

Notice To Vendors This Is Not An Order. It Is Merely A Request For Prices	GRAMBLING STATE UNIVERSITY Grambling Louisiana REQUEST FOR QUOTATION	DATE November 7, 2023	Date and Time by Which Quotation Must be Returned: November 21, 2023 10:30 am
	<u>Campus Living Fan Coils</u> Department	TO THE VENDOR: To be returned on or before date specified above to: GRAMBLING STATE UNIVERSITY PURCHASING DEPARTMENT Website: Purchasingbids@gram.edu	
Name and Address of Vendor (Firm or Individual) <div style="border: 1px solid black; height: 100px; width: 100%;"></div>		NOTE: THE UNIVERSITY RESERVE THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS, AND WAIVE INFORMALITIES THIS BID IS DUE IN PURCHASING OFFICE AS STATED ABOVE <u>LATE BIDS NOT ACCEPTED</u>	
PURCHASE REQUISITION NO. R00 BID 50018-240022 P. O. No.			

INSTRUCTIONS TO BIDDERS:

1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.
2. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALED BY THE BIDDER.
3. THIS BID IS TO BE MANUALLY SIGNED IN INK.
4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS FREIGHT ON BOARD (FOB) DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR CASH ON DELIVERY (COD) REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER.
5. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39 :15 51 -1736 ; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS; SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.
6. THIS IS A SEALED BID and MUST BE EMAILED TO THE GSU PURCHASING DEPARTMENT VIA EMAIL ACCOUNT:
Purchasingbids@gram.edu
7. TO ASSURE CONSIDERATION OF YOUR BID, ALL BIDS AND ADDENDA SHOULD BE RETURNED IN AN ENVELOPE OR PACKAGE CLEARLY MARKED WITH THE BID NUMBER.
8. BIDS OR QUOTATIONS MAY BE CONSIDERED FOR ALL OR PART OF TOTAL QUANTITIES.
9. NOTE: A COMPLETE RECORD OF ALL BIDS IS KEPT ON FILE IN THE PURCHASING DEPARTMENT SUBJECT TO THE INSPECTIONS OF ANY CITIZEN. EVERY COURTESY WILL BE AFFORDED ANY CITIZEN WHO IS INTERESTED IN INVESTIGATING FOR ANY PURPOSE THE RECORD OF STATE PURCHASES. COPIES OF EVALUATION CAN BE FAXED TO YOU ONLY AFTER RECEIPT OF WRITTEN REQUEST. PLEASE DO NOT CALL.
10. IMPORTANT: BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS AND SPECIFICATIONS, AND FURTHER CERTIFIES THAT THIS BID IS MADE WITHOUT COLLUSION OR FRAUD. THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR. ALL BID INFORMATION SHALL BE MADE WITH BLUE INK OR TYPE WRITTEN.
11. ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPECIAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.

For questions regarding this bid, please contact Erin Walker at 318.274.3280

TO THE VENDOR:	THIS QUOTATION IS SUBMITTED BY
Bid Bond will not be required	Name of Vendor (Firm or Individual) _____
Performance Bond of 50% will be required	Signature _____
Recommended Site Visit: November 14, 2023 at 9am	Name (Printed) _____
Deadline to Receive November 15, 2023	Telephone # _____
Deadline to Respond to Inquiries: November 16, 2023	Fax # _____
Bid Opening: November 21, 2023 at 10:00 a.m. CST	Email Address _____
Louisiana Contractor's License #:	Title _____
	Vendor Quote # _____
	Date Submitted _____

STATE OF LOUISIANA
GRAMBLING STATE UNIVERSITY
GRAMBLING, LOUISIANA
A Member of the University of Louisiana System

INVITATION TO BID
FOR
IFB- 50018-240022
Fan Coils for our Residential Halls

ISSUING AGENCY: Grambling State University
Purchasing Department
403 Main Street, Purchasing BLG
Grambling, La 71245

ACTING PURCHASING DIRECTOR: Erin Walker
Telephone: 318.274.3280 (o) || walkere@gram.edu (e)

REQUISITIONED BY: Carnelia Barfield
Telephone: 318.274.3133 (o) || barfieldc@gram.edu (e)

RELEASE DATE: November 7, 2023

MANDATORY PRE-BID MEETING: November 14, 2023 at 9:00 am CST

MANDATORY LOCATION: Purchasing Conference Rm, Grambling La 71245

BID OPENING DATE: November 21, 2023

BID OPENING TIME: 10:30 a.m., Central Time

BID OPENING LOCATION: GSU Purchasing Teleconference: Number 1-917-900-1022,
Conference ID: 5600581#

This ITB is available in electronic form by emailing purchasingbids@gram.edu. It is the Bidder's responsibility to check for any possible addenda that may be issued.

Definitions

(1) "Alternate" means an item on the bid form that may either increase or decrease the quantity of work or change the type of work within the scope of the project, material, or equipment specified in the bidding documents, or both.

(2) "Bidding documents" means the bid notice, plans and specifications, bid form, bidding instructions, addenda, special provisions, and all other written instruments prepared by or on behalf of a public entity for use by prospective bidders on a public contract.

(3)(a) "Change order" means any contract modification that includes an alteration, deviation, addition, or omission as to a preexisting public work contract, which authorizes an adjustment in the contract price, contract time, or an addition, deletion, or revision of work.

(b) "Change order outside the scope of the contract" means a change order which alters the nature of the thing to be constructed or which is not an integral part of the project objective.

(c) "Change order within the scope of the contract" means a change order which does not alter the nature of the thing to be constructed and which is an integral part of the project objective.

(4) "Contractor" means any person or other legal entity who enters into a public contract.

(5)(a) "Emergency" means an unforeseen mischance bringing with it destruction or injury of life or property or the imminent threat of such destruction or injury or as the result of an order from any judicial body to take any immediate action which requires construction or repairs absent compliance with the formalities of this Part, where the mischance or court order will not admit of the delay incident to advertising as provided in this Part. In regard to a municipally owned public utility, an emergency shall be deemed to exist and the public entity may negotiate as provided by R.S. 38:2212(P) for the purchase of fuel for the generation of its electric power where the public entity has first advertised for bids as provided by this Part but has failed to receive more than one bid.

(b) An "extreme public emergency" means a catastrophic event which causes the loss of ability to obtain a quorum of the members necessary to certify the emergency prior to making the expenditure to acquire materials or supplies or to make repairs necessary for the protection of life, property, or continued function of the public entity.

(6) "Licensed design professional" means the architect, landscape architect, or engineer who shall have the primary responsibility for the total design services performed in connection with a public works project. Such professional shall be licensed as appropriate and shall be registered under the laws of the state of Louisiana.

(7)(a) "Louisiana resident contractor", for the purposes of this Part, includes any person, partnership, association, corporation, or other legal entity and is defined as one that either:

(i) Is an individual who has been a resident of Louisiana for two years or more immediately prior to bidding on work,

(ii) Is any partnership, association, corporation, or other legal entity whose majority interest is owned by and controlled by residents of Louisiana, or

(iii) For two years prior to bidding has maintained a valid Louisiana contractor's license and has operated a permanent facility in the state of Louisiana and has not had a change in ownership or control throughout those two years.

(b) For the purposes of Item (a)(ii) of this Paragraph, ownership percentages shall be determined on the basis of:

(i) In the case of corporations, all common and preferred stock, whether voting or nonvoting, and all bonds, debentures, warrants, or other instruments convertible into common or preferred stock.

(ii) In the case of partnerships, capital accounts together with any and all other capital advances, loans, bonds, debentures, whether or not convertible into capital accounts.

(8) "Negotiate" means the process of making purchases and entering into contracts without formal advertising and public bidding with the intention of obtaining the best price and terms possible under the circumstances.

(9) "Probable construction costs" means the estimate for the cost of the project as designed that is determined by the public entity or the designer.

(10) "Public contract" or "contract" means any contract awarded by any public entity for the making of any public works or for the purchase of any materials or supplies.

(11) "Public entity" means and includes the state of Louisiana, or any agency, board, commission, department, or public corporation of the state, created by the constitution or statute or pursuant thereto, or any political subdivision of the state, including but not limited to any political subdivision as defined in Article VI Section 44 of the Constitution of Louisiana, and any public housing authority, public school board, or any public officer whether or not an officer of a public corporation or political subdivision. "Public entity" shall not include a public body or officer where the particular transaction of the public body or officer is governed by the provisions of the model procurement code.

(12) "Public work" means the erection, construction, alteration, improvement, or repair of any public facility or immovable property owned, used, or leased by a public entity.

(13) "Responsive bidder" means the apparent low bidder who submits the proper information or documentation as required by the bidding documents within the ten-day period

(14) "Responsible bidder" means contractor or subcontractor who has an established business and who has demonstrated the capability to provide goods and services in accordance with the terms of the contract, plan, and specifications without excessive delays, extensions, cost overruns, or changes for which the contractor or subcontractor was held to be responsible, and who does not have a documented record of past projects resulting in arbitration or litigation in which such contractor or subcontractor was found to be at fault. Responsible Bidder will have a negotiable net worth, or shall be underwritten by an entity with a negotiable net worth, which is equal to or exceeds in value the total cost amount of the public contract as provided in the bid submitted by such bidder. All property comprising the negotiable net worth shall be pledged and otherwise unencumbered throughout the duration of the contract period.

(15) "Written" or "in writing" means the product of any method of forming characters on paper, other materials, or viewable screen, which can be read, retrieved, and reproduced, including information that is electronically transmitted and stored.

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Grambling State University
Purchasing Dept
GSU P.O. Box 4269.
Grambling, La 71245

BID FOR: Fan Coils- Residential Halls
Bid No.: 50018-240022

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: **Grambling State University** and **dated: November 7, 2023.**

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following ADDENDA:

No. ____ Dated: _____ No. ____ Dated: _____ No. ____ Dated: _____

TOTAL BASE BID: For all work required by the Bidding Documents for the **Fan Coils- Residential Halls**

we bid the sum of:

_____ Dollars (\$ _____)

Per unit Price:

<u>Fan Coil Units</u>
•Provide (10)- 12SPX3-HP: \$
•Provide (15)-18SPXA5-HP: \$
•Provide (30)- 24SPX8-HP - substitution of materials and equipment will be considered: \$
<u>Replacement Parts</u>
• Provide (15) New Compressors: \$
• Provide (20) New Fan Motors (Bottom (10) and top (10)): \$
• Provide (15) Circuit Boards: \$
• Provide (15) capacitors: \$

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

PHONE NO.: _____ **EMAIL ADDRESS:** _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: **AUTHORIZED SIGNATURE OF BIDDER *:** _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

*The Unit Price Form shall be used is the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

****A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38.2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218.A is attached to and made a part of this bid. If a bid bond is provided it shall be on the attached form and only on the attached form.

Grambling State University
Residential Hall Buildings

Scope of Service to Include: Heat Pump Fan Coil Units and Replacement Parts

Fan Coil Units

- Provide (10)- 12SPX3-HP
- Provide (15)-18SPXA5-HP
- Provide (30)- 24SPX8-HP - substitution of materials and equipment will be considered

Replacement Parts

- Provide (15) New Compressors
- Provide (20) New Fan Motors (Bottom (10) and (10) top)
- Provide (15) Circuit Boards
- Provide (15) capacitors

Break down Cost Below:

Item	QTY	Price per/unit	Total
12SPX3-HP	10	\$	\$
18SPXA5-HP	15	\$	\$
24SPX8-HP	30	\$	\$
New Compressors	15	\$	\$
New Fan Motor Bottom	10	\$	\$
New Fan Motor Top	10	\$	\$
Circuit Boards	15	\$	\$
Capacitors	15	\$	\$

First Co. DALLAS, TEXAS 75227

MODEL NO. **24SPX8-HP** R06 992622 H10050

OUTDOOR USE
ELECTRICAL RATINGS:
208/240V - 1PH - 60HZ
197 VOLTS MIN. 253 VOLTS MAX.
MIN. CIRCUIT AMPACITY: 45/240V, 40/208V
MAX. OVERCURRENT PROTECTION: 50/240V, 40/208V

MOTOR RATINGS:

	RLA	LRA	HP	FLA
COMPRESSOR	10.5	61		
CONDENSER MOTOR			1/4	2.30
BLOWER MOTOR			1/4	2.6

HEATER RATINGS:
8.0 kw / 240V, 6.0 kw / 208V

DESIGN PRESSURE:
HIGH - 370 PSI LOW - 150 PSI

FACTORY CHARGE: R22 4.75 LBS
UNIT TESTED AT 0.25 IN W.C. EXTERNAL STATIC PRESSURE

**CAUTION - ELECTRIC SHOCK HAZARD
DISCONNECT POWER SUPPLY BEFORE SERVICING**

FIRST CO.
8273 MOBERLY LN. DALLAS, TEXAS 75227
214-388-3751
RECOMMENDED MAINTENANCE DOCUMENTATION
CAN BE FOUND AT www.firstco.com

MOTOR THERMALLY PROTECTED

First Co. DALLAS, TEXAS 75227

MODEL NO. **12SPX3-HP** R07 993931 H10050

OUTDOOR USE
ELECTRICAL RATINGS:
208/240V - 1PH - 60HZ
197 VOLTS MIN. 253 VOLTS MAX.
MIN. CIRCUIT AMPACITY: 17/240V, 15/208V
MAX. OVERCURRENT PROTECTION: 20/240V, 15/208V

MOTOR RATINGS:

	RLA	LRA	HP	FLA
COMPRESSOR	5	24		
CONDENSER MOTOR			1/15	0.50
BLOWER MOTOR			1/8	0.72

HEATER RATINGS:
3.0 kw / 240V, 2.3 kw / 208V

DESIGN PRESSURE:
HIGH - 370 PSI LOW - 150 PSI

FACTORY CHARGE: R22 1.84 LBS
UNIT TESTED AT 0.25 IN W.C. EXTERNAL STATIC PRESSURE

**CAUTION - ELECTRIC SHOCK HAZARD
DISCONNECT POWER SUPPLY BEFORE SERVICING**

FIRST CO.
8273 MOBERLY LN. DALLAS, TEXAS 75227
214-388-3751
RECOMMENDED MAINTENANCE DOCUMENTATION
CAN BE FOUND AT www.firstco.com

MOTOR THERMALLY PROTECTED

UL LISTED
MADE IN THE
REFER TO INSTALLATION INSTRUCTIONS FOR APPROVED METHODS OF INSTALLING UNIT

UNIT AND DUCTS APPROVED FOR INSTALLATION WITH ZERO CLEARANCE TO COMBUSTIBLE MATERIALS

UTILISER DES FILS D'ALIMENTATION EN CUIVRE

CITY OF NEW YORK DEPARTMENT OF BUILDINGS MEA 552-08-E

First Co. DALLAS, TEXAS 75227

MODEL NO. **18SPXA5-HP** C02 999999 STOCK

OUTDOOR USE
ELECTRICAL RATINGS:
208/240V - 1PH - 60HZ
197 VOLTS MIN. 253 VOLTS MAX.
MIN. CIRCUIT AMPACITY: 25/240V, 22/208V
MAX. OVERCURRENT PROTECTION: 25/240V, 25/208V

MOTOR RATINGS:

	RLA	LRA	HP	FLA
COMPRESSOR	6.5	40		
CONDENSER MOTOR			1/10	0.72
BLOWER MOTOR			1/8	0.9

HEATER RATINGS:
4.5 kw / 240V, 3.4 kw / 208V

DESIGN PRESSURE:
HIGH - 475 PSI LOW - 250 PSI

FACTORY CHARGE: R-410A 5.68 LBS
UNIT TESTED AT 0.25 IN W.C. EXTERNAL STATIC PRESSURE

WARNING: RISK OF ELECTRIC SHOCK CAN CAUSE INJURY OR DEATH: DISCONNECT ALL REMOTE ELECTRIC POWER SUPPLIES BEFORE SERVICING.

FIRST CO.
8273 MOBERLY LN. DALLAS, TEXAS 75227
214-388-3751
RECOMMENDED MAINTENANCE DOCUMENTATION
CAN BE FOUND AT www.firstco.com

MOTOR THERMALLY PROTECTED

ETL Intertek
REFER TO INSTALLATION INSTRUCTIONS FOR APPROVED METHODS OF INSTALLING UNIT

UNIT AND DUCTS APPROVED FOR INSTALLATION WITH ZERO CLEARANCE TO COMBUSTIBLE MATERIALS

UTILISER DES FILS D'ALIMENTATION EN CUIVRE

CITY OF NEW YORK DEPARTMENT OF BUILDINGS MEA 552-08-E

NOW WITH
40VA TRANSFORMER!



