Technical Specifications

CONFORMS TO ANSI/UL STD. 1995, CSA/ANSI Z21.47
CERTIFIED TO CAN/CSA STD. C22.2 NO. 236,
CAN/CSA 2.3 AND CAN/CGA STD. 2.17

P-C SERIES

11.7SEER2

Condensing Gas Heat / Electric Cooling

Self contained, high efficiency Thru-The-Wall heating & cooling unit
Up to 96.8% AFUE
Input 15 000 - 50 000 BTU/h

FEATURES

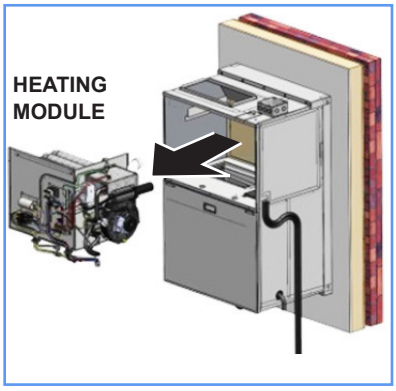


COMPATIBLE BOX SIZE

- Industry standard footprint for retrofit applications
- Appliance shell dimensions:
  43 1/8" High x 28" Wide x 32" Deep
- Wall Sleeve dimensions where penetrating exterior wall: 44 7/8" High x 28 7/8" Wide
- Standard TAUPE color

HEATING FEATURES

- Up to 96.8% AFUE, Condensing, Single Stage Gas Furnace
- Stainless steel heat exchanger
- Sealed burner tray – keeps cold external air from circulating in vestibule
- Clear front manifold condensate cover for easy inspection and service troubleshooting

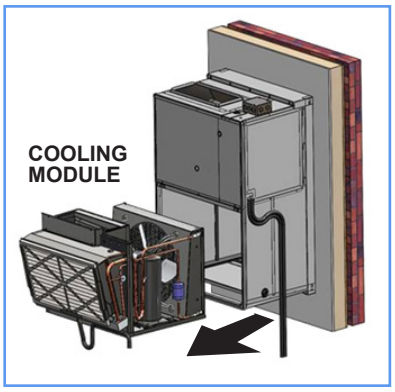


CIRCULATION BLOWER

- Dual Inlet Blower for higher flow rates / reduced air noise
- Endura Pro Multi-Speed Electronically Commutated Motor for increased electrical efficiency

COOLING FEATURES

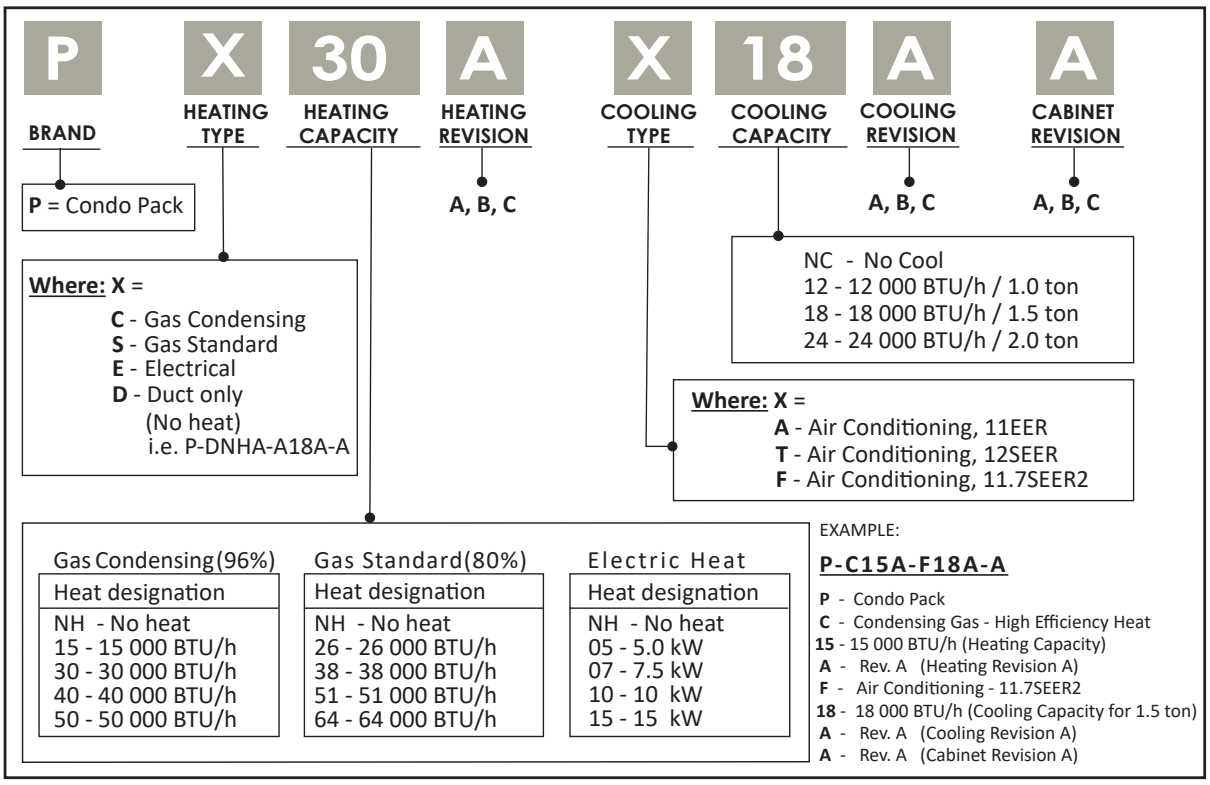
- Minimum 11.7SEER2 Efficiency
- R-410A Refrigerant System.
- All models installed with TXV, which ensures optimized efficiency.
- Micro-Channel Condenser and Evaporator Coils
- High Efficiency compressors
- One Piece motorized Condenser Fan design



