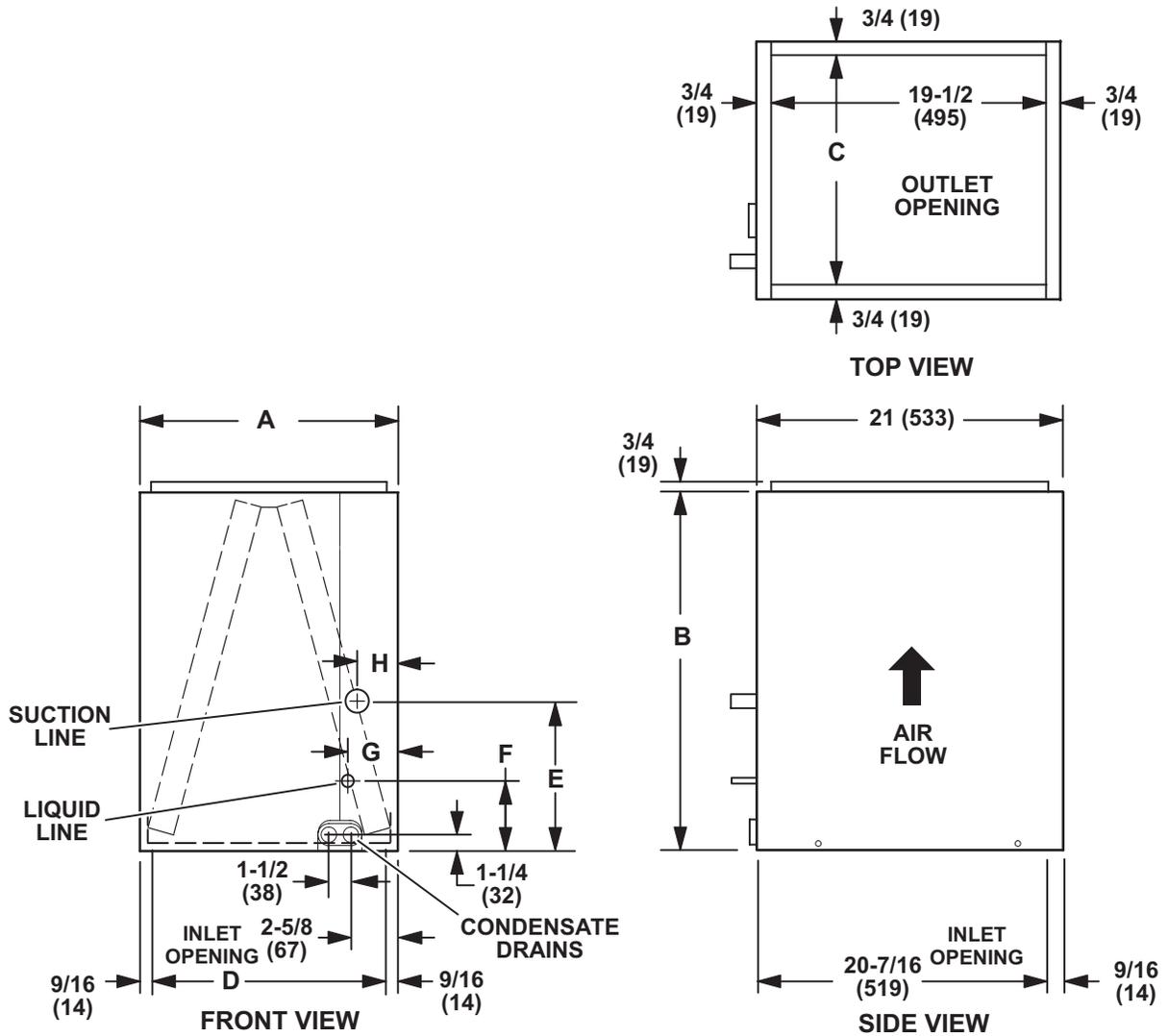
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**DIMENSIONAL DRAWINGS - INCHES (MM)**