SPXA / SPXA-HP Series Single Package Vertical Unit Straight Cool and Heat Pump 3/4 through 2 tons, up to 10 kW Electric Heat



"Rear install" shown

The **SPXA** Series "Suite 20" is a compact, through-the-wall single package vertical HVAC unit that delivers conditioned air from a single unit to multiple rooms. The **SPXA** series is available in straight cool (**SPXA**) or heat pump (**SPXA-HP**) models. Having a small footprint (20" X 20") allows the **SPXA** to use a minimal amount of floor space. The **SPXA** installs easily into a closet having an exterior wall. Like your home, a standard wall mounted thermostat controls the **SPXA** unit. Applications for the **SPXA** include:

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

Standard Features: (see pages 4 and 5 for further information)

- 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
 - Random restart
 - Compressor restart delay
 - Front desk control capability
 - 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 page 8)

- 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
- **(NEW!) Insulation Kit** - Adds additional 5/8" insulation to three sides of the **SPXA** units. (see pages 5 & 8)

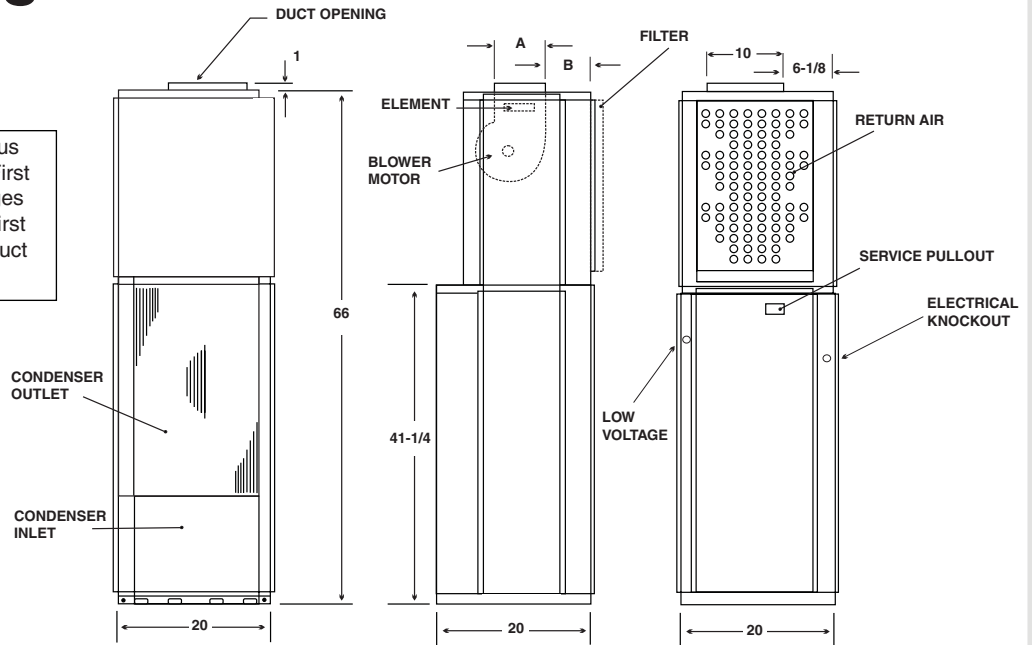
SPXA Series

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.



	A	B
9,12,18SPXA	6-1/2	6-1/2
24SPXA	10	3



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		208V	230V	208V	230V		
	230V	208V	230V	208V	230V	208V	AMPS	HP	RLA	LRA	FLA	HP						
9SPXA	-0	0	0	0	0.0	0.0							7	7	15	15	245	
	-2	2	1.5	6800	5100	9.0	7.9	.72	1/8	4.4	25	.50	1/15	10	12	15		15
	-3	3	2.25	10200	7700	13.2	11.5							15	17	15		20
	-4	4	3	13600	10200	17.4	15.1							19	22	20		25
12SPXA	-0	0	0	0	0.0	0.0							9	9	15	15	245	
	-2	2	1.5	6800	5100	9.0	7.9	.72	1/8	5.6	29	.72	1/10	10	12	15		15
	-3	3	2.25	10200	7700	13.2	11.5							15	17	15		20
	-4	4	3	13600	10200	17.4	15.1							19	22	20		25
	-5	4.5	3.38	15350	11500	19.5	17.0							22	25	25		25
18SPXA	-0	0	0	0	0.0	0.0							12	12	20	20	255	
	-2	2	1.5	6800	5100	9.2	8.1							12	12	20		20
	-3	3	2.25	10200	7700	13.4	11.7							15	17	20		20
	-4	4	3	13600	10200	17.6	15.3	.87	1/8	6.5	43	.72	1/10	19	22	20		25
	-5	4.5	3.38	15350	11500	19.6	17.1							22	25	25		25
	-6	6	4.5	20500	15350	25.9	22.5							28	33	30		35
	-8	8	6.0	27300	20500	34.2	29.7							37	43	40		45
-10	9	6.75	30700	23000	38.4	33.3							42	48	45	50		
24SPXA	-0	0	0	0	0.0	0.0							17	17	20	20	255	
	-3	3	2.25	10200	7700	15.3	13.6							17	19	20		20
	-4	4	3	13600	10200	19.5	17.3							21	24	25		25
	-5	4.5	3.38	15350	11500	21.6	19.1	2.8	1/3	9.9	54	.74	1/8	24	27	25		30
	-6	6	4.5	20500	15350	27.8	24.5							30	35	30		35
	-8	8	6.0	27300	20500	36.2	31.7							39	45	40		45
	-10	9	6.75	30700	23000	40.3	35.3							44	50	45		50

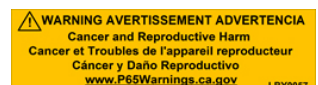
BLOWER DATA									
UNIT MODEL	MOTOR SPEED CONN. (1)	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
9SPXA	HIGH	490	480	465	450	440	430	420	410
	MED (H & C)	390	380	370	360	350	340	330	320
	LOW	310	300	290	280	270	260	245	230
12SPXA	HIGH	490	480	470	460	450	440	425	410
	MED (H & C)	400	390	380	370	360	350	335	320
	LOW	310	300	290	280	270	260	250	240
18SPXA	HIGH	740	730	715	700	685	670	650	630
	MED (C)	670	660	645	630	615	600	585	570
	LOW (H)	560	550	545	530	515	500	485	470
24SPXA	HIGH	920	900	880	860	835	810	785	760
	MED (C)	870	860	850	840	820	800	775	750
	LOW (H)	760	750	740	730	720	710	700	690

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
9SPXA	8900	9.0
12SPXA	11500	9.0
18SPXA	17400	9.0
24SPXA	21500	9.0

(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.

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



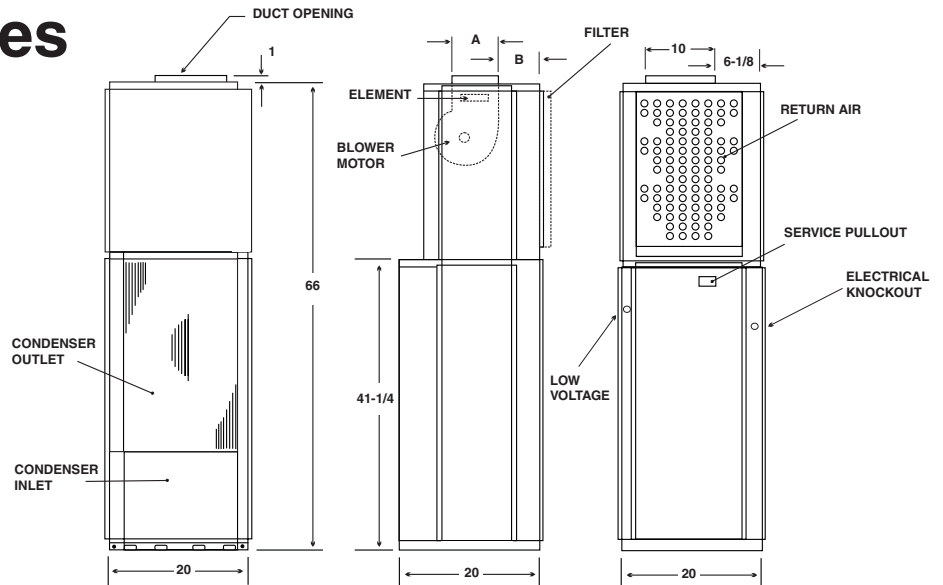
SPXA-HP Series

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.



	A	B
9,12,18SPXA-HP	6-1/2	6-1/2
24SPXA-HP	10	3



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							
	230V	208V	230V	208V	230V	208V	AMPS	HP	RLA	LRA	FLA	HP	208V	230V	208V	230V		
9SPXA -HP	-2	2	1.5	6800	5100	9.0	7.9	.72	1/8	4.4	25	.50	1/15	10	12	15	15	245
	-3	3	2.25	10200	7700	13.2	11.5							15	17	15	20	
	-4	4	3	13600	10200	17.4	15.1							19	22	20	25	
12SPXA -HP	-2	2	1.5	6800	5100	9.0	7.9	.72	1/8	5.6	29	.72	1/10	10	12	15	15	245
	-3	3	2.25	10200	7700	13.2	11.5							15	17	15	20	
	-4	4	3	13600	10200	17.4	15.1							19	22	20	25	
	-5	4.5	3.38	15350	11500	19.5	17.0							22	25	25	25	
18SPXA -HP	-2	2	1.5	6800	5100	9.2	8.1	.87	1/8	6.5	43	.72	1/10	12	12	20	20	255
	-3	3	2.25	10200	7700	13.4	11.7							15	17	20	20	
	-4	4	3	13600	10200	17.6	15.3							19	22	20	25	
	-5	4.5	3.38	15350	11500	19.6	17.1							22	25	25	25	
	-6	6	4.5	20500	15350	25.9	22.5							28	33	30	35	
	-8	8	6.0	27300	20500	34.2	29.7							37	43	40	45	
24SPXA -HP	-3	3	2.25	10200	7700	15.3	13.6	2.8	1/3	9.9	54	.74	1/8	17	19	20	20	255
	-4	4	3	13600	10200	19.5	17.3							21	24	25	25	
	-5	4.5	3.38	15350	11500	21.6	19.1							24	27	25	30	
	-6	6	4.5	20500	15350	27.8	24.5							30	35	30	35	
	-8	8	6.0	27300	20500	36.2	31.7							39	45	40	45	
	-10	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
9SPXA-HP	HIGH	490	480	465	450	440	430	420	410
	MED (H & C)	390	380	370	360	350	340	330	320
	LOW	310	300	290	280	270	260	245	230
12SPXA-HP	HIGH	490	480	470	460	450	440	425	410
	MED (H & C)	400	390	380	370	360	350	335	320
	LOW	310	300	290	280	270	260	250	240
18SPXA-HP	HIGH	740	730	715	700	685	670	650	630
	MED (C)	670	660	645	630	615	600	585	570
	LOW (H)	560	550	545	530	515	500	485	470
24SPXA-HP	HIGH	920	900	880	860	835	810	785	760
	MED (C)	870	860	850	840	820	800	775	750
	LOW(H)	760	750	740	730	720	710	700	690

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

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
9SPXA-HP	8900	9.0
12SPXA-HP	11400	9.0
18SPXA-HP	17200	9.0
24SPXA-HP	21300	9.0

(1) 95°F DB/75°F WB outdoor - 80°F DB/67°F WB indoor.
(2) Tested in accordance with AHRI Standard 390.

HEATING / PERFORMANCE DATA (3)		
UNIT MODEL	STANDARD RATING (1)	COP (47°)
	BTUH	
9SPXA-HP	8500	3.0
12SPXA-HP	11500	3.0
18SPXA-HP	16700	3.0
24SPXA-HP	20300	3.0

(1) 47°F DB/43°F WB outdoor,
70°F DB/60°F WB indoor.



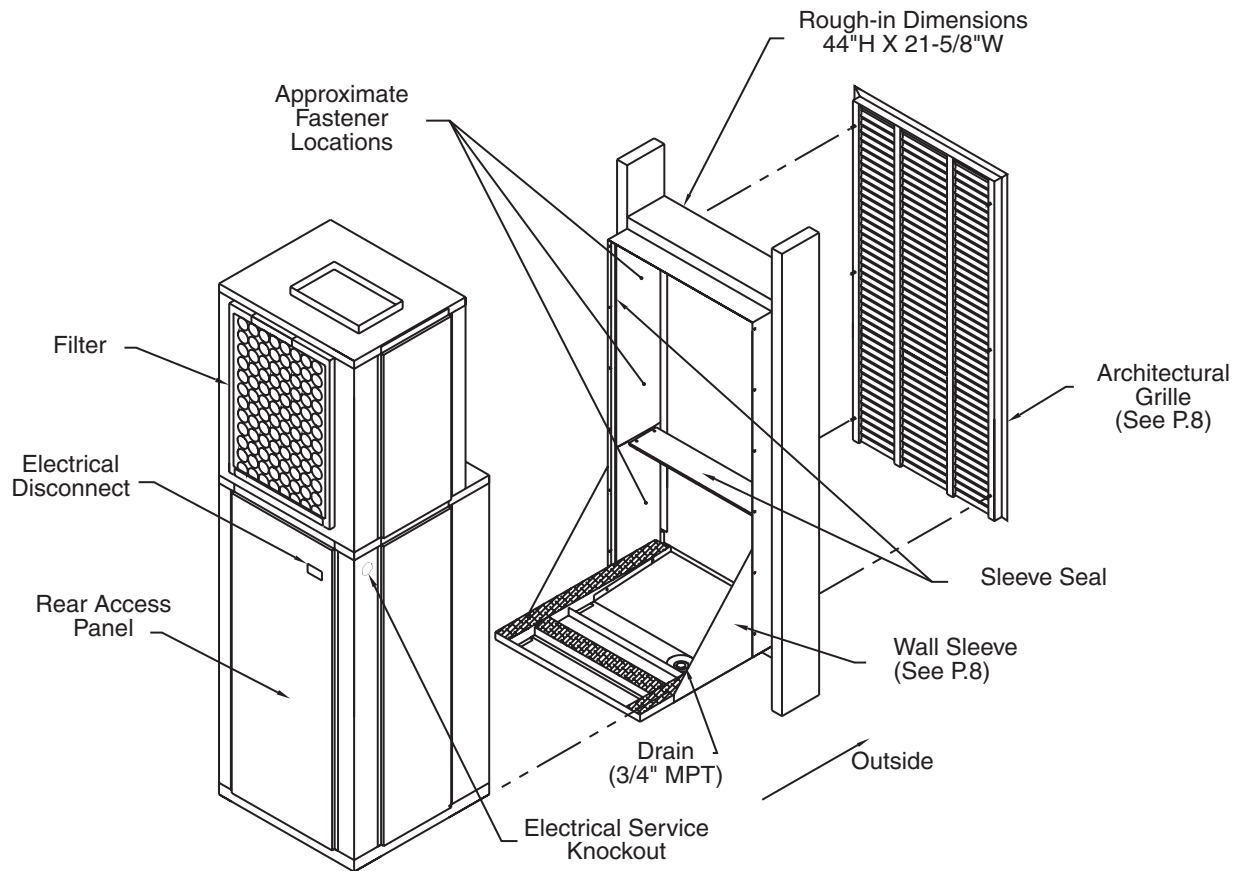


Figure 1 - General Assembly

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 **SPXA** unit. The sensor will re-energize the SPU unit when the coil warms back up.
- **Low ambient lockout** – Locks out compressor when the sensor registers temperatures of 40 degrees 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.
- **Front desk control** – When wired to a front desk console, each unit can then be enabled or disabled from the front desk, thus saving the energy used to condition unoccupied rooms.
- **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. **Adjustable fresh air (manual)** - To meet code requirements for fresh air introduction. When opened, the fresh air vent (see Figure 8) allows up to 50 CFM of outside air to be introduced into the equipment closet. The air then mixes with return air entering the closet through the return air grille.

4. **Wall-mounted thermostat** – (See “accessories”, P.8) The **SPXA** 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.

5. 40VA transformer

FEATURES AND BENEFITS (CONT.)

5. **Wall Sleeve** – (See Figures 1, 4 and 5) Rear or side install wall sleeves are provided for installation during rough-in and, when ready, the **SPXA** 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 **SPXA** 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. **Unique "Sleeve Drain" Condensate System** - (Also see Figure 4) A factory installed drain line connects the evaporator drain pan to a vertical pipe connection in the **SPXA** base pan. Evaporator condensate is delivered from the **SPXA** 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 **SPXA** unit to be removed for service without disconnecting the condensate



"Rear Install" sleeve shown

pipng! This configuration does not require any additional closet space to make the drain connection, as do some competitive products.

7. **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.
8. **Ductable return air** – Return air can be ducted to the unit. However, most installations would not normally require ducted return air.
9. **New "Flush Style" Architectural Grille** – (See Figure 6) This new grille 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 **SPXA** unit into the sleeve before installing the grille.
10. **Filter Brackets** – (See Figure 7) Filter Brackets and throw away filter are shipped with each unit and are field installed over the unit's evaporator coil. Filter size is 18 x 24 x 1.
11. **Insulation kit (#91K01)** - The interior of all **SPXA**'s is lined with 1/2" fiberglass as standard. The 91K01 kit is designed to be used in any application where additional insulation is desired. The kit includes three sections of 5/8" foil faced ductboard insulation that are screwed together in the field and cover the three sides on the condenser section.

