

Technical Specifications



P-S SERIES

11 EER

Non-Condensing Gas Heat / Electric Cooling

Self contained, Standard efficiency Thru-The-Wall heating & cooling unit

80% AFUE / Thermal Efficiency
Input 26 000 - 64 000 BTU/h

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

FEATURES

COMPATIBLE BOX SIZE

- Industry standard footprint for retrofit applications
- Appliance shell dimensions:
 - 43 1/8" High x 28" Wide x 32" Deep (1.0 ton & 1.5 ton models)
 - 43 1/8" High x 28" Wide x 39" Deep (2.0 ton models)
- Wall Sleeve dimensions where penetrating exterior wall:
 - 44 7/8" High x 28 7/8" Wide
- Standard TAUPE color



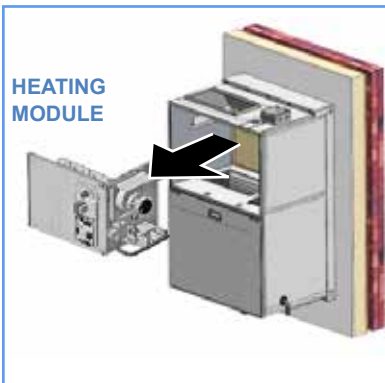
HEATING FEATURES

- 80 % AFUE / 80 % Thermal Efficiency Single Stage Gas Module
- Stainless steel heat exchanger
- Sealed Vestibule – keeps cold external air from circulating in dwelling

CIRCULATION BLOWER

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

HEATING
MODULE



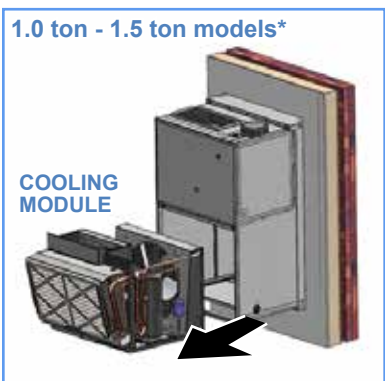
COOLING FEATURES

- 11 EER
- R-410A Refrigerant System
- Micro-Channel Condenser and Evaporator Coils
- High Efficiency Compressors
- One Piece motorized Condenser Fan design

SERVICE ADVANTAGES*

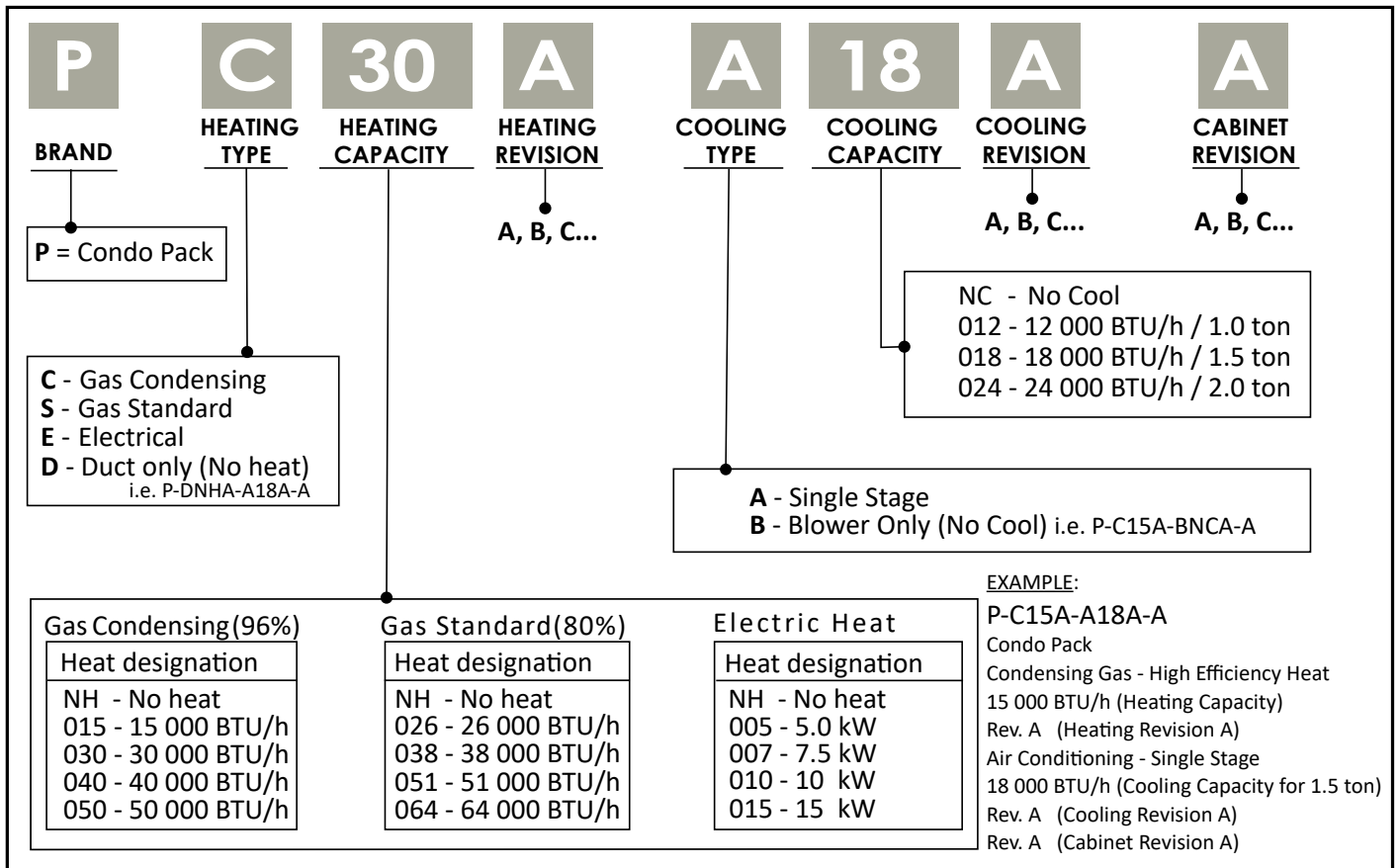
- Indoor access to all parts & maintenance needs.*
- Innovative, dual slide-out chassis can be partially or fully removed for efficient servicing.*
- With spare modules, building management can perform quick swap outs, maintaining indoor conditions in the apartment/condo, while troubleshooting non functioning 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.