SERVICE ADVANTAGES

- Indoor access to all parts & maintenance needs
- Innovative, dual slide-out chassis can be partially or fully removed for efficient servicing (***the "FXXA" cooling chassis will only fit "FXXA" model cabinets***).
- With spare modules, building management can perform quick swap outs, maintaining indoor conditions in the apartment/condo, while troubleshooting non functioning units off line
- Can perform direct replacement of the individual modules at the end of their service life instead of replacement of the complete appliance
- All control harnesses are separated with modular quick disconnects so module swap outs do not require time consuming rewiring

NOMENCLATURE



SPECIFICATIONS

PERFORMANCE

HEATING	P-C15A-F12A-A	P-C15A-F18A-A	P-C15A-F24A-A	P-C30A-F12A-A	P-C30A-F18A-A	P-C30A-F24A-A
AFUE	96.8%			93%		
Input BTU/h	15,0000			30,000		
Output BTU/h (AFUE)	14,500			28,000		
COOLING						
BTU/h	12,300	16,900	21,200	12,300	16,900	21,200
SEER2	11.70					
REF.	R410A					
WEIGHT (LB)	328	349		328	349	

HEATING	P-C40A-F12A-A	P-C40A-F18A-A	P-C40A-F24A-A	P-C50A-F12A-A	P-C50A-F18A-A	P-C50A-F24A-A
AFUE	91.7%			90.6%		
Input BTU/h	40,000			50,000		
Output BTU/h (AFUE)	37,000			45,300		
COOLING						
BTU/h	12,300	16,900	21,200	12,300	16,900	21,200
SEER2	11.70					
REF.	R410A					
WEIGHT (LB)	328	349		328	349	

AIR FLOW

-------- CFM AT EXTERNAL STATIC PRESSURE, INCHES WATER COLUMN --								
MODEL	**HEATING**	**SETTING**	**SPEED TAP #**	**0.1”**	**0.2”**	**0.3”**	**0.4”**	**0.5”**
C15A	15 k/BTU/H	FACTORY	5	440	390	330	295	240
		HIGH	4*	570	530	495	470	415
C30A	30 k/BTU/h	FACTORY	4*					
		HIGH	3	770	745	730	705	695
C40A	40 k/BTU/h	FACTORY	3					
		HIGH	2	925	910	885	870	840
C50A	50 k/BTU/h	FACTORY	2					
		HIGH	N/A	N/A				
MODEL	**COOLING**	**SETTING**	**SPEED TAP #**	**0.1”**	**0.2”**	**0.3”**	**0.4”**	**0.5”**
F12A	1.0 ton	FACTORY	1	495	470	410	385	355
		HIGH	3	770	745	730	705	695
F18A	1.5 ton	FACTORY	1	640	620	600	560	525
		HIGH	2	925	910	885	870	840
F24A	2.0 ton	FACTORY	1	825	805	780	760	735
		HIGH	(1 & 4)*	965	945	925	905	885

* ***IMPORTANT:*** When using the F24A high tap, connect the blue wire to both taps (1 & 4) with the help of the jumper provided with the unit wiring. Additionally, do not use tap 4 for heating blower speed while using F24A high speed tap, as it will cause the unit to malfunction.