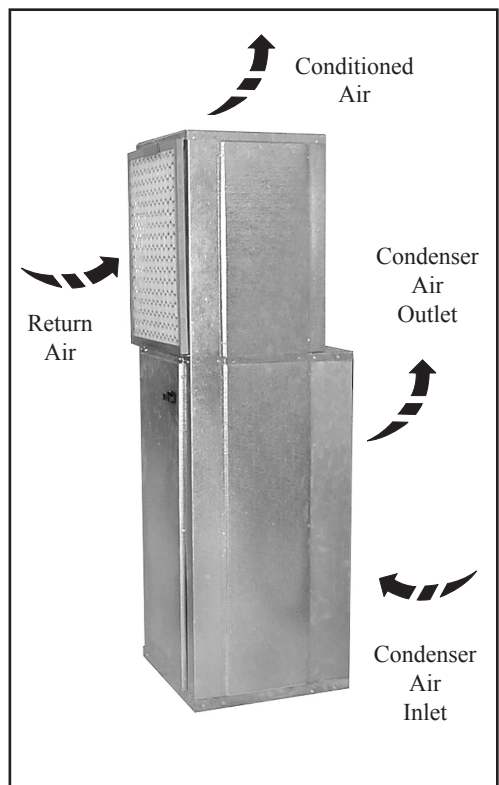
Figure 2



SHOWN WITH OPTIONAL LOUVERED ACCESS PANEL (See P.8)

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

Figure 3



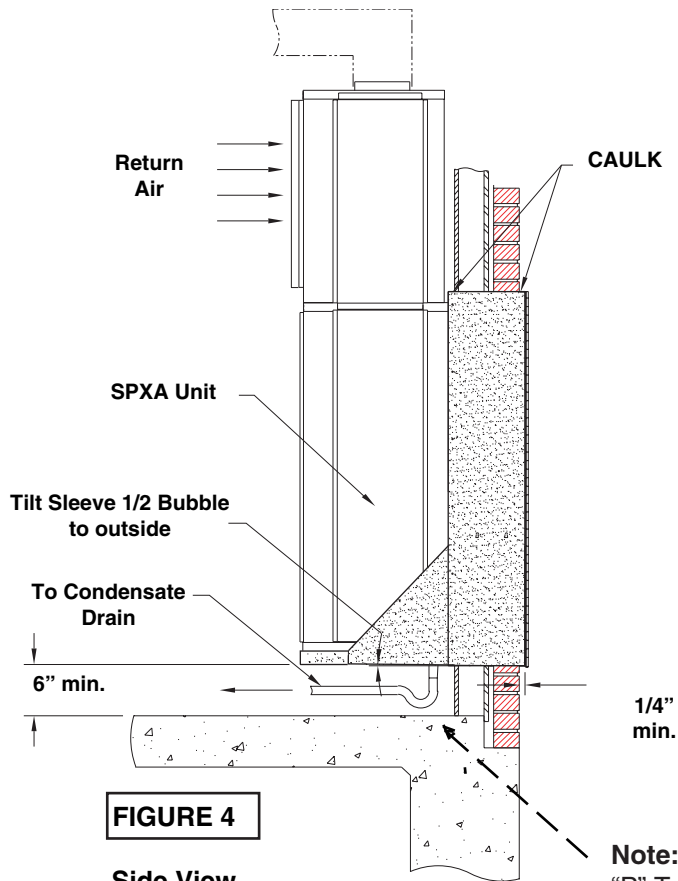


FIGURE 4

**Side View
(with "Rear Install" sleeve)**

Note:
"P" Trap is shown for illustration purposes only - It may not be required by local codes.



FIGURE 5

Side Install Sleeve

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

UNIT / SLEEVE DIMENSIONS					
Part Number		Fits Wall Thickness	A	B	C
Rear Install	Side Install				
936-1B	936-11B	5" - 8" wall	9"	17"	26"
936-2B	936-12B	8" - 12" wall	13"	17"	30"
936-3B	936-13B	12" - 15" wall	16"	17"	33"
936-4B	936-14B	15" - 20" wall	21"	17"	38"

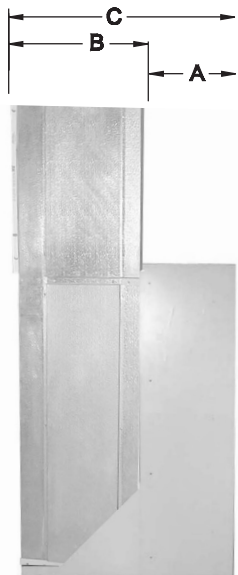


FIGURE 6

(Unit shown with "Rear Install" sleeve)

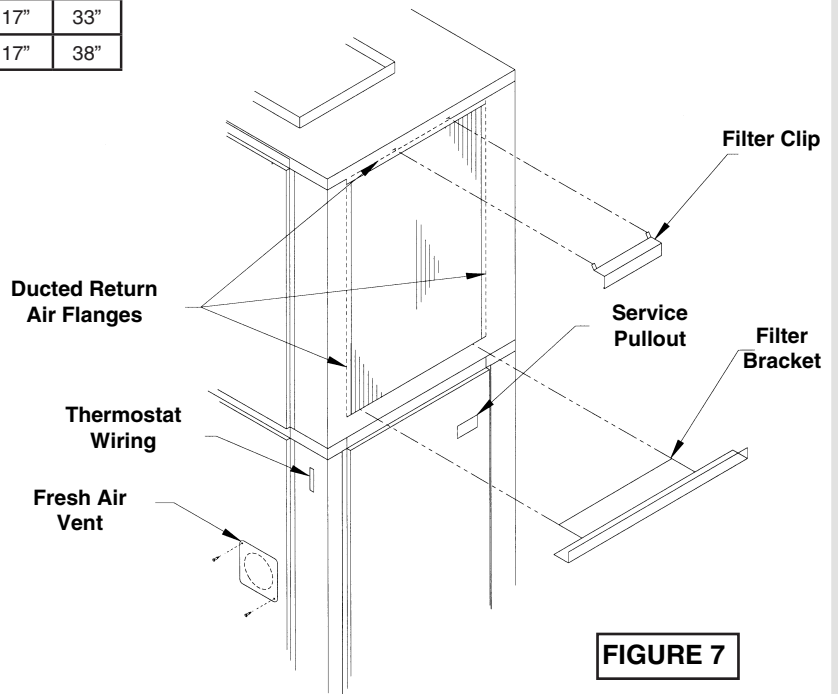


FIGURE 7

Filter Bracket Detail

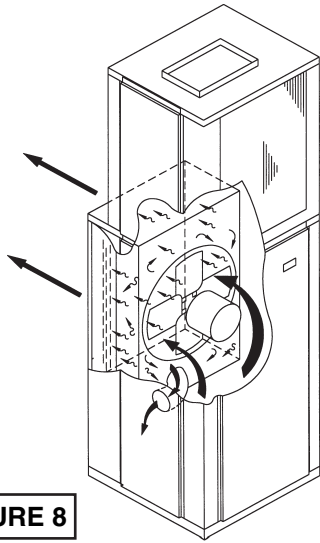
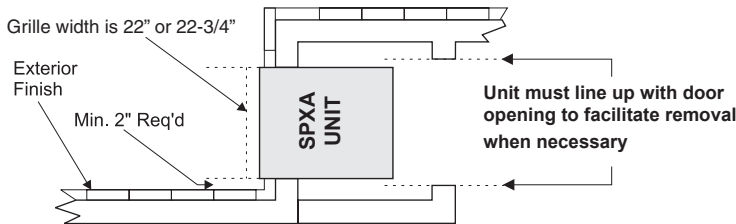


FIGURE 8

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 **SPXA** cabinet. A mesh screen is installed inside the vent pipe and a metal plate on the side of the cabinet covers the opening of the vent pipe. Up to 50 CFM of fresh air is introduced into the equipment closet by removing the metal cover plate. The fresh air then mixes with the return air and is then pulled through the evaporator coil and into the supply duct. The cover plate can be re-installed to partially close the fresh 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 fresh air. Consult with factory for further details.

SPXA Rear Installation Detail



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 **SPXA** unit.

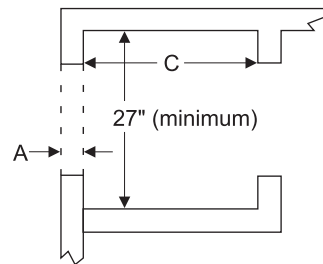
SPXA Closet Dimensions - Rear Installation

Instructions:

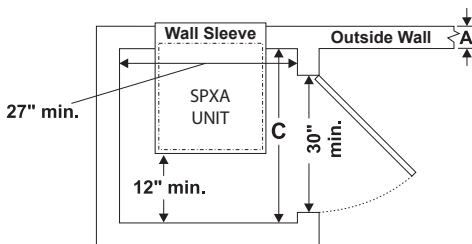
To find the minimum closet depth (dimension "C"), use the following method:

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")



SPXA Closet Dimensions - Side Installation



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")

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 **SPXA** unit and 12" clearance on the rear of the unit.

ACCESSORIES (sleeves, louver, and thermostat required for each installation)								
ACCESSORY	DESCRIPTION	DIMENSIONS (HXWXD)	PART NUMBERS				SHIP WT. (EA)	
			STANDARD SLEEVES		HURRICANE (5)			
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
WALL SLEEVES (2)	For 5" - 8" thick walls	43-3/4 x 21-3/8 x 26	936-1B	936-11B	936-1H	936-11H	59 (4)	64 (4)
	For 8" - 12" thick walls	43-3/4 x 21-3/8 x 30	936-2B	936-12B	936-2H	936-12H	63 (4)	68 (4)
	For 12" - 15" thick walls	43-3/4 x 21-3/8 x 33	936-3B	936-13B	936-3H	936-13H	68 (4)	73 (4)
	For 15" - 20" thick walls	43-3/4 x 21-3/8 x 38	936-4B	936-14B	936-4H	936-14H	75 (4)	80 (4)
ARCHITECTURAL GRILLES			Custom Painted	For Field Painting	Anodized Aluminum			
	Standard	44 x 22	G205S (1)	G205PPA	G205A	---	12	
	Hurricane	45-5/8 x 22-3/4	G215S (1)	G215P	G215A	---	22	
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			---	---	

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 SPXA unit and is recommended over "side install" wherever possible.
- (3) Side install application requires different closet size and configuration. (See P.7) 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)

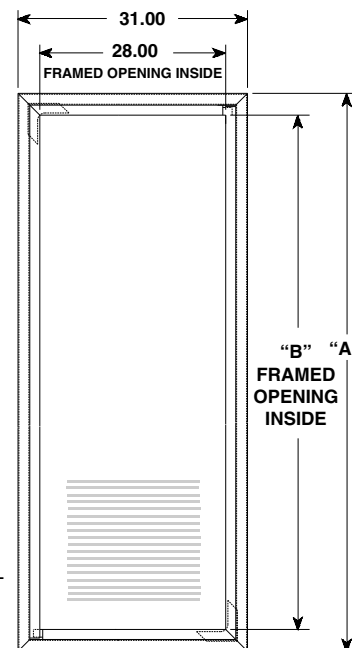
OPTIONAL ACCESSORIES (field installed)					
COMPONENT	DESCRIPTION	DIMENSIONS (H X W)		PART NUMBER	SHIP WT.
ACCESS / RETURN AIR PANEL (3)(4)	LOUVERED (1)	FRAME	OPENING	931-11	55
	NON-LOUVERED (2)	87 X 31	84 X 28		
	LOUVERED (1)	82 X 31	79 X 28	931-13	55
	NON-LOUVERED (2)	82 X 31	79 X 28	931-14	
INSULATION KIT	5/8" DUCTBOARD	N/A		91K01	---

NOTES:

- (1) Includes 18 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.

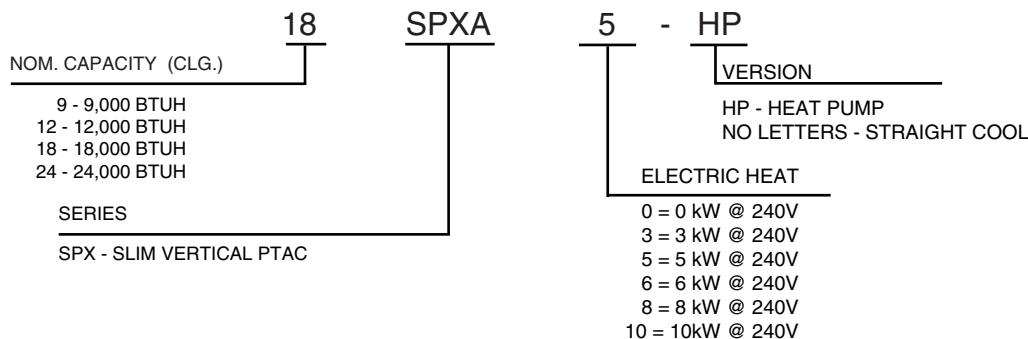


(91K01)



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

MODEL NUMBER NOMENCLATURE



PART NO.	"A"	"B"
931-11	87.00	84.00
931-13	82.00	79.00



FIRST CO.
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eco series

COOL-PAK™

Single Package Vertical Unit

Straight Cool and Heat Pump

3/4 through 2.5 tons, up to 10 kW Electric Heat

NEW 2.5 TON

11.0 EER!!



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

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

STANDARD FEATURES: (see pages 7,8 and 9 for further information)

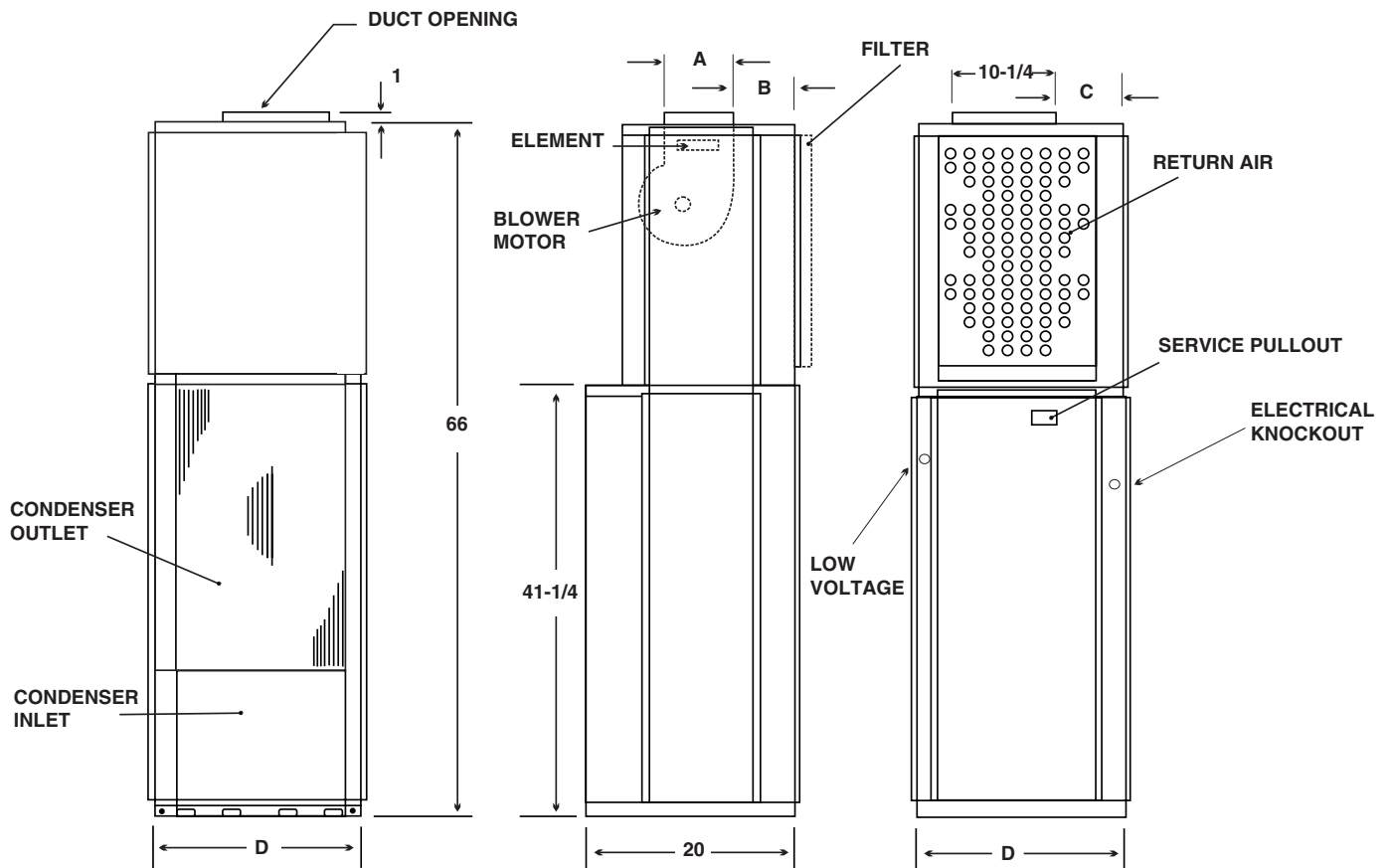
- Completely pre-charged with environmentally friendly R-410A refrigerant
- Easy access for in-place service of most components
- Multi-function micro-processor board that includes the following functions:
 - Evaporator coil low temperature protection
 - Low ambient lockout
 - ECM motor utilized on all 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 page 14-15)

- 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
- **(NEW!) Insulation Kit** - Adds additional 5/8" insulation to three sides of the unit. (See pages 9 & 15)

Eco Series

cooling or heat pump



	A	B	C	D	FILTER
9,12,18	6-1/2	6-1/8	6-5/8	20	18 x 24 x 1
24,30	10	2-1/2	8	26	24 x 24 x 1

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.



Eco Series

cooling or heat pump

BLOWER DATA - COOL-PAK (AC)									
UNIT MODEL	MOTOR SPEED CONN. (1)	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
ECE09	HIGH	490	475	465	455	450	440	430	425
	MED (C)	390	380	370	360	350	340	330	320
	LOW (H)	320	310	300	290	280	270	260	250
ECE12	HIGH	500	485	475	465	460	450	445	440
	MED (C)	430	420	410	400	390	385	375	370
	LOW (H)	350	340	330	320	310	305	295	285
ECE18	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
ECE24	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
ECE30	TAP 3	910	900	895	890	885	880	875	870
	TAP 2 (C)	845	840	835	830	825	820	815	810
	TAP 1 (H)	740	730	725	720	715	710	700	690

BLOWER DATA - COOL-PAK (HP)									
UNIT MODEL	MOTOR SPEED CONN. (1)	CFM vs EXTERNAL STATIC PRESSURE							
		0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
EHE09	HIGH	490	475	465	455	450	440	430	425
	MED (C)	390	380	370	360	350	340	330	320
	LOW (H)	320	310	300	290	280	270	260	250
EHE12	HIGH	500	485	475	465	460	450	445	440
	MED (C)	430	420	410	400	390	385	375	370
	LOW (H)	350	340	330	320	310	305	295	285
EHE18	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
EHE24	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
EHE30	TAP 3	910	900	895	890	885	880	875	870
	TAP 2 (C)	845	840	835	830	825	820	815	810
	TAP 1 (H)	740	730	725	720	715	710	700	690

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
ECE092**A*	9200	11.0
ECE122**A*	11700	11.0
ECE182**A*	17600	11.0
ECE242**A*	22400	11.0
ECE302**A*	27800	11.0

- (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.