1.0 ton - 1.5 ton models*



NOTE* :

**Applicable to all 1.0 ton & 1.5 ton models.
The heating section in 2.0 ton units remains servicable and removable but the air conditioning components are mounted inside of the cabinet.*



SPECIFICATIONS

PERFORMANCE

HEATING	P-S26A-A12A-A	P-S26A-A18A-A	P-S26A-A24A-A	P-S38A-A12A-A	P-S38A-A18A-A	P-S38A-A24A-A
AFUE / TE (Thermal Efficiency)	80% / 80%	80% / 80%	80% / 80%	80% / 80%	80% / 80%	80% / 80%
Input BTU/h	26,000	26,000	26,000	38,000	38,000	38,000
Output BTU/h (AFUE) / TE	20,800	20,800	20,800	30,400	30,400	30,400
COOLING						
BTU/h	12,000	17,000	24,000	12,000	17,000	24,000
EER	11	11	11	11	11	11
REF.	R410A	R410A	R410A	R410A	R410A	R410A
WEIGHT (lb)	323	344	401	323	344	401

HEATING	P-S51A-A12A-A	P-S51A-A18A-A	P-S51A-A24A-A	P-S64A-A12A-A	P-S64A-A18A-A	P-S64A-A24A-A
AFUE / TE (Thermal Efficiency)	80% / 80%	80% / 80%	80% / 80%	80% / 80%	80% / 80%	80% / 80%
Input BTU/h	51,000	51,000	51,000	64,000	64,000	64,000
Output BTU/h (AFUE) / TE	40,800	40,800	40,800	51,200	51,200	51,200
COOLING						
BTU/h	12,000	17,000	24,000	12,000	17,000	24,000
EER	11	11	11	11	11	11
REF.	R410A	R410A	R410A	R410A	R410A	R410A
WEIGHT (lb)	323	344	401	323	344	401

AIR FLOW - 1.0 TON & 1.5 TON MODELS

HEATING		SCFM at external static pressure In.W.C.							
Module No.	BTU/h	SETTING	SPEED	0.1"	0.2"	0.3"	0.4"	0.5"	
S26A	26 K	Factory	5	430	430	405	330	285	
		High	4	565	535	525	490	420	
S38A	38 K	Factory	4	565	535	525	490	420	
		High	3	770	745	730	710	690	
S51A	51 K	Factory	3	770	745	730	710	690	
		High	2	930	900	885	865	860	
S64A	64 K	Factory	2	930	900	885	865	860	
		High	N/A	N/A	N/A	N/A	N/A	N/A	
COOLING		SCFM at external static pressure In.W.C.							
Module No.	BTU/h	SETTING	SPEED	0.1"	0.2"	0.3"	0.4"	0.5"	
A12A	1.0 ton	Factory	5	430	430	405	330	285	
		High	4	565	535	525	490	420	
A18A	1.5 ton	Factory	1	665	630	620	575	500	
		High	3	770	745	730	710	690	

GAS CONTROLS AND ADDITIONAL DATA	
IGNITION SYSTEM	SPARK IGNITION
GAS CONNECTION	1/2" NPT

AIR FLOW - 2.0 TON MODELS

HEATING		CFM at external static pressure (in. W. C.)							
Module No.	BTU/h	SETTING	SPEED	0.1"	0.2"	0.3"	0.4"	0.5"	
S26A	26 K	Factory	5	455	410	380	330	290	
		High	4	555	530	500	475	430	
S38A	38 K	Factory	4	555	530	500	475	430	
		High	3	770	755	725	710	675	
S51A	51 K	Factory	3	790	770	740	715	695	
		High	2	955	935	910	885	855	
S64A	64 K	Factory	2	955	935	910	885	855	
		High	N/A	N/A	N/A	N/A	N/A	N/A	
COOLING		CFM at external static pressure (in. W. C.)							
Module No.	Size	SETTING	SPEED	0.1"	0.2"	0.3"	0.4"	0.5"	
A24A	2.0 ton	Factory	1	870	840	820	795	775	
		High	2	955	935	910	885	855	