ELECTRICAL

DESCRIPTION	1.0 TON (F12A)	1.5 TON (F18A)	2.0 TON (F24A)
Compressor Tyle	Rotary		
Compressor Rated Amps	5.3	7.72	9.9
Compressor LRA	28.5	39	46
MCA	10.2	14.2	18.1
Max Fuse/Breaker (A)	15	20	25
Indoor Fan FLA/HP/RPM	2.8 / 1/3 / 1050		4.0 / 1/2 / 1050
Condenser Fan FLA/HP/RPM	.79 / 1/4 / 1100	0.9 / 1/3 / 1120**	1.8 / 1/3 / 1380**
Combustion Fan FLA	1.25		
Unit Input Voltage - Frequency - Phase	208/230V-60Hz-1PH		

GAS CONTROLS AND ADDITIONAL DATA		
IGNITION SYSTEM	SPARK IGNITION	
GAS CONNECTION	1/2” NPT	
GAS & AC CONDENSATE HOSE SIZE (Supplied)	1/2” ID and 5/8” ID	5/8” ID

** 1.5 ton & 2.0 ton models have two speed condenser fan motors: Speed 1 is for 1.5 ton & Speed 2 is for 2.0 ton.

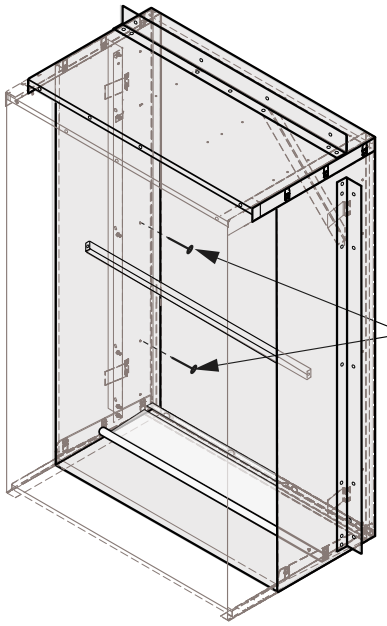
*All specifications and designs can change without notice to allow for on-going improvements. Images may not be exactly as shown. Consult with your owner’s manual for current information. Check all local and national building codes and gas regulations. Napoleon® is a registered trade mark of Wolf Steel Ltd.

WALL SLEEVE DIMENSIONS

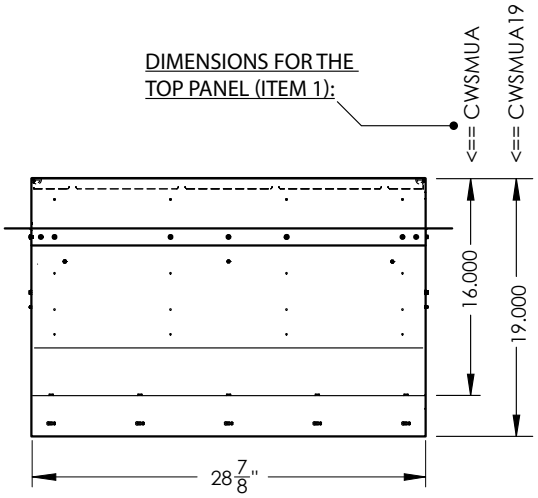
TWO DIFFERENT WALL SLEEVE MODELS ARE DEPICTED BELOW:

