Technical Specifications

CONFORMS TO ANSI/UL STD. 1995,
CERTIFIED TO CAN/CSA STD. C22.2 NO. 236 AND
ANSI/AHRI STD. 390

PSE - SERIES

Electric Heating / Electric Cooling

Self contained, high efficiency Thru-The-Wall heating & cooling unit
Heating - 5 kW, 7.5 kW, 10 kW, 15 kW
Cooling - 12800 Btuh, 16500 Btuh, 19500 Btuh, 24400 Btuh

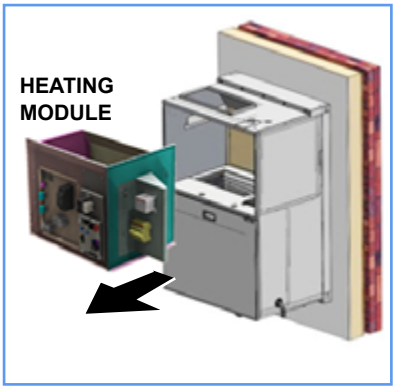
FEATURES

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
- Custom color options are available

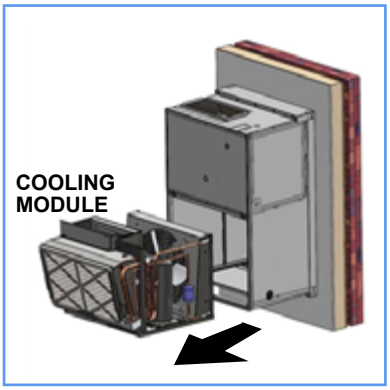
FEATURES

- Up to 15kW Electric Resistance Heating
- Up to 24400 Btuh Cooling
- Up to 10.8 EER with R-410A Refrigerant
- Micro-Channel Condenser and Evaporator Coils
- High efficiency Copeland scroll compressor
- Pre-wired and pre-charged
- Removable heating and cooling module
- Plug-and-play installation and service
- Individual metering and control for each unit



CIRCULATION BLOWER

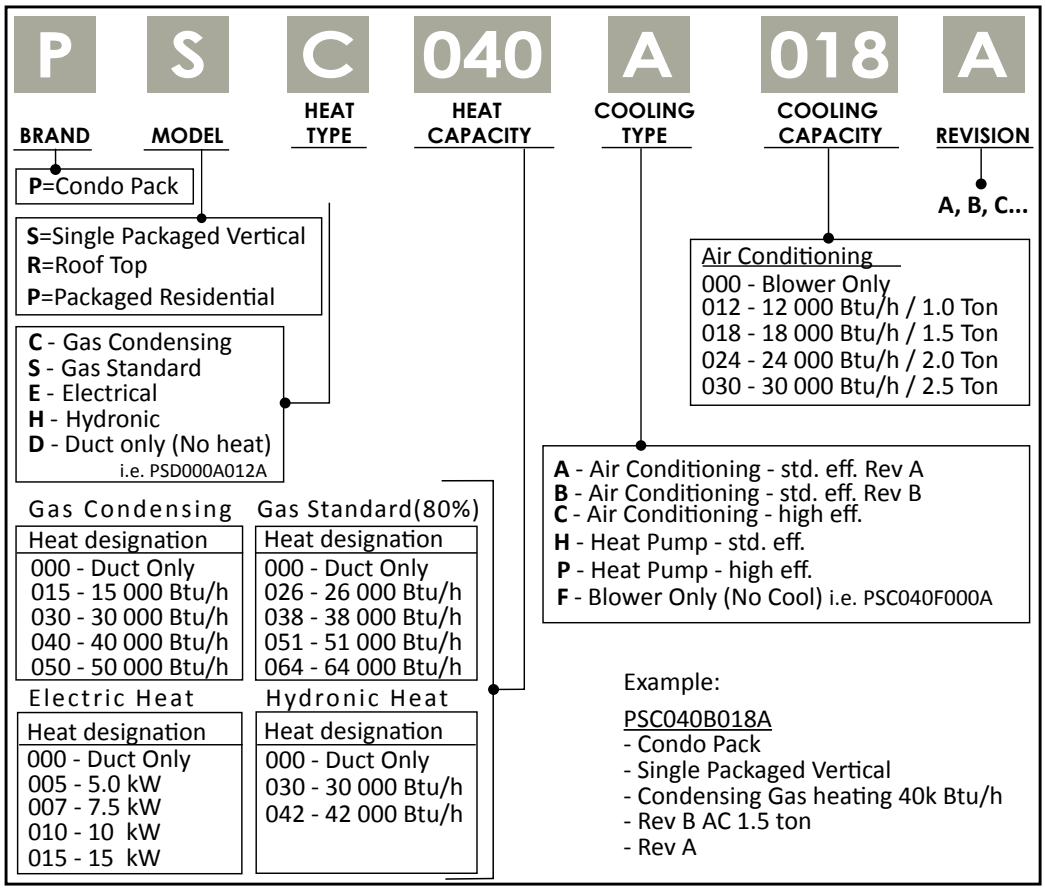
- Dual Inlet Blower for higher flow rates / reduced air noise
- Endura Pro Multi-Speed Electronically Commutated Motor for increased electrical efficiency



