



# eco series

COOL-PAK

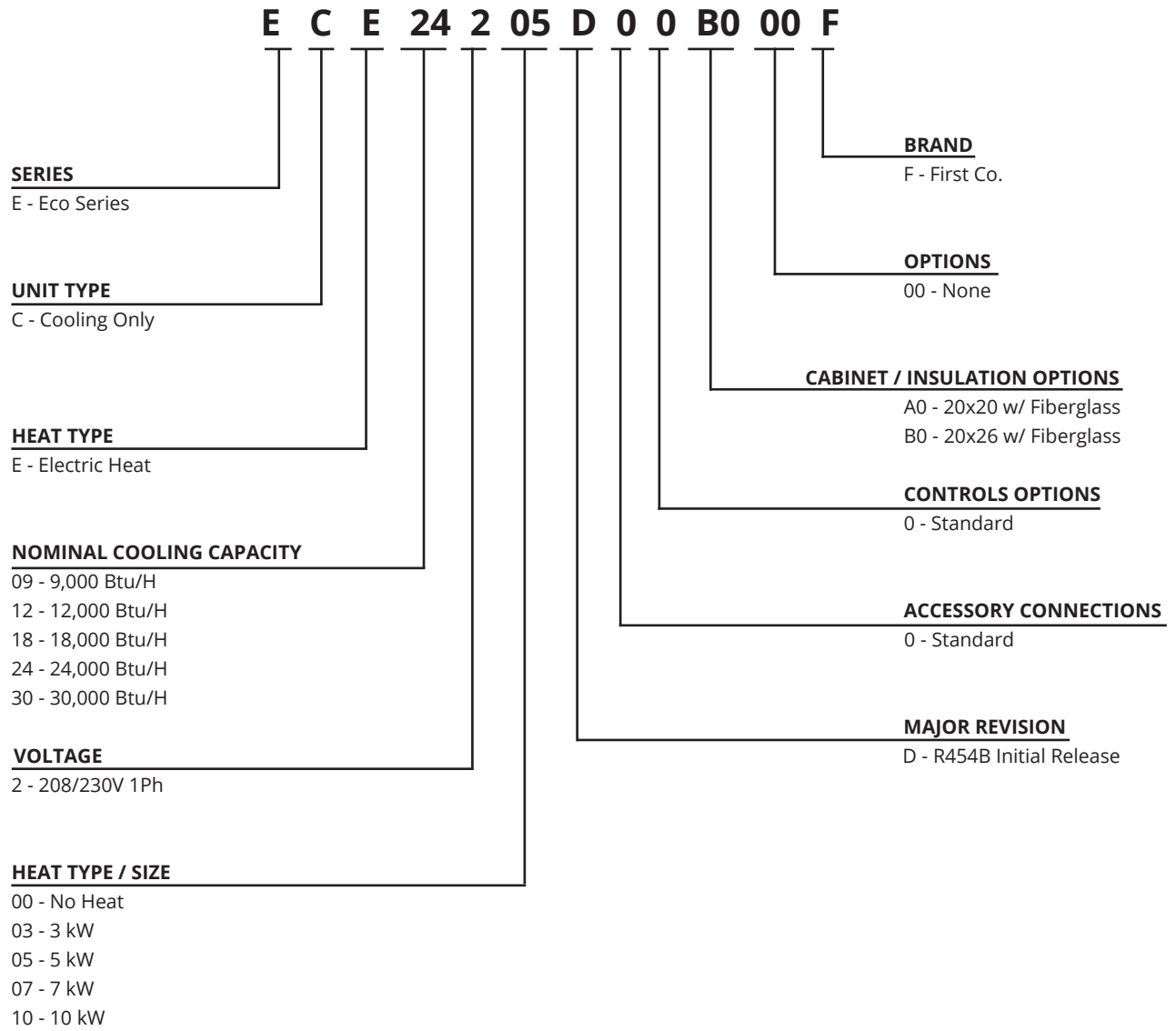
Space Constrained Air Conditioner

- Straight Cool with Electric Heating
- 3/4 - 2.5 tons
- 3 - 10 kW Electric Heat
- 11.7 SEER2



R454B

# Nomenclature



## PRODUCT DESCRIPTION

- Space constrained electric cooling and electric heating
- Pre-wired and pre-charged with R-454B refrigerant, capable of delivering conditioned air to multiple rooms
- Easily installs into a closet or mechanical room on an exterior wall, utilizing a minimal amount of floor space
- Controlled by a standard low voltage thermostat with high and low temperature limits

## APPLICATIONS

Hospitality, Apartments/Condominiums, Assisted Living/Memory Care, Student Housing, Senior Living and Modular/Prefabricated Buildings

## STANDARD FEATURES

- Shipped ready for top supply and front return (with optional ducted return)
- Insulated compartment to improve cooling performance, reduce noise, and prevent sweating
- ECM indoor blower & outdoor fan motor to provide precise airflow selection and improve system efficiency
- High efficiency single stage scroll and rotary compressors with double isolated compressor mount to reduce compressor noise and vibration
- Larger evaporator coil with low face velocity for improved cooling performance
- Drain pan with corrosion resistant coating
- Thermal expansion valve (TXV) to optimize performance
- High and low pressure switch protection
- Electric heat with automatic reset limit switch and non-resettable fuse link
- Filter brackets and disposable filter shipped with unit for field installation; no tool needed to replace filter
- Multi-function microprocessor control board
- Make-up air vent when fully opened allows up to 50 cfm of ventilation air to be introduced into the closet
- Refrigerant leak mitigation on units over 4lbs of charge

## SERVICEABILITY FEATURES

- Easy access for in-place service of most components
- All electrical components and control boards are serviceable from front of the unit

## WARRANTY

Five (5) year limited warranty on compressor and parts.

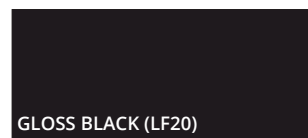
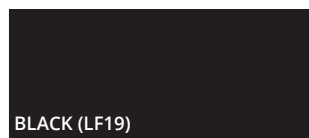
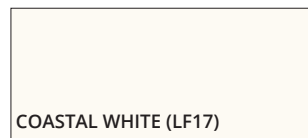
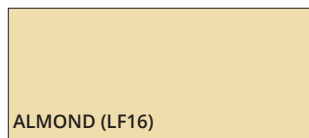
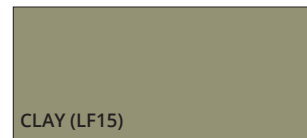
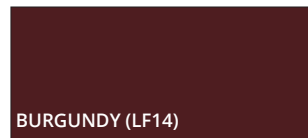
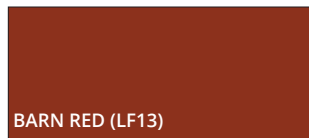
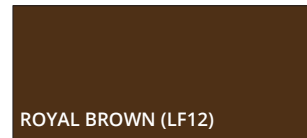
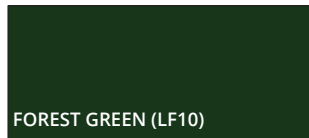
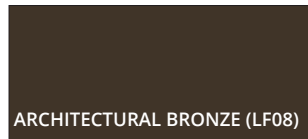
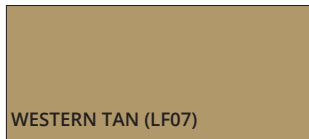
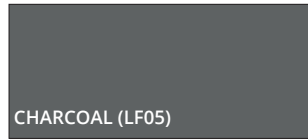
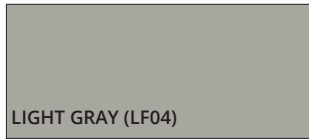
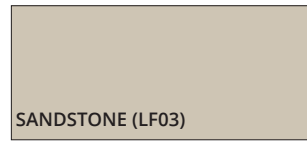
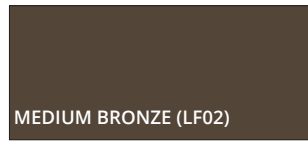
## REQUIRED ACCESSORIES