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
EHE092**A*	9100	11.0
EHE122**A*	11200	11.0
EHE182**A*	16800	11.0
EHE242**A*	22200	11.0
EHE302**A*	27600	11.0

- (1) 95°F DB/75°F WB outdoor - 80°F DB/67°F WB indoor.
- (2) Tested in accordance with AHRI Standard 390.

HEATING / PERFORMANCE DATA (3)		
UNIT MODEL	STANDARD RATING (1)	COP (47°)
	BTUH	
EHE092**A*	8800	3.5
EHE122**A*	10700	3.3
EHE182**A*	15700	3.5
EHE242**A*	20800	3.5
EHE302**A*	25200	3.3

- (1) 47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor.

Model Number	Electric Heat Data						Blower Data		Condenser Data				Min. Circuit Ampacity		Max. Circuit Protection	
	KW		BTUH		Total Heating Amps*		Evaporator Motor		Compressor		Condenser Motor		208V	240V	208V	240V
	240V	208V	240V	208V	240V	208V	FLA	HP	RLA	LRA	FLA	HP				
EC E09200A00A000F	0	0	0	0	0	0	2.3	1/4	4.4	25	2.3	1/4	10	10	15	15
ECE09202A00A000F	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.4	25	2.3	1/4	12	13	15	15
ECE09203A00A000F	3	2.25	10200	7700	14.8	13.1	2.3	1/4	4.4	25	2.3	1/4	16	19	20	20
ECE09204A00A000F	4	3	13600	10200	19	16.7	2.3	1/4	4.4	25	2.3	1/4	21	24	25	25
ECE12200A00A000F	0	0	0	0	0	0	2.3	1/4	4.7	25	2.3	1/4	10	10	15	15
ECE12202A00A000F	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.7	25	2.3	1/4	12	13	15	15
ECE12203A00A000F	3	2.25	10200	7700	14.8	13.1	2.3	1/4	4.7	25	2.3	1/4	16	19	20	20
ECE12204A00A000F	4	3	13600	10200	19	16.7	2.3	1/4	4.7	25	2.3	1/4	21	24	25	25
ECE12205A00A000F	4.5	3.38	15400	11500	21.1	18.6	2.3	1/4	4.7	25	2.3	1/4	23	26	25	30
ECE18200A00A000F	0	0	0	0	0	0	2.8	1/3	9	56.3	2.3	1/4	16	16	25	25
ECE18202A00A000F	2	1.5	6800	5100	11.1	10	2.8	1/3	9	56.3	2.3	1/4	16	16	25	25
ECE18203A00A000F	3	2.25	10200	7700	15.3	13.6	2.8	1/3	9	56.3	2.3	1/4	17	19	25	25
ECE18204A00A000F	4	3	13600	10200	19.5	17.2	2.8	1/3	9	56.3	2.3	1/4	22	24	25	25
ECE18205A00A000F	4.5	3.38	15400	11500	21.6	19.1	2.8	1/3	9	56.3	2.3	1/4	24	27	25	30
ECE18206A00A000F	6	4.5	20500	15400	27.8	24.4	2.8	1/3	9	56.3	2.3	1/4	31	35	35	35
ECE18208A00A000F	8	6	27300	20500	36.1	31.6	2.8	1/3	9	56.3	2.3	1/4	40	45	40	45
ECE18210A00A000F	9	6.75	30700	23000	40.3	35.3	2.8	1/3	9	56.3	2.3	1/4	44	50	45	50
ECE24200A00B000F	0	0	0	0	0	0	2.8	1/3	10.9	62.9	2.3	1/4	19	19	25	25
ECE24203A00B000F	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
ECE24204A00B000F	4	3	13600	10200	19.5	17.2	2.8	1/3	10.9	62.9	2.3	1/4	22	24	25	25
ECE24205A00B000F	4.5	3.38	15400	11500	21.6	19.1	2.8	1/3	10.9	62.9	2.3	1/4	24	27	25	30
ECE24206A00B000F	6	4.5	20500	15400	27.8	24.4	2.8	1/3	10.9	62.9	2.3	1/4	31	35	35	35
ECE24208A00B000F	8	6	27300	20500	36.1	31.6	2.8	1/3	10.9	62.9	2.3	1/4	40	45	40	45
ECE24210A00B000F	9	6.75	30700	23000	40.3	35.3	2.8	1/3	10.9	62.9	2.3	1/4	44	50	45	50
ECE30200A00B000F	0	0	0	0	0	0	4.1	1/2	12.8	67.8	1.9	1/3	22	22	30	30
ECE30203A00B000F	3	2.25	10200	7700	16.6	14.9	4.1	1/2	12.8	67.8	1.9	1/3	22	22	30	30
ECE30204A00B000F	4	3	13600	10200	20.8	18.5	4.1	1/2	12.8	67.8	1.9	1/3	23	26	30	30
ECE30205A00B000F	4.5	3.38	15400	11500	22.9	20.4	4.1	1/2	12.8	67.8	1.9	1/3	26	29	30	30
ECE30206A00B000F	6	4.5	20500	15400	29.1	25.7	4.1	1/2	12.8	67.8	1.9	1/3	32	36	35	40
ECE30208A00B000F	8	6	27300	20500	37.4	32.9	4.1	1/2	12.8	67.8	1.9	1/3	41	47	45	50
ECE30210A00B000F	9	6.75	30700	23000	41.6	36.6	4.1	1/2	12.8	67.8	1.9	1/3	46	52	50	60
EHE09202A00A000F	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.4	25	2.3	1/4	12	13	15	15
EHE09203A00A000F	3	2.25	10200	7700	14.8	13.1	2.3	1/4	4.4	25	2.3	1/4	16	19	20	20
EHE09204A00A000F	4	3	13600	10200	19	16.7	2.3	1/4	4.4	25	2.3	1/4	21	24	25	25
EHE12202A00A000F	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.7	25	2.3	1/4	12	13	15	15
EHE12203A00A000F	3	2.25	10200	7700	14.8	13.1	2.3	1/4	4.7	25	2.3	1/4	16	19	20	20
EHE12204A00A000F	4	3	13600	10200	19	16.7	2.3	1/4	4.7	25	2.3	1/4	21	24	25	25
EHE12205A00A000F	4.5	3.38	15400	11500	21.1	18.6	2.3	1/4	4.7	25	2.3	1/4	23	26	25	30
EHE18202A00A000F	2	1.5	6800	5100	11.1	10	2.8	1/3	9	56.3	2.3	1/4	16	16	25	25
EHE18203A00A000F	3	2.25	10200	7700	15.3	13.6	2.8	1/3	9	56.3	2.3	1/4	17	19	25	25
EHE18204A00A000F	4	3	13600	10200	19.5	17.2	2.8	1/3	9	56.3	2.3	1/4	22	24	25	25
EHE18205A00A000F	4.5	3.38	15400	11500	21.6	19.1	2.8	1/3	9	56.3	2.3	1/4	24	27	25	30
EHE18206A00A000F	6	4.5	20500	15400	27.8	24.4	2.8	1/3	9	56.3	2.3	1/4	31	35	35	35
EHE18208A00A000F	8	6	27300	20500	36.1	31.6	2.8	1/3	9	56.3	2.3	1/4	40	45	40	45
EHE18210A00A000F	9	6.75	30700	23000	40.3	35.3	2.8	1/3	9	56.3	2.3	1/4	44	50	45	50
EHE24203A00B000F	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
EHE24204A00B000F	4	3	13600	10200	19.5	17.2	2.8	1/3	10.9	62.9	2.3	1/4	22	24	25	25
EHE24205A00B000F	4.5	3.38	15400	11500	21.6	19.1	2.8	1/3	10.9	62.9	2.3	1/4	24	27	25	30
EHE24206A00B000F	6	4.5	20500	15400	27.8	24.4	2.8	1/3	10.9	62.9	2.3	1/4	31	35	35	35
EHE24208A00B000F	8	6	27300	20500	36.1	31.6	2.8	1/3	10.9	62.9	2.3	1/4	40	45	40	45
EHE24210A00B000F	9	6.75	30700	23000	40.3	35.3	2.8	1/3	10.9	62.9	2.3	1/4	44	50	45	50
EHE30203A00B000F	3	2.25	10200	7700	16.6	14.9	4.1	1/2	12.8	67.8	1.9	1/3	22	22	30	30
EHE30204A00B000F	4	3	13600	10200	20.8	18.5	4.1	1/2	12.8	67.8	1.9	1/3	23	26	30	30
EHE30205A00B000F	4.5	3.38	15400	11500	22.9	20.4	4.1	1/2	12.8	67.8	1.9	1/3	26	29	30	30
EHE30206A00B000F	6	4.5	20500	15400	29.1	25.7	4.1	1/2	12.8	67.8	1.9	1/3	32	36	35	40
EHE30208A00B000F	8	6	27300	20500	37.4	32.9	4.1	1/2	12.8	67.8	1.9	1/3	41	47	45	50
EHE30210A00B000F	9	6.75	30700	23000	41.6	36.6	4.1	1/2	12.8	67.8	1.9	1/3	46	52	50	60

