

Technical Specifications



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

PSC - SERIES REV-B

Gas Heat / Electric Cooling

Self contained, high efficiency Thru-The-Wall heating & cooling unit
Up to 96.8% AFUE, 90% Thermal Efficiency, AHRI Certified
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, 90% Thermal Efficiency 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

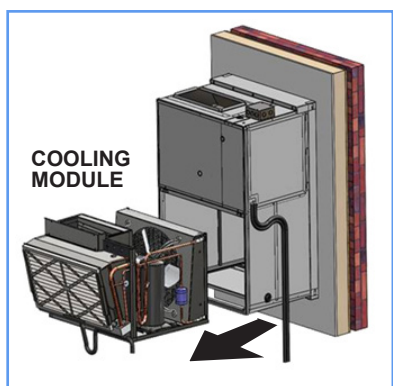
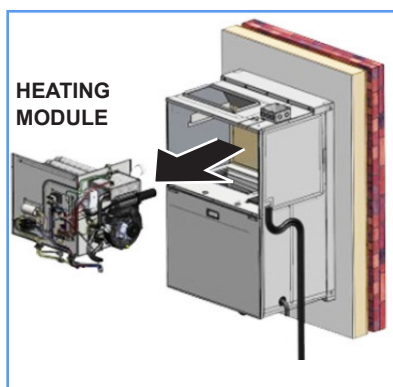
- Dual Inlet Blower for higher flow rates / reduced air noise
- Endura Pro Multi-Speed Electronically Commutated Motor for increased electrical efficiency