- Weight bearing wall sleeves for various wall thicknesses from 5" to 20" shipped with weather and debris guard
- Wall sleeves have primary condensate drain connection with secondary overflow to building exterior
- Flush type aluminum louver with finish and paint options
- Standard low voltage thermostat with high and low temperature limits

## OPTIONAL ACCESSORIES

- Interior Access Panels - Louvered or Solid
- Wall sleeves with side access

### STANDARD PAINT COLORS:



# STANDARD UNIT FEATURES:

## FILTER RACK

- Filter Brackets and a disposable filter ship with each unit to be field installed over the evaporator coil.
- NOTE: Do not use filters which will cause the total external static pressure, including ducts, louvers, registers, and filters to exceed 0.5 in. H<sub>2</sub>O

## MULTI-FUNCTION MICROPROCESSOR CONTROL BOARD

**Evaporator coil low temperature protection** – guards against a low temperature condition that could result in ice buildup on the coil or reduced air flow, a temperature sensor attached to the coil will de-energize the unit. The sensor will re-energize the unit when the coil warms up to an acceptable temperature.

**Random restart** – When power is turned on after a power outage, a built-in random restart delay of 3-4 minutes prevents all compressors from restarting simultaneously.

**Compressor restart delay** – This delay ensures that system pressures are allowed to equalize before a compressor restart, which extends compressor life.

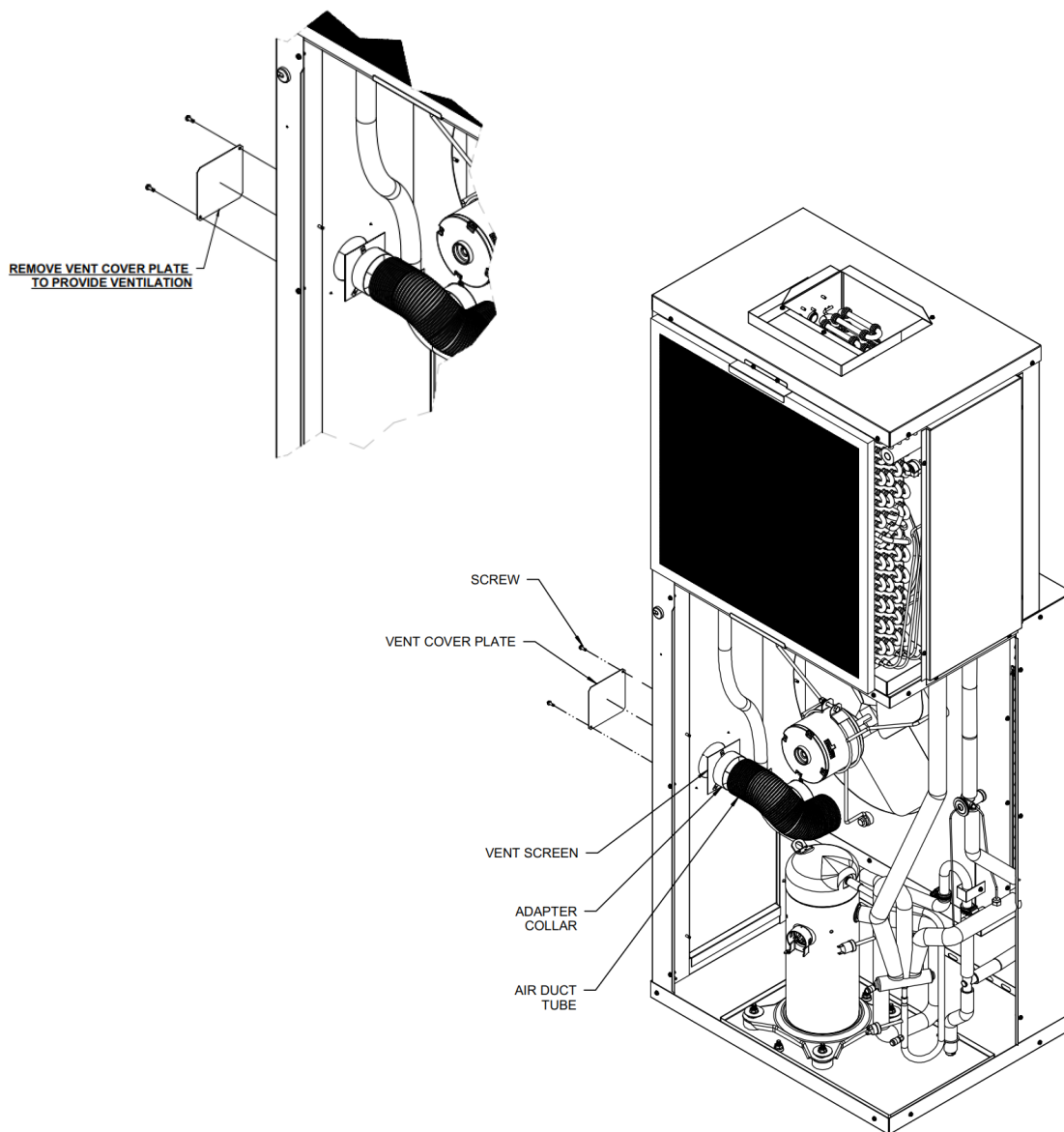
**Fan delay** – A fan delay allows the evaporator blower to continue running for up to 45 seconds after the thermostat is satisfied, which maximizes cooling performance.

**Low voltage fuse protection** - Disconnects the live circuit when the current exceeds a predetermined value.

# VENTILATION AIR

One end of a 3" aluminum vent pipe is connected to the condenser venturi and the other end is connected to the side of the cabinet. A mesh screen and a metal plate on the side of the cabinet covers the opening of the vent pipe.

Up to 50 CFM of ventilation air is introduced into the equipment closet by removing the metal cover plate. The ventilation air mixes with the return air and is then pulled through the evaporator coil and into the supply duct. The cover plate can be reinstalled to partially close the ventilation air opening if less than 50 CFM is desired. An external source of negative pressure (i.e. a bathroom fan) could be used to introduce more than 50 CFM of ventilation air. Consult with factory for further details.



# CONDENSATE SYSTEM

## *Primary Condensate*

Factory installed drain line connects the evaporator drain pan to a vertical pipe connection in the unit base pan. Evaporator condensate is delivered from the unit to a catch tray in the wall sleeve and exits the sleeve through the 3/4" male NPT fitting. This design allows the plumber to completely pipe the drain to a condensate riser during the rough-in stage, thus eliminating condensate connection problems usually encountered when trying to connect the HVAC drain to the riser after the HVAC unit is installed in the closet. This features also allows the unit to be removed for service without disconnecting the condensate piping. This configuration does not require any additional closet space to make the drain connection, as do some competitive products.

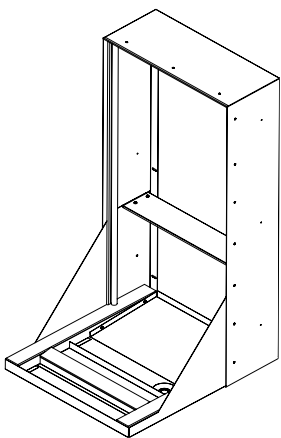
## *Secondary Condensate Overflow*

If for any reason, the primary condensate riser becomes clogged, water will fill the catch tray and then be diverted through the sleeve to the exterior of the building, rather than be allowed to overflow into the closet or living area. Rain water entering the sleeve is automatically diverted to the 3/4" condensate drain.

