

Technical Specifications



PSS - SERIES REV-B

Mid Efficiency Gas Heat / Electric Cooling

Self contained, Standard efficiency Thru-The-Wall heating & cooling unit
Up to 80% AFUE/Thermal Efficiency, AHRI Certified
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

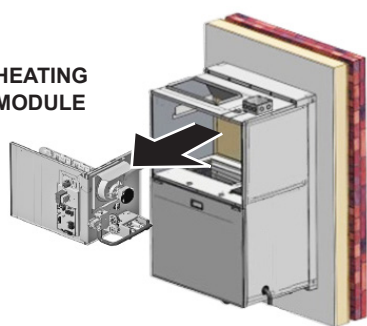
- Industry standard footprint for retrofit applications
- Appliance shell dimensions:
43 1/8" High x 28" Wide x 32" Deep
- Wall Sleeve dimensions where penetrating exterior wall:
44 7/8" High x 28 7/8" Wide
- Standard TAUPE color



HEATING FEATURES

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

HEATING
MODULE



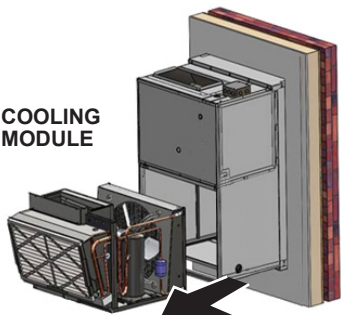
CIRCULATION BLOWER

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

COOLING FEATURES

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

COOLING
MODULE



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

P	S	C	040	A	018	A
BRAND	MODEL	HEAT TYPE	HEAT CAPACITY	COOLING TYPE	COOLING CAPACITY	REVISION
P=Condo Pack	S=Single Packaged Vertical R=Roof Top P=Packaged Residential	C - Gas Condensing S - Gas Standard E - Electrical H - Hydronic D - Duct only (No heat) i.e. PSD000A012A			Air Conditioning 000 - Blower Only 012 - 12 000 Btu/h / 1.0 Ton 018 - 18 000 Btu/h / 1.5 Ton 024 - 24 000 Btu/h / 2.0 Ton 030 - 30 000 Btu/h / 2.5 Ton	A, B, C...
		Gas Condensing(96%)	Gas Standard(80%)	A - Air Conditioning - std. eff. Rev A B - Air Conditioning - std. eff. Rev B C - Air Conditioning - high eff. H - Heat Pump - std. eff. P - Heat Pump - high eff. F - Blower Only (No Cool) i.e. PSC040F000A		
		Heat designation	Heat designation			
		000 - Duct Only	000 - Duct Only			
		015 - 15 000 Btu/h	026 - 26 000 Btu/h			
		030 - 30 000 Btu/h	038 - 38 000 Btu/h			
		040 - 40 000 Btu/h	051 - 51 000 Btu/h			
		050 - 50 000 Btu/h	064 - 64 000 Btu/h			
		Electric Heat	Hydronic Heat			
		Heat designation	Heat designation			
		000 - Duct Only	000 - Duct Only			
		005 - 5.0 kW	030 - 30 000 Btu/h			
		007 - 7.5 kW	042 - 42 000 Btu/h			
		010 - 10 kW				
		015 - 15 kW				

Example:

PSC040B018A

- Condo Pack
- Single Packaged Vertical
- Condensing Gas heating 40k Btu/h
- Rev B AC 1.5 ton
- Rev A

SPECIFICATIONS

PERFORMANCE

HEATING	PSS026B012A	PSS026B018A	PSS026B024A	PSS026B030A	PSS038B012A	PSS038B018A	PSS038B024A	PSS038B030A
Thermal Efficiency	80%	80%	80%	80%	80%	80%	80%	80%
AFUE	80%	80%	80%	80%	80%	80%	80%	80%
Input BTU/h	26,000	26,000	26,000	26,000	38,000	38,000	38,000	38,000
Output BTU/h (Thermal Efficiency)	20,800	20,800	20,800	20,800	30,400	30,400	30,400	30,400
Output BTU/h (AFUE)	20,800	20,800	20,800	20,800	30,400	30,400	30,400	30,400
COOLING								
BTU/h	12,000	16,000	21,000	25,000	12,000	16,000	21,000	25,000
EER	11	10.0	10.0	9.0	11	10.0	10.0	9.0
REF.	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
WEIGHT (lb)	328	349	349	349	328	349	349	349

