



FIRST CO.
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WWW.FIRSTCO.COM

eco series

FRESH-PAK™

Single Package Vertical Unit With ERV

Straight Cool and Heat Pump and Hydronic Heating

3/4 through 2 tons, up to 10 kW Electric Heat

11.00 EER



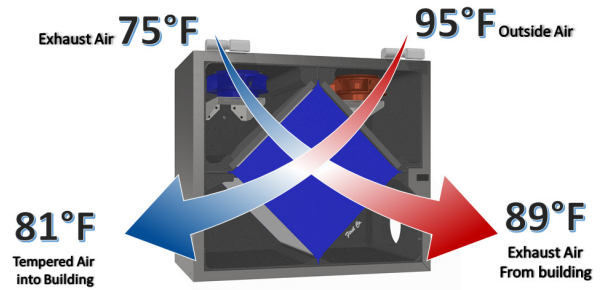
What is ERV?

ERV (Energy Recovery Ventilator) is a device that uses waste/stale air to precondition outside incoming fresh air for ventilation.

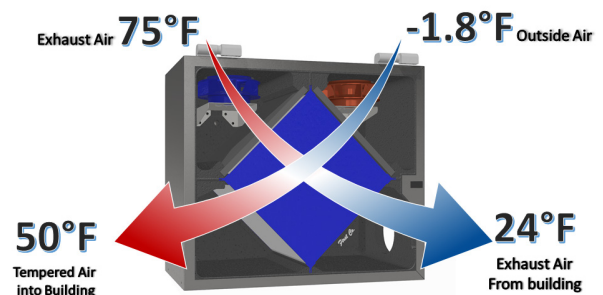
ERV uses a plate heat exchanger to transfer temperature (sensible energy) and moisture (latent energy) from waste air to incoming ventilation air. It will cool the air in the warmer months and warm the air in the coldest months.

Modern/tighter construction requirements that create better seals to prevent drafts result in stale moist air buildups and lack of fresh air within spaces. The ERV offers the solution to bring in fresh air while removing stale moist air from the inside.

How it works during summer months

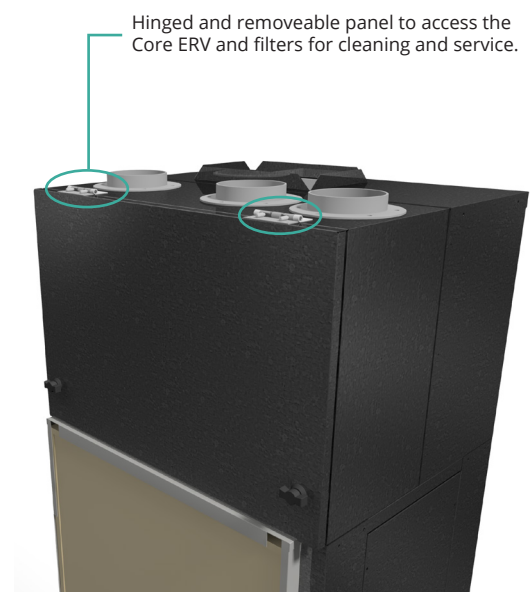


How it works during winter months



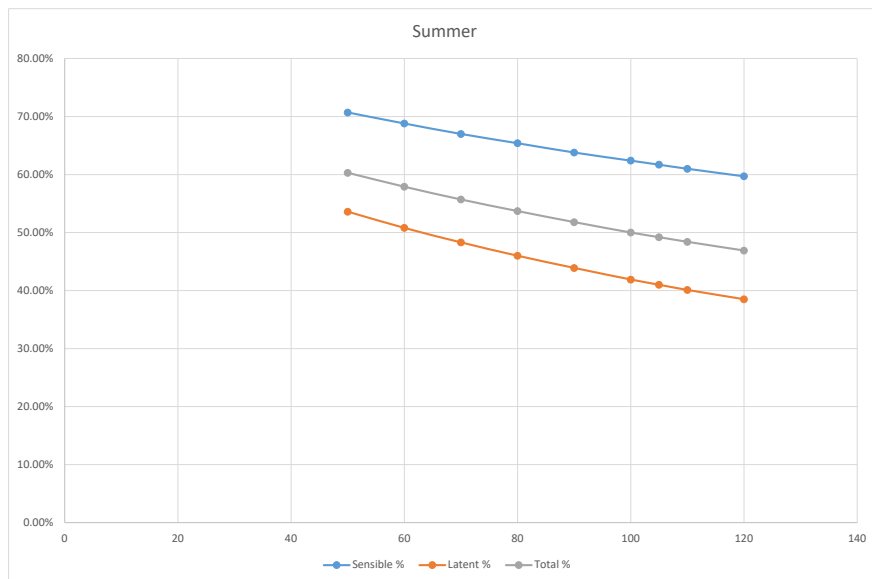
Defrost – The ERV will sense when the exhaust drops below the set temperature and will activate the built-in multistage defrost mode. The first stage will reduce the fan speed to help warm up the core and prevent freezing. The second stage will, if optioned, activate the available electric preheater.

The ERV will cycle between defrost and normal operation until the temperature rises to the set point. It can be field configured so that the supply fan can be switched off while the exhaust runs to warm up the core.