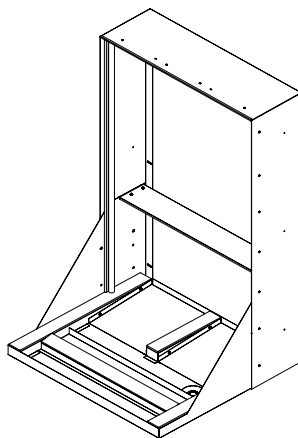
## REQUIRED ACCESSORIES:

### WALL SLEEVES

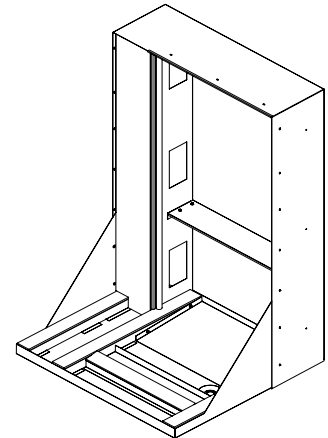
- Provided for installation during rough-in and when ready the unit is simply slid into the wall sleeve and connected to the ductwork and electrical.
- Weight bearing sleeve that supports the entire weight of the unit and provides a weather tight seal against wind and water infiltration.
- Four wall sleeve depths are available to accommodate wall thickness from 5" to 20".
- Includes a weather guard to cover the sleeve opening and a debris guard to cover wall sleeve base and drain during construction.



**Standard Sleeve for 3/4 - 1.5 tons**



**Standard Sleeve for 2.0 - 2.5 tons**



**Oversized Sleeve for 3/4 - 1.5 tons to provide uniform exterior appearance**

# ACCESSORIES




SLEEVE AND LOUVER ACCESSORIES						
ACCESSORY	DESCRIPTION	DIMENSIONS (H x W x D)	STANDARD SLEEVES		SHIP WT. (EA) Lbs.	
			REAR INSTALL <sup>1</sup>	SIDE INSTALL <sup>2</sup>	REAR <sup>5</sup>	SIDE <sup>5</sup>
<b>SMALL CABINET "A" WALL SLEEVES</b>	For 5" - 8" thick walls	43-3/4 x 21-3/8 x 26	936-1B	936-11B	59	64
	For 8" - 12" thick walls	43-3/4 x 21-3/8 x 30	936-2B	936-12B	63	73
	For 12" - 15" thick walls	43-3/4 x 21-3/8 x 33	936-3B	936-13B	68	73
	For 15" - 20" thick walls	43-3/4 x 21-3/8 x 38	936-4B	936-14B	75	80
<b>LARGE CABINET "B" WALL SLEEVES</b>	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	985-1B	985-11B	63	68
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	985-2B	985-12B	68	73
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	985-3B	985-13B	75	80
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	985-4B	985-14B	79	84
<b>SMALL CABINET "A" LARGE WALL SLEEVES WITH BLOCKOFF</b>	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	986-1B	986-11B	63	68
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	986-2B	986-12B	68	73
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	986-3B	986-13B	75	80
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	986-4B	986-14B	79	84
<b>STANDARD LOUVERS CABINET "A" WALL SLEEVES</b>	Custom Painting	44x22	G205S		12	
	For Field Painting	44x22	G205PPA		12	
	Anodized Aluminum	44x22	G205A		12	
<b>STANDARD LOUVERS CABINET "B" LARGE WALL SLEEVES</b>	Custom Painting	44x28	G216S		18	
	For Field Painting	44x28	G216PPA		18	
	Anodized Aluminum	44x28	G216A		18	

**NOTES:**

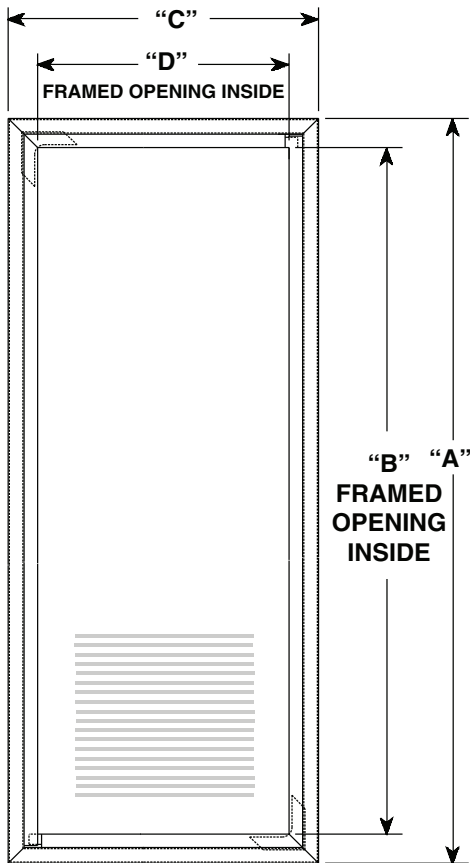
1. Rear install application provides better access to the unit and is recommended over side install wherever possible
2. Side install application requires different closet size and configuration. Contact factory for further information
3. Wind resistant sleeves require the usage of a wind resistant louver
4. S indicates custom color, to be provided by customer. Minimum order quantity is 15 per color, if less than 15 set up fees will be applied
5. All wall sleeves are shipped two (2) per carton, fully assembled.



# ACCESSORIES (CONTINUED)

THERMOSTATS			
<b>Heat Pump (24V)</b> Digital w/emergency heat cool - off - heat, auto - on w/limits-(6-wire)	4 x 5 (Horizontal)	<b>T1220NC</b>	
<b>Programmable (5-2)</b> St. Cool/Ht. Pump (24V) cool-off-heat, auto-on w/em. Ht. & limits (6-wire)	4 x 5 (Horizontal)	<b>T2220NC</b>	
<b>Straight Cool or Heat Pump (24V)</b> Digital Occupancy Sensor	4.3 x 5.7 (Horizontal)	<b>T8532</b>	

OPTIONAL ACCESSORIES (Field Installed)						
COMPONENT	DESCRIPTION	DIMENSIONS (H X W)		PART NUMBER	SHIP WT.	COMES W/ FILTER
ACCESS / RETURN AIR PANEL (3)(4)	LOUVERED (1)	FRAME	OPENING	<b>931-11</b>	55	20 x 24 x 1
		87 X 31	84 X 28			NO
	NON-LOUVERED (2)	87 X 31	84 X 28	<b>931-12</b>		NO
		82 X 31	79 X 28	<b>931-13</b>		20 x 24 x 1
ACCESS / RETURN AIR PANEL (3)(4)	LOUVERED (1)	FRAME	OPENING	<b>931-15</b>	55	20 x 24 x 1
		87 X 37	84 X 34			<b>931-16</b>
	NON-LOUVERED (2)	87 X 37	84 X 34	<b>931-17</b>		20 x 24 x 1
		82 X 37	79 X 34	<b>931-18</b>		NO
9-18 INSULATION KIT	5/8" DUCTBOARD	N/A		<b>91K01</b>	---	---
24 INSULATION KIT				<b>91K02</b>	---	---



	PART NO.	"A"	"B"	"C"	"D"
	<b>931-11(12)</b>	<b>87.00</b>	<b>84.00</b>	<b>31.00</b>	<b>28.00</b>
	<b>931-13(14)</b>	<b>82.00</b>	<b>79.00</b>	<b>31.00</b>	<b>28.00</b>
*	<b>931-15(16)</b>	<b>87.00</b>	<b>84.00</b>	<b>37.00</b>	<b>34.00</b>
*	<b>931-17(18)</b>	<b>82.00</b>	<b>79.00</b>	<b>37.00</b>	<b>34.00</b>