HEATING	PSS051B012A	PSS051B018A	PSS051B024A	PSS051B030A	PSS064B012A	PSS064B018A	PSS064B024A	PSS064B030A
Thermal Efficiency	80%	80%	80%	80%	80%	80%	80%	80%
AFUE	80%	80%	80%	80%	80%	80%	80%	80%
Input BTU/h	51,000	51,000	51,000	51,000	64,000	64,000	64,000	64,000
Output BTU/h (Thermal Efficiency)	40,800	40,800	40,800	40,800	51,200	51,200	51,200	51,200
Output BTU/h (AFUE)	40,800	40,800	40,800	40,800	51,200	51,200	51,200	51,200
COOLING								
BTU/h	12,000	16,000	21,000	25,000	12,000	16,000	21,000	25,000
EER	11	10.0	10.0	9.0	11	10.0	10.0	9.0
REF.	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
WEIGHT (lb)	328	349	349	349	328	349	349	349

AIR FLOW

H BTU/h ATING			CFM at external static pressure, inches Water Column										
Module No.	BTU/h	SETTING	SPEED	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
CSGM026A	26 kBTU/h	Factory	5	433	429	405	330	283	260	227	202	-	-
		High	4	565	535	524	488	421	380	337	300	283	259
CSGM038A	38 kBTU/h	Factory	4	565	535	524	488	421	380	337	300	283	259
		High	3	768	745	731	711	688	661	626	591	553	522
CSGM051A	51 kBTU/h	Factory	3	768	745	731	711	688	661	626	591	553	522
		High	2	931	902	886	867	859	839	818	781	721	637
CSGM064A	64 kBTU/h	Factory	2	931	902	886	867	859	839	818	781	721	637
		High	1	998	976	957	931	907	889	845	805	747	648
COOLING													
Module No.	Size	SETTING	SPEED	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
CACM012B	1.0 TON	Factory	5	433	429	405	330	283	260	227	202	-	-
		High	4	565	535	524	488	421	380	337	300	283	259
CACM018B	1.5 TON	Factory	3	768	745	731	711	688	661	626	591	553	522
		High	2	931	902	886	867	859	839	818	781	721	637
CACM024B	2.0 TON	Factory	3	768	745	731	711	688	661	626	591	553	522
		High	2	931	902	886	867	859	839	818	781	721	637
CACM030B	2.5 TON	Factory	1	998	976	957	931	907	889	845	805	747	648

ELECTRICAL

Description	1.0 TON	1.5 TON	2.0 TON	2.5 TON
Compressor Type	Rotary	Rotary	Rotary	Scroll
Rated Amps	5.3	7.4	10.0	12.8
LRA	28.5	38.5	34.8	67.8
MCA	10.2	12.8	16.7	20.2
Max Fuse/Breaker (A)	15	20	25	30
Indoor Fan FLA / HP / RPM	2.8 / 1/3 / 1050	2.8 / 1/3 / 1050	2.8 / 1/3 / 1050	2.8 / 1/3 / 1050
Condenser Fan FLA / HP / RPM	.79 / 1/4 / 1100	.79 / 1/4 / 1100	1.4 / 1/3 / 1600	1.4 / 1/3 / 1600
Combustion Fan FLA	1.25	1.25	1.25	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
AC CONDENSATE HOSE SIZE (Supplied)	5/8" ID

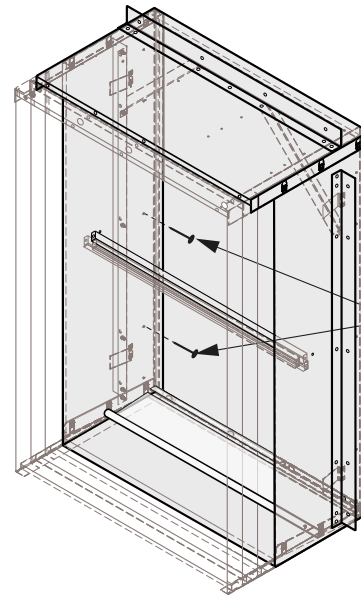
WALL SLEEVE DIMENSIONS

FOUR DIFFERENT WALL SLEEVE MODELS ARE DEPICTED BELOW:

- CWSMUA
- CWSMUA15
- CWSMUA17
- 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 NAPOLEON ENGINEERING TO DETERMINE BRACKET LOCATION FOR SETTING THE DESIRED DEPTH OF WALL SLEEVE INTO WALL.