ERV Data

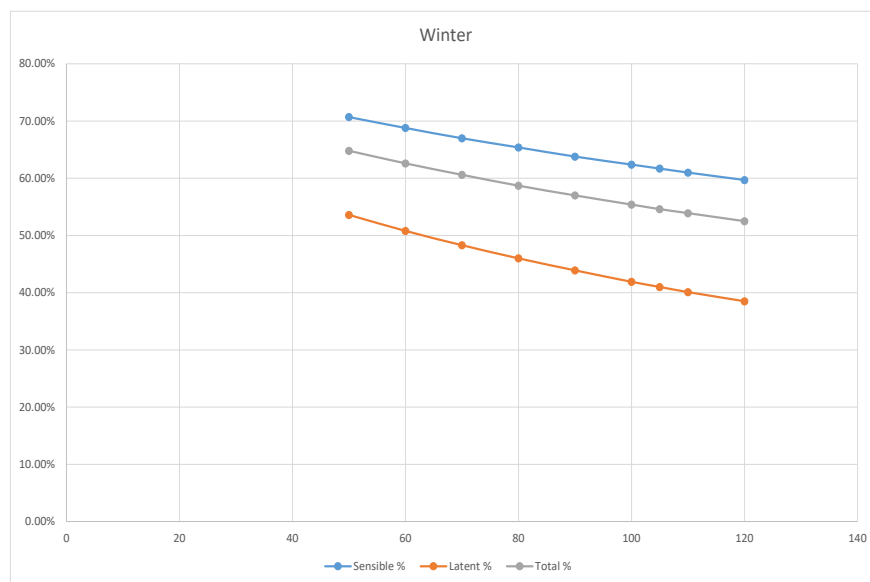
SUMMER



Summer			
Outdoor		Return	
db	rh	db	rh
95	46.5%	75	51.17%

	Summer		
CFM	Sensible %	Latent %	Total %
50	70.70%	53.60%	60.30%
60	68.80%	50.80%	57.90%
70	67.00%	48.30%	55.70%
80	65.40%	46.00%	53.70%
90	63.80%	43.90%	51.80%
100	62.40%	41.90%	50.00%
105	61.70%	41.00%	49.20%
110	61.00%	40.10%	48.40%
120	59.70%	38.50%	46.90%

WINTER

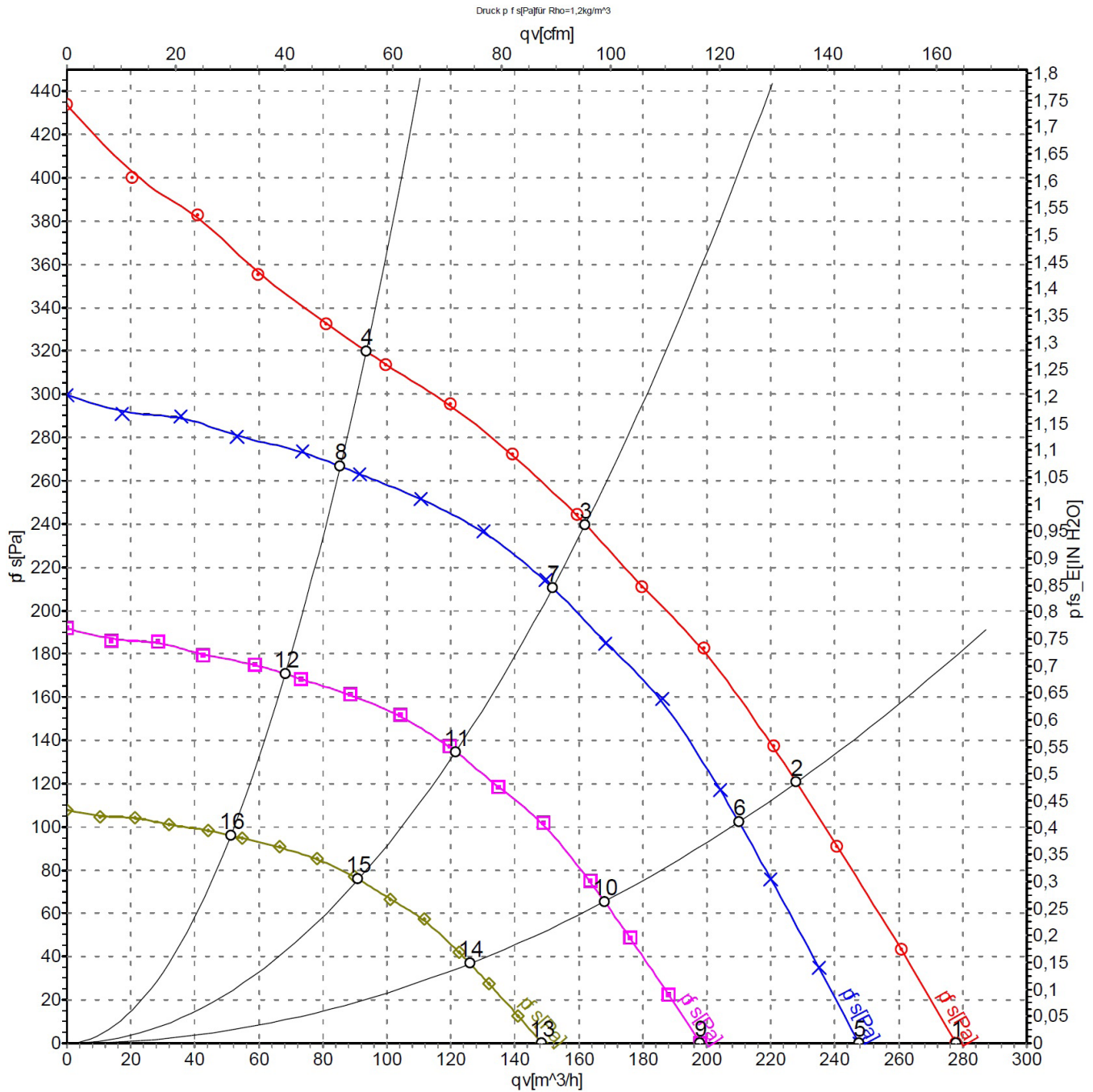


Winter			
Outdoor		Return	
db	rh	db	rh
35	81.69%	70	47.88%

	Winter		
CFM	Sensible %	Latent %	Total %
50	70.70%	53.60%	64.80%
60	68.80%	50.80%	62.60%
70	67.00%	48.30%	60.60%
80	65.40%	46.00%	58.70%
90	63.80%	43.90%	57.00%
100	62.40%	41.90%	55.40%
105	61.70%	41.00%	54.60%
110	61.00%	40.10%	53.90%
120	59.70%	38.50%	52.50%

ERV Data

ERV FAN CURVE AIR LOW AT 50HZ



The **Fresh-Pak** Series is a compact, through-the-wall single package vertical HVAC unit that delivers conditioned air from a single unit to multiple rooms. The **Fresh-Pak** series is available in straight cool, or heat pump, models. Having a small footprint allows the **Fresh-Pak** to use a minimal amount of floor space. The **Fresh-Pak** installs easily into a closet having an exterior wall. Like your home, a standard wall mounted thermostat controls the **Fresh-Pak** unit. Applications for the **Fresh-Pak** include:

- ✓ Hotels / Motels
- ✓ High rise apartments / Condominiums
- ✓ Assisted Living / Independent care facilities
- ✓ Student housing
- ✓ Manufactured / Modular buildings

STANDARD FEATURES: (see pages 8, 9 and 10 for further information)