\* For rear installation use with size 24 or 30

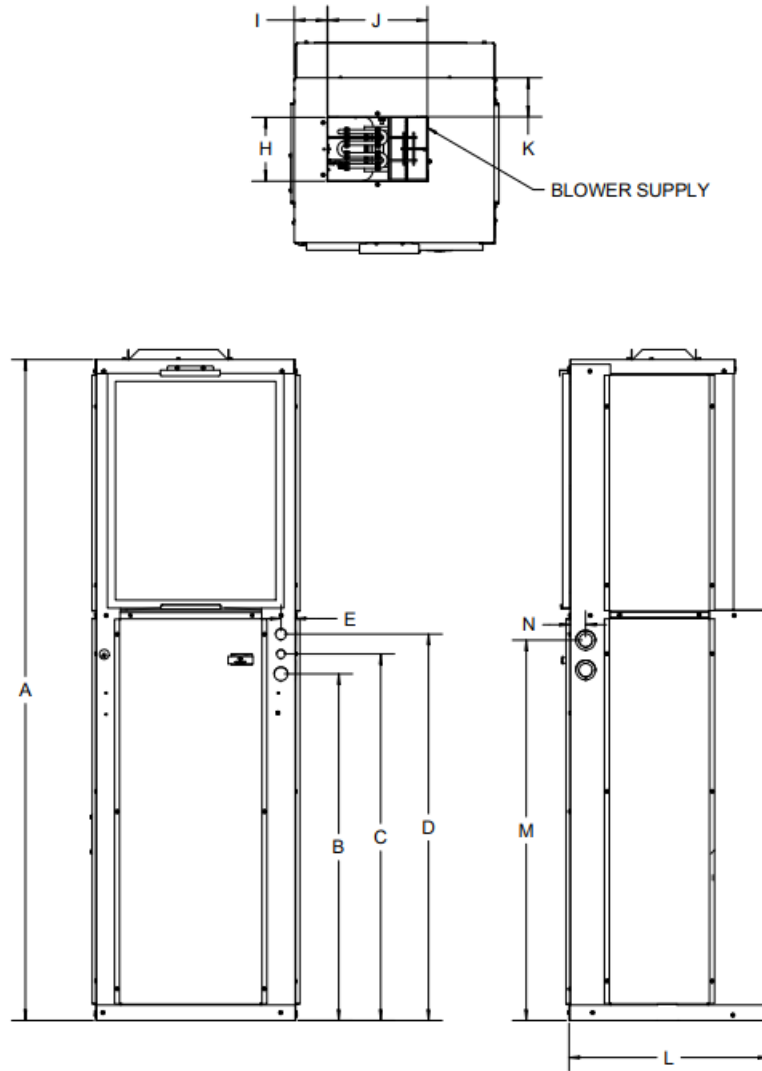
**NOTE:** A solid door or panel with a side wall return air louver will result in lower sound levels.

**NOTES:**

- (1) Includes 18 x 24 x 1 or 20 x 24 x 1 filter.
- (2) Requires external return air louver and unit mount filter.
- (3) Both panels are insulated for sound reduction and have tamperproof screws.
- (4) Panels are shipped ten per carton.

# PHYSICAL DATA

## Unit Dimensions



MODEL NUMBER	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	CABINET DIMENSIONS							SUPPLY CONNECTIONS						
<b>ECE09***B</b>	66.5	34.9	36.9	38.9	1.4	23.6	20.9	6.4	3.3	10.0	3.9	20.1	38.2	1.6
<b>ECE12***B</b>	66.5	34.9	36.9	38.9	1.4	23.6	20.9	6.4	3.3	10.0	3.9	20.1	38.2	1.6
<b>ECE18***B</b>	66.5	34.9	36.9	38.9	1.4	23.6	20.9	6.4	3.3	10.0	3.9	20.1	38.2	1.6
<b>ECE24***B</b>	66.5	34.9	36.9	38.9	1.4	23.7	26.9	10.0	7.9	10.0	3.9	20.1	38.2	1.6
<b>ECE30***B</b>	66.5	34.9	36.9	38.9	1.4	23.7	26.9	10.0	7.9	10.0	3.9	20.1	38.2	1.6

# BLOWER PERFORMANCE

MODEL NUMBER	MOTOR TAP	in. H <sub>2</sub> O STATIC PRESSURE									
		0.10		0.20		0.30		0.40		0.50	
		SCFM	WATTS	SCFM	WATTS	SCFM	WATTS	SCFM	WATTS	SCFM	WATTS
ECE09203*	T1 <sup>H</sup>	308	45	290	45	272	46	254	47	235	48
	T2 <sup>C</sup>	352	58	334	59	316	60	298	60	279	60
	T3	453	95	435	97	417	98	399	98	380	98
ECE12203*	T1 <sup>H</sup>	317	48	300	49	281	49	263	49	244	51
	T2 <sup>C</sup>	453	97	436	98	417	99	398	99	380	100
	T3	510	125	493	126	474	127	456	127	437	128
ECE12205*	T1 <sup>H</sup>	441	92	424	93	405	94	386	94	368	95
	T2 <sup>C</sup>	453	97	436	98	417	99	398	99	380	100
	T3	510	125	493	126	474	127	456	127	437	128
ECE182203*	T1 <sup>H</sup>	392	35	366	40	343	42	311	43	267	47
	T2 <sup>C</sup>	723	143	696	145	673	150	641	153	598	155
	T3	820	206	793	206	770	206	738	202	695	194
ECE182205*	T1 <sup>H</sup>	502	54	476	62	452	64	420	65	377	66
	T2 <sup>C</sup>	723	143	696	149	673	150	641	154	598	155
	T3	820	194	793	202	770	205	738	206	695	206
ECE182207*	T1 <sup>H</sup>	683	123	656	132	633	134	601	135	558	136
	T2 <sup>C</sup>	723	143	696	151	673	155	641	155	598	155
	T3	820	194	793	202	770	203	738	205	695	206
ECE182210*	T1 <sup>H</sup>	820	194	793	202	770	206	738	206	695	206
	T2 <sup>C</sup>	723	143	696	151	673	155	641	155	598	155
	T3	820	194	793	202	770	206	738	206	695	206
ECE24205*	T1 <sup>H</sup>	511	59	481	63	450	66	417	67	378	67
	T2 <sup>C</sup>	788	159	758	163	727	166	694	167	656	167
	T3	883	213	853	218	822	220	789	222	751	222
ECE24207*	T1 <sup>H</sup>	694	117	663	121	632	124	599	125	561	125
	T2 <sup>C</sup>	788	159	758	163	727	166	694	167	656	167
	T3	883	213	853	218	822	220	789	222	751	222
ECE24210*	T1 <sup>H</sup>	829	180	799	185	768	187	735	188	696	189
	T2 <sup>C</sup>	788	159	758	163	727	165	694	166	656	167
	T3	883	213	853	218	822	220	789	221	751	222
ECE30205*	T1 <sup>H</sup>	546	52	516	62	481	70	442	78	400	84
	T2 <sup>C</sup>	894	200	864	210	830	218	790	226	748	233
	T3	983	264	953	274	918	282	879	290	837	297
ECE30207*	T1 <sup>H</sup>	699	95	669	105	635	114	595	122	553	128
	T2 <sup>C</sup>	894	200	864	210	830	218	790	226	748	233
	T3	983	264	953	274	918	282	879	290	837	297
ECE30210*	T1 <sup>H</sup>	832	161	802	171	767	180	728	188	686	194
	T2 <sup>C</sup>	894	200	864	210	830	218	790	226	748	233
	T3	983	264	953	274	918	282	879	290	837	297

<sup>C</sup> Factory Default Cooling Airflow

<sup>H</sup> Factory Default Electric Heat Airflow

T3 is reserved for high static operation

Blower performance data based on a dry coil at 70°F DB EAT with a standard 1" clean air filter

Data is subject to change. Please verify most current information on [www.firstco.com](http://www.firstco.com).