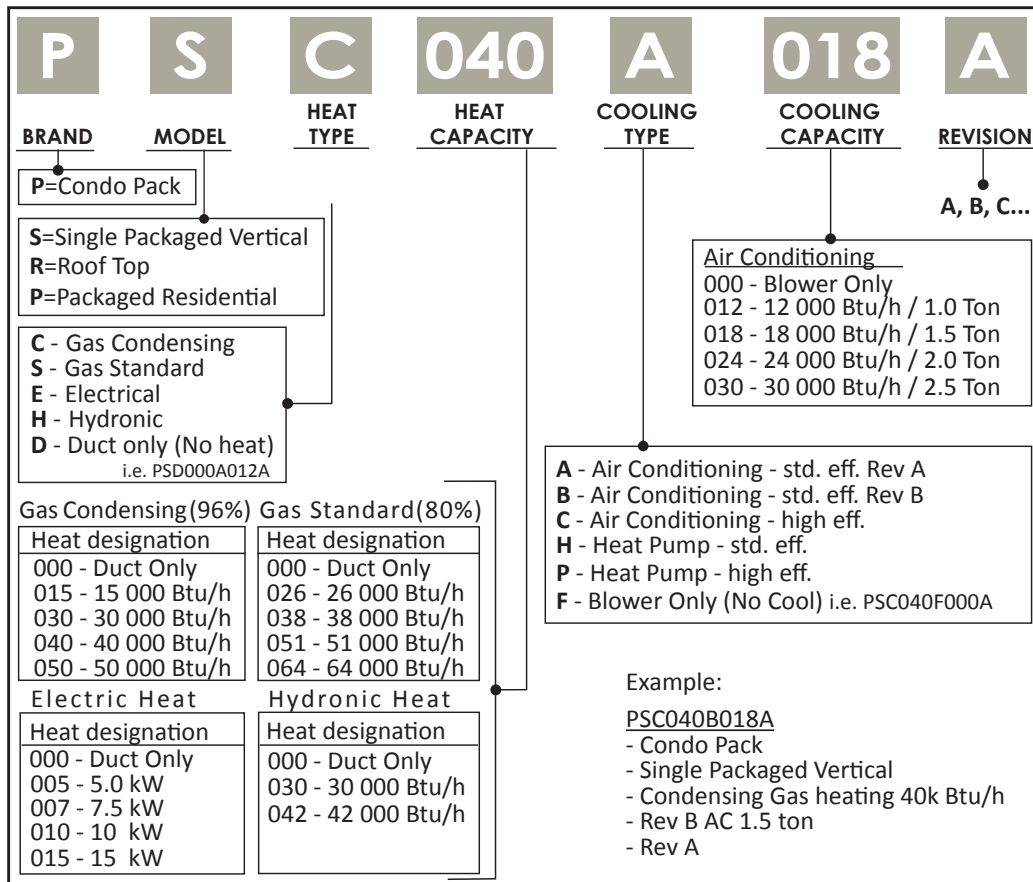
COOLING FEATURES

- Up to 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





SPECIFICATIONS

PERFORMANCE

HEATING	PSC015B012A	PSC015B018A	PSC015B024A	PSC015B030A	PSC030B012A	PSC030B018A	PSC030B024A	PSC030B030A
Thermal Efficiency	90%	90%	90%	90%	90%	90%	90%	90%
AFUE	96.8%	96.8%	96.8%	96.8%	93%	93%	93%	93%
Input BTU/h	15,000	15,000	15,000	15,000	30,000	30,000	30,000	30,000
Output BTU/h (Thermal Efficiency)	13,500	13,500	13,500	13,500	27,000	27,000	27,000	27,000
Output BTU/h (AFUE)	14,520	14,520	14,520	14,520	27,900	27,900	27,900	27,900
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	PSC040B012A	PSC040B018A	PSC040B024A	PSC040B030A	PSC050B012A	PSC050B018A	PSC050B024A	PSC050B030A
Thermal Efficiency	90%	90%	90%	90%	90%	90%	90%	90%
AFUE	91.7%	91.7%	91.7%	91.7%	90.6%	90.6%	90.6%	90.6%
Input BTU/h	40,000	40,000	40,000	40,000	50,000	50,000	50,000	50,000
Output BTU/h (Thermal Efficiency)	36,000	36,000	36,000	36,000	45,000	45,000	45,000	45,000
Output BTU/h (AFUE)	36,680	36,680	36,680	36,680	45,300	45,300	45,300	45,300
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

----- CFM AT EXTERNAL STATIC PRESSURE, INCHES WATER COLUMN --													
MODEL	HEATING	SETTING	Speed Tap#	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
CCGM015A	15 kBTU/h	Factory	5	439	388	333	294	240	193	-	-	-	-
		High	4	569	529	494	470	415	368	346	306	273	-
CCGM030A	30 kBTU/h	Factory	4	569	529	494	470	415	368	346	306	273	-
		High	3	771	744	729	704	693	663	644	610	566	556
CCGM040A	40 kBTU/h	Factory	3	771	744	729	704	693	663	644	610	566	556
		High	2	924	908	886	868	839	804	757	696	617	-
CCGM050A	50 kBTU/h	Factory	2	924	908	886	868	839	804	757	696	617	-
		High	1	1010	971	938	906	870	824	773	713	617	-
MODEL	COOLING	SETTING											
CACM012B	1.0 TON	Factory	5	439	388	333	294	240	193	-	-	-	-
		High	4	569	529	494	470	415	368	346	306	273	-
CACM018B	1.5 TON	Factory	3	771	744	729	704	693	663	644	610	566	566
		High	2	924	908	886	868	839	804	757	696	617	-
CACM024B	2.0 TON	Factory	3	771	744	729	704	693	663	644	610	566	566
		High	2	924	908	886	868	839	804	757	696	617	-
CACM030B	2.5 TON	Factory	1	1010	971	938	906	870	824	773	713	617	-

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	
GAS & AC CONDENSATE HOSE SIZE (Supplied)	1/2" ID and 5/8" ID	5/8" ID