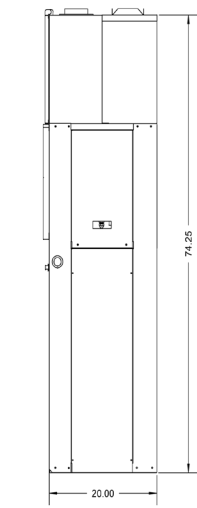
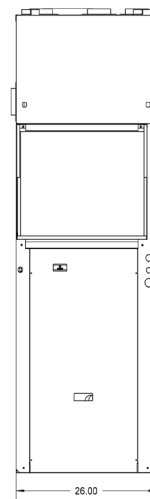
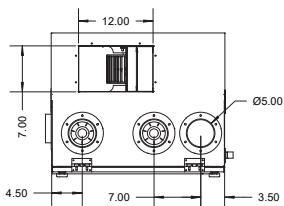
- Fully integrated ERV module with washable core
- Completely pre-charged with environmentally friendly R-410A refrigerant
- Easy access for in-place service of most components
- Multi-function micro-processor board that includes the following functions:
 - Evaporator coil low temperature protection
 - Low ambient lockout
 - ECM motor utilized on all models
 - Random restart
 - Compressor restart delay
 - Fan-off delay in the cooling mode
 - Low voltage fuse protection
- Service disconnect
- Completely insulated cabinet for sound attenuation and weather infiltration
- Adjustable fresh air damper
- No tool needed to replace the filter
- Weight-supporting, single piece wall sleeves (except side access sleeves) for various wall thicknesses from 5" to 20"
- Sleeves have primary condensate drain connection with secondary overflow to building exterior
- All sleeves are shipped with a weather guard
- Flush type exterior architectural grilles

OPTIONAL FEATURES: (see pages 12 and 13)

- Side access wall sleeves (rear access is standard)
- Custom painted exterior architectural grilles
- Hurricane grille / sleeve combinations
- Various louvered and non-louvered interior access panels
- Digital wall mount thermostats with high and low temperature limits

Cooling Only

In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.



ELECTRICAL DATA (208/230V-1PH-60Hz)																		
UNIT MODEL	ELECTRIC HEAT DATA						BLOWER DATA		CONDENSER DATA				MINIMUM CIRCUIT AMPACITY		MAXIMUM CIRCUIT PROTECTION		SHIP WT.	
	kW		BTUH		TOTAL HEATING AMPS		EVAPORATOR MOTOR		COMPRESSOR		CONDENSER MOTOR							
	240V	208V	240V	208V	240V	208V	AMPS	HP	RLA	LRA	FLA	HP	208V	240V	208V	240V		
EFE09	-0	0	0	0	0	0.0	0.0	2.3	1/4	4.4	25	2.3	1/4	10	10	15	15	245
	-2	2	1.5	6800	5100	10.6	9.5							12	13	15	15	
	-3	3	2.25	10200	7700	14.8	13.1							16	18	20	20	
	-4	4	3	13600	10200	19.0	16.7							21	23	20	25	
EFE12	-0	0	0	0	0.0	0.0	2.3	1/4	4.7	25	2.3	1/4	10	10	15	15	245	
	-2	2	1.5	6800	5100	10.6							9.5	12	13	15		15
	-3	3	2.25	10200	7700	14.8							13.1	16	18	20		20
	-4	4	3	13600	10200	19.0							16.7	21	23	25		25
	-5	4.5	3.38	15400	11500	21.1							18.6	23	26	25		30
EFE18	-0	0	0	0	0.0	0.0	2.8	1/3	9.0	56.3	2.3	1/4	16	16	25	25	255	
	-2	2	1.5	6800	5100	11.1							10.0	16	16	25		25
	-3	3	2.25	10200	7700	15.3							13.6	17	18	25		25
	-4	4	3	13600	10200	19.5							17.2	22	24	25		25
	-5	4.5	3.38	15400	11500	21.6							19.1	24	26	25		30
	-6	6	4.5	20500	15400	27.8							24.4	31	34	35		35
	-8	8	6.0	27300	20500	36.1							31.6	40	44	40		45
	-10	9	6.75	30700	23000	40.3							35.3	44	50	45		50
EFE24	-0	0	0	0	0.0	0.0	2.8	1/3	10.9	62.9	2.3	1/4	19	19	25	25	295	
	-3	3	2.25	10200	7700	15.3							13.6	19	19	25		25
	-4	4	3	13600	10200	19.5							17.2	22	24	25		25
	-5	4.5	3.38	15400	11500	21.6							19.1	24	26	25		30
	-6	6	4.5	20500	15400	27.8							24.4	31	34	35		35
	-8	8	6.0	27300	20500	36.1							31.6	40	44	40		45
	-10	9	6.75	30700	23000	40.3							35.3	44	50	45		50

BLOWER DATA									
UNIT MODEL	MOTOR SPEED CONN. (1)	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
EFE09	HIGH	490	475	465	455	450	440	430	425
	MED (H & C)	390	380	370	360	350	340	330	320
	LOW	320	310	300	290	280	270	260	250
EFE12	HIGH	500	485	475	465	460	450	445	440
	MED (H & C)	430	420	410	400	390	385	375	370
	LOW	350	340	330	320	310	305	295	285
EFE18	TAP 3	705	695	685	675	670	660	650	635
	TAP 2(C)	655	645	635	620	610	600	590	580
	TAP 1(H)	565	550	540	530	515	505	490	480
EFE24	TAP 3	900	890	880	870	860	855	845	835
	TAP 2(C)	820	810	800	790	780	770	760	750
	TAP 1(H)	720	710	700	690	680	670	660	650

(1) Factory Settings: (H) = Heating, (C) = Cooling

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
EFE09	9500	12.0
EFE12	11500	12.0
EFE18	17500	11.5
EFE24	24600	11.2

- (1) Tested at 95°F DB/75°F WB outdoors and 80°F DB/67°F WB indoors.
 (2) Tested in accordance with AHRI Standard 390.



Heat Pump

In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.