ELECTRICAL

Description	1.0 ton	1.5 ton	2.0 ton
Compressor Type	Rotary	Rotary	Rotary
Rated Amps	5.3	7.4	10.4
LRA	28.5	38.5	60.9
MCA	10.2	13.9	17.6
Max Fuse / Breaker (A)	15	20	25
Indoor Fan FLA / HP / RPM	2.8 / 1/3 / 1050	2.8 / 1/3 / 1050	2.8 / 1/3 / 1050
Condenser Fan FLA / HP / RPM	0.79 / 1/4 / 1100	0.9 / 1/3 / 1120**	1.6 / 1/3 / 1380**
Combustion Fan FLA	1.25	1.25	1.25

** 1.5 ton & 2.0 ton models have two speed condenser fan motor:
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.

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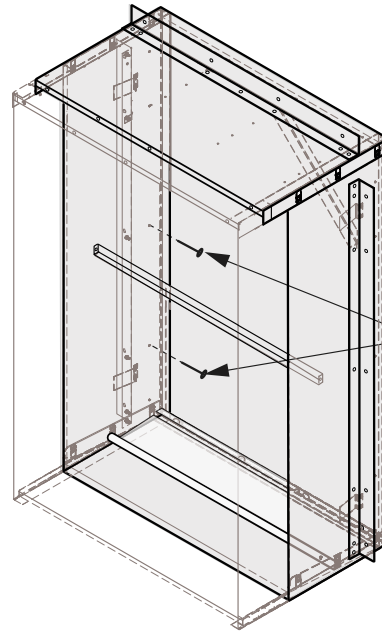
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WALL SLEEVE DIMENSIONS

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.



WALL SLEEVE IS DIRECTLY LAGGED TO WALL SUBSTRUCTURE.

DIMENSIONS FOR THE TOP PANEL (ITEM 1):