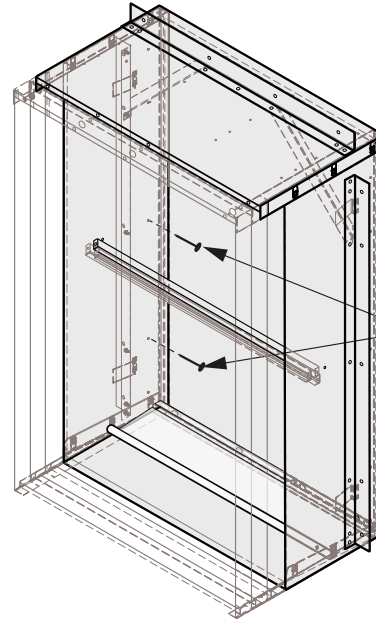
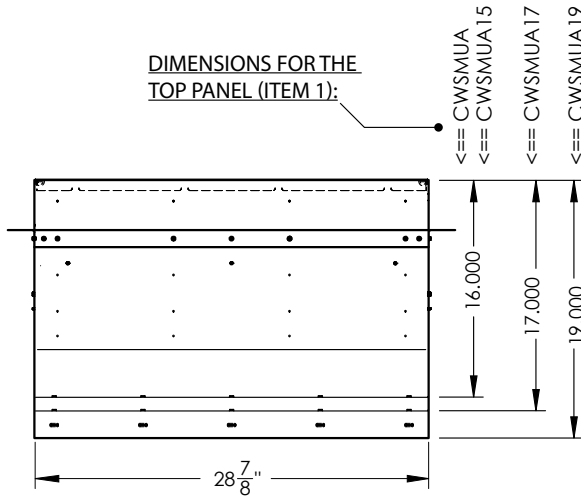
*All specifications and designs can change without notice to allow for on-going improvements. Images may not be exactly as shown. Consult with your owner's manual for current information. Check all local and national building codes and gas regulations. Napoleon® is a registered trade mark of Wolf Steel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

WALL SLEEVE DIMENSIONS

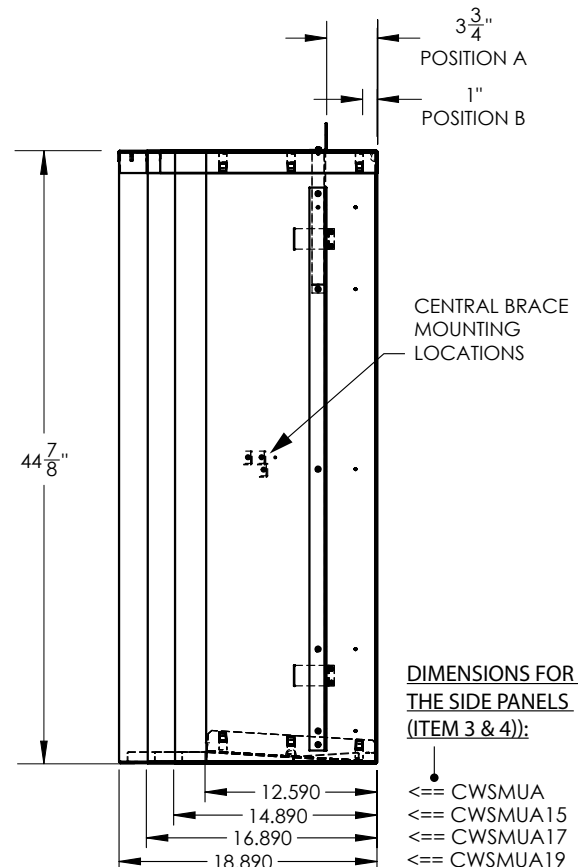
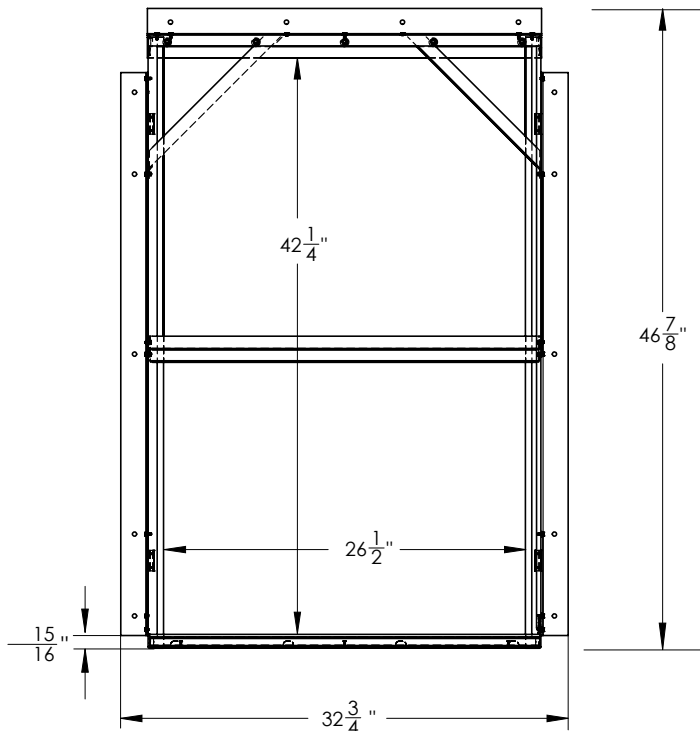
NOTE:

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.