ELECTRICAL DATA (208/230V-1PH-60Hz)																	
UNIT MODEL	ELECTRIC HEAT DATA						BLOWER DATA		CONDENSER DATA				MINIMUM CIRCUIT AMPACITY		MAXIMUM CIRCUIT PROTECTION		SHIP WT.
	kW		BTUH		TOTAL HEATING AMPS		EVAPORATOR MOTOR		COMPRESSOR		CONDENSER MOTOR						
	240V	208V	240V	208V	240V	208V	AMPS	HP	RLA	LRA	FLA	HP	208V	240V	208V	240V	
EPE09 -2 -3 -HP -4	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.4	25	2.3	1/4	12	13	15	15	245
	3	2.25	10200	7700	14.8	13.1							16	18	20	20	
	4	3	13600	10200	19.0	16.7							21	23	25	25	
EPE12 -2 -3 -HP -4 -5	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.7	25	2.3	1/4	12	13	15	15	245
	3	2.25	10200	7700	14.8	13.1							16	18	20	20	
	4	3	13600	10200	19.0	16.7							21	23	25	25	
	4.5	3.38	15400	11500	21.1	18.6							23	26	25	30	
EPE18 -2 -3 -HP -4 -5 -6 -8 -10	2	1.5	6800	5100	11.1	10.0	2.8	1/3	9.0	56.3	2.3	1/4	16	16	25	25	255
	3	2.25	10200	7700	15.3	13.6							17	18	25	25	
	4	3	13600	10200	19.5	17.2							22	24	25	25	
	4.5	3.38	15400	11500	21.6	19.1							24	26	25	30	
	6	4.5	20500	15400	27.8	24.4							31	34	35	35	
	8	6.0	27300	20500	36.1	31.6							40	44	40	45	
	9	6.75	30700	23000	40.3	35.3							44	50	45	50	
EPE24 -3 -4 -HP -5 -6 -8 -10	3	2.25	10200	7700	15.3	13.6	2.8	1/3	10.9	62.9	2.3	1/4	19	19	25	25	295
	4	3	13600	10200	19.5	17.2							22	24	25	25	
	4.5	3.38	15400	11500	21.6	19.1							24	26	25	30	
	6	4.5	20500	15400	27.8	24.4							31	34	35	35	
	8	6.0	27300	20500	36.1	31.6							40	44	40	45	
	9	6.75	30700	23000	40.3	35.3							44	50	45	50	

NOTE: Compressors in these models do not operate simultaneously with heater elements.

BLOWER DATA									
UNIT MODEL	MOTOR SPEED CONN. (1)	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
EPE09	HIGH	490	475	465	455	450	440	430	425
	MED (H & C)	390	380	370	360	350	340	330	325
	LOW	320	310	300	290	280	270	260	250
EPE12	HIGH	500	485	475	465	460	450	445	440
	MED (H & C)	430	420	410	400	390	385	375	370
	LOW	350	340	330	320	310	305	295	285
EPE18	TAP 3	705	695	685	675	670	660	650	635
	TAP 2(C)	655	645	635	620	610	600	590	580
	TAP 1(H)	565	550	540	530	515	505	490	480
EPE24	TAP 3	900	890	880	870	860	855	845	835
	TAP 2(C)	820	810	800	790	780	770	760	750
	TAP 1(H)	720	710	700	690	680	670	660	650

(1) Factory Settings:
(H) = Heating, (C) = Cooling



COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
EPE09	9500	12.0
EPE12	11500	12.0
EPE18	17500	11.5
EPE24	24600	11.2

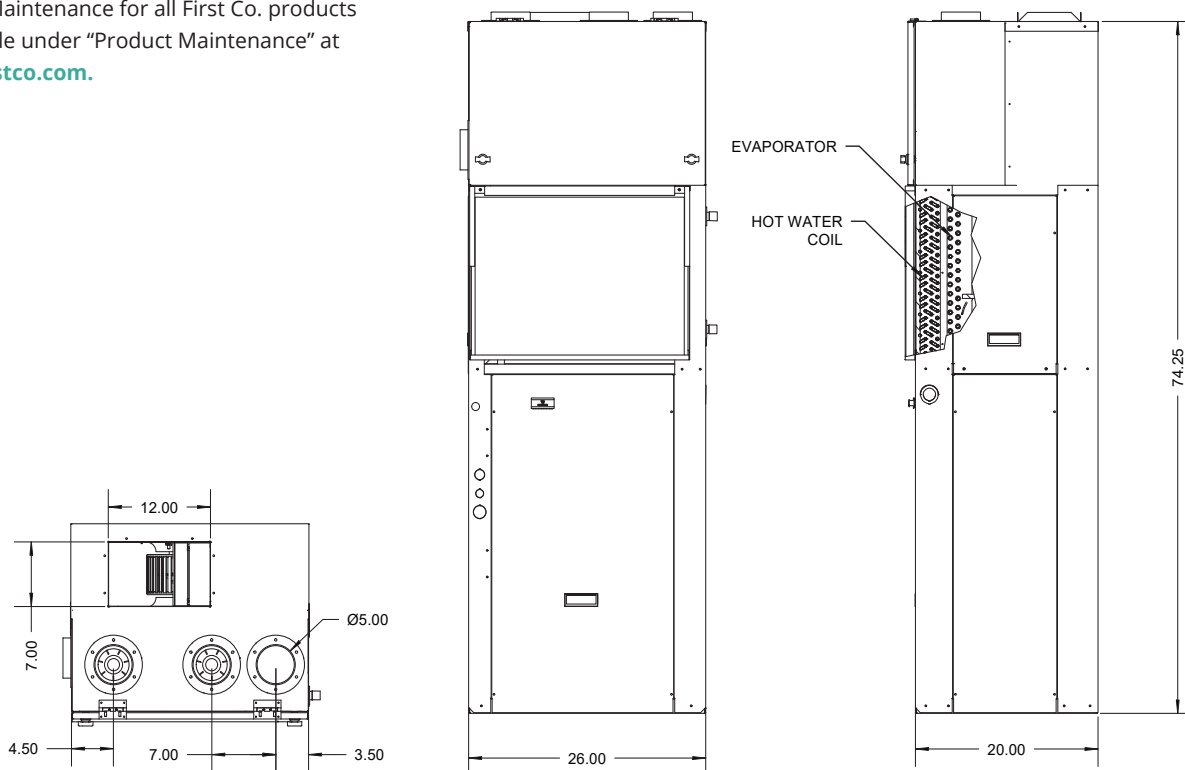
95°F DB/75°F WB outdoor - 80°F DB/67°F WB indoor.
Tested in accordance with AHRI Standard 390.