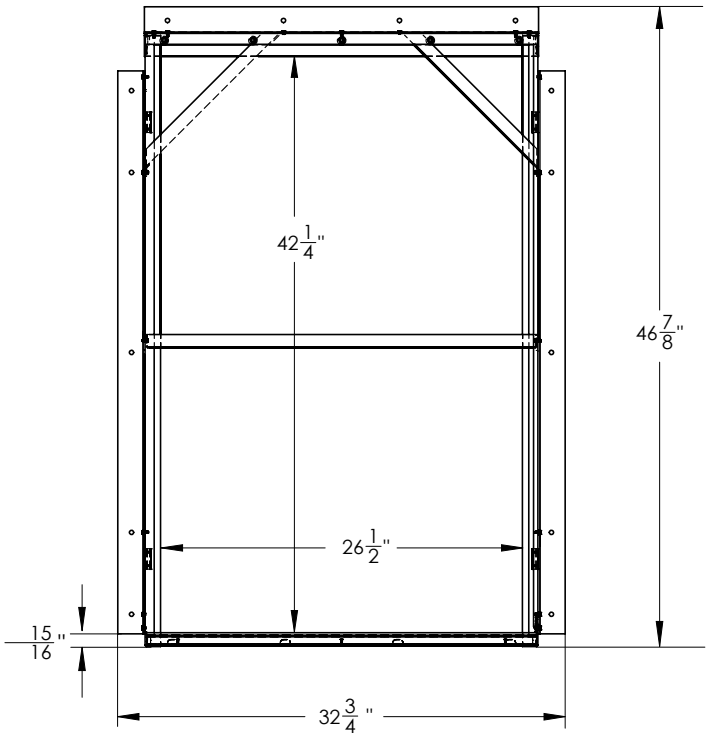
- **CWSMUA**
- **CWSMUA19**

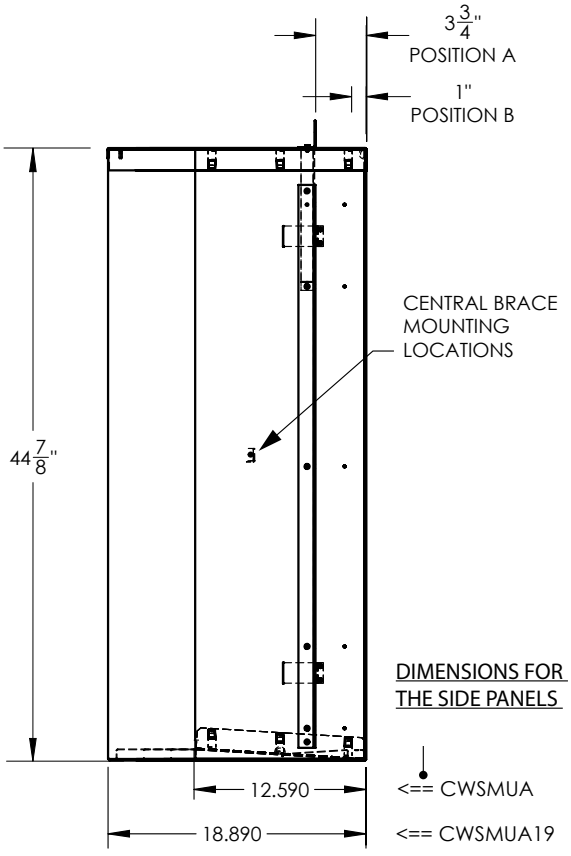
NOTE:
TO IMPROVE RIGIDITY AND REDUCTION IN VIBRATION WALL MOUNTING BRACKETS CAN BE USED TO AFFIX WALL SLEEVE TO BUILDING SUB STRUCTURE FROM INSIDE OR OUTSIDE OF THE BUILDING. ENGINEER/ARCHITECT TO CONSULT WITH CUSTOMER SOLUTIONS IF CLARIFICATION IS REQUIRED TO DETERMINE BRACKET LOCATION FOR SETTING THE DESIRED DEPTH OF WALL SLEEVE INTO WALL.



DIMENSIONS FOR THE TOP PANEL (ITEM 1):