**DIMENSIONS FOR THE
TOP PANEL (ITEM 1):**



WALL SLEEVE IS
DIRECTLY LAGGED
TO WALL
SUBSTRUCTURE.



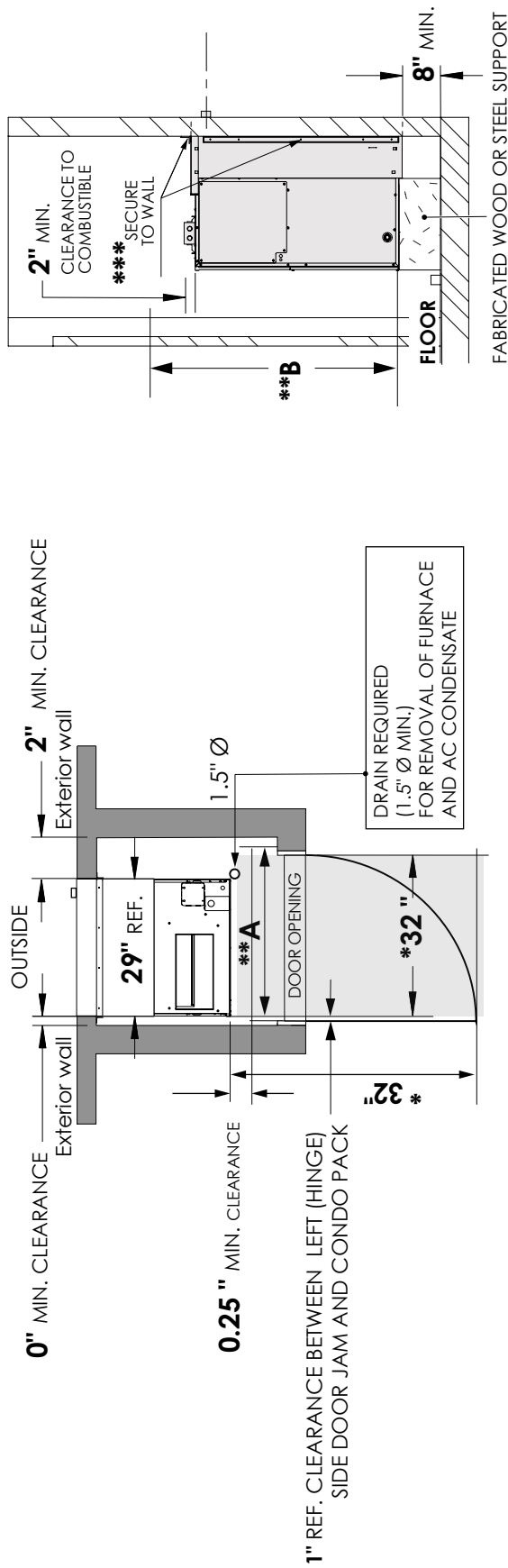
**DIMENSIONS FOR
THE SIDE PANELS
(ITEM 3 & 4):**