WALL SLEEVE IS DIRECTLY LAGGED TO WALL SUBSTRUCTURE.

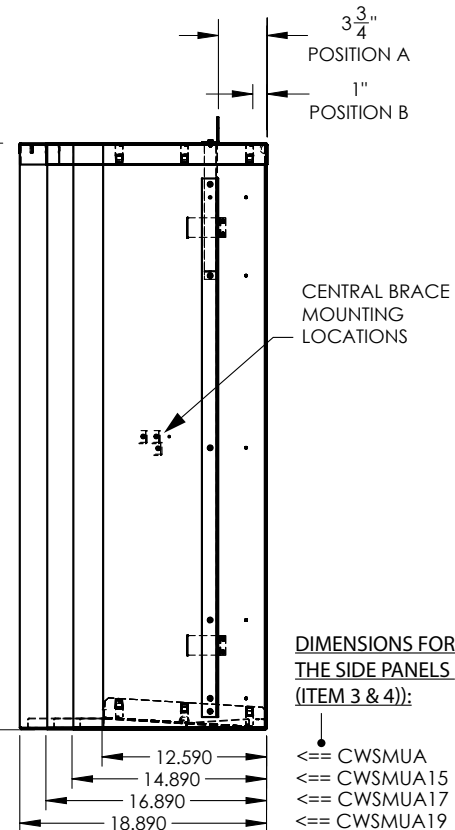
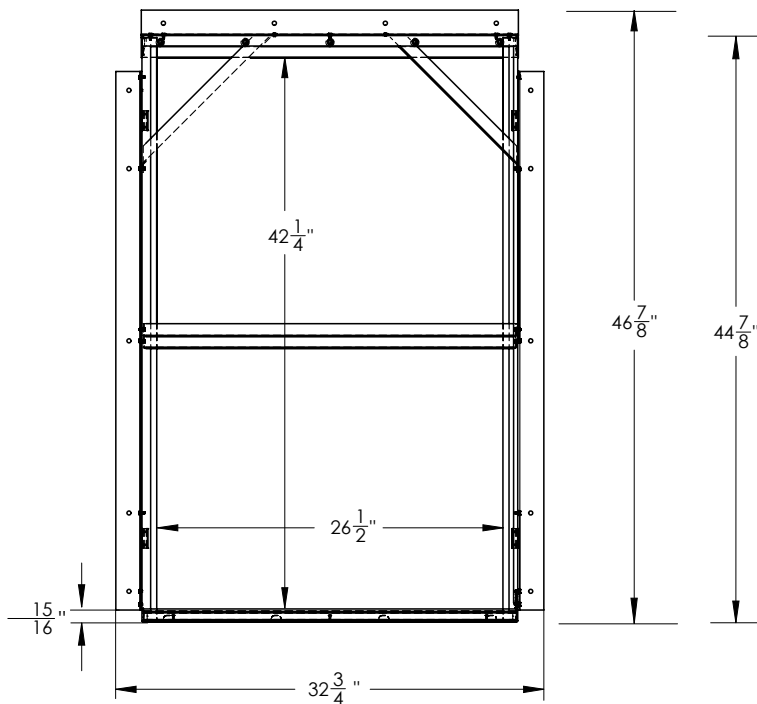