DIMENSIONS FOR THE SIDE PANELS

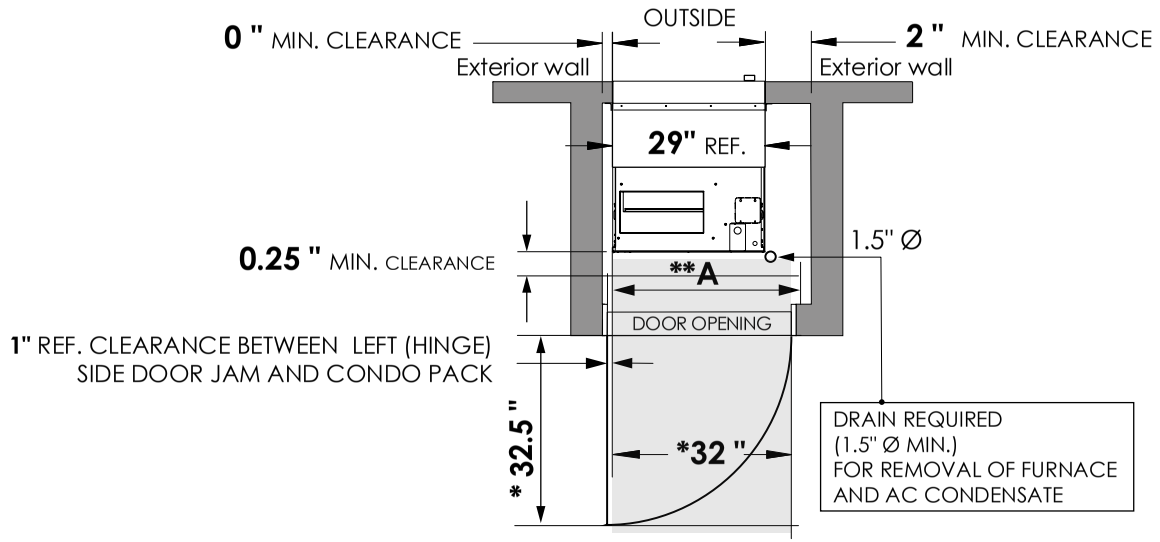
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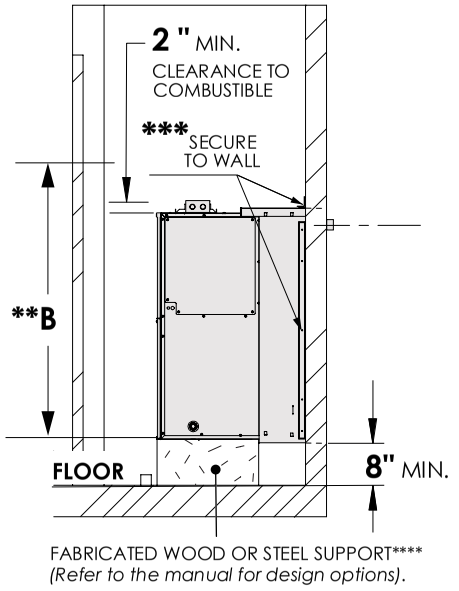
<== CWSMUA19

FIGURE 1

MINIMUM CLEARANCE

REQUIRED DUE TO UNIT'S DIMENSION & SAFETY STANDARD





NOTE

ADEQUATE SERVICE CLEARANCE MUST BE PROVIDED IN FRONT OF THE UNIT.

**** In certain jurisdictions, combustible material is not allowed to be exposed to return air. For such scenarios, refer to installation manual for alternate design options.

*** Engineer/Architect - to consult with customer solutions if clarification is required to determine bracket location for setting the desired depth of Wall Sleeve into wall.

** A clear and unobstructed passageway (dimension AxB) shall be provided to the unit, in accordance with the requirements of the local authorities having jurisdiction and with the National Fuel Gas Code, ANSI Z223.1 (latest edition) and the National Electrical Code in the United States or CAN/CGA-B149.1 & .2 and the Canadian Electrical Code CSA C22.1 Part 1 (latest edition) in Canada.

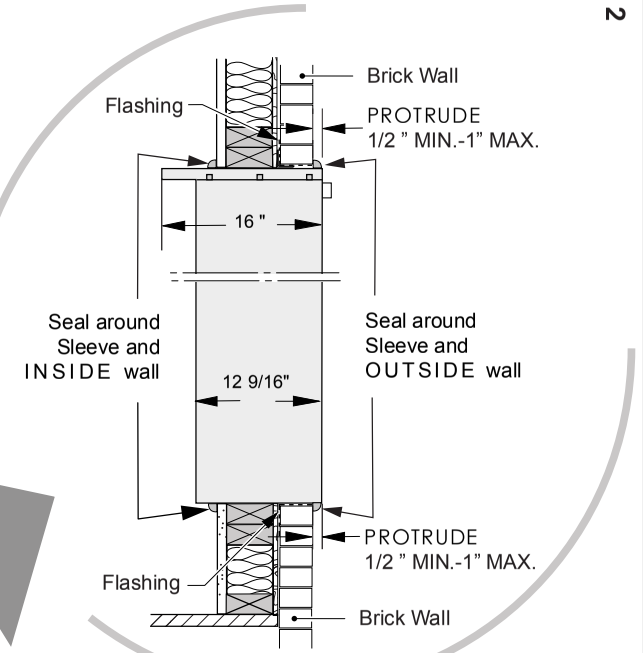
* The 32 " x 32.5 " unobstructed clearance is required in front of the unit for complete removal of heating and cooling module. Check local building codes for other applicable requirements.

IMPORTANT: Prior to constructing interior closet walls in close proximity to the wall sleeve, the sealing of the wall sleeve and cabinet should be completed. Sealing after the walls are constructed can be difficult. Poor sealing will result in cold air infiltration that will affect Condo Pack. Refer to section "*Sealing: Wall Sleeve and Condo Pack cabinet*".