HEATING / PERFORMANCE DATA (3)		
UNIT MODEL	STANDARD RATING (1)	COP (47°)
	BTUH	
EPE09	9000	3.5
EPE12	10500	3.5
EPE18	16200	3.4
EPE24	23600	3.4

47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor.

Cooling with Hot Water Heat

In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice. Maintenance for all First Co. products is available under "Product Maintenance" at www.firstco.com.



(1) Hot water coil connections are 7/8" O.D., Sweat

ELECTRICAL DATA 208/230V - 1PH - 60Hz											
UNIT MODEL	BLOWER DATA		CONDENSER DATA				MINIMUM CIRCUIT AMPACITY		MAXIMUM CIRCUIT PROTECTION		SHIP. WT.
	EVAPORATOR MOTOR		COMPRESSOR		CONDENSER MOTOR						
	AMPS	HP	RLA	LRA	FLA	HP	208V	230V	208V	230V	
EFW09	2.3	1/4	4.4	25	2.3	1/4	10	10	20	20	256
EFW12	2.3	1/4	4.7	25	2.3	1/4	10	10	20	20	256
EFW18	2.8	1/3	7	38	2.3	1/4	14	14	25	25	266
EFW24	2.8	1/3	13.5	62.9	2.3	1/4	19	19	35	35	306

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
EFW09	9500	12.0
EFW12	11500	12.0
EFW18	17500	11.5
EFW24	24600	11.2



NOTES:

(1) Tested at 95°F DB/75°F WB outdoors and 80°F DB/67°F WB indoors.

(2) Tested in accordance with AHRI Standard 390.

BLOWER DATA									
UNIT MODEL	MOTOR SPEED	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
EFW09*02	MED. (C)	390	375	365	350	340	330	315	305
	LOW (H)	320	305	290	280	265	255	240	230
EFW12*02	MED. (C)	420	410	395	385	375	365	355	345
	LOW (H)	340	330	320	305	290	280	265	255
EFW18*02	Tap 2 (C)	800	780	765	750	735	720	700	680
	Tap 1 (H)	700	690	680	670	655	640	630	620
EFW18*03	Tap 2 (C)	780	760	745	730	715	700	680	660
	Tap 1 (H)	690	680	670	660	645	630	620	610
EFW24*02	Tap 2 (C)	840	835	825	820	810	800	790	780
	Tap 1 (H)	635	620	610	600	585	570	560	545
EFW24*03	Tap 2 (C)	820	810	800	790	780	770	760	750
	Tap 1 (H)	615	600	585	575	560	545	535	520

(1) Factory Settings: (H) = Heating, (C) = Cooling

HOT WATER HEATING DATA - To Be Determined						
UNIT MODEL	AIR FLOW (CFM)	GPM	P.D. (FT. WATER)	BTUH (1000) @ ENTERING WATER TEMPERATURE		
				120°F	140°F	180°F
EFW09	300	3.0	4.6	13.6	19.2	30.2
		2.5	3.3	13.4	18.7	29.5
		2.0	2.2	12.9	18.2	28.6
		1.5	1.3	12.2	17.2	27.1
		1.0	0.6	10.8	15.3	24.2
EFW12	400	3.0	4.6	17.0	23.9	37.7
		2.5	3.3	16.5	23.2	36.6
		2.0	2.2	15.8	22.2	35.1
		1.5	1.3	14.7	20.7	32.6
		1.0	0.6	12.6	17.8	28.2
EFW18	600	3.0	4.6	22.5	31.7	50.1
		2.5	3.3	21.6	30.4	48.0
		2.0	2.2	20.3	28.5	45.0
		1.5	1.3	18.3	25.7	40.7
		1.0	0.6	15.0	21.3	33.7
EFW24	800	3.0	4.6	26.9	37.8	59.7
		2.5	3.3	25.5	35.8	56.6
		2.0	2.2	23.6	33.2	52.4
		1.5	1.3	20.9	29.4	46.4
		1.0	0.6	16.6	23.5	37.2

Note: Use 3 GPM capacities when First Co. "Flow Control Module" (Part Number 940-3CV) is used.

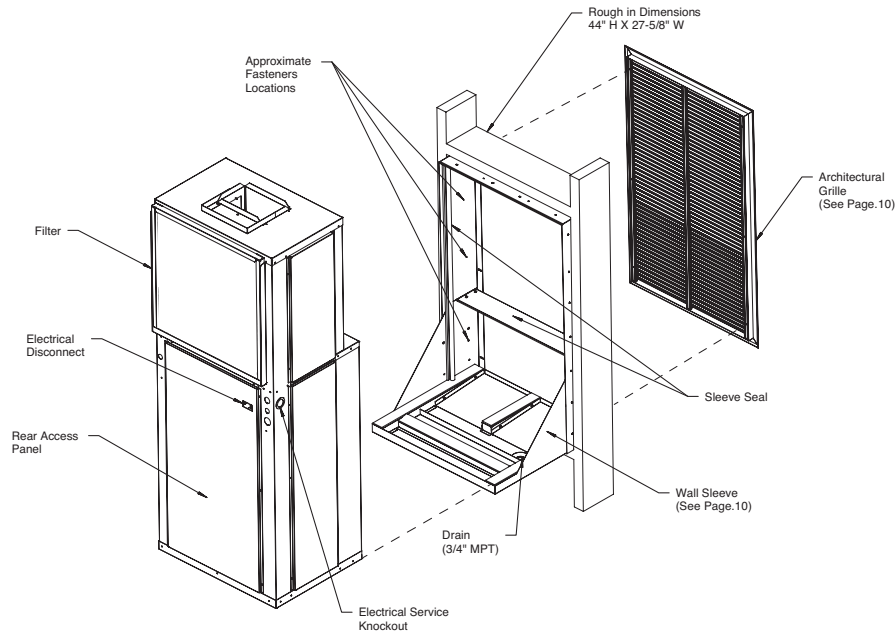


FIGURE 1A - General Assembly for Large sleeve and Grill size 24

FEATURES AND BENEFITS

1. Solid State Circuit Board - Incorporates the following control features:

- **Evaporator coil low temperature protection** – During the cooling mode, should the evaporator coil experience either a low temperature condition that could result in ice build up on the coil or a reduced air flow situation, a temperature sensor attached to the coil will de-energize the **Fresh-Pak** unit. The sensor will re-energize the Fresh-Pak unit when the coil warms back up.
- **Low ambient lockout** – Locks out compressor when the sensor registers temperatures of 40°F and below to extend compressor life.
- **Random restart** – When power is turned on after a power outage, a built-in random restart (3 to 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. This feature maximizes cooling performance.
- **Low voltage fuse protection**

2. Service Pullout - Factory installed for service convenience and maintenance.

3. Wall-mounted thermostat - (See "accessories", P.13) The **Fresh-Pak** is easily controlled by a standard low voltage wall thermostat rather than complicated unit-mounted controls. Low voltage wires are "stubbed" out the left side of the cabinet.