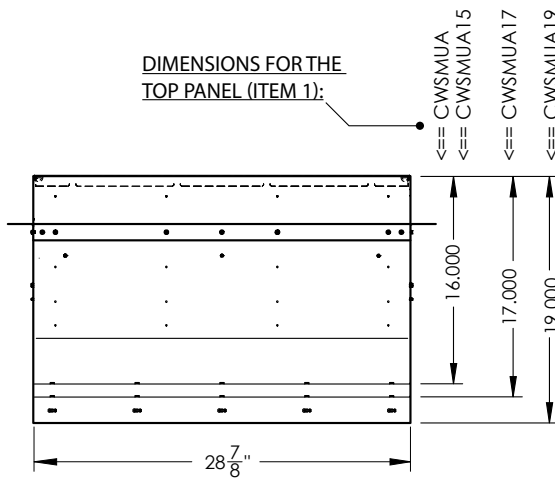
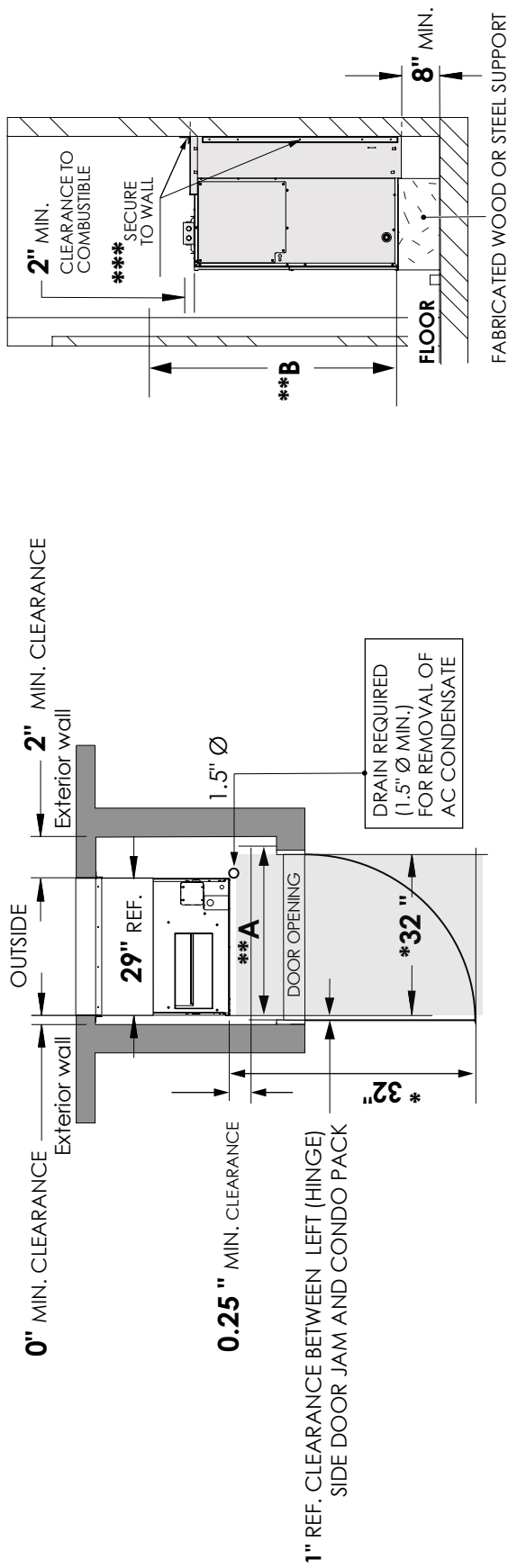
DIMENSIONS FOR THE TOP PANEL (ITEM 1):