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.

NOMENCLATURE



SPECIFICATIONS

PERFORMANCE

TABLE 1.

Model No.	COOLING			HEATING			
	Btuh	EER	CFM	240V		208V	
				Kw/Hr	Btu/Hr	Kw/Hr	Btu/Hr
PSE005A012A	12800	10.8	540	4.8	16300	3.6	12300
PSE005A018A	16500	9.6	740				
PSE005A024A	19500	9.0	740				
PSE005A030A	24400	9.0	960				
PSE007A012A	12800	10.8	450	7.3	24600	5.5	18400
PSE007A018A	16500	9.6	740				
PSE007A024A	19500	9.0	740				
PSE007A030A	24400	9.0	960				
PSE010A012A	12800	10.8	450	9.6	32700	7.2	24600
PSE010A018A	16500	9.6	740				
PSE010A024A	19500	9.0	740				
PSE010A030A	24400	9.0	960				
PSE015A012A	12800	10.8	450	14.4	49100	10.8	36900
PSE015A018A	16500	9.6	740				
PSE015A024A	19500	9.0	740				
PSE015A030A	24400	9.0	960				

ELECTRICAL AND PHYSICAL DATA

TABLE 2.

Model No.	Min. Circuit Ampacity		Max. Overcurrent Protection Fuse / Ckt Breaker (A)		Compressor		Outside Fan			Indoor Blower			
	208V	240V	208V	240V	Comp Rated Load Amps (RLA)	Comp Locked Rotor Amps (LRA)	Dia	Nominal RPM	Rated Load Amps	Cond Mtr. HP	Wheel Dia x Width	Rated Load Amps	HP	Voltage/Hz/Phase	Voltage/Range
PSE005A012A	25.1	28.5	30.0	30.0	5.5	26	18	1075	1	1/6	10 x 6	2.8	1/3	208-230/60/1	197-253
PSE005A018A	25.1	28.5	30.0	30.0	9	48			1	1/6					
PSE005A024A	25.1	28.5	30.0	30.0	13.5	58.3			1	1/6					
PSE005A030A	25.1	28.5	30.0	30.0	12.8	64	19		1.5	1/4					
PSE007A012A	36.5	41.5	40.0	45.0	5.5	26	18		1	1/6					
PSE007A018A	36.5	41.5	40.0	45.0	9	48			1	1/6					
PSE007A024A	36.5	41.5	40.0	45.0	13.5	58.3			1	1/6					
PSE007A030A	36.5	41.5	40.0	45.0	12.8	64	19		1.5	1/4					
PSE010A012A	46.8	53.5	50.0	60.0	5.5	26	18		1	1/6					
PSE010A018A	46.8	53.5	50.0	60.0	9	48			1	1/6					
PSE010A024A	46.8	53.5	50.0	60.0	13.5	58.3			1	1/6					
PSE010A030A	46.8	53.5	50.0	60.0	12.8	64	19		1.5	1/4					
PSE015A012A	68.4	78.5	70	80.0	5.5	26	18		1	1/6					
PSE015A018A	68.4	78.5	70	80.0	9	48			1	1/6					
PSE015A024A	68.4	78.5	70	80.0	13.5	58.3			1	1/6					
PSE015A030A	68.4	78.5	70	80.0	12.8	64	19		1.5	1/4					

Electric heating module components

Model	Circuit Breaker 1	Circuit Breaker 2	Temperature Cut-out- Auto Reset	Fusible Link
CEHM005A	30A	NA	135F open, 95F close	170.6F (77C)
CEHM007A	45A	NA	135F open, 95F close	161.6F (72C)
CEHM010A	60A	NA	135F open, 95F close	170.6F (77C)
CEHM015A	30A	60A	135F open, 95F close	170.6F (77C)

Compressor and condenser fan branch circuit fuse size

Model	Compressor RLA (A)	Condenser Motor FLA (A)	Fuse Size (A)
CACM012A	5.5	1.0	10
CACM018A	9.0	1.0	20
CACM024A	13.5	1.0	30
CACM030A	12.8	1.5	30

*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. Napoleon is a registered trade mark of Wolf Steel Ltd.