## RATED COOLING & HEATING PERFORMANCE

Model Number	Rated Airflow SCFM	Cooling Capacity 95°F, BTU/H	EER2 95°F	SEER2
ECE09*	350	9000	10.5	11.7
ECE12*	400	11500	10.5	11.7
ECE18*	600	17500	10.5	11.7
ECE24*	800	23500	10.5	11.7
ECE30*	900	27000	10.5	11.7

Ratings subject to change

Electric Heat Ratings						
Model Number	240V		230V		208V	
	kW	BTU/H	kW	BTU/H	kW	BTU/H
ECE09203*	3	10250	2.76	9450	2.25	7700
ECE12203*	3	10250	2.76	9450	2.25	7700
ECE12205*	4.5	15400	4.14	14150	3.375	11550
ECE18203*	3	10250	2.76	9450	2.25	7700
ECE18205*	5	17100	4.6	15700	3.75	12800
ECE18207*	7	23900	6.44	22000	5.25	17950
ECE18210*	9.5	32450	8.74	29850	7.125	24350
ECE24205*	5	17100	4.6	15700	3.75	12800
ECE24207*	7	23900	6.44	22000	5.25	17950
ECE24210*	9.5	32450	8.74	29850	7.125	24350
ECE30205*	5	17100	4.6	15700	3.75	12800
ECE30207*	7	23900	6.44	22000	5.25	17950
ECE30210*	9.5	32450	8.74	29850	7.125	24350

Data is subject to change. Please verify most current information on [www.firstco.com](http://www.firstco.com).

## EXTENDED PERFORMANCE DATA

Model Number	Indoor Temp DB/ WB	Airflow	Outdoor Temperature °F								
			65			75			85		
			BTUH	S/T	W	BTUH	S/T	W	BTUH	S/T	W
ECE09*	75/57	350	9100	1.00	600	8700	1.00	700	8300	1.00	800
	75/63		10200	0.76	600	9700	0.78	700	9100	0.79	800
	80/67		11100	0.73	600	10600	0.74	700	10000	0.76	800
	85/72		12300	0.65	600	11700	0.66	700	11200	0.68	800
ECE12*	75/57	400	12200	1.00	800	11300	1.00	900	10800	1.00	900
	75/63		12900	0.75	800	12200	0.77	900	11500	0.79	1000
	80/67		13900	0.72	800	13100	0.74	900	12300	0.76	1000
	85/72		15200	0.62	800	14400	0.63	900	13600	0.65	900
ECE18*	75/57	600	18100	1.00	1100	17300	1.00	1200	16400	1.00	1400
	75/63		19200	0.79	1100	18200	0.81	1300	17200	0.84	1400
	80/67		20400	0.77	1200	19500	0.79	1300	18400	0.81	1500
	85/72		22100	0.70	1200	21000	0.72	1400	19900	0.74	1500
ECE24*	75/57	800	24800	1.00	1700	23700	1.00	1900	22100	1.00	2100
	75/63		26300	0.75	1700	25000	0.77	1900	23600	0.79	2100
	80/67		28100	0.73	1700	26700	0.75	1900	25300	0.76	2100
	85/72		30700	0.66	1700	29100	0.68	1900	27500	0.69	2100
ECE30*	75/57	900	26700	0.99	1900	25700	1.00	2100	24900	1.00	2300
	75/63		29400	0.72	1900	28000	0.74	2100	26500	0.75	2300
	80/67		31300	0.69	1900	29800	0.71	2100	28300	0.72	2300
	85/72		34100	0.63	1900	32300	0.64	2100	30800	0.65	2300

Model Number	Indoor Temp DB/ WB	Airflow	Outdoor Temperature °F								
			95			105			115		
			BTUH	S/T	W	BTUH	S/T	W	BTUH	S/T	W
ECE09*	75/57	350	7900	1.00	800	7500	1.00	900	7100	1.00	1000
	75/63		8600	0.82	800	8100	0.84	900	7500	0.87	1000
	80/67		9400	0.78	800	8900	0.81	900	8300	0.83	1000
	85/72		10600	0.70	900	9900	0.72	1000	9300	0.74	1000
ECE12*	75/57	400	10200	1.00	1000	9600	1.00	1100	9000	1.00	1200
	75/63		10800	0.81	1000	10000	0.84	1100	9300	0.88	1200
	80/67		11600	0.78	1000	10800	0.82	1100	10000	0.85	1200
	85/72		12700	0.67	1000	11900	0.69	1100	11000	0.72	1300
ECE18*	75/57	600	15600	1.00	1500	14700	1.00	1700	13800	1.00	1800
	75/63		16200	0.86	1500	15200	0.90	1700	14100	0.93	1800
	80/67		17300	0.84	1600	16200	0.87	1700	15100	0.91	1900
	85/72		18700	0.76	1700	17500	0.79	1800	16400	0.83	2000
ECE24*	75/57	800	21000	1.00	2300	19800	1.00	2600	18600	1.00	3000
	75/63		22200	0.81	2300	20900	0.84	2600	19400	0.87	3000
	80/67		23800	0.79	2400	22300	0.81	2600	20800	0.84	3000
	85/72		26000	0.71	2400	24300	0.73	2700	22400	0.75	3000

Extended cooling performance data tabulated based off test at rated Airflow at .3 in. H<sub>2</sub>O of external static.

Data is subject to change. Please verify most current information on [www.firstco.com](http://www.firstco.com).