FIGURE 1

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 Napoleon Engineering 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" 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.

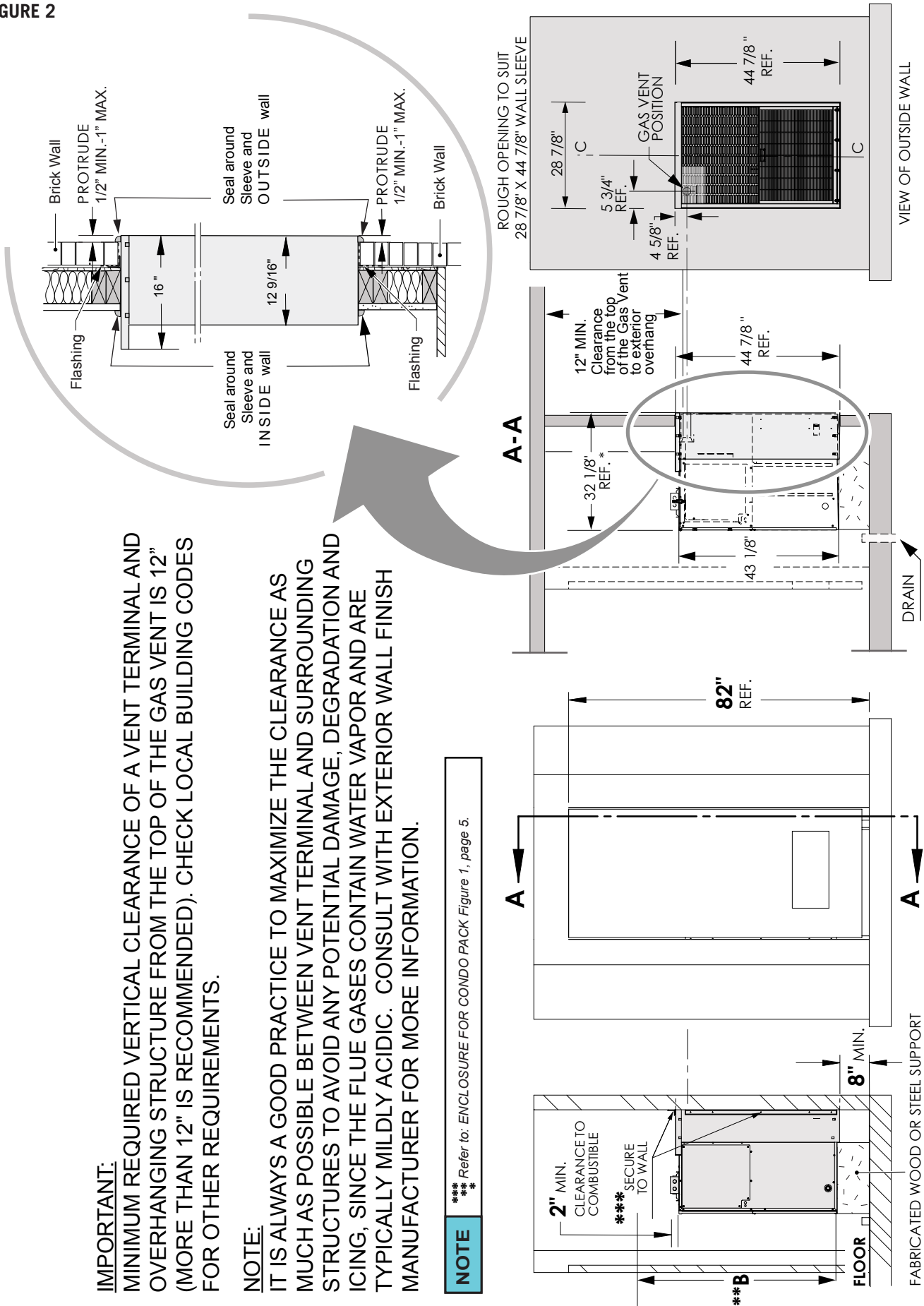
IMPORTANT: Prior to constructing interior closet walls in close proximity to the wall sleeve, the sealing of the wall sleeve and cabinet should be completed. Sealing after the walls are constructed can be difficult. Poor sealing will result in cold air infiltration that will affect Condo Pack. Refer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