$\leq$ CWSMUA
 $\leq$ CWSMUA15
 $\leq$ CWSMUA17
 $\leq$ CWSMUA19

FIGURE 1

MINIMUM CLEARANCE

REQUIRED DUE TO UNIT'S DIMENSION & SAFETY STANDARD



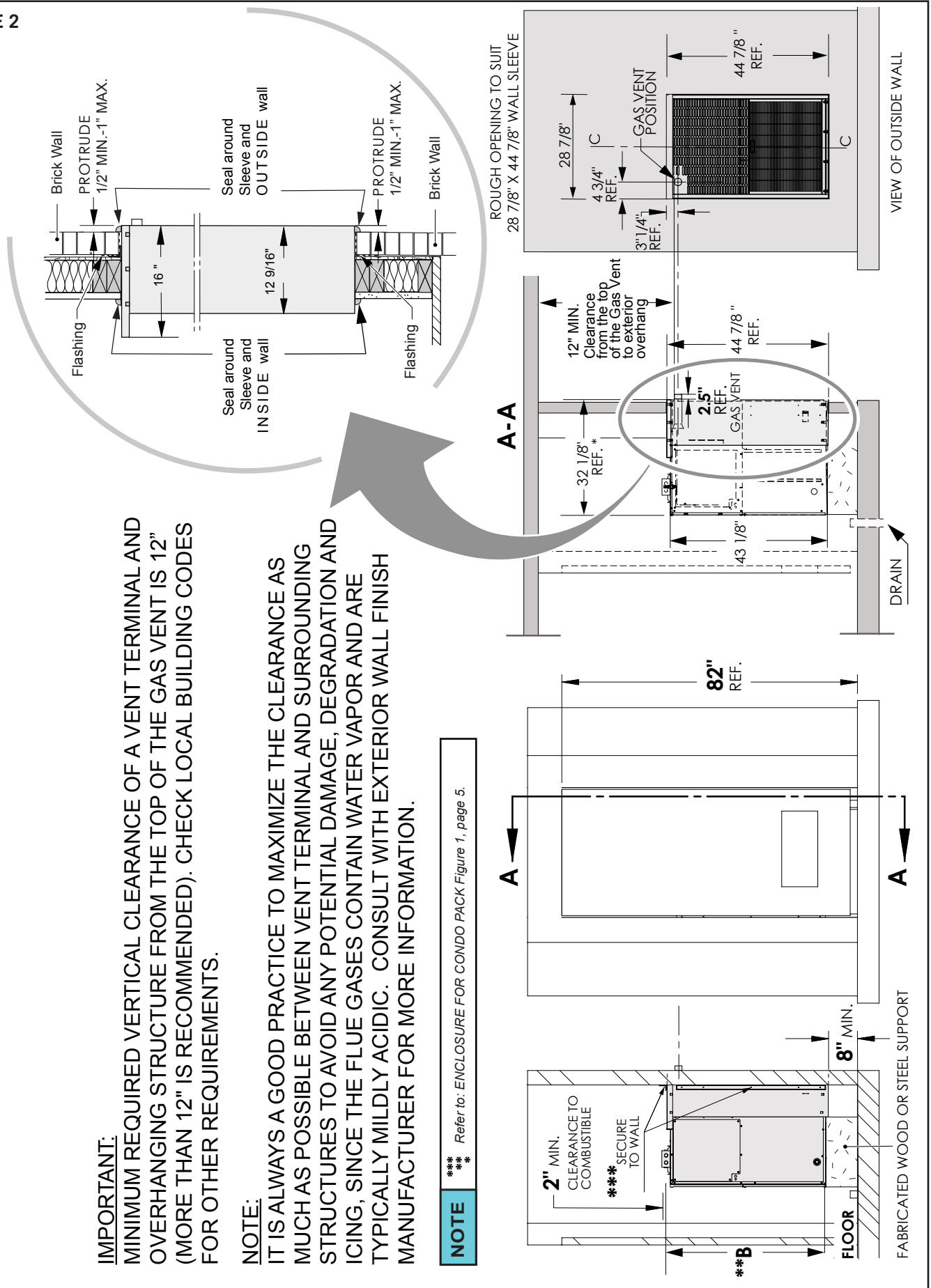
NOTE

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

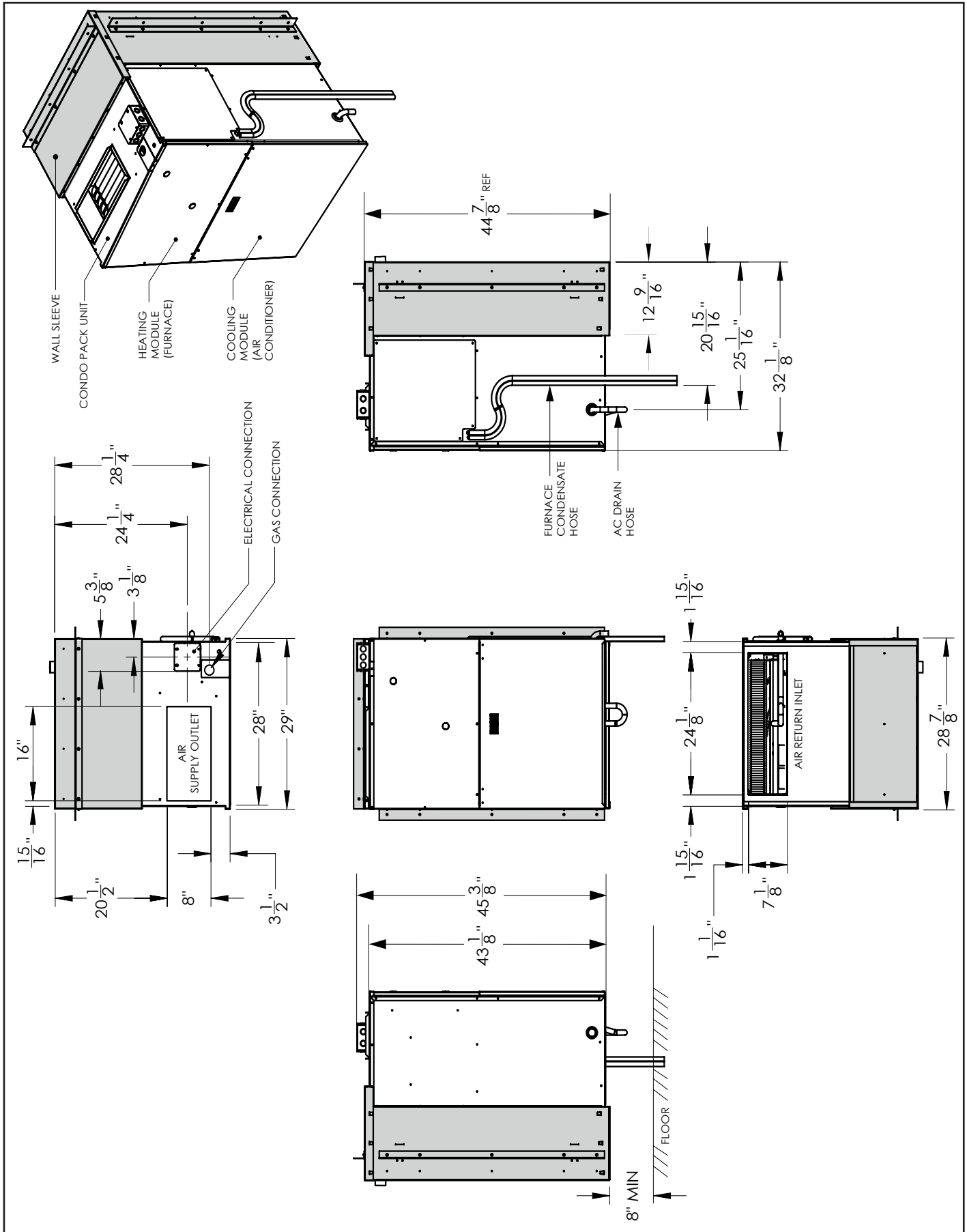
- *** Engineer/Architect - to consult with Napoleon Engineering to determine bracket location for setting the desired depth of Wall Sleeve into wall.
- ** A clear and unobstructed passageway (dimension AxB) shall be provided to the unit, in accordance with the requirements of the local authorities having 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.