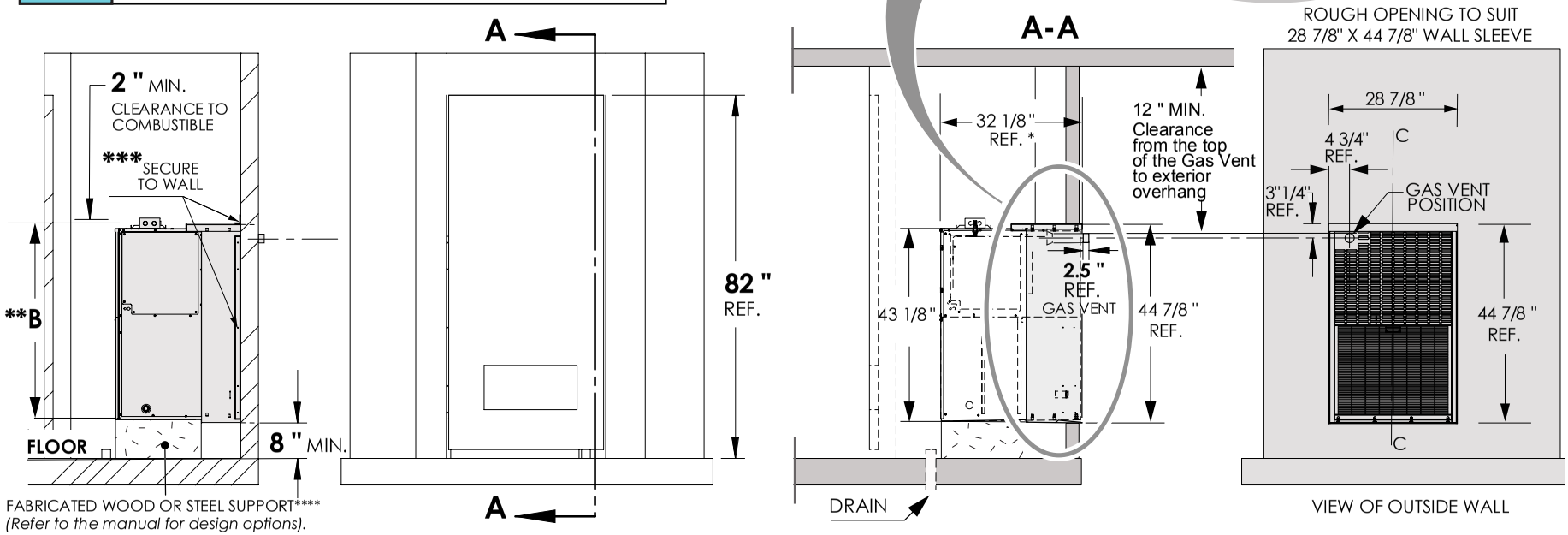
FIGURE 2

IMPORTANT:
MINIMUM REQUIRED VERTICAL CLEARANCE OF A VENT TERMINAL AND OVERHANGING STRUCTURE FROM THE TOP OF THE GAS VENT IS 12" (MORE THAN 12" IS RECOMMENDED). CHECK LOCAL BUILDING CODES FOR OTHER REQUIREMENTS.