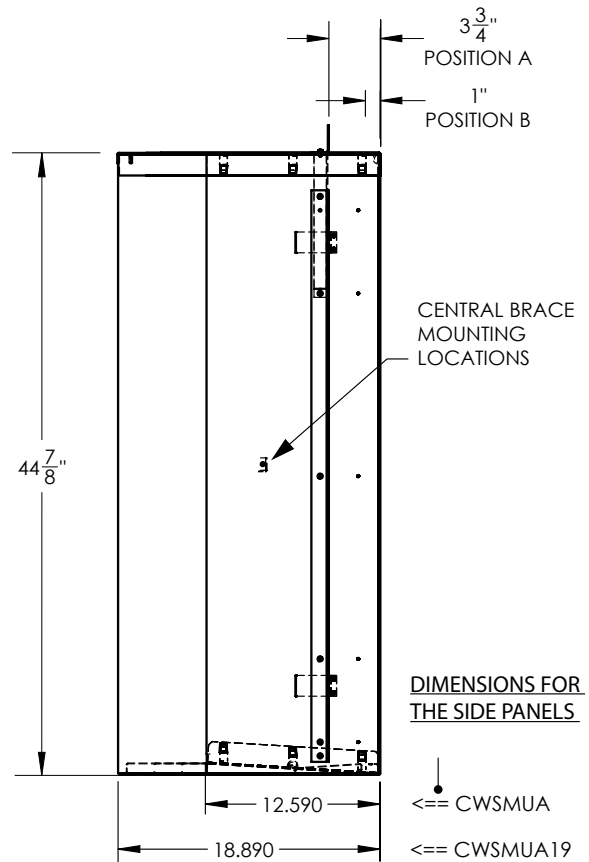
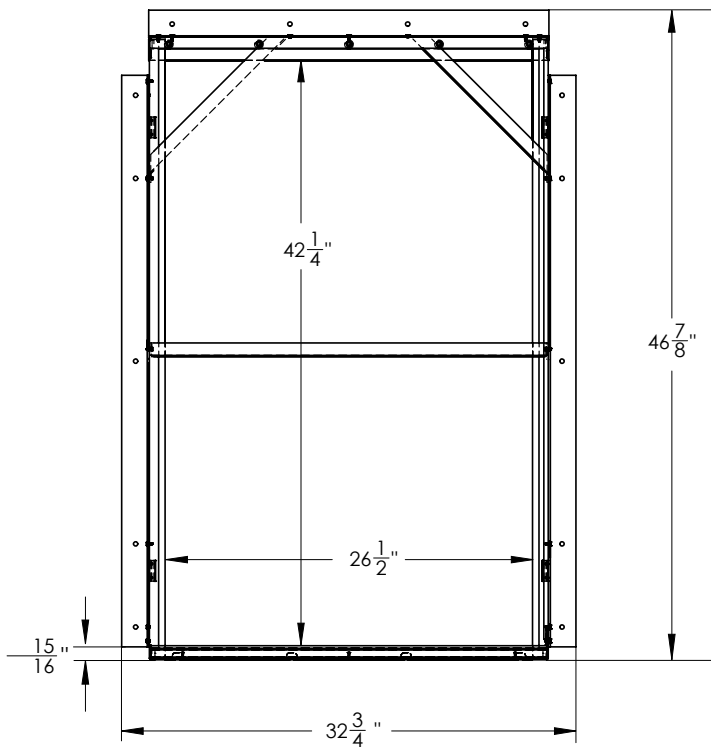
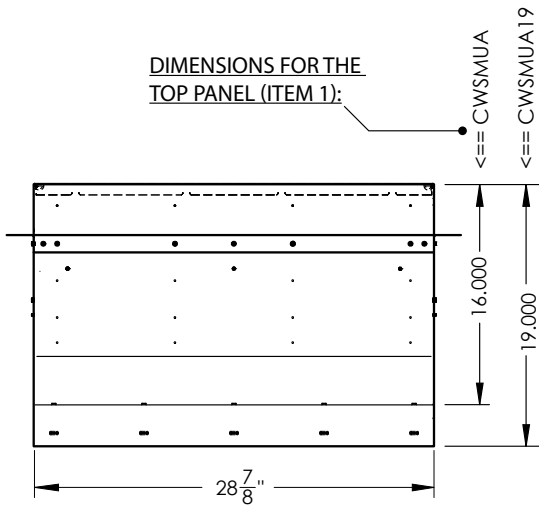
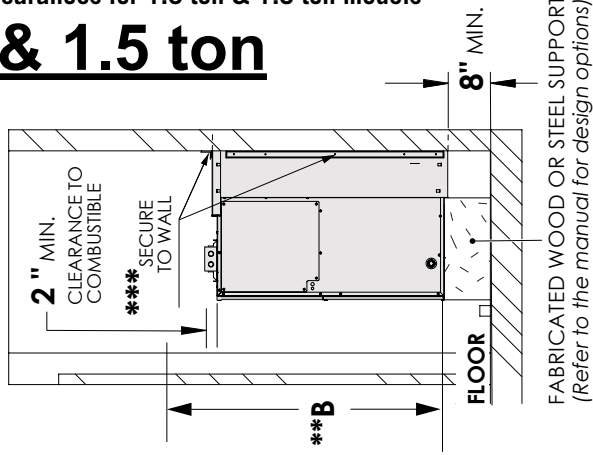
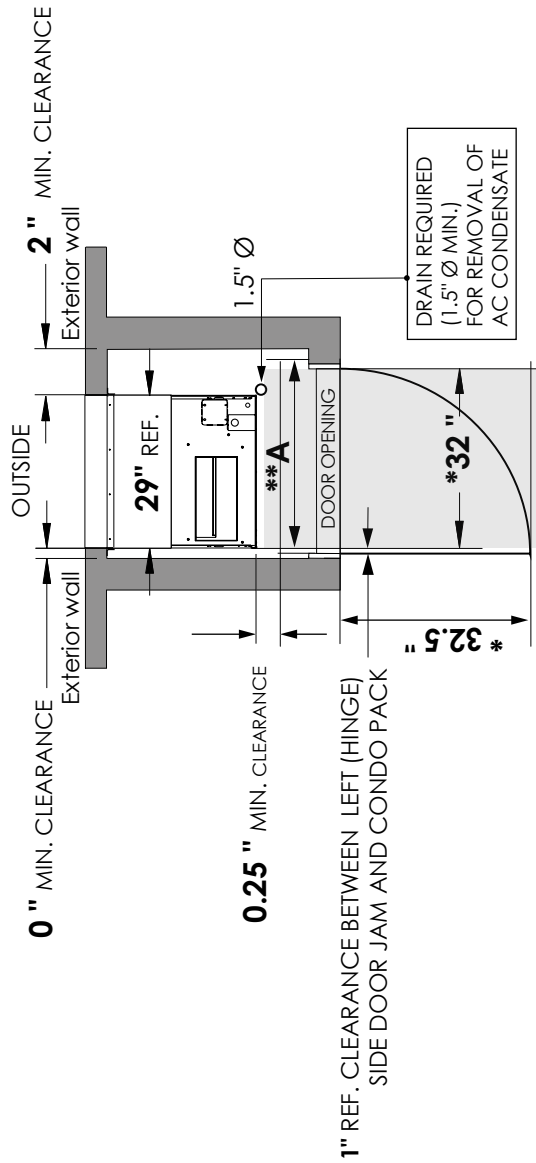


FIGURE 1: Service Clearances for 1.0 ton & 1.5 ton models

1.0 ton & 1.5 ton

MINIMUM CLEARANCE

REQUIRED DUE TO UNIT'S DIMENSION & SAFETY STANDARD



NOTE

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

- ***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: Service Clearances for 1.0 ton & 1.5 ton models

1.0 ton & 1.5 ton

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.