* Includes Evap Fan Amps

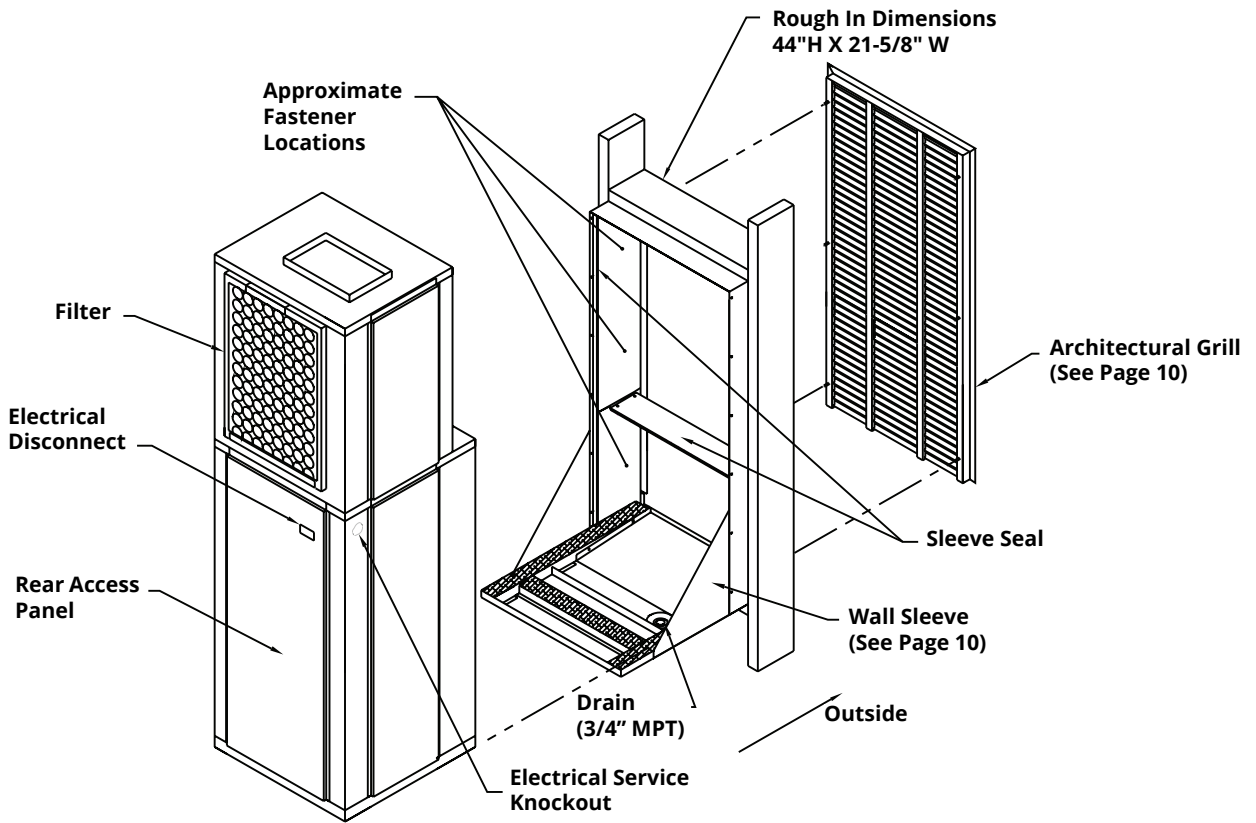


FIGURE 1 - General Assembly for Standard Sleeve and Grill

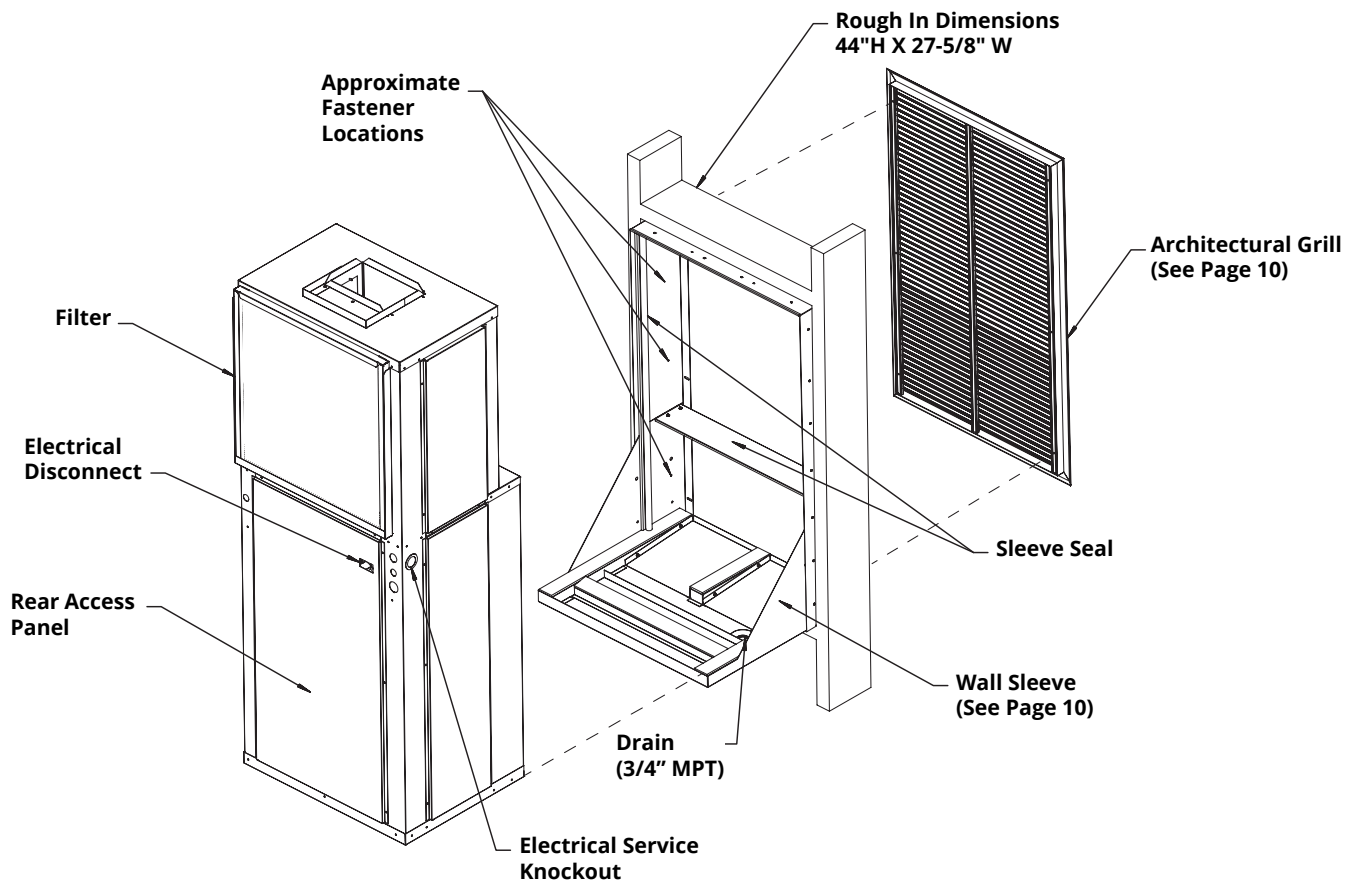


FIGURE 1A - General Assembly for Large Sleeve and Grill size 24

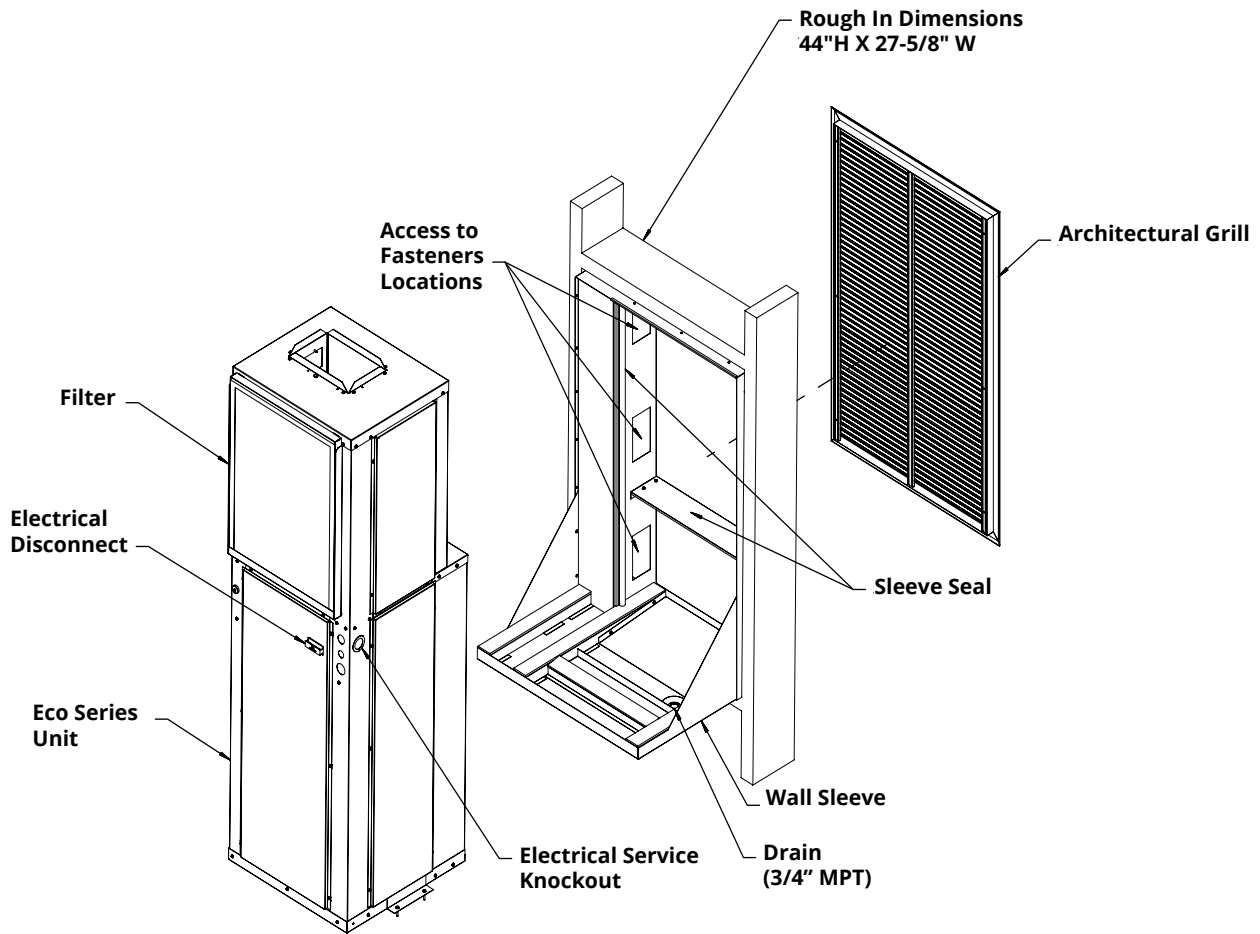


FIGURE 1B - General Assembly for Large Sleeve and Grill for 09-18 sizes with block off

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 unit. The sensor will re-energize the 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**

FEATURES AND BENEFITS (CONT.)

- 2. Service Pullout** - Factory installed for service convenience and maintenance.
- 3. Adjustable fresh air (manual)** - To meet code requirements for fresh air introduction. When opened, the fresh air vent (see Figure 8) allows up to 50 CFM of outside air to be introduced into the equipment closet. The air then mixes with return air entering the closet through the return air grille.
- 4. Wall-mounted thermostat** - (See "accessories", P.11) The **Eco series** is easily controlled by a standard low voltage wall thermostat rather than complicated unit-mounted controls. Low voltage wires are "stubbed" out to the left side of the cabinet.
- 5. 40VA transformer**
- 6. Wall Sleeve** - (See Figures 5 and 6) Rear or side install wall sleeves are provided for installation during rough-in and, when ready, the unit simply slides into the sleeve and the ductwork and electrical is connected. The sleeve is a weight-bearing sleeve that supports the entire weight of the 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 4) A factory installed drain line connects the evaporator drain pan to a vertical pipe connection in the 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.



"Standard Rear Install" sleeve shown

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.



FIGURE 2

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.

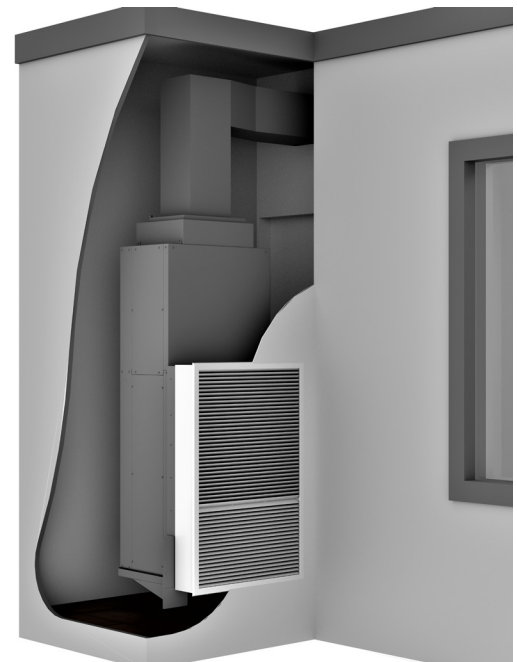
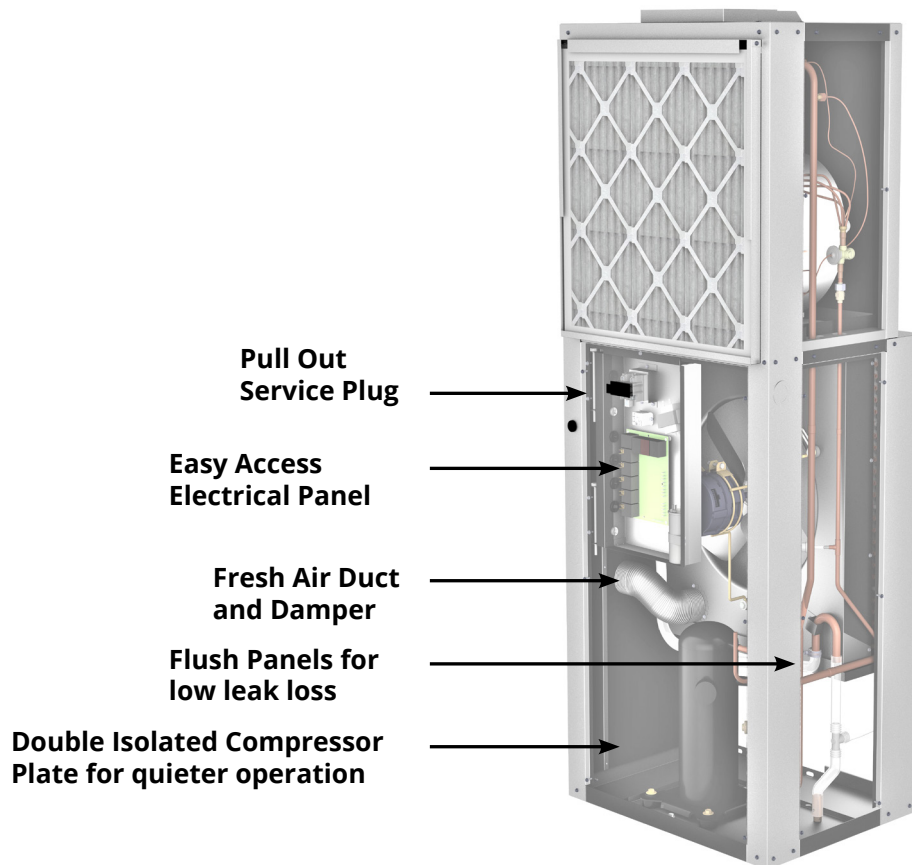


FIGURE 3

FEATURES AND BENEFITS (CONT.)

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.
10. **New “Flush Style” Architectural Grille** – (See Figure 6) This new grille 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 are installed from the inside of the wall sleeve. Do not install the unit into the sleeve before installing the grille.
11. **Filter Brackets** – (See Figure 7) Filter Brackets and a throw away filter are shipped with each unit and are field installed over the unit’s evaporator coil.
12. **Insulation kit (#91K01-91K02)** - The interior of all units are lined with 1/2" fiberglass as standard. The 91K** kit is designed to be used in any application where additional insulation is desired. The kit includes three sections of 5/8" foil faced ductboard insulation that are screwed together in the field and cover the three sides on the condenser section.



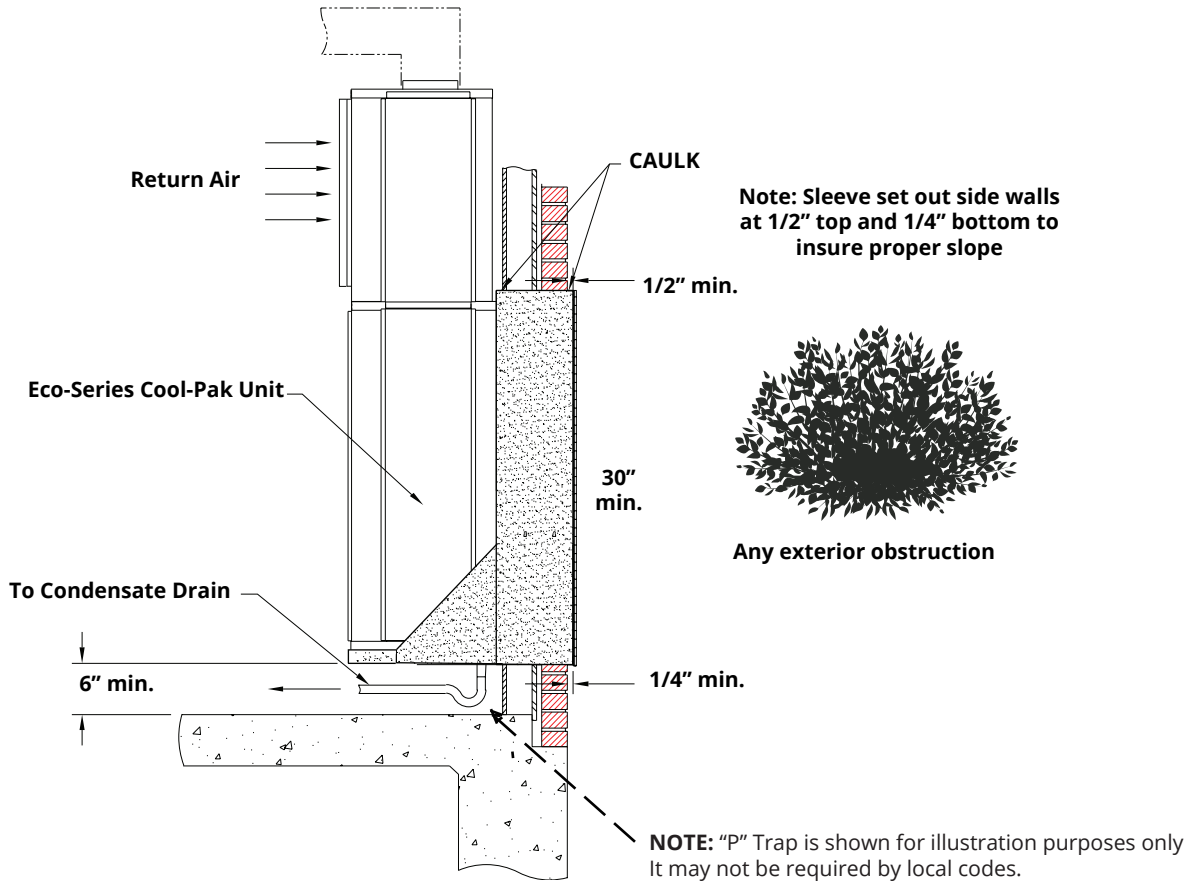


FIGURE 4
Side View
(with "Rear Install" Sleeve)

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

** = wall sleeve regular, large and large with block off see page 14



FIGURE 5
Side install Sleeve

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



FIGURE 6
(Unit shown with "Rear Install" Sleeve)

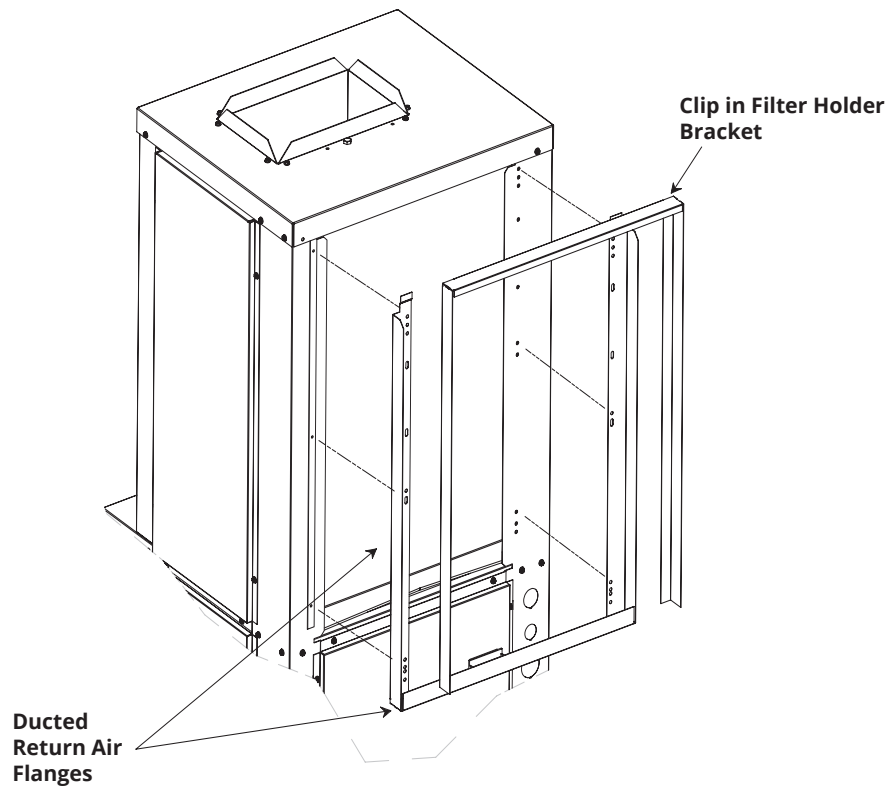


FIGURE 7
Filter Bracket Detail

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 is installed inside the vent pipe and a metal plate on the side of the cabinet covers the opening of the vent pipe.

Up to 50 CFM of fresh air is introduced into the equipment closet by removing the metal cover plate. The fresh air then mixes with the return air and is then pulled through the evaporator coil and into the supply duct. The cover plate can be re-installed to partially close the fresh 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 fresh air. Consult with factory for further details.

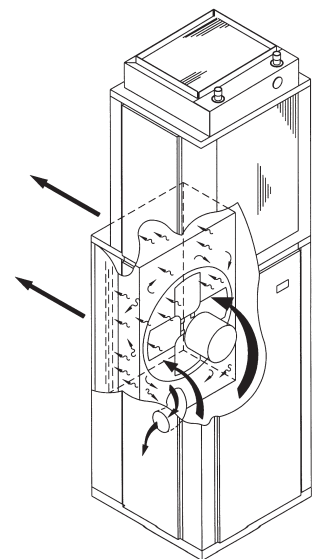
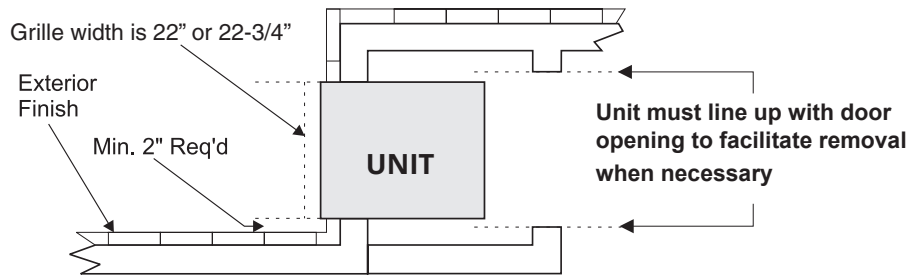


FIGURE 8

Eco Series CLOSET DIMENSIONS

Rear Installation Detail for Small Sleeve 21" Wide (9-18 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 all sides of the unit.
4. Note Hurricane Grill is 3/4" larger

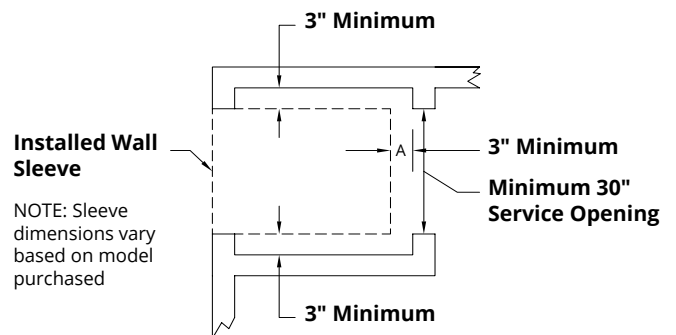
Rear Installation Detail for Small Sleeve 21" Wide (9-18 only)

INSTRUCTIONS:

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

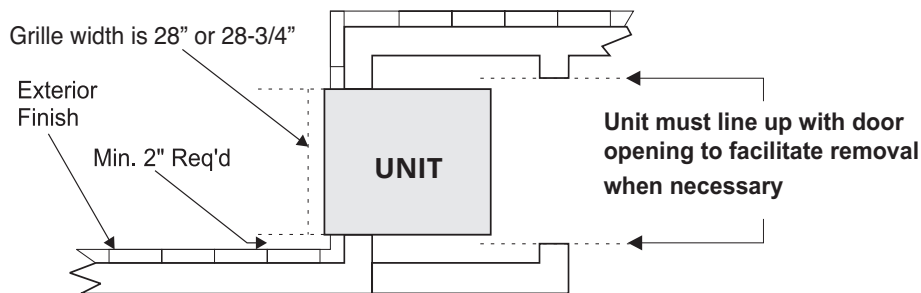
Determine dimension "A" which is the total finished wall thickness.