# ELECTRICAL DATA

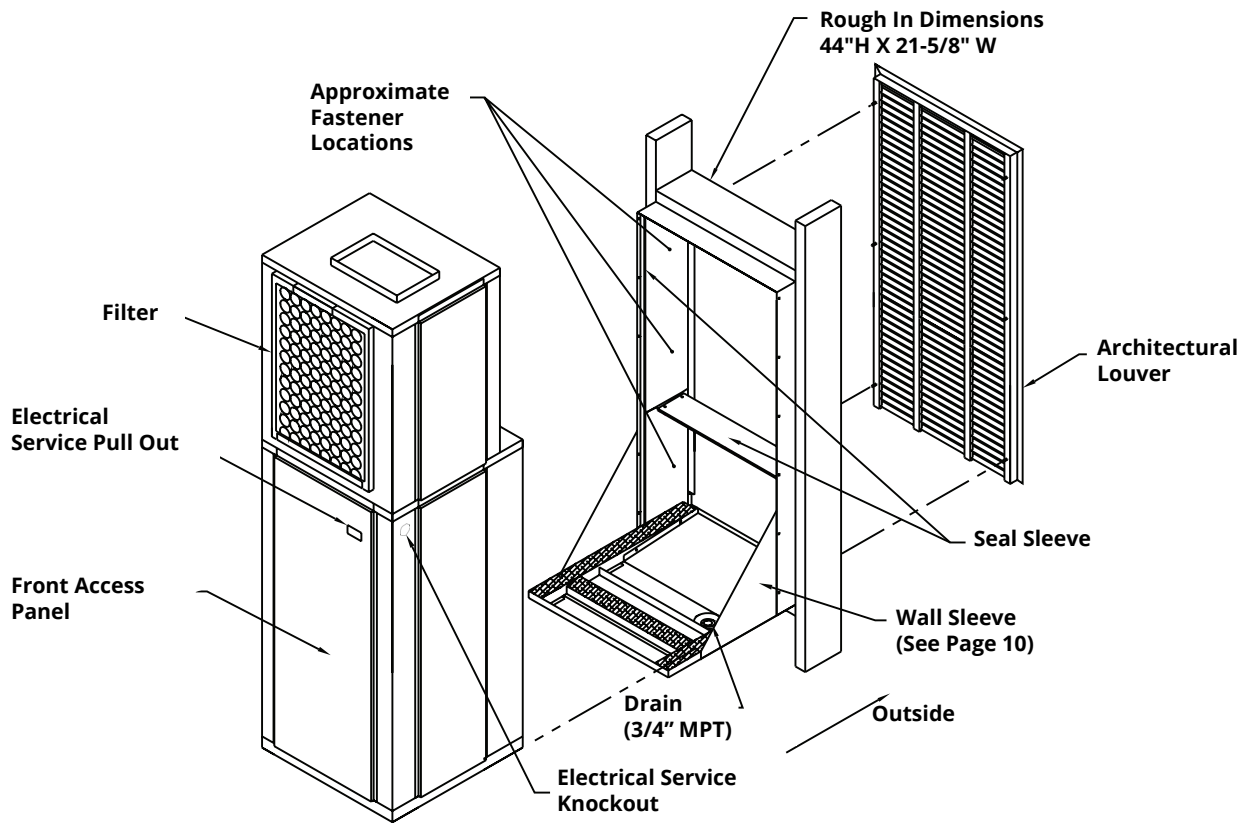
Model Number	Electrical Heat Size	COMPRESSOR		CONDENSER MOTOR		EVAPORATOR MOTOR		MIN. CIRCUIT AMPACITY (MCA)		MAX. CIRCUIT PROTECTION (MOCP)	
		RLA	LRA	FLA	HP	AMPS	HP	240V	208V	240V	208V
ECE09200*	0.00	4.4	20	2.3	1/4	2.3	1/4	11	11	15	15
ECE09203*	3.00	3.9	-	2.3	1/4	2.3	1/4	19	17	20	20
ECE12200*	0.00	4.7	-	2.3	1/4	2.3	1/4	12	12	15	15
ECE12203*	3.00	4.8	-	2.3	1/4	2.3	1/4	19	17	20	20
ECE12205*	4.50	4.8	-	2.3	1/4	2.3	1/4	27	24	30	25
ECE18200*	0.00	9	-	2.3	1/4	2.8	1/3	16	16	20	20
ECE18203*	3.00	7.5	-	2.3	1/4	2.8	1/3	20	18	20	20
ECE18205*	5.00	7.5	-	2.3	1/4	2.8	1/3	30	27	30	30
ECE18207*	7.00	7.5	-	2.3	1/4	2.8	1/3	40	36	40	40
ECE18210*	9.50	7.5	-	2.3	1/4	2.8	1/3	53	47	55	50
ECE24200*	0.00	10.1	-	2.3	1/4	2.8	1/3	21	21	30	30
ECE24205*	5.00	11.4	51	2.3	1/4	2.8	1/3	30	27	30	30
ECE24207*	7.00	11.4	51	2.3	1/4	2.8	1/3	40	36	40	40
ECE24210*	9.50	11.4	51	2.3	1/4	2.8	1/3	53	47	55	50
ECE30200*	0.00	12.8	-	2.8	1/3	2.8	1/3	22	22	30	30
ECE30205*	5.00	11.7	71	2.8	1/3	4.1	1/2	32	28	35	30
ECE30207*	7.00	11.7	71	2.8	1/3	4.1	1/2	42	37	45	40
ECE30210*	9.50	11.7	71	2.8	1/3	4.1	1/2	55	48	55	50

Refer to the wiring diagrams in the ECE Installation and Operation Manual for additional details.

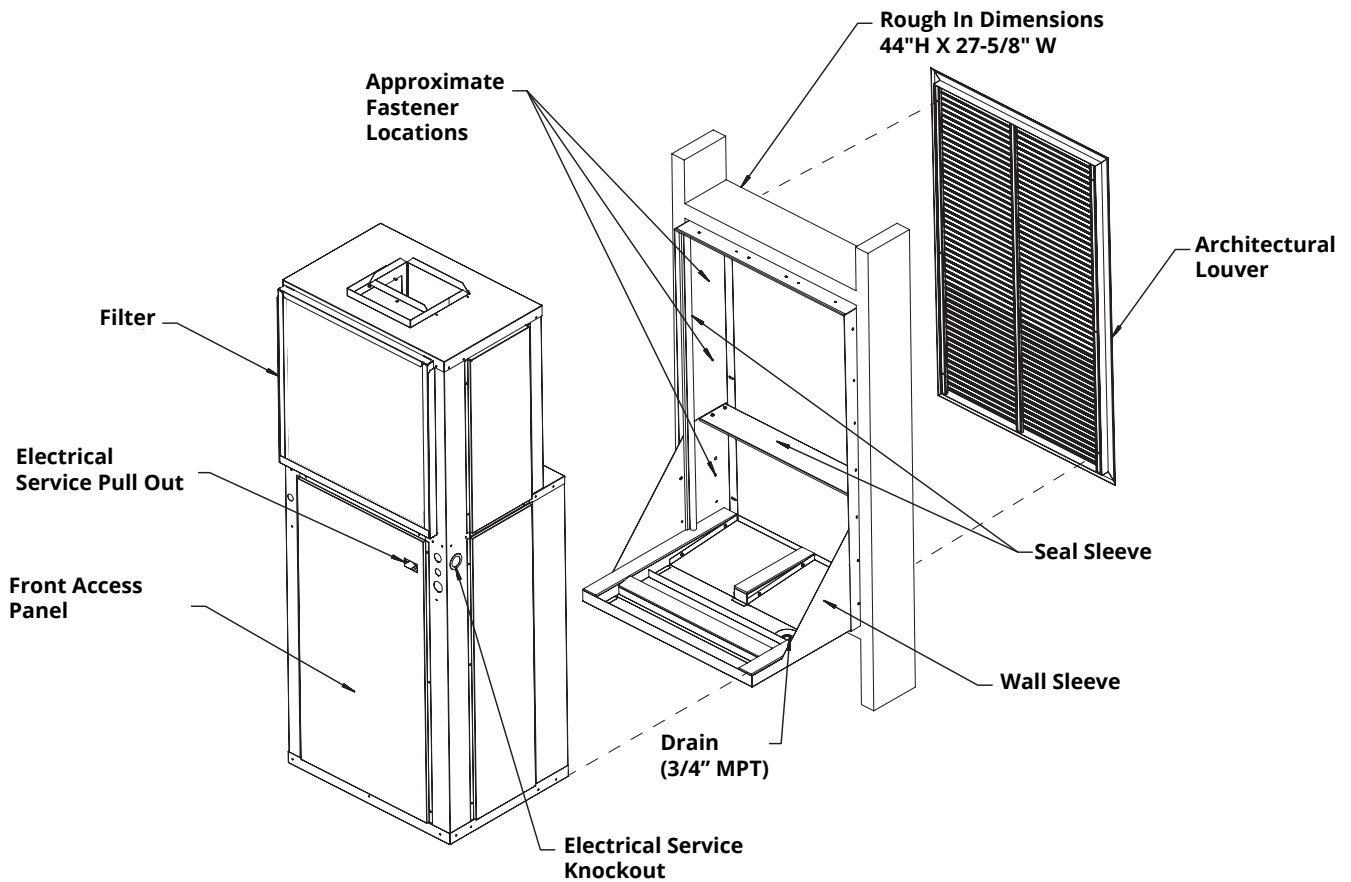
Wire size should be determined in accordance with National Electric Codes.

Unit are rated for 208/230V, but MOP, MCA values are calculated at 208/240V.