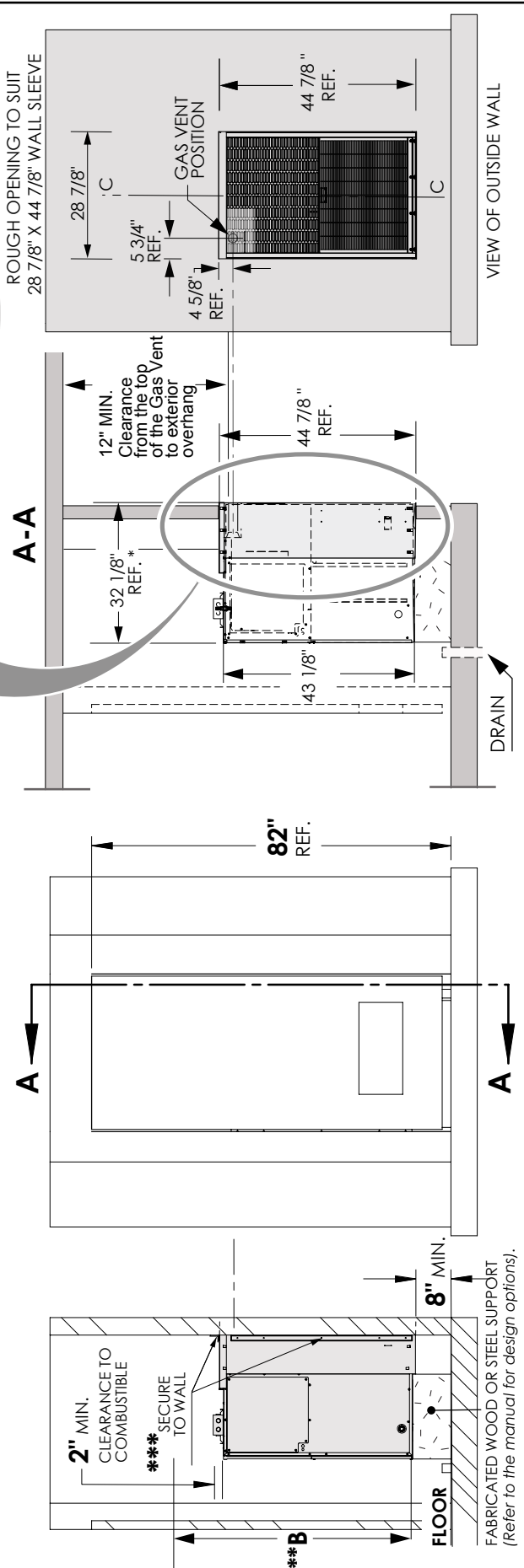
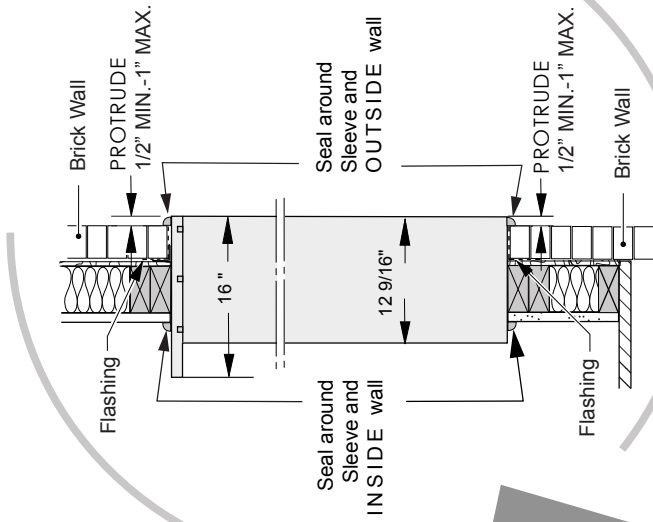
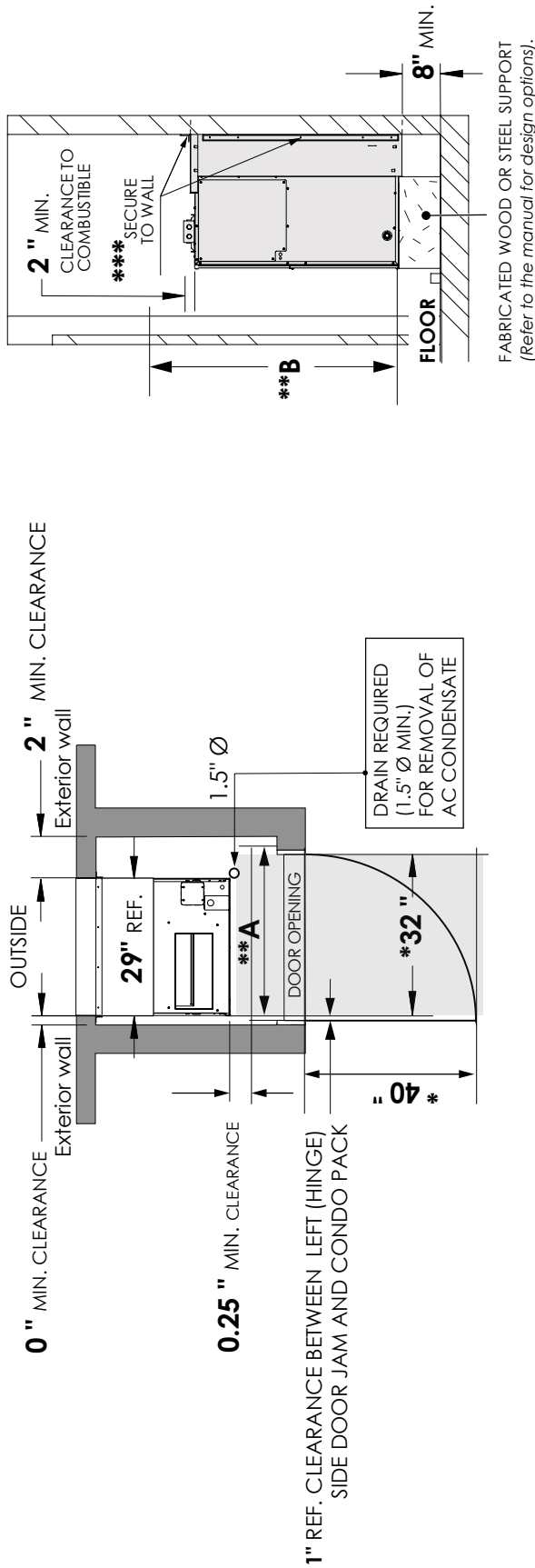