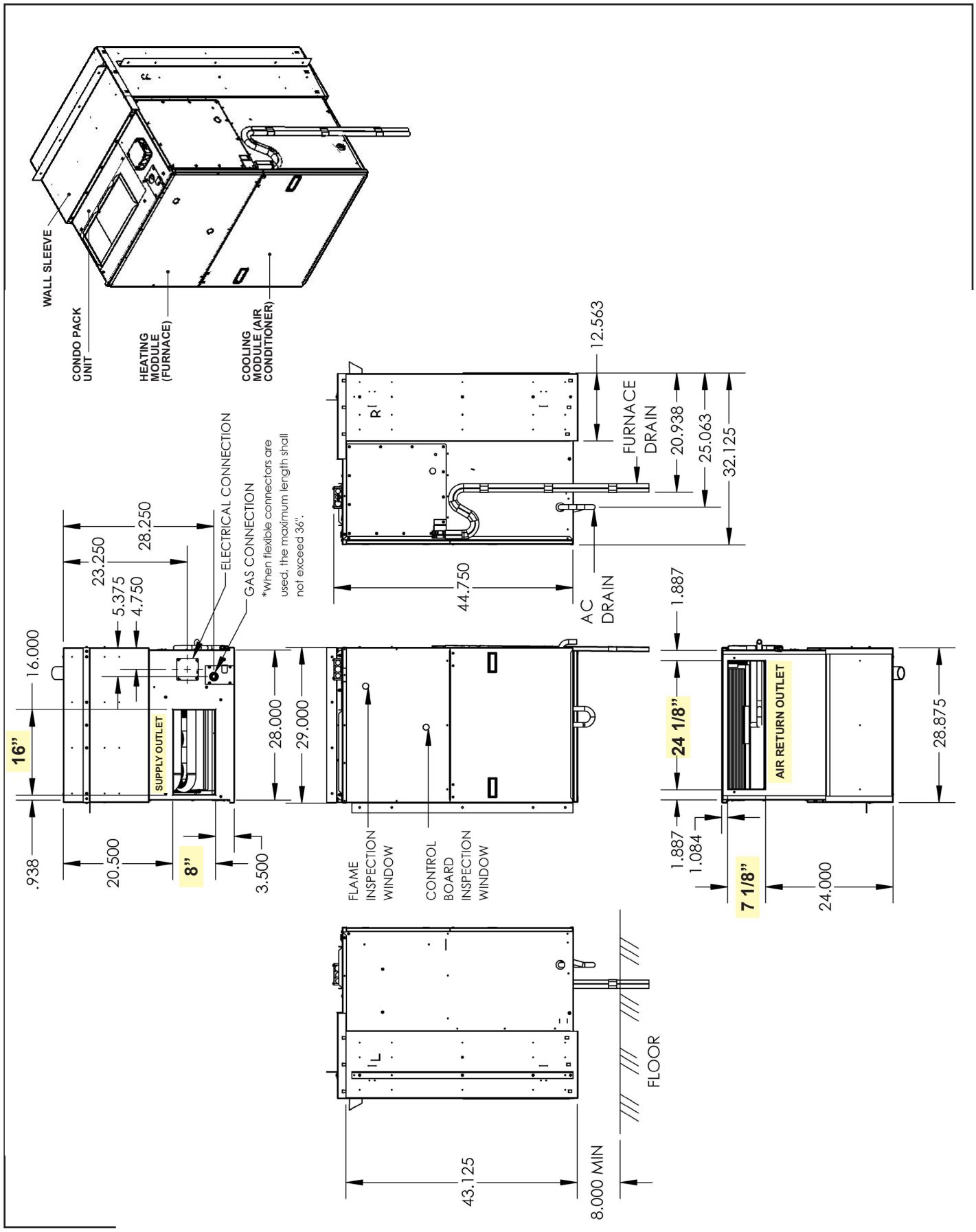
NOTE:
IT IS ALWAYS A GOOD PRACTICE TO MAXIMIZE THE CLEARANCE AS MUCH AS POSSIBLE BETWEEN VENT TERMINAL AND SURROUNDING STRUCTURES TO AVOID ANY POTENTIAL DAMAGE, DEGRADATION AND ICING, SINCE THE FLUE GASES CONTAIN WATER VAPOR AND ARE TYPICALLY MILDLY ACIDIC. CONSULT WITH EXTERIOR WALL FINISH MANUFACTURER FOR MORE INFORMATION.