4. 40VA transformer

FEATURES AND BENEFITS (CONT.)

5. **Standard Wall Sleeve** – (See Figures 1, 6 and 7) Rear or side install wall sleeves are provided for installation during rough-in and, when ready, the **Fresh-Pak** unit is simply slid into the sleeve and the ductwork and electrical connected. The sleeve is a weight-bearing sleeve that supports the entire weight of the **Fresh-Pak** unit and provides a weather tight seal against wind and water infiltration. A 3/4" male NPT fitting is provided in the bottom of the sleeve for field connection to a condensate riser. Four wall sleeve depths are available to accommodate wall thickness from 5" to 20". Each sleeve includes a factory installed "weather guard" to cover the sleeve opening during construction.
6. **Fresh Pak Wall Sleeve With Fresh Air Ports** – (See Figure 2) Rear or side install wall sleeves can accommodate the ERV needs with built in fresh air intake and exhaust ports. The **Fresh-Pak** unit is simply slid into place, like our standard sleeve, and the ERV is ducted into the built in ports. The sleeve is a weight-bearing sleeve that supports the entire weight of the **Fresh-Pak** unit and provides a weather tight seal against wind and water infiltration. A 3/4" male NPT fitting is provided in the bottom of the sleeve for field connection to a condensate riser. Four wall sleeve depths are available to accommodate wall thickness from 5" to 20". Each sleeve includes a factory installed "weather guard" to cover the sleeve opening during construction.
7. **Unique "Sleeve Drain" Condensate System** - (Also see Figure 5) A factory installed drain line connects the evaporator drain pan to a vertical pipe connection in the **Fresh-Pak** base pan. Evaporator condensate is delivered from the **Fresh-Pak** 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 **Fresh-Pak** 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.
8. **Secondary 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" sleeve drain.
9. **Ductable return air** – Return air can be ducted to the unit. However, most installations would not normally require ducted return air.



FIGURE 1

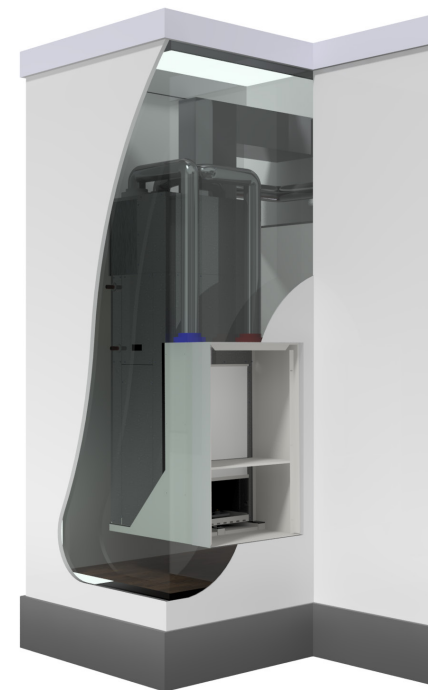


FIGURE 2

FEATURES AND BENEFITS (CONT.)

9. New “Flush Style” Architectural Grille – This new grille (Figure 3) is an attractive extruded aluminum architectural grille that attaches to the outside face of the wall sleeve. The blades of this unique grille recess into the wall sleeve for a neat, “flush” appearance. Grilles install from the inside of the wall sleeve. Do not install the **Fresh-Pak** unit into the sleeve before installing the grille.

10. Filter Brackets – Filter Brackets and throw away filter are shipped with each unit and are field installed over the unit’s evaporator coil.

11. Plate Heat Exchanger (Figure 4)

- **High Efficiency**
- **Full Enthalpy design**
- **Washable/cleanable material**

12. ERV cabinet (Figure 5)

- **Insulated one piece molded interior**
- **Completely sealed – noise reduction / prevents air leakage**
- **Mold/ Mildew resistant**
- **Easy access – for serviceability and cleaning**

OPTIONAL FEATURES: (see page 13)

- **Room air quality sensor for ERV control**
- **Wifi service stick/app**
- **Room CO2 sensor for ERV control**

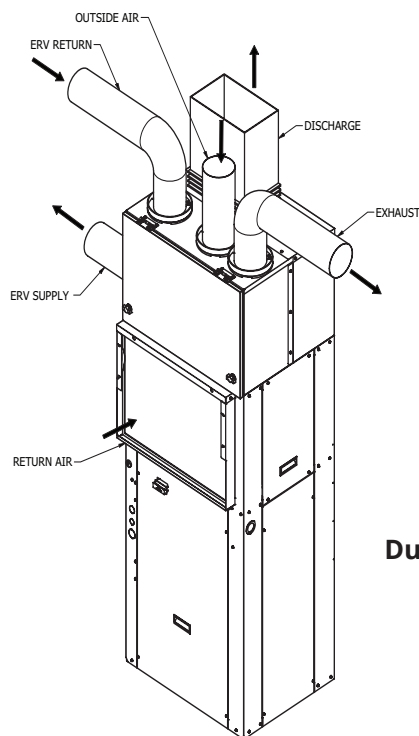


FIGURE 3

SHOWN WITH OPTIONAL LOUVERED ACCESS PANEL (See P.11)