FIGURE 3: Service Clearances for 2.0 ton models

2.0 ton

MINIMUM CLEARANCE

REQUIRED DUE TO UNIT'S DIMENSION & SAFETY STANDARD



NOTE

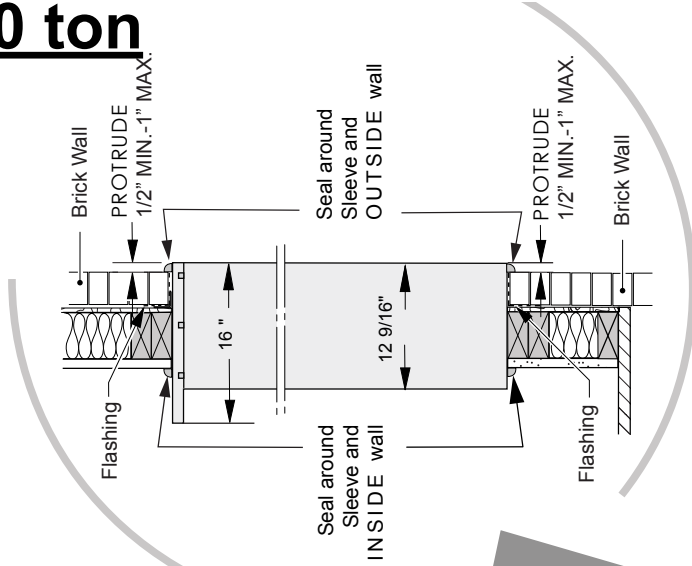
ADEQUATE SERVICE CLEARANCE MUST BE PROVIDED IN FRONT OF THE UNIT.

- *** 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 A x B) 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 40" unobstructed clearance is required in front of the unit for complete removal of heating module and the cabinet to access cooling section components. 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 4: Service Clearances for 2.0 ton models