- 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 Hurricane Grill is 3/4" larger

Eco Series CLOSET DIMENSIONS (CONT.)

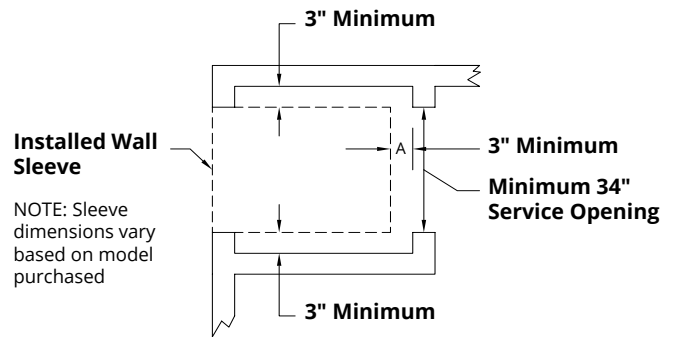
Rear Installation Detail for Large Sleeve 27" Wide (24,30 size or 9-18 with Blockoff)

INSTRUCTIONS:

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

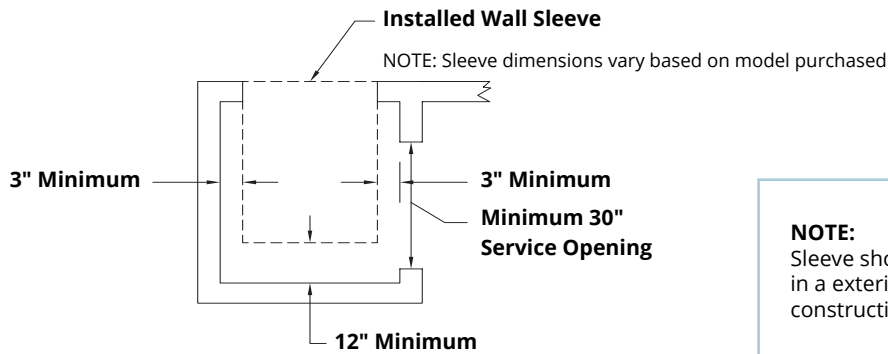
Determine dimension "A" which is the total finished wall thickness.

- 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)



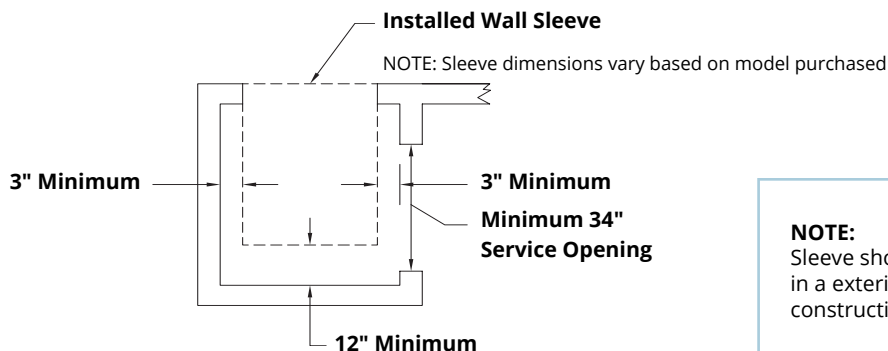
Notes:

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 .

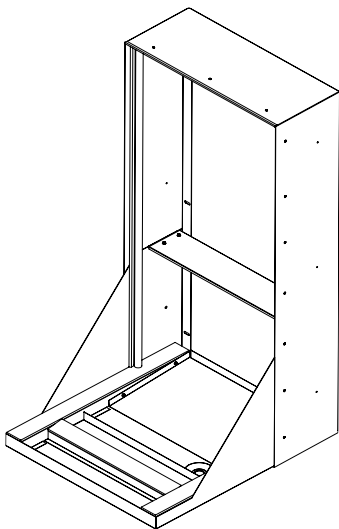
NOTE:

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

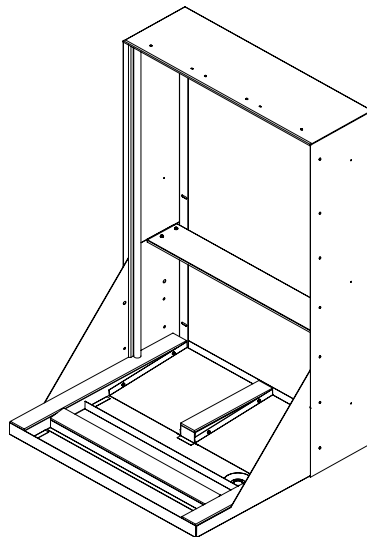
ACCESSORIES (sleeves, louver, and thermostat required for each installation)								
ACCESSORY	DESCRIPTION	DIMENSIONS (HXWXD)	PART NUMBERS				SHIP WT. (EA)	
			STANDARD SLEEVES		HURRICANE (5)		REAR	SIDE
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
STANDARD WALL SLEEVES SIZE 9-18 (2)	For 5" - 8" thick walls	43-3/4 x 21-3/8 x 26	936-1B	936-11B	936-1H	936-11H	59 (4)	64 (4)
	For 8" - 12" thick walls	43-3/4 x 21-3/8 x 30	936-2B	936-12B	936-2H	936-12H	63 (4)	68 (4)
	For 12" - 15" thick walls	43-3/4 x 21-3/8 x 33	936-3B	936-13B	936-3H	936-13H	68 (4)	73 (4)
	For 15" - 20" thick walls	43-3/4 x 21-3/8 x 38	936-4B	936-14B	936-4H	936-14H	75 (4)	80 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
LARGE WALL SLEEVES SIZE 24 & 30 (2)	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	985-1B	985-11B	985-1H	985-11H	63 (4)	68 (4)
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	985-2B	985-12B	985-2H	985-12H	68 (4)	73 (4)
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	985-3B	985-13B	985-3H	985-13H	75 (4)	80 (4)
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	985-4B	985-14B	985-4H	985-14H	79 (4)	84 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
LARGE WALL SLEEVES WITH BLOCK OFF SIZE 9-18 (2)	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	986-1B	986-11B	986-1H	986-11H	63 (4)	68 (4)
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	986-2B	986-12B	986-2H	986-12H	68 (4)	73 (4)
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	986-3B	986-13B	986-3H	986-13H	75 (4)	80 (4)
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	986-4B	986-14B	986-4H	986-14H	79 (4)	84 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
ARCHITECTURAL GRILLES STANDARD			Custom Painted	For Field Painting	Anodized Aluminum			
	Standard	44 x 22	G205S (1)	G205PPA	G205A	---	12	
	Hurricane	45-5/8 x 22-3/4	G215S (1)	G215P	G215A	---	22	
ARCHITECTURAL GRILLES LARGE			Custom Painted	For Field Painting	Anodized Aluminum			
	Standard	44 x 28	G216S (1)	G216PPA	G216A	---	18	
	Hurricane	45-5/8 x 28-3/4	G217S (1)	G217P	G217A	---	28	

NOTES:

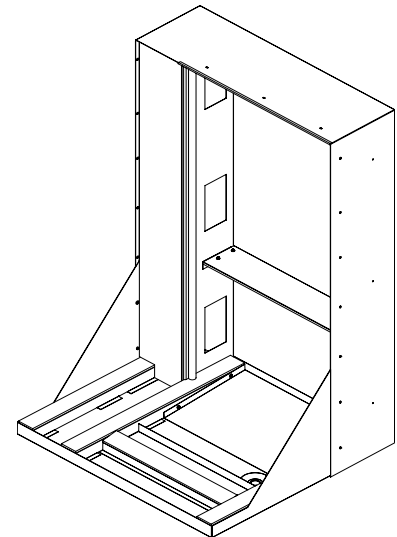
- (1) "S" indicates custom color to be provided by customer. Minimum order quantity is 20 per color.
- (2) Rear install application provides better access to the unit and is recommended over "side install" wherever possible.
- (3) Side install application requires different closet size and configuration. (See P.9) 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 Sleeve for 9,12 and 18 Eco-Series Cool-Pak



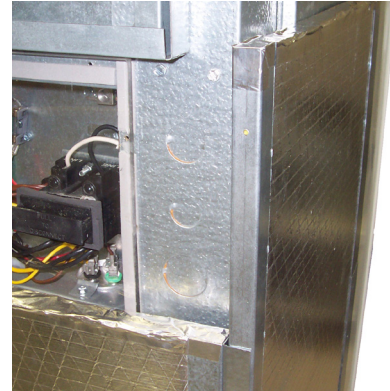
Standard Sleeve for 24 or 30 Eco-Series Cool-Pak (large)



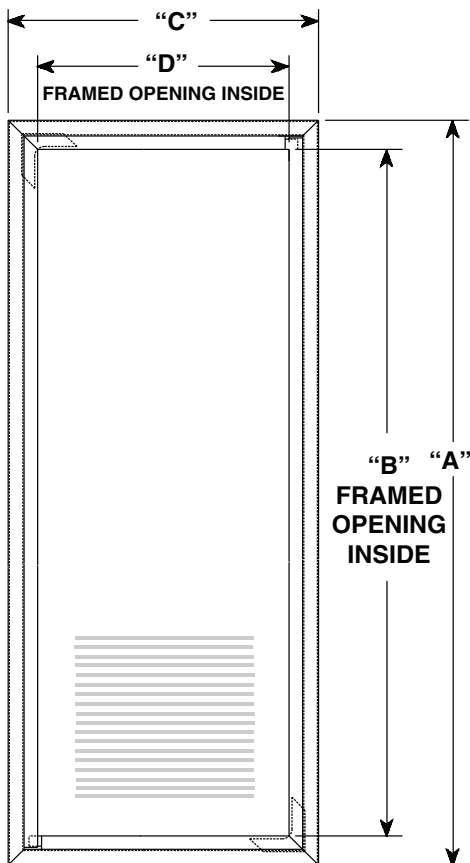
**Large Sleeve for 9,12 and 18 Eco-Series Cool-Pak
If larger grill is needed to match exterior**

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 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 31	84 X 28	931-11	55
	NON-LOUVERED (2)	87 X 31	84 X 28	931-12	
	LOUVERED (1)	82 X 31	79 X 28	931-13	55
	NON-LOUVERED (2)	82 X 31	79 X 28	931-14	
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	
9-18 INSULATION KIT	5/8" DUCTBOARD	N/A		91K01	---
24 INSULATION KIT				91K02	---



91K01 OR 91K02



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

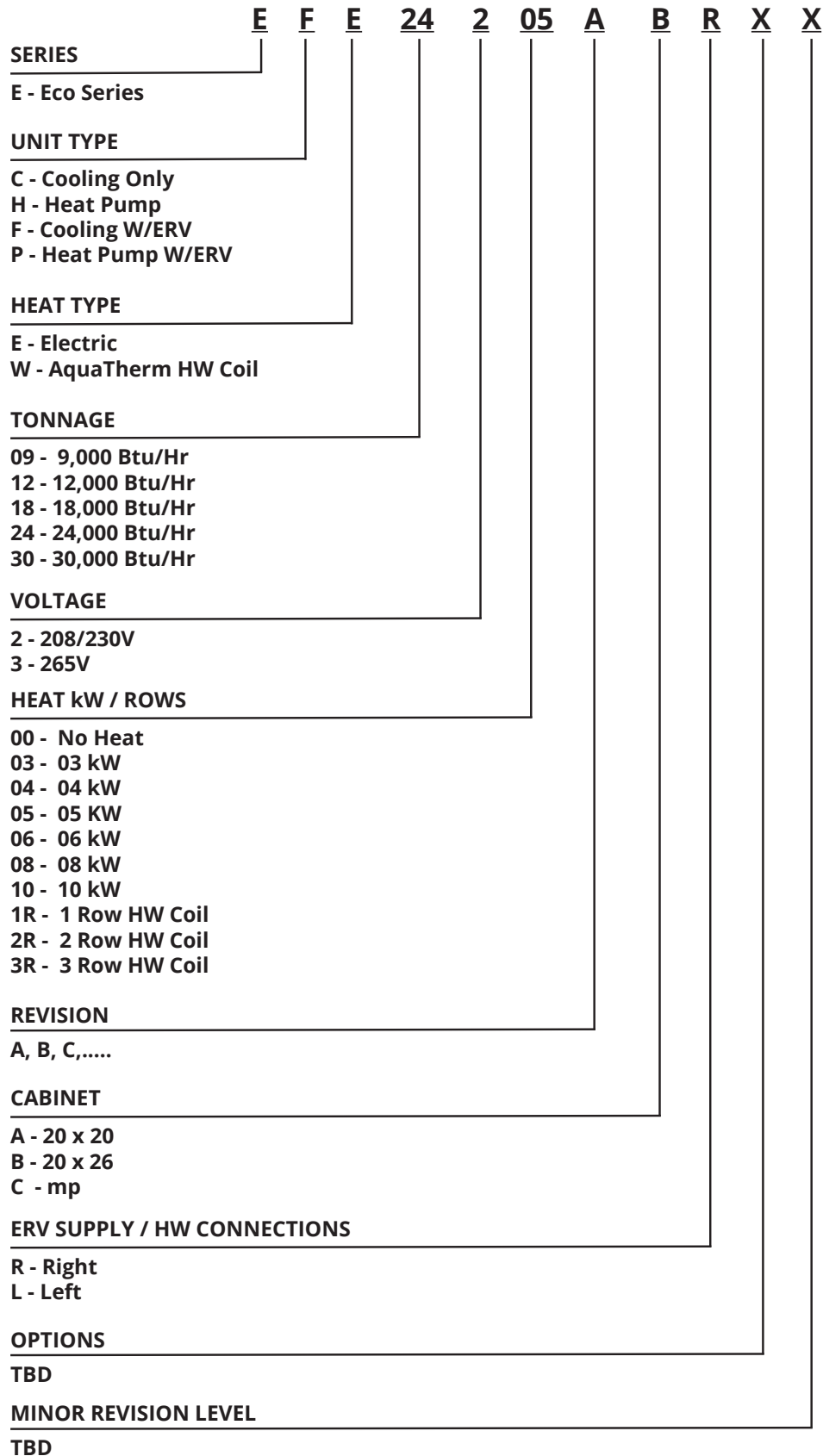
* For rear installation use with size 24 or 30

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



NEW 2.5 Ton
11.0 EER!!



SPXC / SPXC-HP Series Single Package Vertical Unit Straight Cool and Heat Pump 3/4 through 2.5 tons, up to 10 kW Electric Heat



The SPXC Series "Suite 20" is a compact, through-the-wall single package vertical HVAC unit that delivers conditioned air from a single unit to multiple rooms. The SPXC series is available in straight cool (SPXC) or heat pump (SPXC-HP) models. Having a small footprint allows the SPXC to use a minimal amount of floor space. The SPXC installs easily into a closet having an exterior wall. Like your home, a standard wall mounted thermostat controls the SPXC unit. Applications for the SPXC include:

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

Standard Features: (see pages 5 and 6 for further information)

- 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 page 10-11)

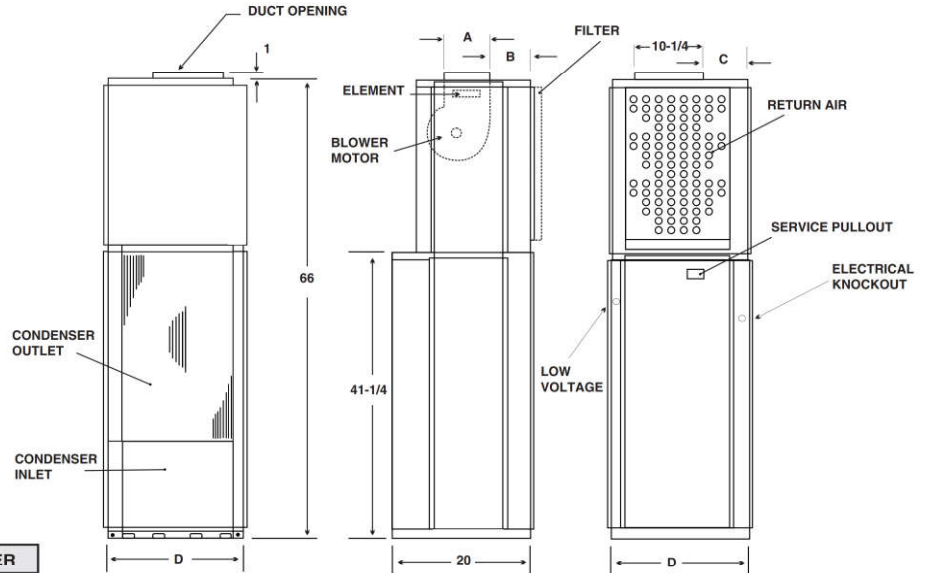
- Side access wall sleeves (rear access is standard)
- Custom painted exterior architectural grilles
- Hurricane grille / sleeve combinations
- Various louvered and non-louvered interior access panels
- Digital wall mount thermostats with high and low temperature limits
- **(NEW!) Insulation Kit** - Adds additional 5/8" insulation to three sides of the SPXC units. (see pages 6 & 11)



SPXC Series

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.