FIGURE 2

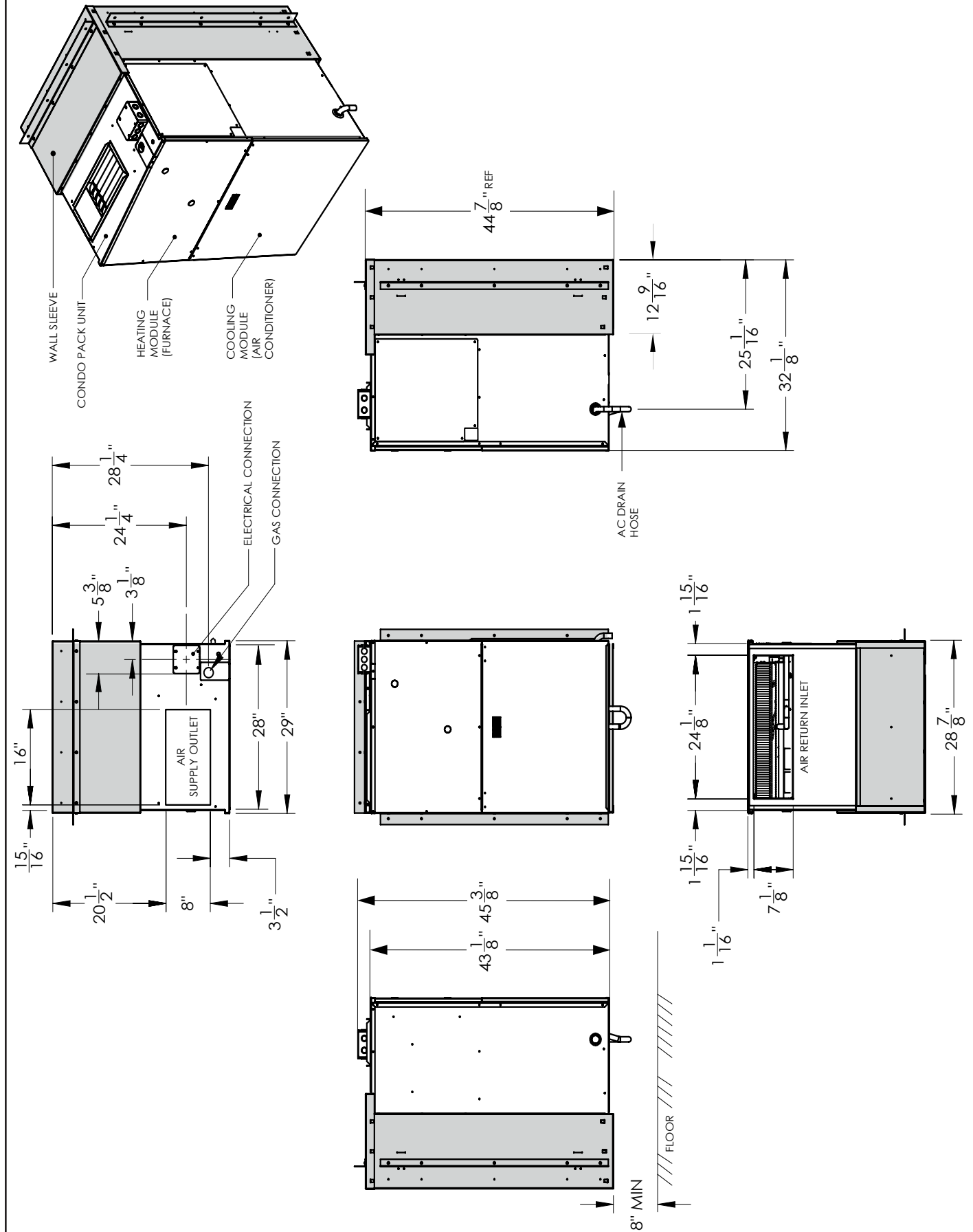
IMPORTANT:
MINIMUM REQUIRED VERTICAL CLEARANCE OF A VENT TERMINAL AND OVERHANGING STRUCTURE FROM THE TOP OF THE GAS VENT IS 12" (MORE THAN 12" IS RECOMMENDED). CHECK LOCAL BUILDING CODES FOR OTHER REQUIREMENTS.