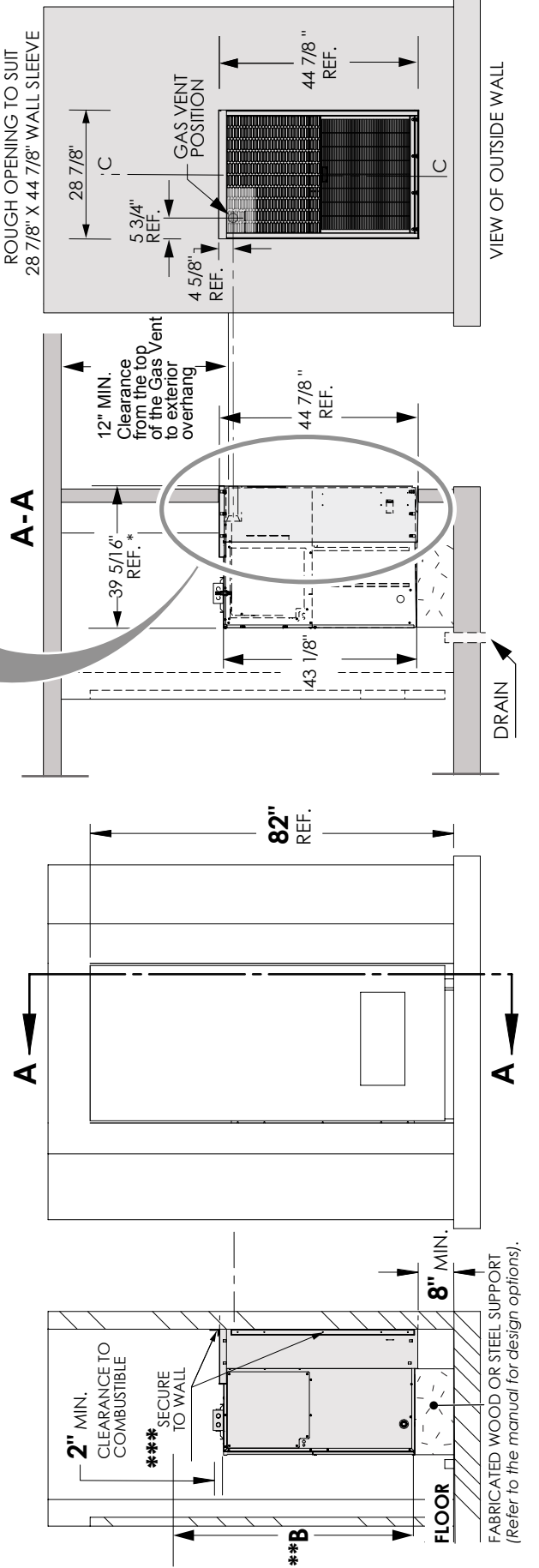
2.0 ton



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.

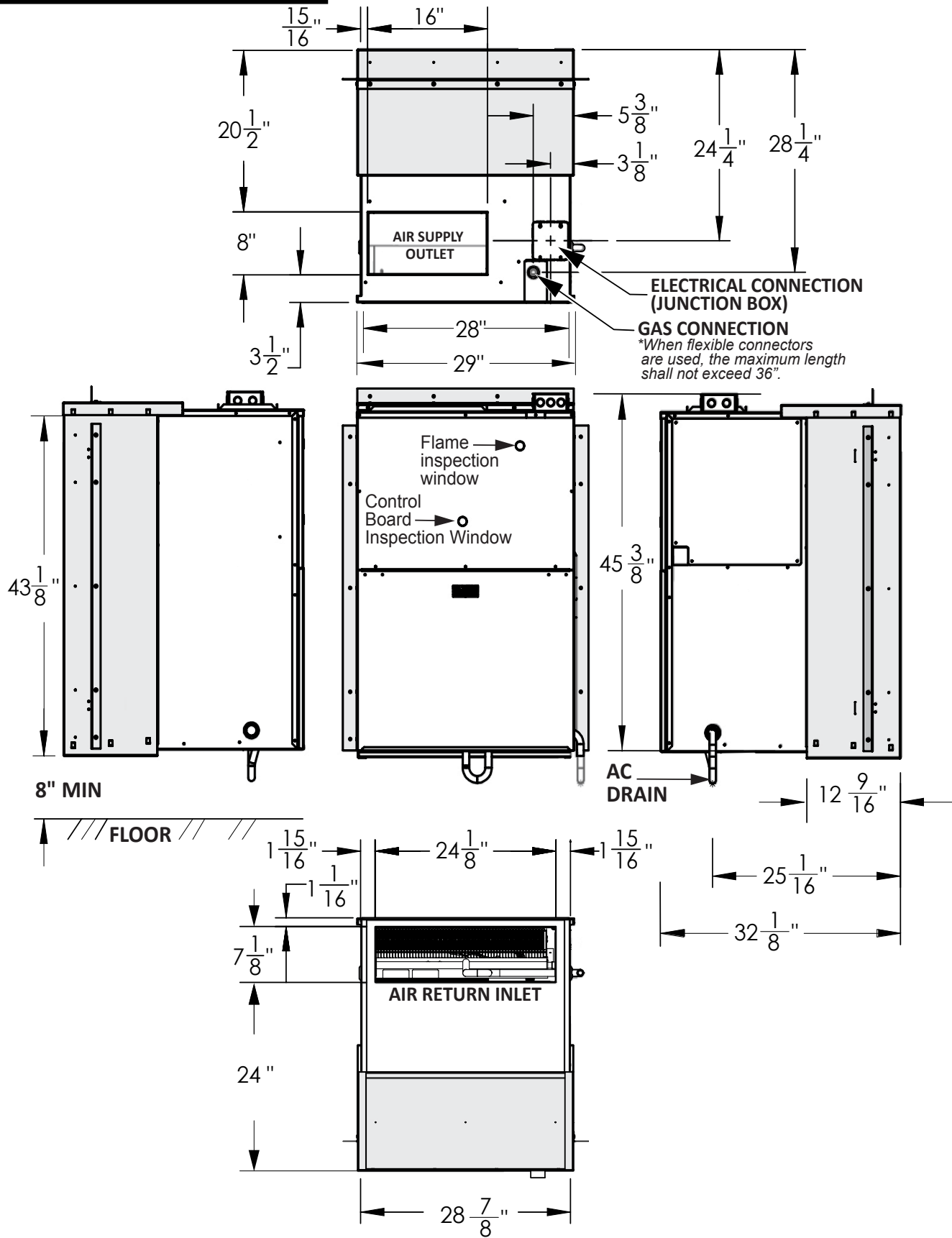
NOTE *** ** * Refer to: ENCLOSURE FOR CONDO PACK Figure 3, page 7.