	A	B	C	D	FILTER
9,12,18SPXC	6-1/2	6-1/8	6-5/8	20	18 x 24 x 1
24,30SPXC	10	2-1/2	8	26	24 x 24 x 1

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		
9SPXC	-0	0	0	0	0.0	0.0							10	10	15	15	245	
	-2	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.4	25	2.3	1/4	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
12SPXC	-0	0	0	0	0.0	0.0							10	10	15	15	245	
	-2	2	1.5	6800	5100	10.6	9.5	2.3	1/4	4.7	25	2.3	1/4	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
18SPXC	-0	0	0	0	0.0	0.0							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	2.8	1/3	9.0	56.3	2.3	1/4	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
24SPXC	-0	0	0	0	0.0	0.0							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	2.8	1/3	10.9	62.9	2.3	1/4	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
30SPXC	-0	0	0	0	0	0							22	22	30	30	300	
	-3	3	2.25	10200	7700	16.6	14.9						22	22	30	30		
	-4	4	3	13600	10200	20.8	18.5	4.1	1/2	12.8	67.8	1.9	1/3	23	25	30		30
	-5	4.5	3.38	15400	11500	22.9	20.4							26	28	30		30
	-6	6	4.5	20500	15400	29.1	25.7							32	35	35		35
-8	8	6.0	27300	20500	37.4	32.9							41	46	45	50		
-10	9	6.75	30700	23000	41.6	36.6							46	51	50	60		

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
9SPXC	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
12SPXC	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
18SPXC	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
24SPXC	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
30SPXC	TAP 3	910	900	895	890	885	880	875	870
	TAP 2(C)	845	840	835	830	825	820	815	810
	TAP 1(H)	740	730	720	725	715	710	700	690

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
9SPXC	9200	11.0
12SPXC	11700	11.0
18SPXC	17600	11.0
24SPXC	22400	11.0
30SPXC	27800	11.0

(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.

(1) Factory Settings:

(H) = Heating, (C) = Cooling



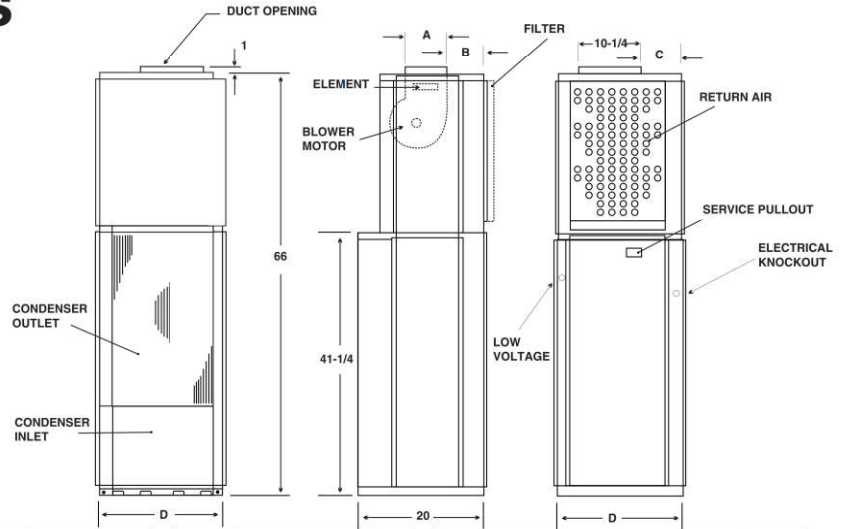
SPXC-HP Series

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.



	A	B	C	D	FILTER
9,12,18SPXC-HP	6-1/2	6-1/8	6-5/8	20	18 x 24 x 1
24,30SPXC-HP	10	2-1/2	8	26	24 x 24 x 1



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		208V	240V	208V	240V		
	240V	208V	240V	208V	240V	208V	AMPS	HP	RLA	LRA	FLA	HP						
9SPXC	-2	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	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	
12SPXC	-2	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	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	
	-6	6	4.5	20500	15400	27.8	24.4							31	34	35	35	
18SPXC	-2	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	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	
24SPXC	-3	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	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	
30SPXC	-3	3	2.25	10200	7700	16.6	14.9	4.1	1/2	12.8	67.8	1.9	1/3	22	22	30	30	300
	-4	4	3	13600	10200	20.8	18.5							23	25	30	30	
	-5	4.5	3.38	15400	11500	22.9	20.4							26	28	30	30	
	-6	6	4.5	20500	15400	29.1	25.7							32	35	35	35	
	-8	8	6.0	27300	20500	37.4	32.9							41	46	40	50	
	-10	9	6.75	30700	23000	41.6	36.6							46	51	50	60	

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
9SPXC-HP	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
12SPXC-HP	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
18SPXC-HP	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
24SPXC-HP	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
30SPXC-HP	TAP 3	910	900	895	890	885	880	875	870
	TAP 2(C)	845	840	835	830	825	820	815	810
	TAP 1(H)	740	730	720	725	715	710	700	690

COOLING / PERFORMANCE DATA		
UNIT MODEL	STANDARD RATING (1)	EER
	BTUH	
9SPXC-HP	9100	11.0
12SPXC-HP	11200	11.0
18SPXC-HP	16800	11.0
24SPXC-HP	22200	11.0
30SPXC-HP	27600	11.0

(1) 95°F DB/75°F WB outdoor - 80°F DB/67°F WB indoor.
(2) Tested in accordance with AHRI Standard 390.

HEATING / PERFORMANCE DATA (3)		
UNIT MODEL	STANDARD RATING (1)	COP (47°)
	BTUH	
9SPXC-HP	8800	3.5
12SPXC-HP	10700	3.3
18SPXC-HP	15700	3.5
24SPXC-HP	20800	3.5
30SPXC-HP	25200	3.3

(1) 47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor.

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Cancer et Troubles de l'appareil reproducteur
Cancer y Daño Reproductivo
www.P65Warnings.ca.gov LBY0957

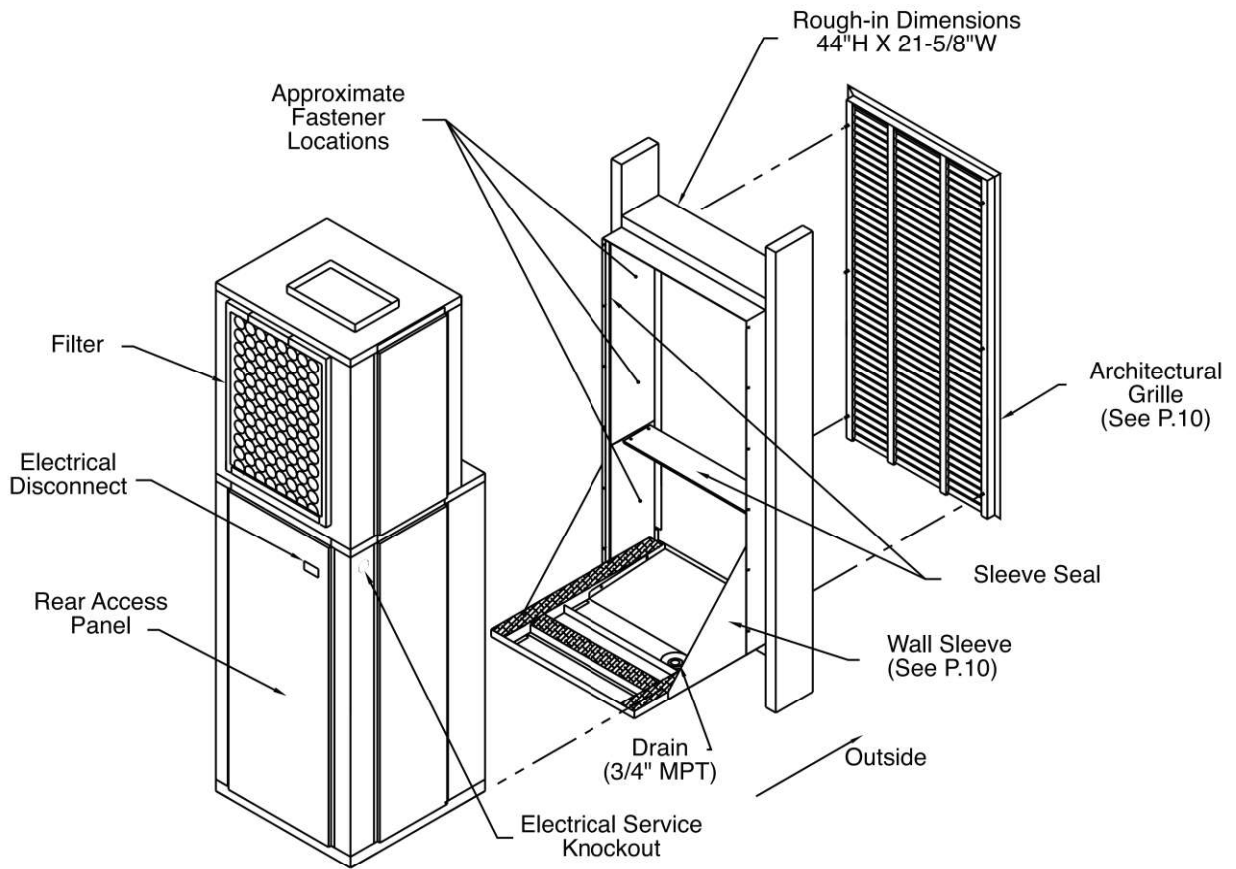


Figure 1 - General Assembly for standard sleeve and Grill

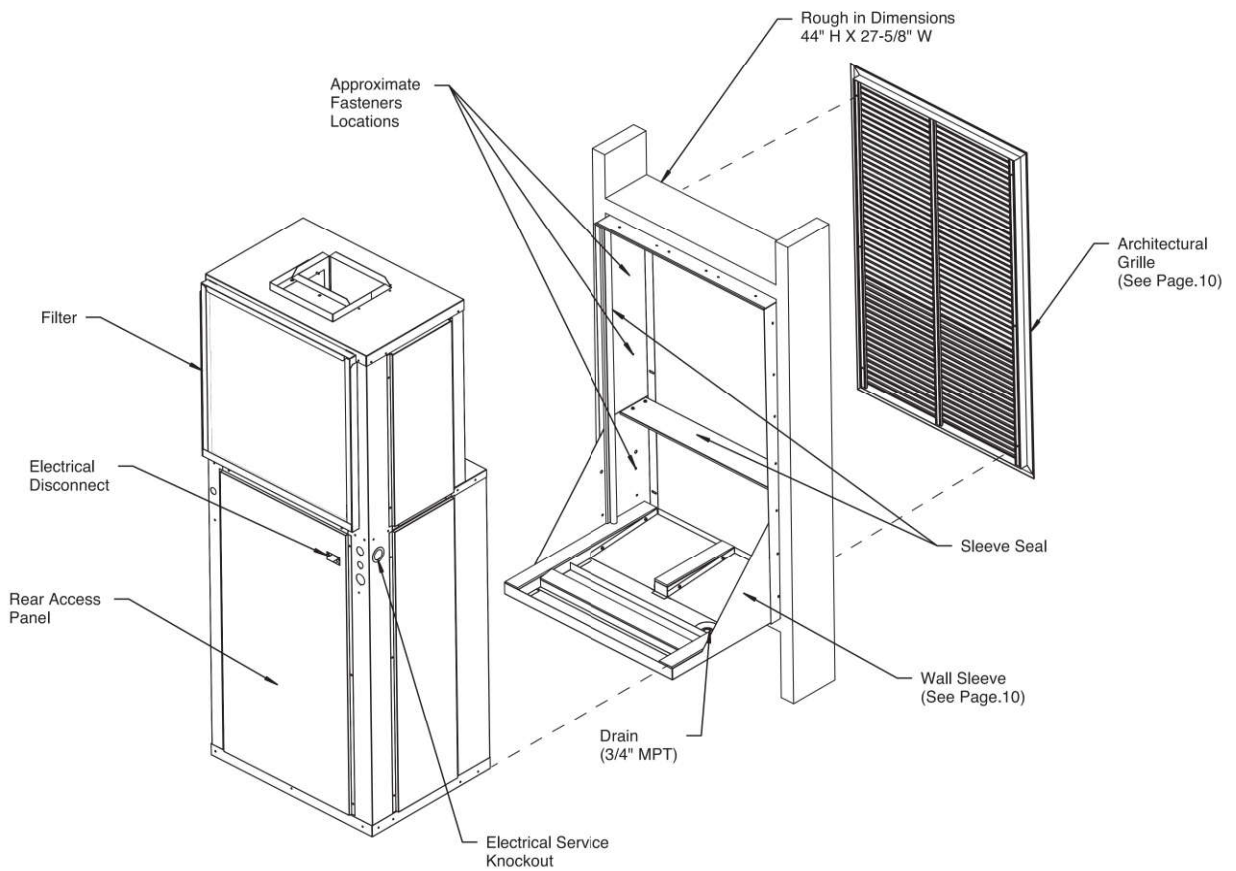


Figure 1A - General Assembly for Large sleeve and Grill size 24

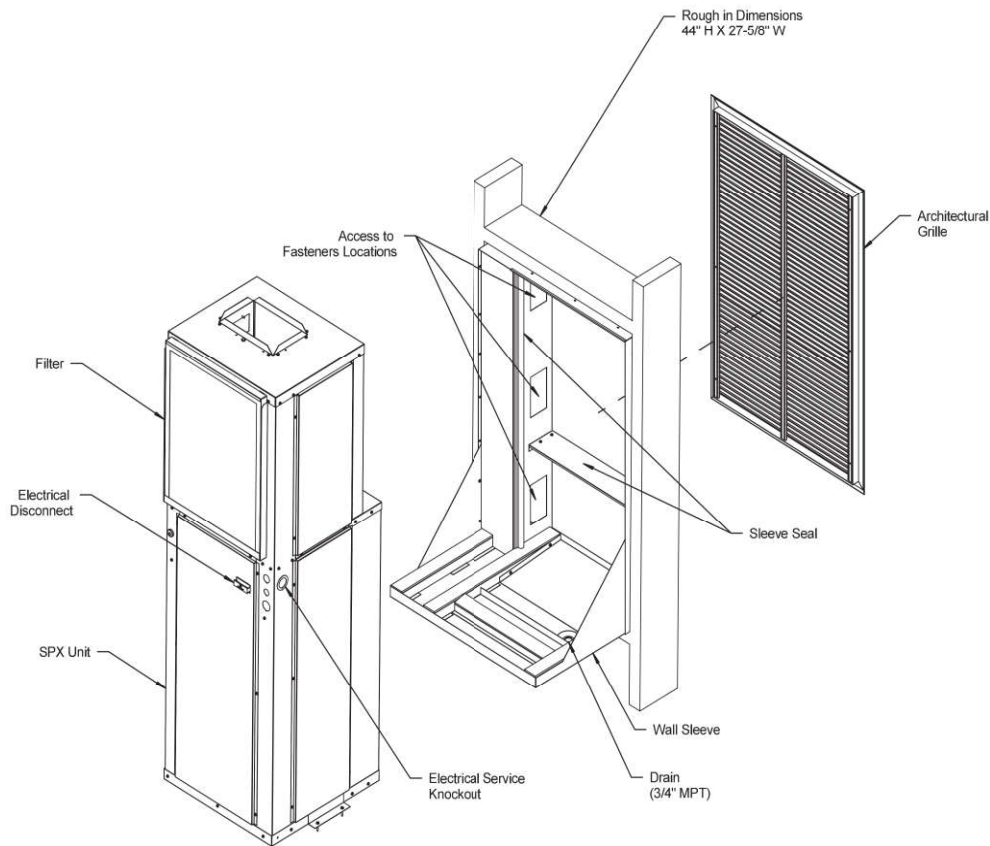


Figure 1B - General Assembly for Large sleeve and Grill for 09-18 sizes with block off

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 SPXC unit. The sensor will re-energize the SPU unit when the coil warms back up.
 - **Low ambient lockout** – Locks out compressor when the sensor registers temperatures of 40 degrees 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. **Adjustable fresh air (manual)** - To meet code requirements for fresh air introduction. When opened, the fresh air vent (see Figure 8) allows up to 50 CFM of outside air to be introduced into the equipment closet. The air then mixes with return air entering the closet through the return air grille.
4. **Wall-mounted thermostat** – (See “accessories”, P.11) The SPXC 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.
5. **40VA transformer**

FEATURES AND BENEFITS (CONT.)

5. **Wall Sleeve** – (See Figures 1,1A,1B, 4 and 5) Rear or side install wall sleeves are provided for installation during rough-in and, when ready, the SPXC 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 SPXC 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. **Unique "Sleeve Drain" Condensate System** - (Also see Figure 4) A factory installed drain line connects the evaporator drain pan to a vertical pipe connection in the SPXC base pan. Evaporator condensate is delivered from the SPXC



"Standard Rear Install" sleeve shown

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 SPXC unit to be removed for service without disconnecting the condensate

pipng! This configuration does not require any additional closet space to make the drain connection, as do some competitive products.

7. **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.
8. **Ductable return air** – Return air can be ducted to the unit. However, most installations would not normally require ducted return air.
9. **New "Flush Style" Architectural Grille** – (See Figure 6) This new grille 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 SPXC unit into the sleeve before installing the grille.
10. **Filter Brackets** – (See Figure 7) Filter Brackets and throw away filter are shipped with each unit and are field installed over the unit's evaporator coil.
11. **Insulation kit (#91K01-91K02)** - The interior of all SPXC's is lined with 1/2" fiberglass as standard. The 91K** kit is designed to be used in any application where additional insulation is desired. The kit includes three sections of 5/8" foil faced ductboard insulation that are screwed together in the field and cover the three sides on the condenser section.