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

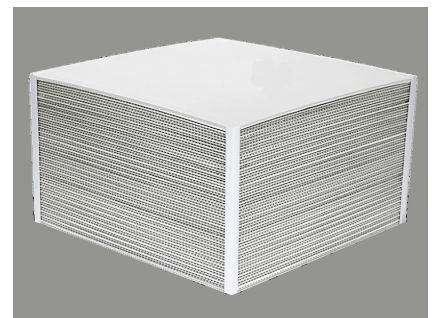


FIGURE 4

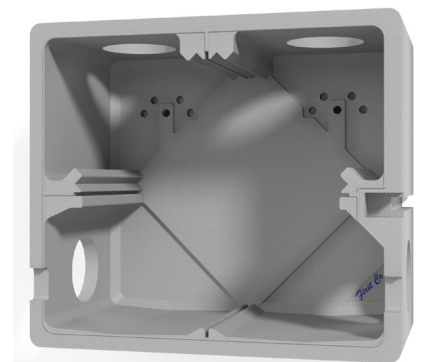


FIGURE 5

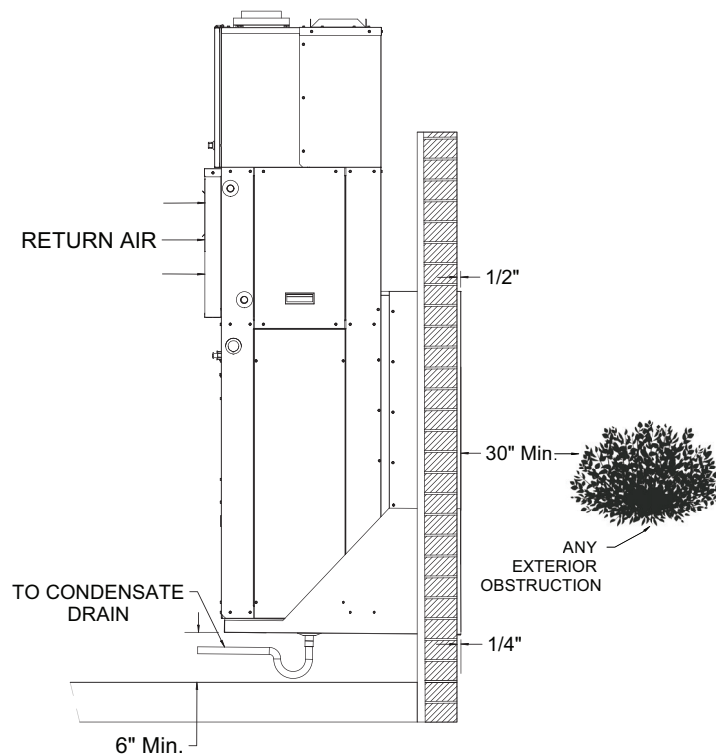


FIGURE 6 - Side View (with "Rear Install" sleeve)

UNIT / SLEEVE DIMENSIONS					
Part Number		Fits Wall Thickness	A	B	C
Rear Install	Side In-stall				
99*-1B	99*-11B	5" - 8" wall	9"	17-1/2"	26"
99*-2B	99*-12B	8" - 12" wall	13"	17-1/2"	30"
99*-3B	99*-13B	12" - 15" wall	16"	17-1/2"	33"
99*-4B	99*-14B	15" - 20" wall	21"	17-1/2"	38"

** = wall sleeve regular or Fresh-Pak

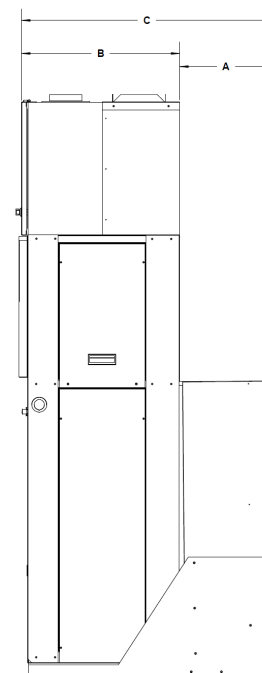
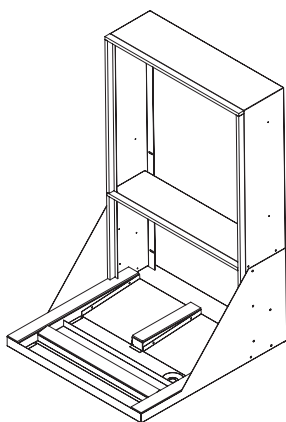


FIGURE 7
(Unit shown with "Rear Install" sleeve)

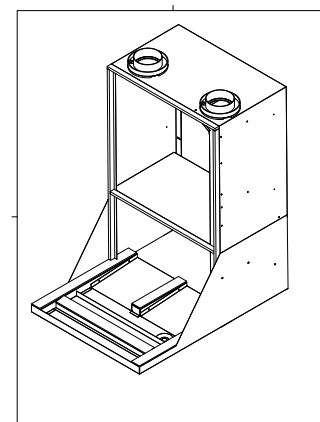
ACCESSORIES (sleeves, louver, and thermostat required for each installation)								
ACCESSORY	DESCRIPTION	DIMENSIONS (HXWxD)	PART NUMBERS				SHIP WT. (EA) (4)	
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL Hurricane	SIDE INSTALL Hurricane	REAR	SIDE
REGULAR WALL SLEEVES (2)	For 5" - 8" thick walls	43-1/8 x 26-1/2 x 28-1/2	999-1B-E	999-11B-E	999-1H-E	999-11H-E		
	For 8" - 12" thick walls	43-1/8 x 26-1/2 x 32-1/2	999-2B-E	999-12B-E	999-2H-E	999-12H-E		
	For 12" - 15" thick walls	43-1/8 x 26-1/2 x 35-1/2	999-3B-E	999-13B-E	999-3H-E	999-13H-E		
	For 15" - 20" thick walls	43-1/8 x 26-1/2 x 40-1/2	999-4B-E	999-14B-E	999-4H-E	999-14H-E		
ACCESSORY	DESCRIPTION	DIMENSIONS (HXWxD)	PART NUMBERS				SHIP WT. (EA) (4)	
Fresh-Pak sleeves			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL Hurricane	SIDE INSTALL Hurricane	REAR	SIDE
WALL SLEEVES WITH FRESH AIR INTERGRATED (2)	For 5" - 8" thick walls	43-1/8 x 26-1/2 x 35-1/2	999-21B-E	999-31B-E	999-21H-E	999-31H-E		
	For 8" - 12" thick walls	43-1/8 x 26-1/2 x 39-1/2	999-22B-E	999-32B-E	999-22H-E	999-32H-E		
	For 12" - 15" thick walls	43-1/8 x 26-1/2 x 42-1/2	999-23B-E	999-33B-E	999-23H-E	999-33H-E		
	For 15" - 20" thick walls	43-1/8 x 26-1/2 x 47-1/2	999-24B-E	999-34B-E	999-24H-E	999-34H-E		
ARCHITECTURAL GRILLES LARGE			Custom Painted	For Field Painting	Anodized Aluminum	SHIP WT. (EA)		
	Standard	44 x 27-1/4	G8503S (2)	G8502PPA	G8501A			
	Hurricane	45-5/8 x 28	G8506HS (2)	G8505HP	G8504HA			