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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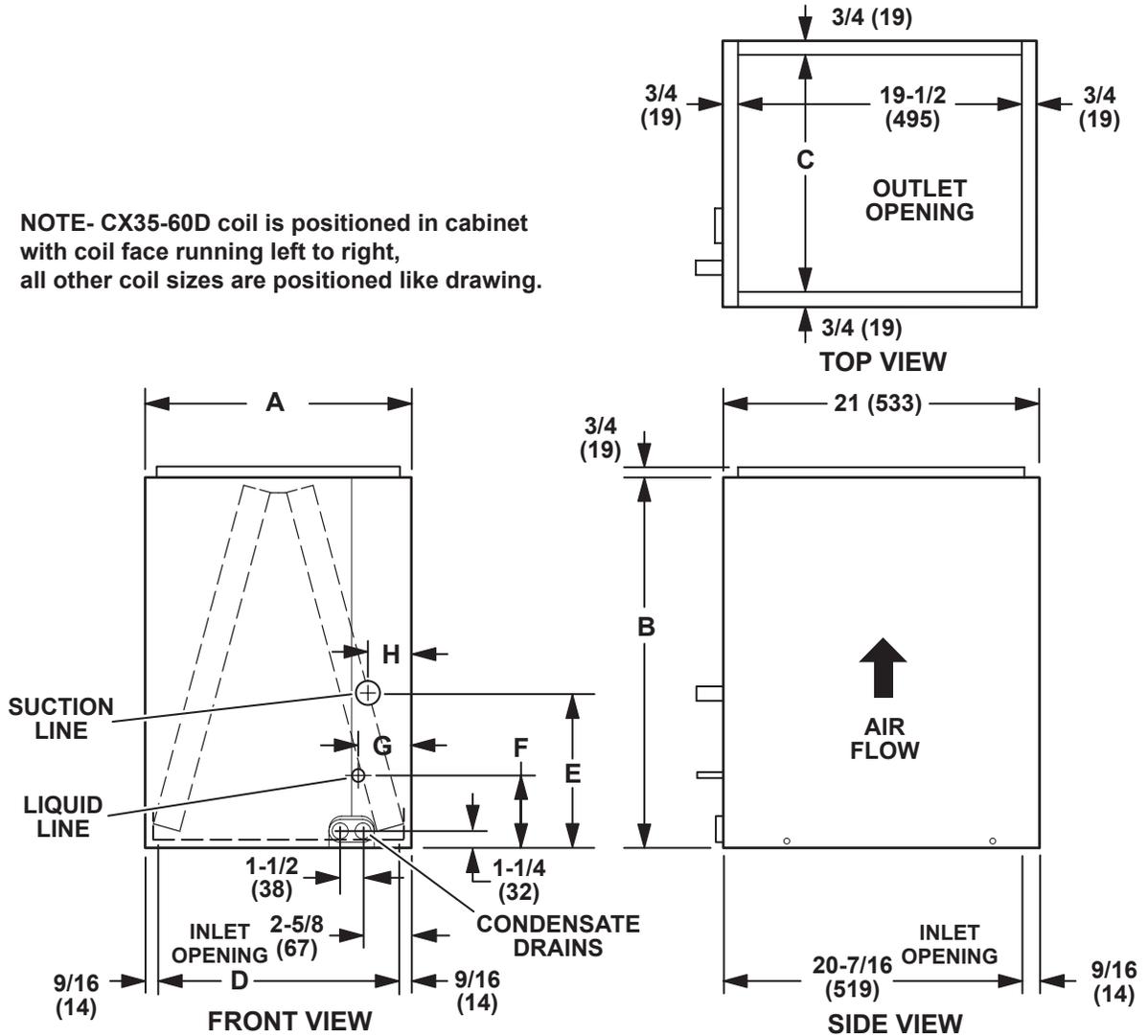


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**DIMENSIONAL DRAWINGS - INCHES (MM)**

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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