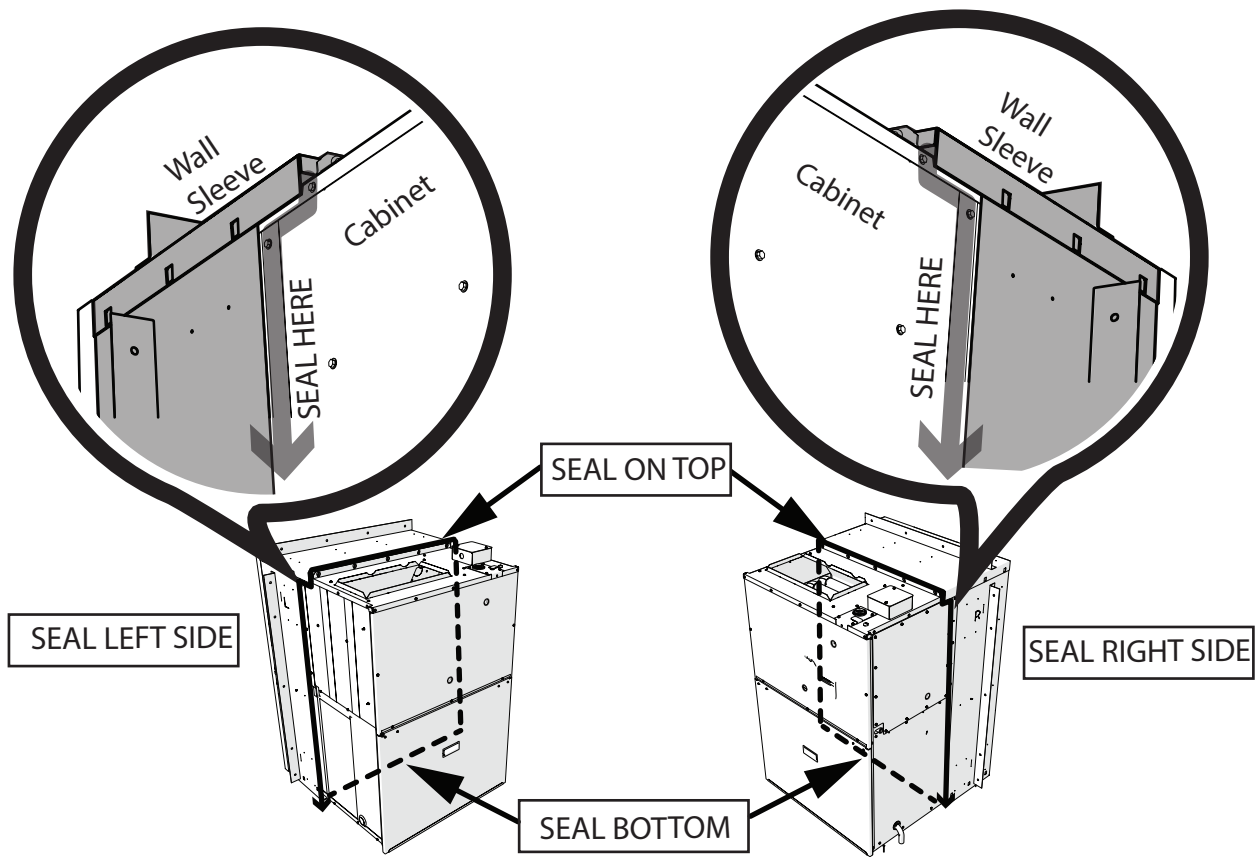
IMPORTANT: Prior to constructing interior closet walls in close proximity to the wall sleeve, the sealing of the wall sleeve and cabinet should be completed. Sealing after the walls are constructed can be difficult. Poor sealing will result in cold air infiltration that will affect Condo Pack. Refer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

FIGURE 2



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.

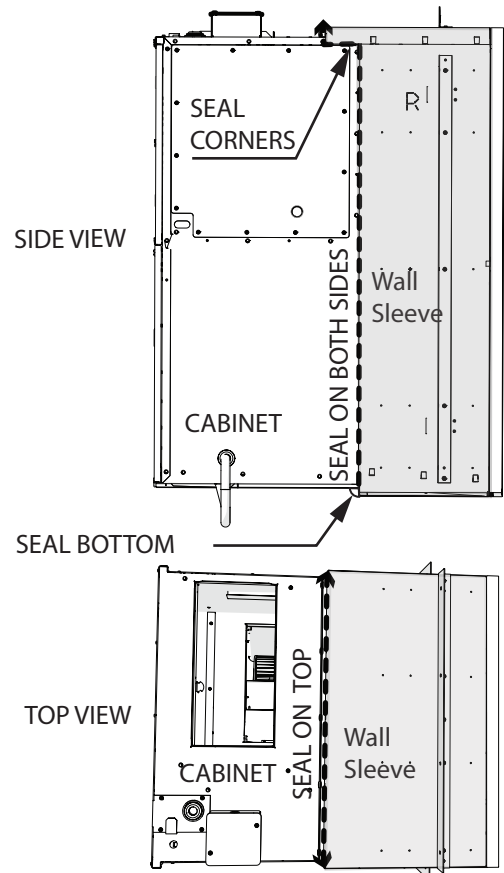
⚠ IMPORTANT ⚠

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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