NOTES:

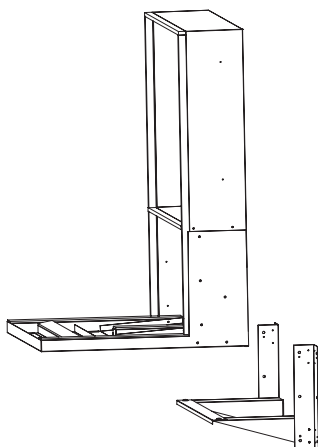
- (1) "S" indicates custom color, to be provided by customer. Minimum order quantity is 20 per color.
- (2) Rear install application provides better access to the **Fresh-Pak** unit and is recommended over "side install" wherever possible.
- (3) Side install application requires different closet size and configuration. Contact factory for further information.
- (4) All wall sleeves are shipped two (2) per carton.
- (5) Hurricane sleeves require special grille (see "Architectural Grilles" above)
(contact the factory for information about hurricane sleeves and grilles)



Standard rear install sleeve

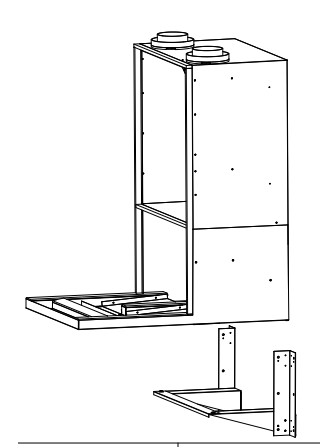


Fresh-Pak rear install sleeve with ports







Side install sleeve


NOTE: Separate wall mounting bracket is shipped with "side install" wall sleeves.



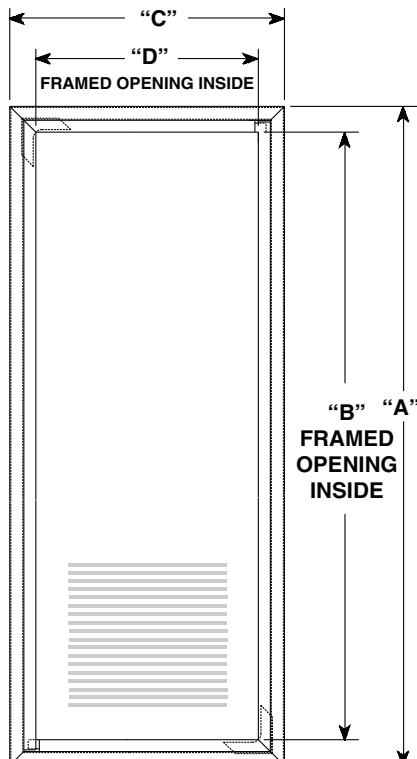
Fresh-Pak Side Install Sleeve with ports

NOTE: Separate wall mounting bracket is shipped with "side install" wall sleeves.

THERMOSTATS	Straight Cool (24V) Digital cool - off - heat, auto - on w/limits (6-wire)	4 x 5 (Horizontal)	T1020NC	
	Heat Pump (24V) Digital w/emergency heat cool - off - heat, auto - on w/limits (6-wire)	4 x 5 (Horizontal)	T1220NC	
	Programmable (5-2) st. Cool/Ht. Pump (24V) cool-off-heat, auto-on w/em. Ht. & limits (6-wire)	4 x 5 (Horizontal)	T2220NC	
	Straight Cool or Heat Pump (24V) Digital Occupancy Sensor	4.3 x 5.7 (Horizontal)	T8532	

OPTIONAL ERV ACCESSORIES			
COMPONENT	DESCRIPTION	PART NUMBER	
ROOM SENSORS (ERV CONTROL)	Combination sensor Temperature and Humidity	TS-P40	
	Combination sensor Temperature, Humidity CO2 and Air Quality	TS-P70	
	WLAN stick for ERV control (USB)	USB-300	

OPTIONAL ACCESSORIES (field installed)					
COMPONENT	DESCRIPTION	DIMENSIONS (H X W)		PART NUMBER	SHIP WT.
		FRAME	OPENING		
ACCESS / RETURN AIR PANEL (3)(4)	LOUVERED (1)	87 X 37	84 X 34	931-15	55
	NON-LOUVERED (2)	87 X 37	84 X 34	931-16	
	LOUVERED (1)	82 X 37	79 X 34	931-17	55
	NON-LOUVERED (2)	82 X 37	79 X 34	931-18	



PART NO.	"A"	"B"	"C"	"D"
931-15(16)	87.00	84.00	37.00	34.00
931-17(18)	82.00	79.00	37.00	34.00

NOTE: A solid door or panel with a side wall return air grille 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 grille and unit mount filter.
- (3) Both panels are insulated for sound reduction and have tamperproof screws.
- (4) Panels are shipped ten per carton.

Nomenclature

	E	F	E	24	2	05	A	B	R	X	X
SERIES											
E - Eco Series											
UNIT TYPE											
C - Cooling Only											
H - Heat Pump											
F - Cooling W/ERV											
P - Heat Pump W/ERV											
HEAT TYPE											
E - Electric											
W - AquaTherm HW Coil											
TONNAGE											
09 - 9,000 Btu/Hr											
12 - 12,000 Btu/Hr											
18 - 18,000 Btu/Hr											
24 - 24,000 Btu/Hr											
30 - 30,000 Btu/Hr											
VOLTAGE											
2 - 208/230V											
3 - 265V											
HEAT kW / ROWS											
00 - No Heat											
03 - 03 kW											
04 - 04 kW											
05 - 05 kW											
06 - 06 kW											
08 - 08 kW											
10 - 10 kW											
1R - 1 Row HW Coil											
2R - 2 Row HW Coil											
3R - 3 Row HW Coil											
REVISION											
A, B, C,.....											
CABINET											
A - 20 x 20											
B - 20 x 26											
C - mp											
ERV SUPPLY / HW CONNECTIONS											
R - Right											
L - Left											
OPTIONS											
TBD											
MINOR REVISION LEVEL											
TBD											