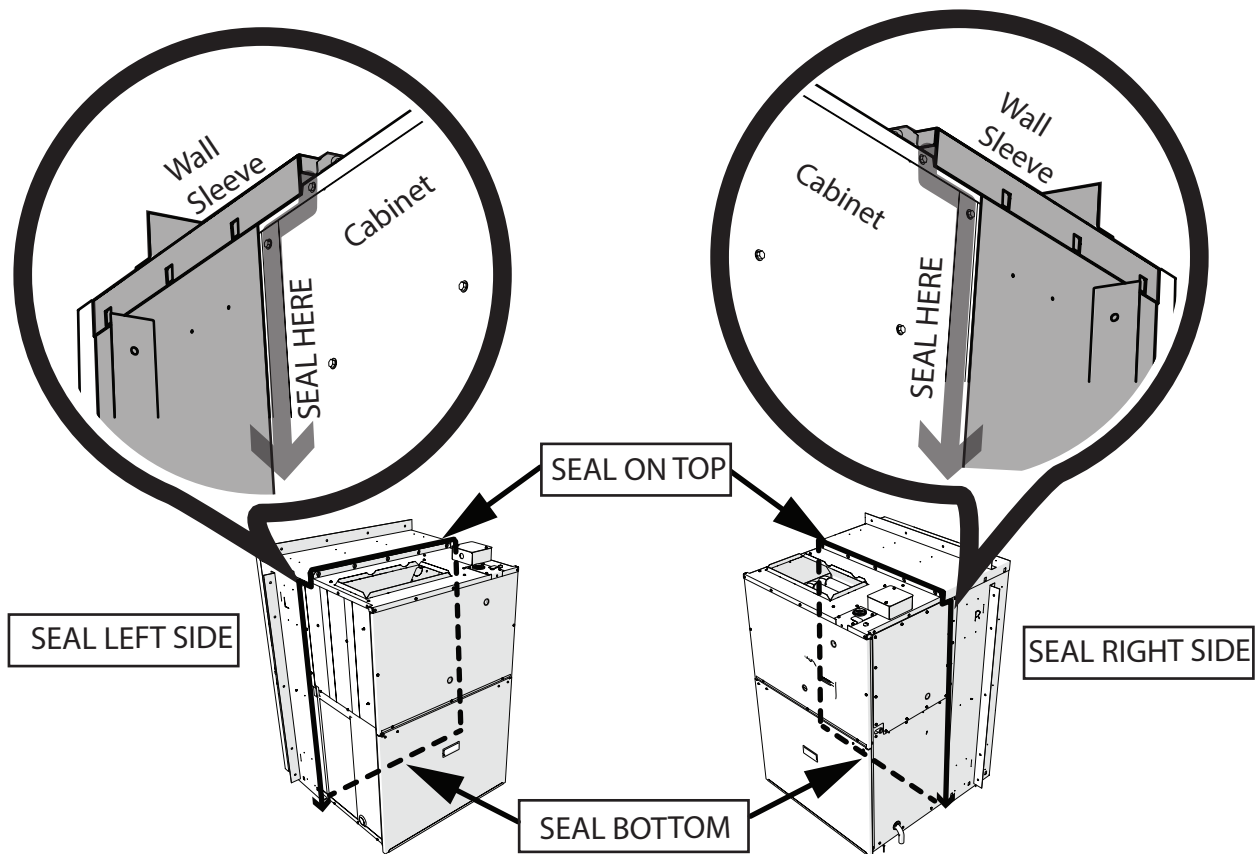
NOTE:
IT IS ALWAYS A GOOD PRACTICE TO MAXIMIZE THE CLEARANCE AS MUCH AS POSSIBLE BETWEEN VENT TERMINAL AND SURROUNDING STRUCTURES TO AVOID ANY POTENTIAL DAMAGE, DEGRADATION AND ICING, SINCE THE FLUE GASES CONTAIN WATER VAPOR AND ARE TYPICALLY MILDLY ACIDIC. CONSULT WITH EXTERIOR WALL FINISH MANUFACTURER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

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



CONDO PACK SHOWN IN WALL SLEEVE





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.

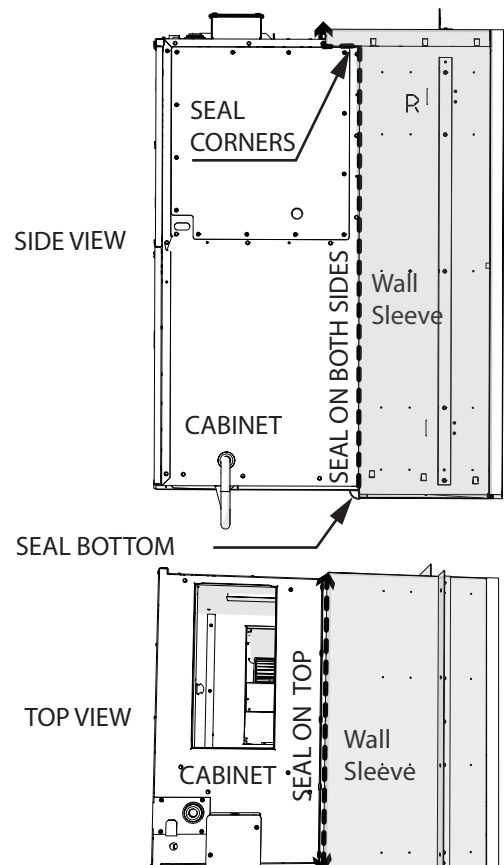
⚠ IMPORTANT ⚠

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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