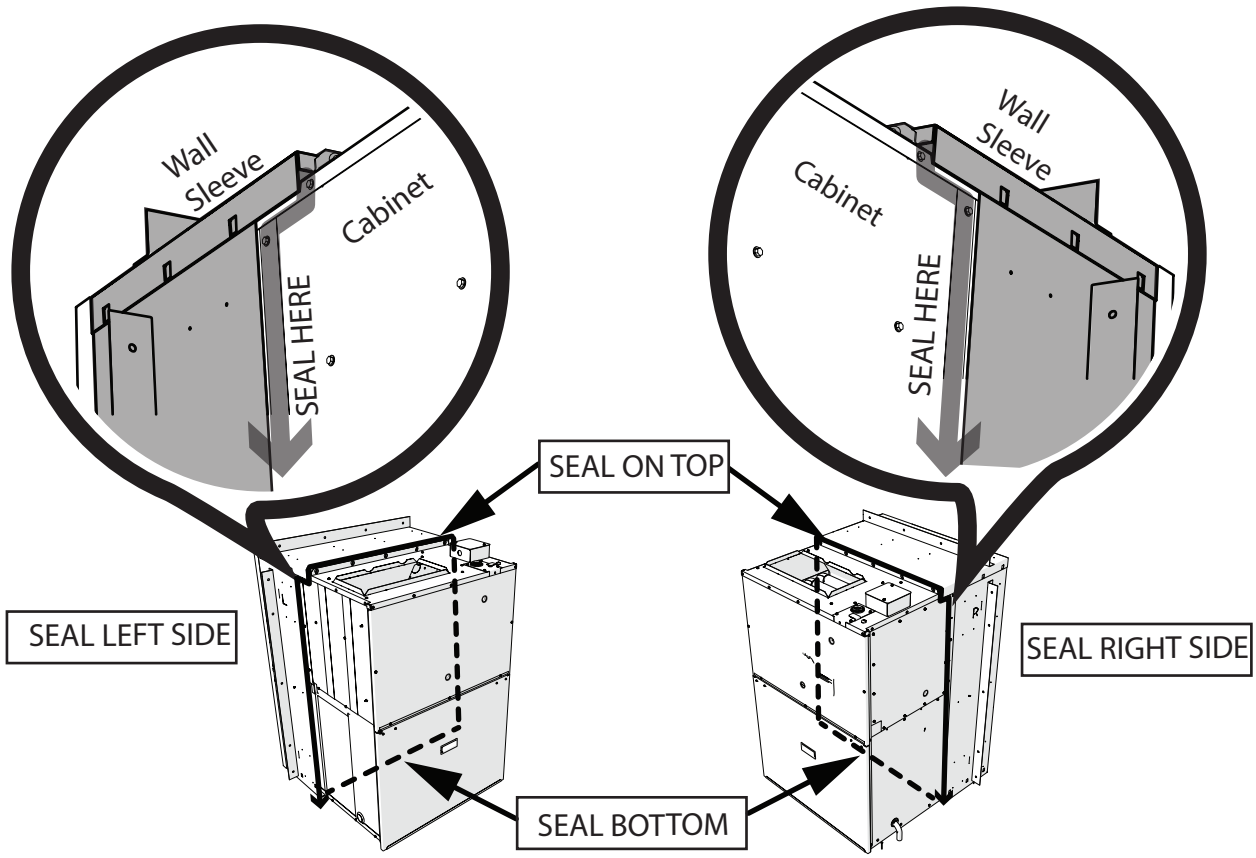
NOTE **** *** ** * *Refer to: ENCLOSURE FOR CONDO PACK Figure 1, page 5.*



CONDO PACK SHOWN IN WALL SLEEVE



SEALING: WALL SLEEVE AND CONDO PACK CABINET



Fill the clearance space between the sleeve and the cabinet with non-hardening caulking compound or non-expanding insulation foam as a protection against the snow, water, moisture and air infiltration.

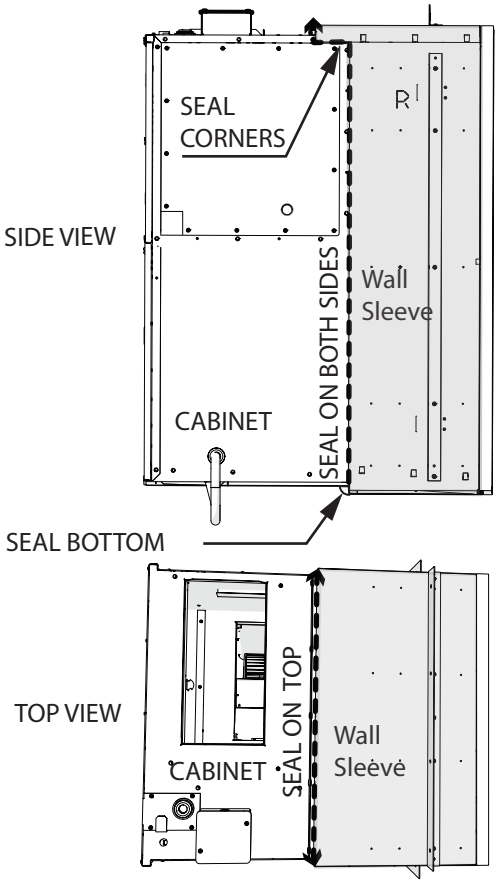
⚠ IMPORTANT ⚠

THE CLEARANCE SPACE BETWEEN THE WALL SLEEVE AND THE CABINET MUST BE COMPLETELY SEALED ON ALL FOUR SIDES IN ORDER TO PREVENT THE MOISTURE AND AIR INFILTRATION.

⚠ WARNING ⚠

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THE UNIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION OR OPERATION.

IMPROPER INSTALLATION, ADJUSTMENT, SERVICE, OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH. FOR INFORMATION AND ASSISTANCE CONSULT A QUALIFIED INSTALLER OR SERVICE AGENCY.



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AHRI Standard 210/240

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