AIR FLOW

TABLE 3.

CFM at External Static Pressure (inches of water Column)											
Speed Tap#	**Motor Speed**	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**	**1.0**
1	100%	961	938	914	884	855	819	773	725	651	576
2	85%	892	871	853	839	819	789	750	709	631	569
3	60%	746	723	707	688	663	650	626	598	571	546
4	35%	546	512	492	454	421	386	353	333	318	291
5	25%	455	407	379	332	292	264	250	225		

TABLE 4.

Available Motor speed Taps								
Model No.	**Heating/Cooling Module**	**Setting**	**Speed Tap#**	Model No.	**Heating/Cooling Module**	**Setting**	**Speed Tap#**
PSE005A012A	CEHM005A	FACTORY	5	**PSE007A012A**	CEHM007A	FACTORY	4
		HI	4*			HI	3
	CACM012A	FACTORY	4		CACM012A	FACTORY	5
		HI	3			HI	4*
	G - continuous fan		2		G - continuous fan		2
PSE005A018A	CEHM005A	FACTORY	5	**PSE007A018A**	CEHM007A	FACTORY	4
		HI	4			HI	3*
	CACM018A	FACTORY	3		CACM018A	FACTORY	3
		HI	2			HI	2
	G - continuous fan		1		G - continuous fan		5
PSE005A024A	CEHM005A	FACTORY	5	**PSE007A024A**	CEHM007A	FACTORY	4
		HI	4			HI	3*
	CACM024A	FACTORY	3		CACM024A	FACTORY	3
		HI	2			HI	2
	G - continuous fan		1		G - continuous fan		5
PSE005A030A	CEHM005A	FACTORY	5	**PSE007A030A**	CEHM007A	FACTORY	4
		HI	4			HI	3
	CACM030A	FACTORY	1		CACM030A	FACTORY	1
		HI	NA			HI	NA
	G - continuous fan		3		G - continuous fan		5
PSE010A012A	CEHM010A	FACTORY	4	**PSE015A012A**	CEHM015A	FACTORY	2
		HI	3			HI	1
	CACM012A	FACTORY	5		CACM012A	FACTORY	5
		HI	4*			HI	4
	G - continuous fan		2		G - continuous fan		3
PSE010A018A	CEHM010A	FACTORY	4	**PSE015A018A**	CEHM015A	FACTORY	2
		HI	3*			HI	1
	CACM018A	FACTORY	3		CACM018A	FACTORY	3
		HI	2			HI	2*
	G - continuous fan		5		G - continuous fan		5
PSE010A024A	CEHM010A	FACTORY	4	**PSE015A024A**	CEHM015A	FACTORY	2
		HI	3*			HI	1
	CACM024A	FACTORY	3		CACM024A	FACTORY	3
		HI	2			HI	2*
	G - continuous fan		5		G - continuous fan		5
PSE010A030A	CEHM010A	FACTORY	4	**PSE015A030A**	CEHM015A	FACTORY	2
		HI	3			HI	1*
	CACM030A	FACTORY	1		CACM030A	FACTORY	1
		HI	NA			HI	NA
	G - continuous fan		5		G - continuous fan		5

***IMPORTANT:** Do not use common speed tap for multiple functions; Connecting (any combination of) air conditioning blower speed, heating blower speed, and continuous fan speed to the same motor speed tap will cause the unit to malfunction. Each of the three blower functions must be connected to separate motor speed taps.