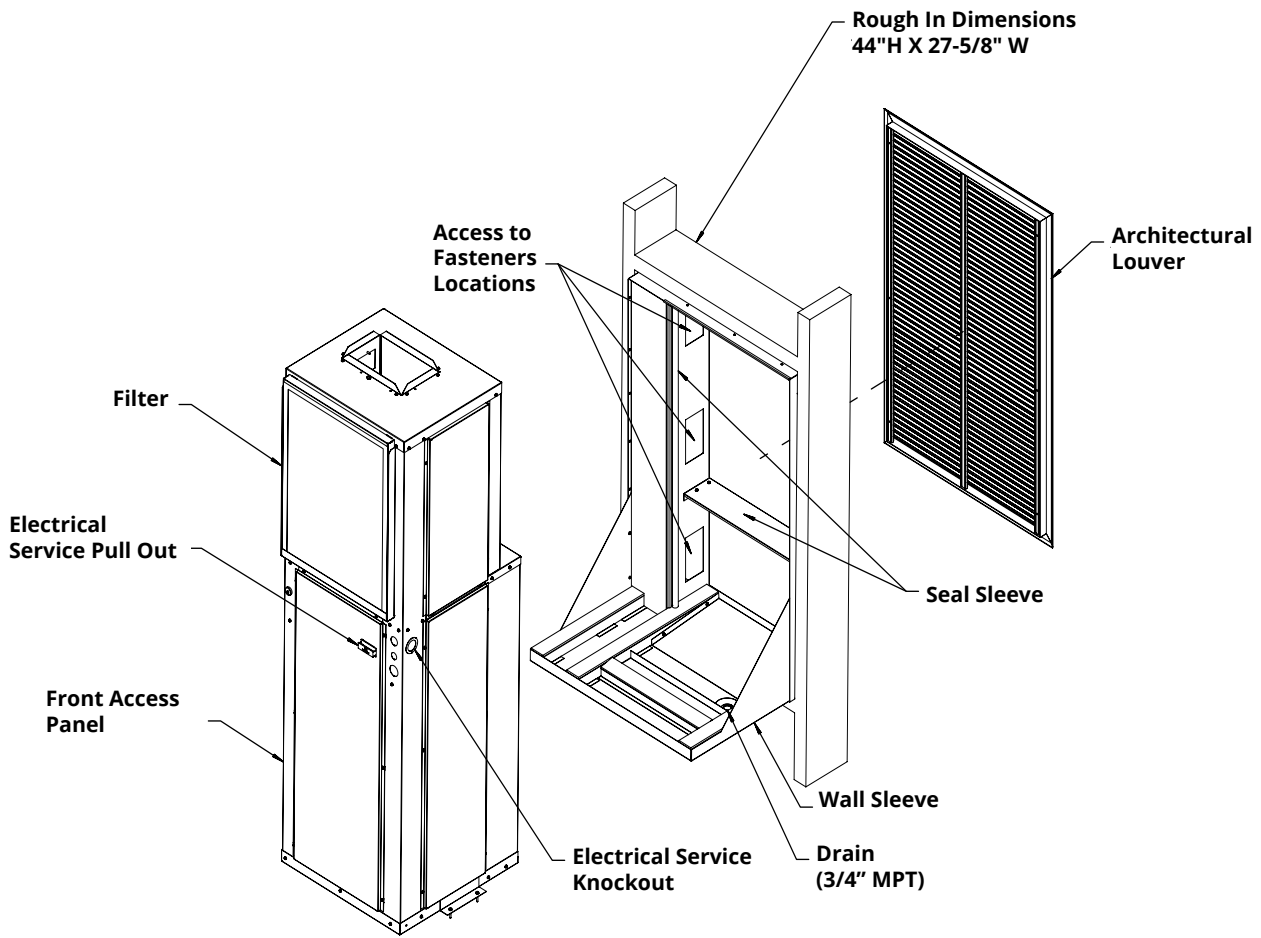
Data is subject to change. Please verify most current information on [www.firstco.com](http://www.firstco.com).



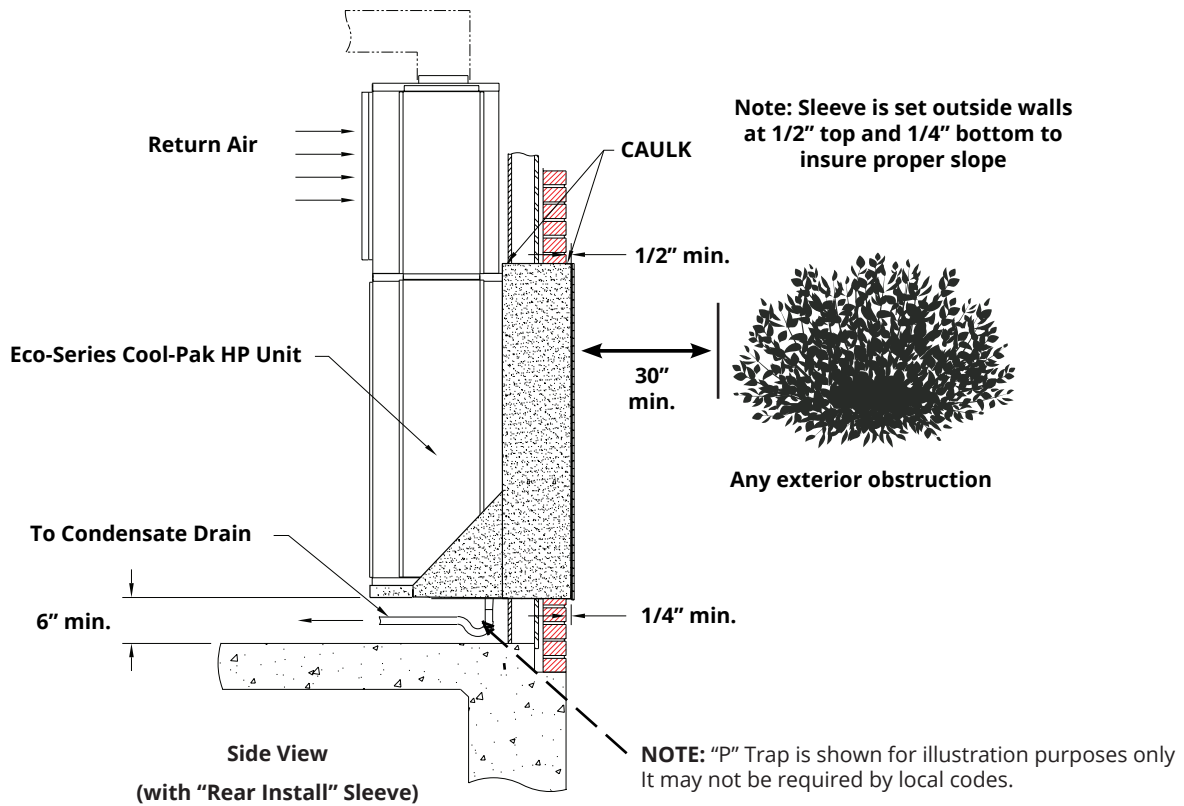
**General Assembly for Standard Sleeve and Louver**



**General Assembly for Large Sleeve and Louver Size 24**

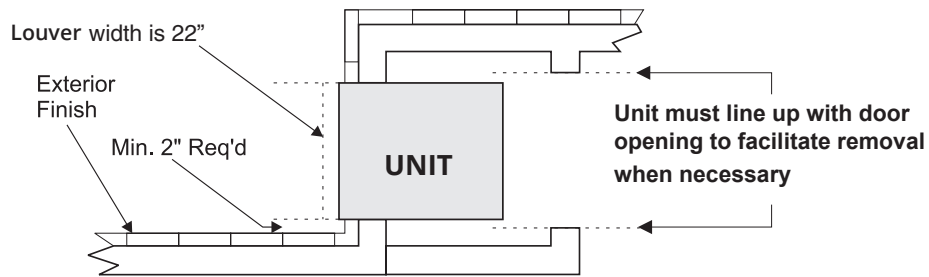


**General Assembly for Large Sleeve and Louver for 09-18 Sizes with Block Off**





# CLOSET DIMENSIONS



**NOTES:**

1. Sleeve rough-in opening is 44"(H) X 21-5/8"(W).
2. Bottom of opening should be approx. 6" above floor level.
3. Minimum 3" of clearance is required on all sides of the unit.
4. Note Wind Resistant Louver is 3/4" larger