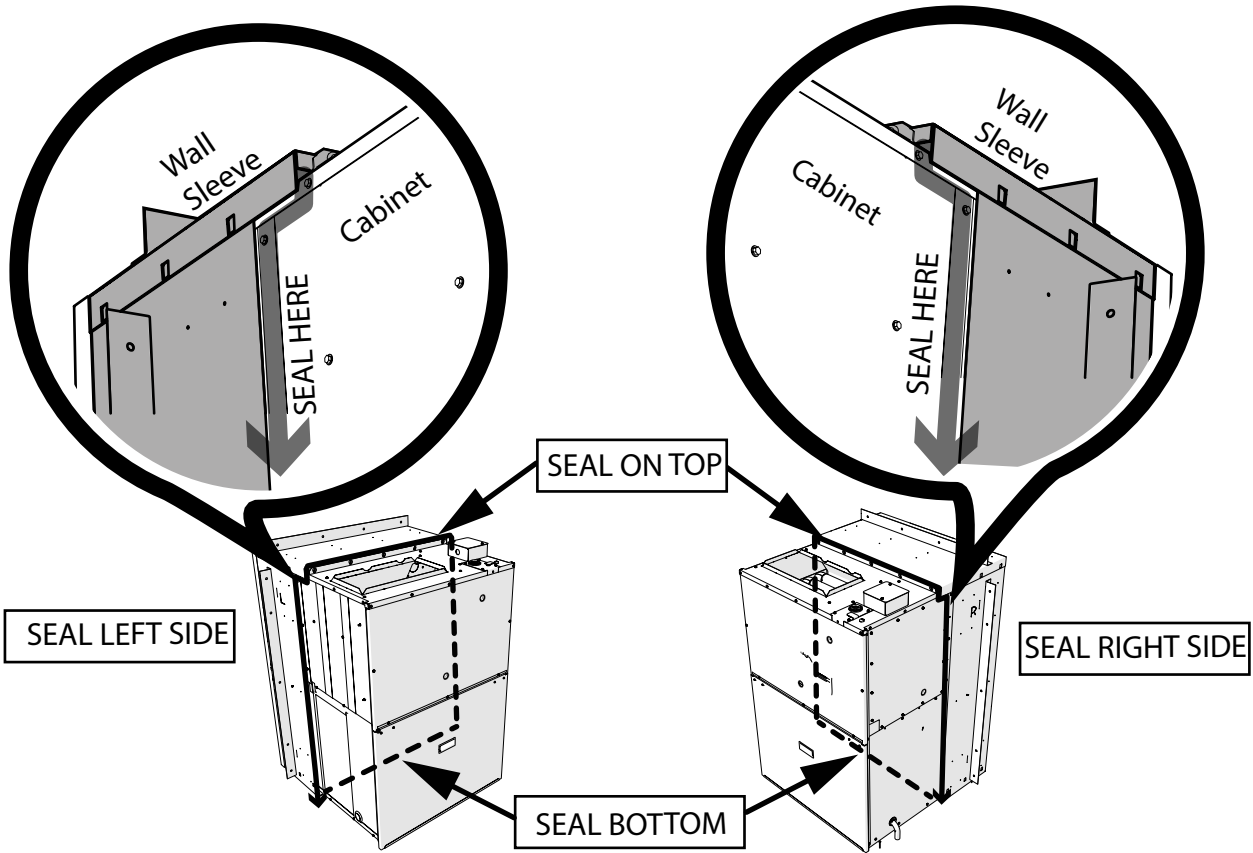
CONDO PACK SHOWN IN WALL SLEEVE

FIGURE 5: Dimensions for 1.0 ton & 1.5 ton models:

1.0 ton & 1.5 ton

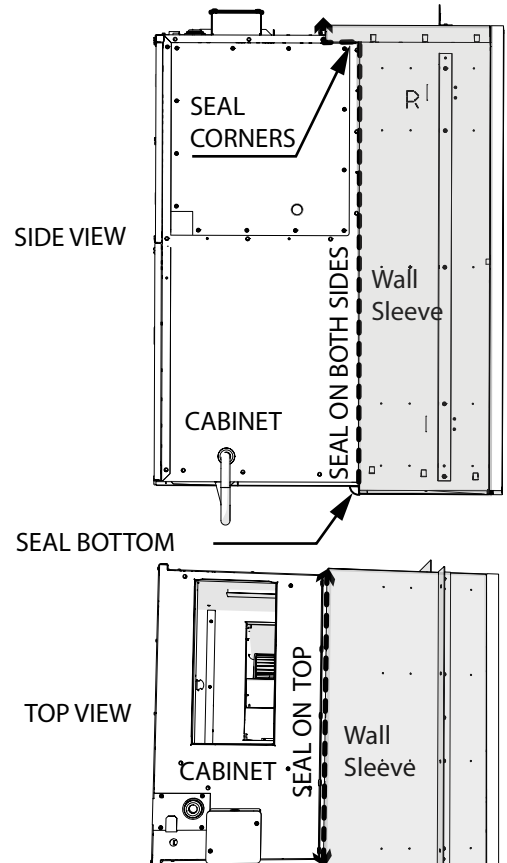


SEALING: WALL SLEEVE AND CONDO PACK CABINET



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.

<p>⚠ IMPORTANT ⚠</p>
<p>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.</p>
<p>⚠ WARNING ⚠</p>
<p>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.</p> <p>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.</p>





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