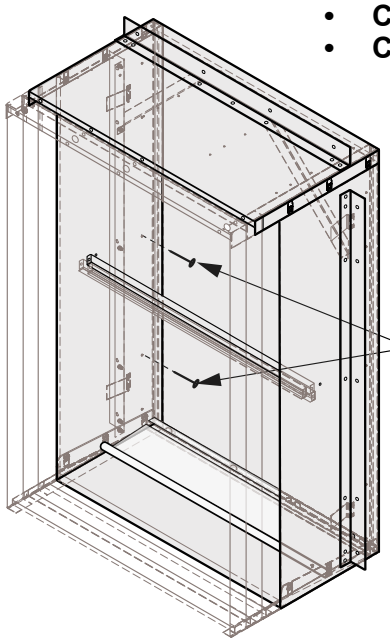
DIMENSIONS

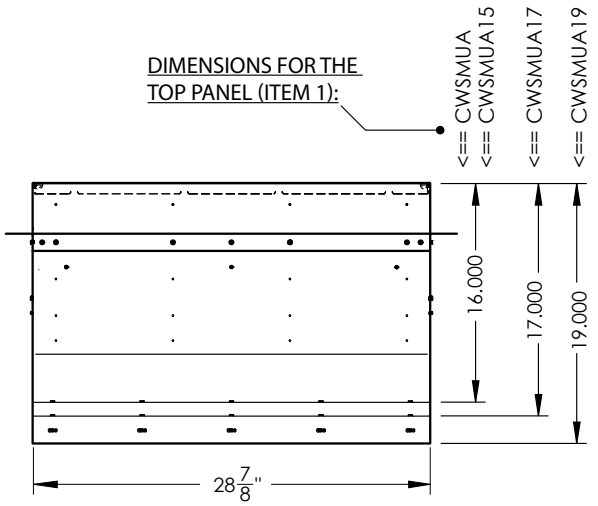
WALL SLEEVE DIMENSIONS

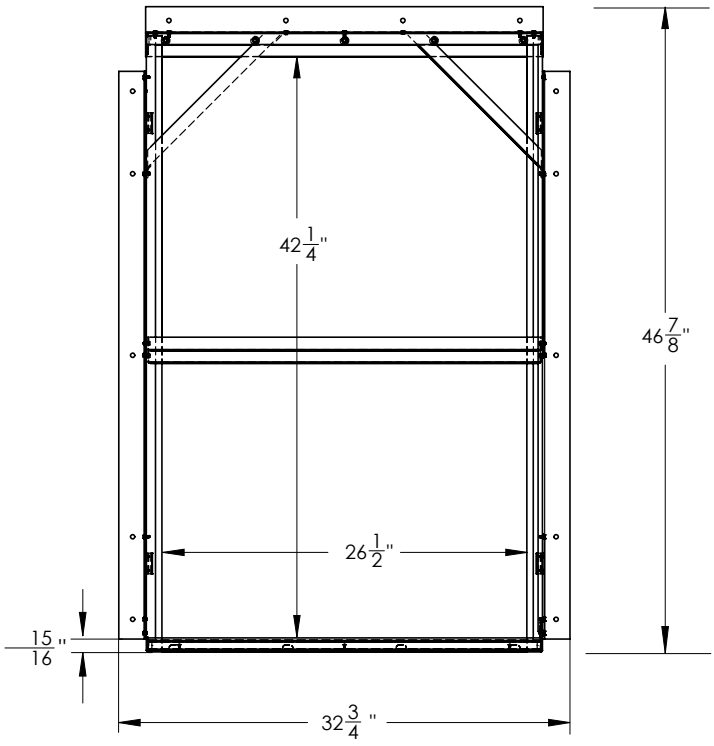
FOUR DIFFERENT WALL SLEEVE MODELS ARE DEPICTED BELOW:

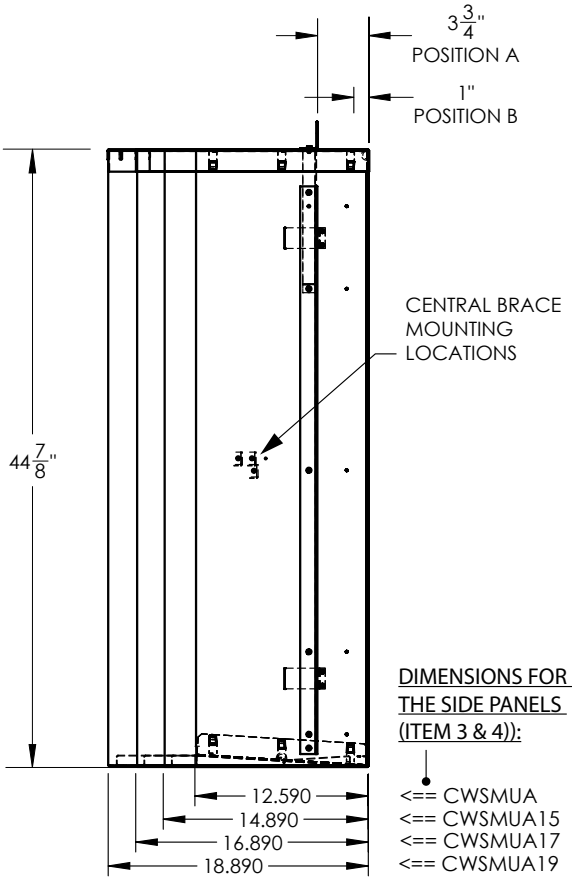
- **CWSMUA**
- **CWSMUA15**
- **CWSMUA17**
- **CWSMUA19**

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.