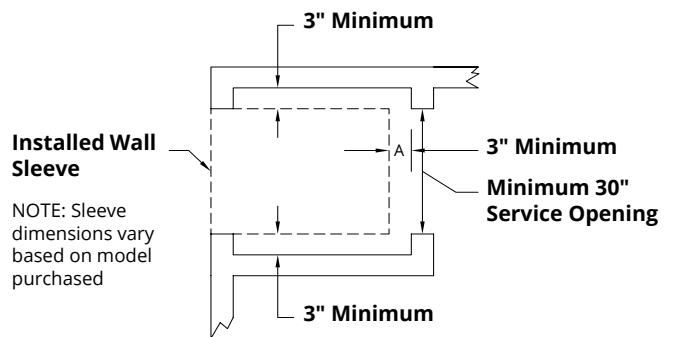
## Rear Installation Detail for Small Sleeve 21" Wide (9-18 only)

**INSTRUCTIONS:**

To find the minimum closet depth (dimension "C"), use the following method:

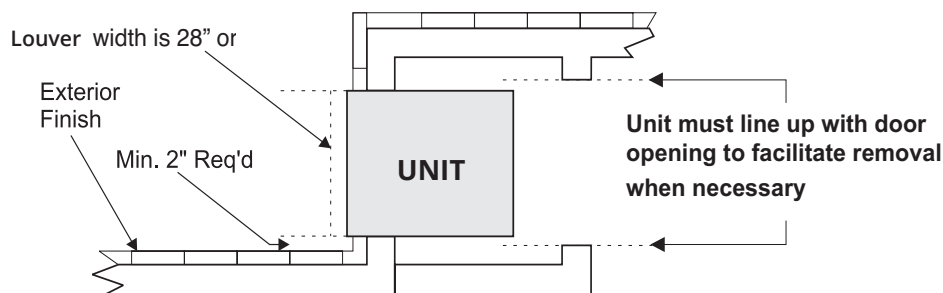
Determine dimension "A" which is the total finished wall thickness.

- For 5"-8" outside wall thickness, subtract "A" from 29".  
("C" = 29 - "A")
- For 8"-12" outside wall thickness, subtract "A" from 33".  
("C" = 33 - "A")
- For 12"-15" outside wall thickness, subtract "A" from 36".  
("C" = 36 - "A")



NOTE: Provide minimum clearances as shown for interior closet dimensions.

## Rear Installation Detail for Large Sleeve 27" Wide (24,30 Size or 9-18 with Blockoff)



**NOTES:**

1. Sleeve rough-in opening is 44"(H) X 27-5/8"(W).
2. Bottom of opening should be approx. 6" above floor level.
3. Minimum 3" of clearance is required on all sides of the unit.
4. Note Wind Resistant Louver is 3/4" larger

# CLOSET DIMENSIONS (CONT.)

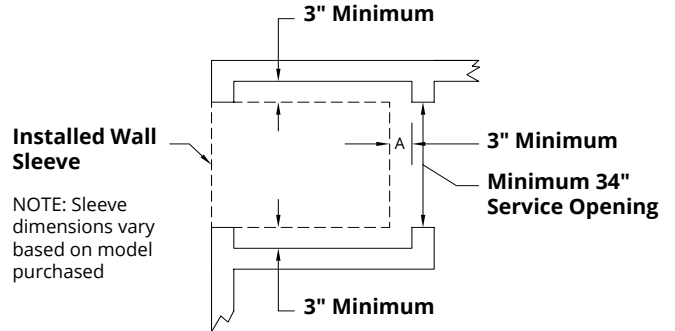
## Rear Installation Detail for Large Sleeve 27" Wide (24,30 size or 9-18 with Blockoff)

### INSTRUCTIONS:

To find the minimum closet depth (dimension "C"), use the following method:

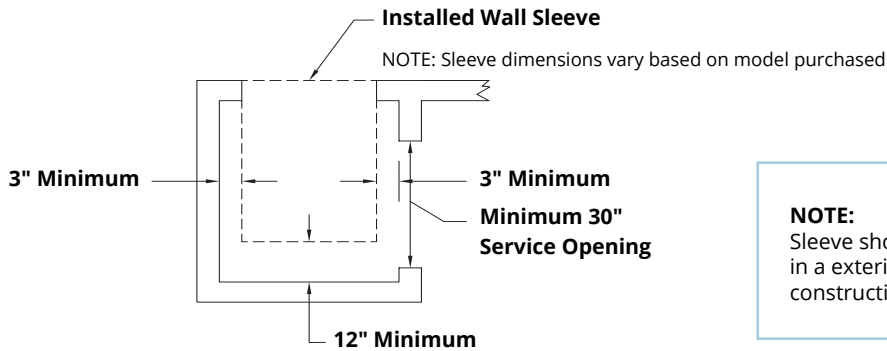
Determine dimension "A" which is the total finished wall thickness.

- For 5"-8" outside wall thickness, subtract "A" from 39".  
("C" = 39 - "A")
- For 8"-12" outside wall thickness, subtract "A" from 43".  
("C" = 43 - "A")
- For 12"-15" outside wall thickness, subtract "A" from 46".  
("C" = 46 - "A")



NOTE: Provide minimum clearances as shown for interior closet dimensions.

## Side Installation Detail for Small Sleeve 21" Wide (9-18 size only)



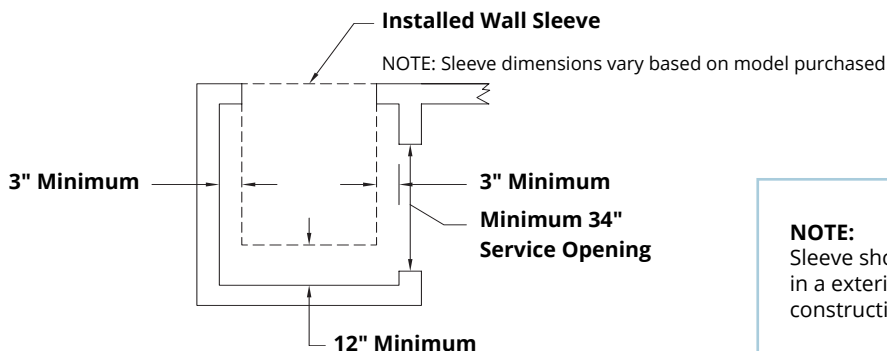
### Notes:

1. Sleeve rough-in opening is 44"(H) X 21-5/8"(W).
2. Bottom of opening should be approx. 6" above floor level.
3. Minimum 3" of clearance is required on the sides of the unit and 12" clearance on the rear

### NOTE:

Sleeve should be installed in a exterior wall prior to constructing the closet.

## Side Installation Detail for Large Sleeve 27" Wide (24 or 30 or 9-18 with Blockoff)



### Notes:

1. Sleeve rough-in opening is 44"(H) X 27-5/8"(W).
2. Bottom of opening should be approx. 6" above floor level.
3. Minimum 3" of clearance is required on the sides of the unit and 12" clearance on the rear of the unit .

### NOTE:

Sleeve should be installed in a exterior wall prior to constructing the closet.



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APRIL 2024