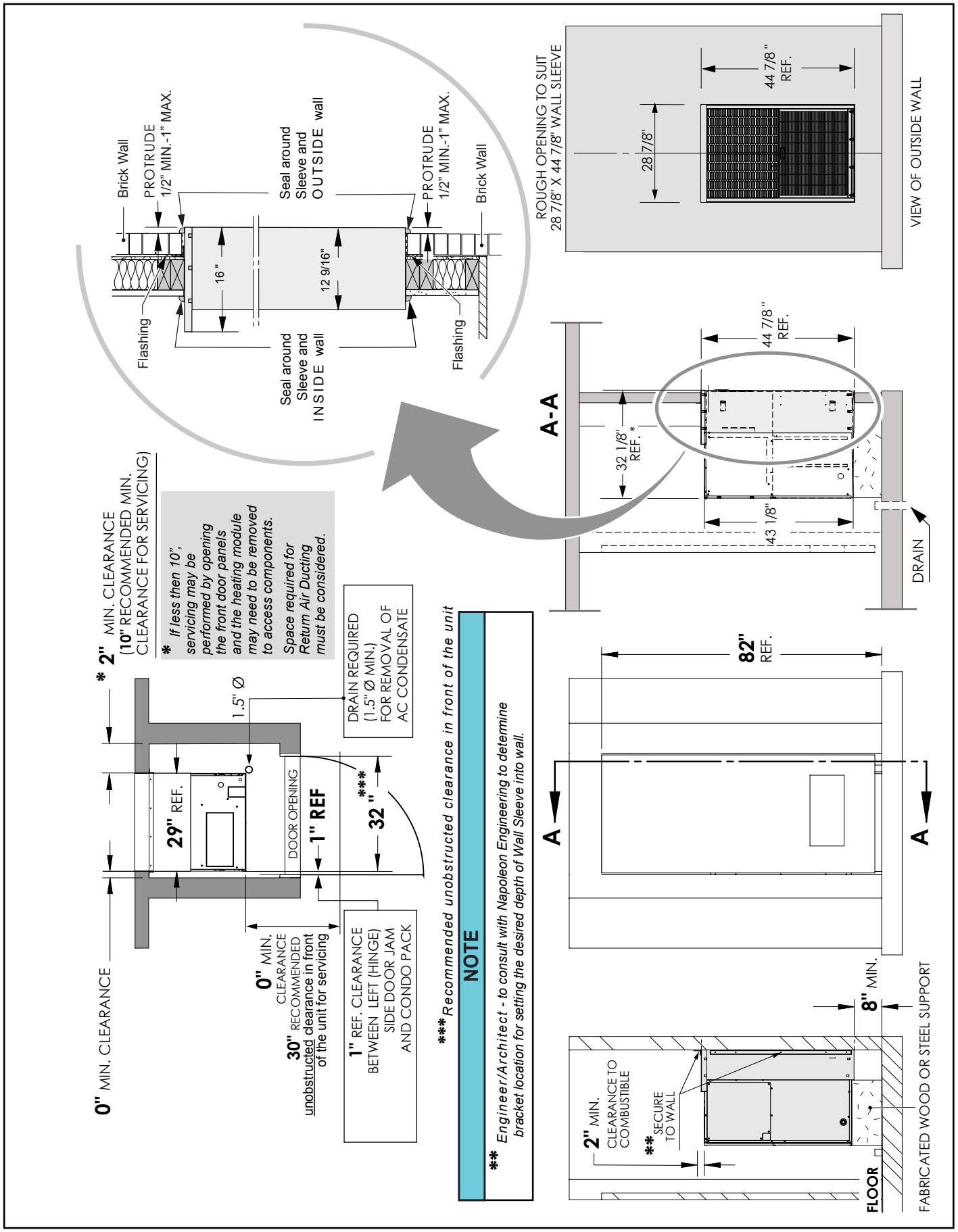




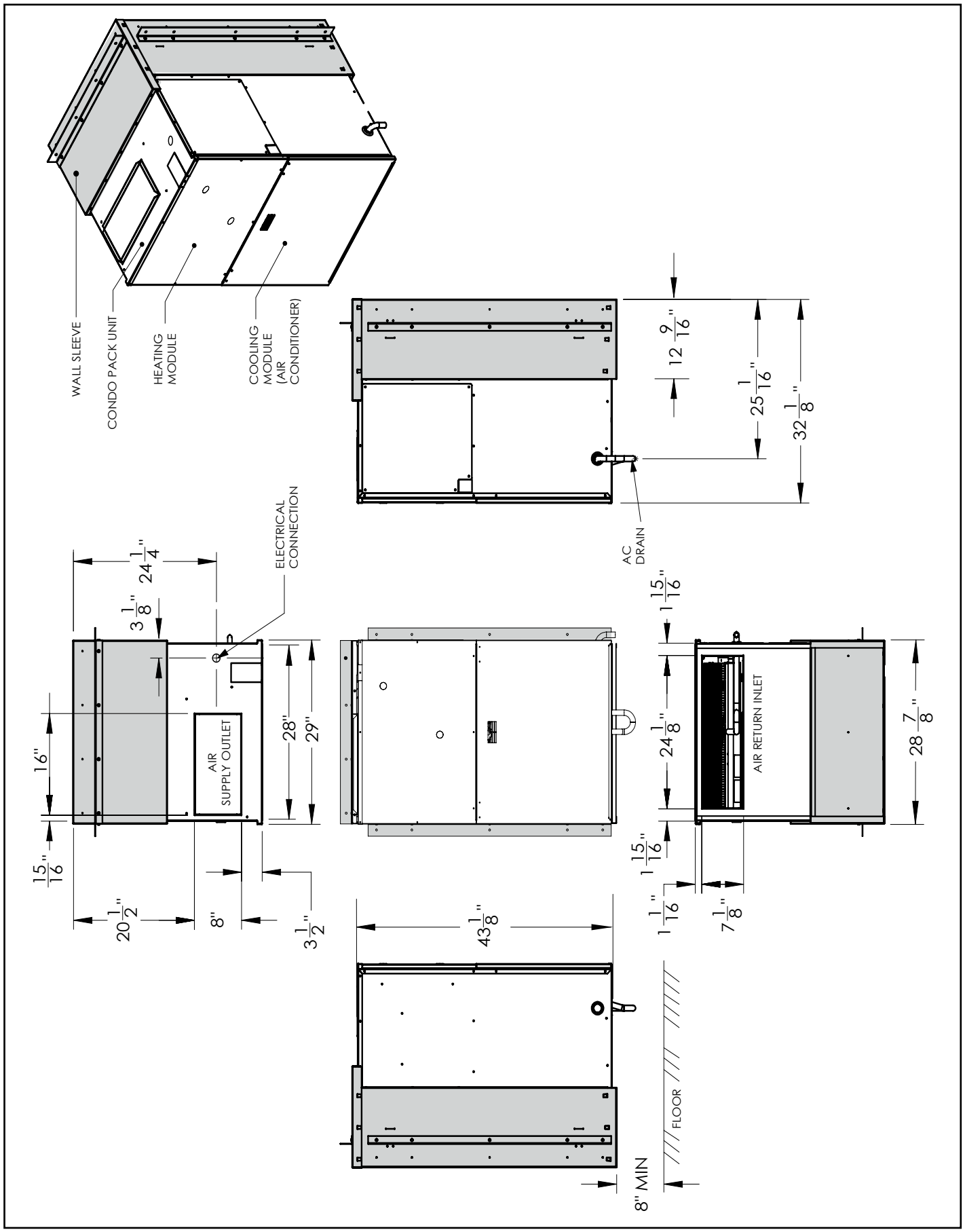




ENCLOSURE FOR CONDO PACK



CONDO PACK SHOWN IN WALL SLEEVE



NAPOLEON

WOLF STEEL

24 Napoleon Road, Barrie, Ontario, Canada L4M 0G8

PHONE: 866-820-8686 • FAX: 705-725-1150
Website: www.napoleonheatingandcooling.com
General: hvac@napoleonproducts.com
Technical inquiries: hvacsupport@napoleonproducts.com

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