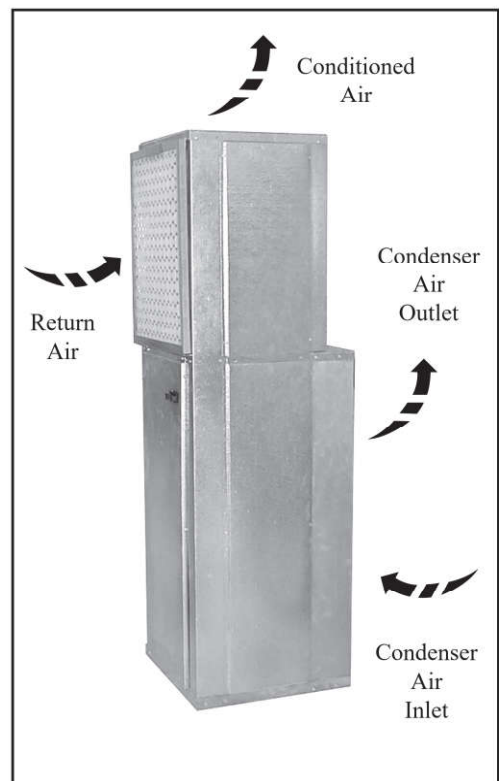
Figure 2



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 3



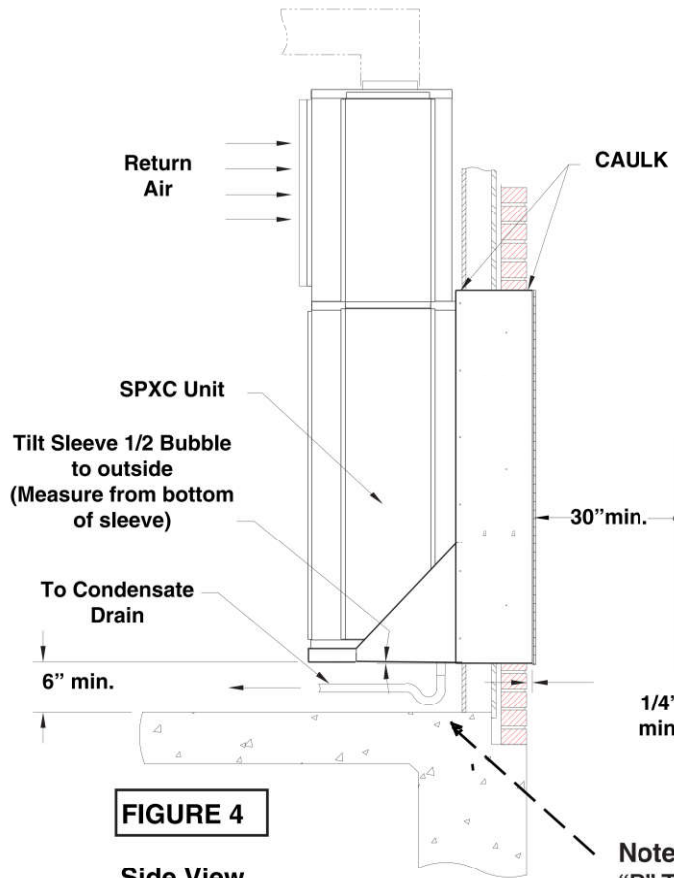


FIGURE 4

**Side View
(with "Rear Install" sleeve)**

Note:
"P" Trap is shown for illustration purposes only - It may not be required by local codes.

Any exterior obstruction

FIGURE 5



Side Install Sleeve

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

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

** = wall sleeve regular, large and large with block off see page 10

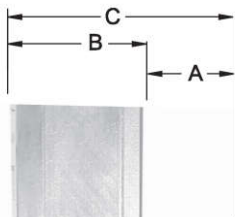


FIGURE 6

(Unit shown with "Rear Install" sleeve)

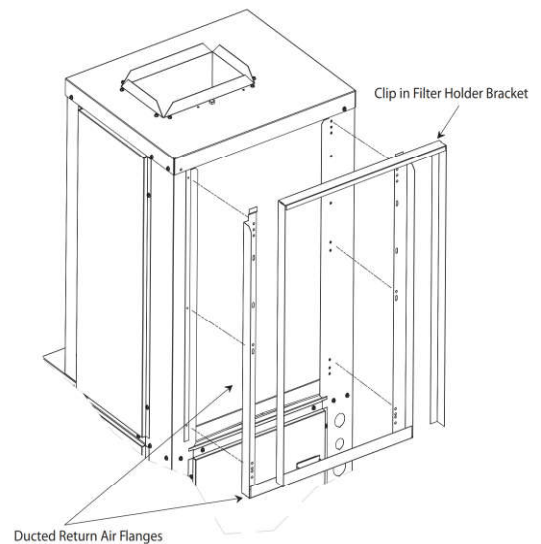


FIGURE 7

Filter Bracket Detail

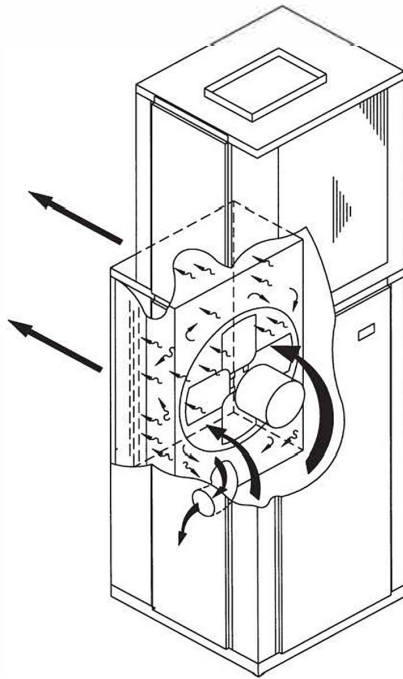
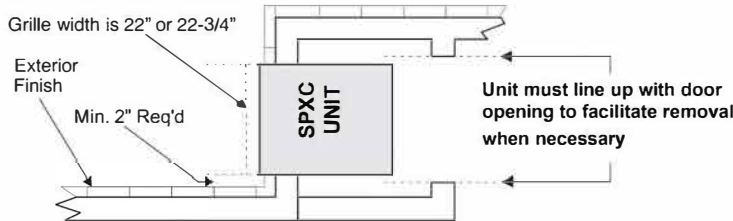


FIGURE 8

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 SPXC cabinet. A mesh screen is installed inside the vent pipe and a metal plate on the side of the cabinet covers the opening of the vent pipe. Up to 50 CFM of fresh air is introduced into the equipment closet by removing the metal cover plate. The fresh air then mixes with the return air and is then pulled through the evaporator coil and into the supply duct. The cover plate can be re-installed to partially close the fresh 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 fresh air. Consult with factory for further details.

SPXC Closet Rear Installation Detail for Small Sleeve 21" Wide(9-18SPXC 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 all sides of the SPXC unit.
4. Note the Hurricane Grill is 3/4" larger

SPXC Closet Dimensions - Rear Installation Detail for Small Sleeve 21" Wide (9-18SPXC only)

NOTE:

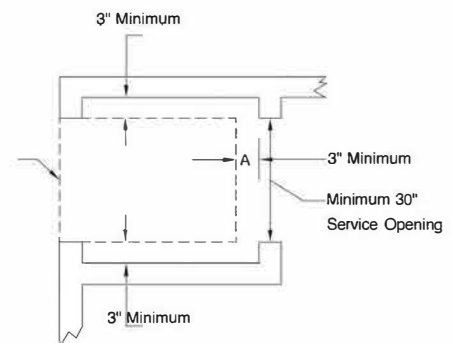
Provide minimum clearances as shown for interior closet dimensions

Instructions:

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

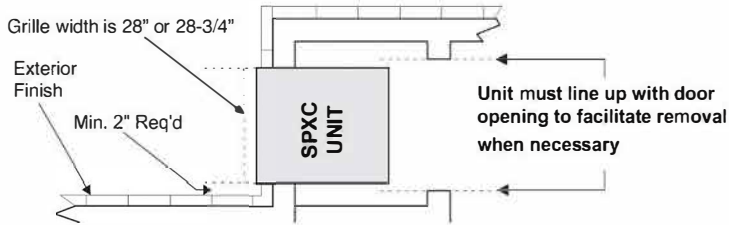
Determine dimension "A" which is the total finished wall thickness.

- 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")



Installed Wall Sleeve
Note: Sleeve dimensions vary based on
model purchased

SPXC Closet Rear Installation Detail for Large Sleeve 27" Wide (24 or 30SPXC 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 SPXC unit.
4. Note the Hurricane Grill is 3/4" larger

SPXC Closet Dimensions - Rear Installation Detail for Large Sleeve 27" Wide (24SPXC or 9-18 with Blockoff)

NOTE:

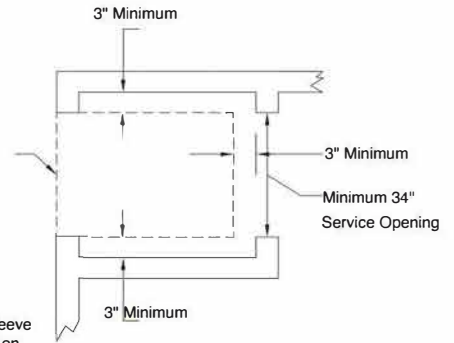
Provide minimum clearances as shown for interior closet dimensions

Instructions:

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

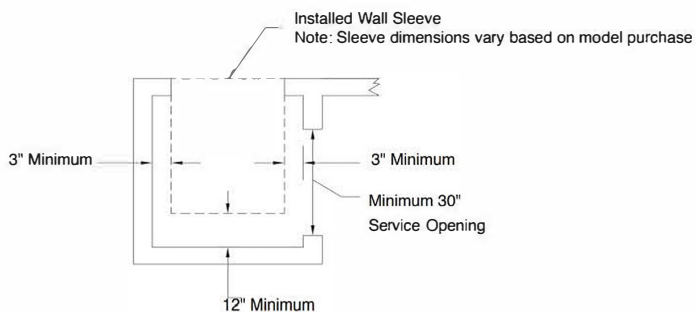
Determine dimension "A" which is the total finished wall thickness.

- 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")



Installed Wall Sleeve
Note: Sleeve dimensions vary based on model purchased

SPXC Closet Dimensions - Side Installation for Small Sleeve 21" Wide (9-18SPXC only)



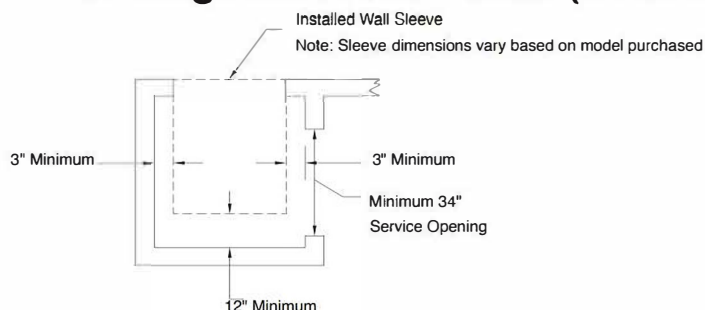
Notes:

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 SPXC unit and 12" clearance on the rear of the unit .

NOTE:

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

SPXC Closet Dimensions - Side Installation for Large Sleeve 27" Wide (24 or 30SPXC or 9-18 with Blockoff)



NOTE:

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

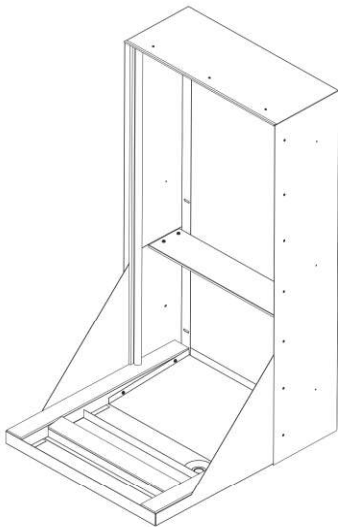
Notes:

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 SPXC unit and 12" clearance on the rear of the unit .

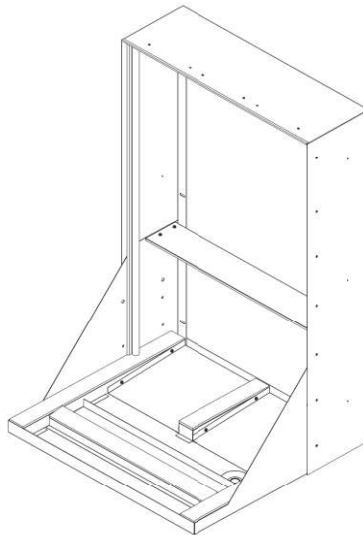
ACCESSORIES (sleeves, louver, and thermostat required for each installation)								
ACCESSORY	DESCRIPTION	DIMENSIONS (HXWXD)	PART NUMBERS				SHIP WT. (EA)	
			STANDARD SLEEVES		HURRICANE (5)			
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
STANDARD WALL SLEEVES SIZE 9-18 (2)	For 5" - 8" thick walls	43-3/4 x 21-3/8 x 26	936-1B	936-11B	936-1H	936-11H	59 (4)	64 (4)
	For 8" - 12" thick walls	43-3/4 x 21-3/8 x 30	936-2B	936-12B	936-2H	936-12H	63 (4)	68 (4)
	For 12" - 15" thick walls	43-3/4 x 21-3/8 x 33	936-3B	936-13B	936-3H	936-13H	68 (4)	73 (4)
	For 15" - 20" thick walls	43-3/4 x 21-3/8 x 38	936-4B	936-14B	936-4H	936-14H	75 (4)	80 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
LARGE WALL SLEEVES SIZE 24 & 30 (2)	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	985-1B	985-11B	985-1H	985-11H	63 (4)	68 (4)
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	985-2B	985-12B	985-2H	985-12H	68 (4)	73 (4)
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	985-3B	985-13B	985-3H	985-13H	75 (4)	80 (4)
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	985-4B	985-14B	985-4H	985-14H	79 (4)	84 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
LARGE WALL SLEEVES WITH BLOCK OFF SIZE 9-18 (2)	For 5" - 8" thick walls	43-3/4 x 27-3/8 x 26	986-1B	986-11B	986-1H	986-11H	63 (4)	68 (4)
	For 8" - 12" thick walls	43-3/4 x 27-3/8 x 30	986-2B	986-12B	986-2H	986-12H	68 (4)	73 (4)
	For 12" - 15" thick walls	43-3/4 x 27-3/8 x 33	986-3B	986-13B	986-3H	986-13H	75 (4)	80 (4)
	For 15" - 20" thick walls	43-3/4 x 27-3/8 x 38	986-4B	986-14B	986-4H	986-14H	79 (4)	84 (4)
			REAR INSTALL (non-Hurricane)	SIDE INSTALL (3) (non-Hurricane)	REAR INSTALL	SIDE INSTALL	REAR	SIDE
ARCHITECTURAL GRILLES STANDARD			Custom Painted	For Field Painting	Anodized Aluminum			
	Standard	44 x 22	G205S (1)	G205PPA	G205A	---	12	
	Hurricane	45-5/8 x 22-3/4	G215S (1)	G215P	G215A	---	22	
ARCHITECTURAL GRILLES LARGE			Custom Painted	For Field Painting	Anodized Aluminum			
	Standard	44 x 28	G216S (1)	G216PPA	G216A	---	18	
	Hurricane	45-5/8 x 28-3/4	G217S (1)	G217P	G217A	---	28	

NOTES:

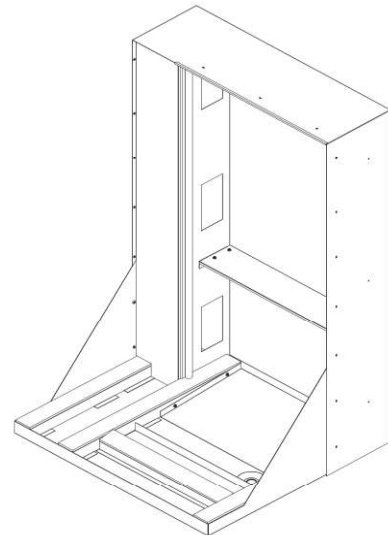
- (1) "S" indicates custom color, to be provided by customer. Minimum order quantity is 20 per color.
- (2) Rear install application provides better access to the SPXC unit and is recommended over "side install" wherever possible.
- (3) Side install application requires different closet size and configuration. (See P.9) 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 sleeve for 9SPXC, 12SPXC and 18SPXC



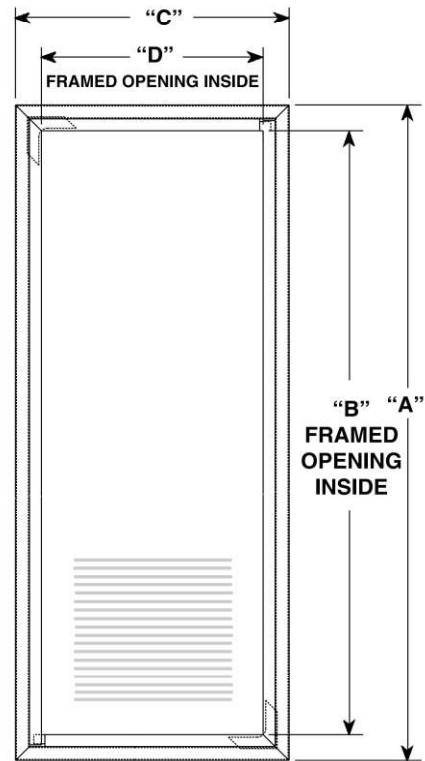
Standard sleeve for 24 or 30SPXC (large)



Large sleeve for 9SPXC, 12SPXC and 18SPXC If Larger Grille is needed to match exterior

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		New!	

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 31	84 X 28	931-11	55
	NON-LOUVERED (2)	87 X 31	84 X 28	931-12	
	LOUVERED (1)	82 X 31	79 X 28	931-13	55
	NON-LOUVERED (2)	82 X 31	79 X 28	931-14	
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	
9-18 INSULATION KIT	5/8" DUCTBOARD	N/A		91K01	---
24 INSULATION KIT				91K02	---



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



91K01 OR 91K02

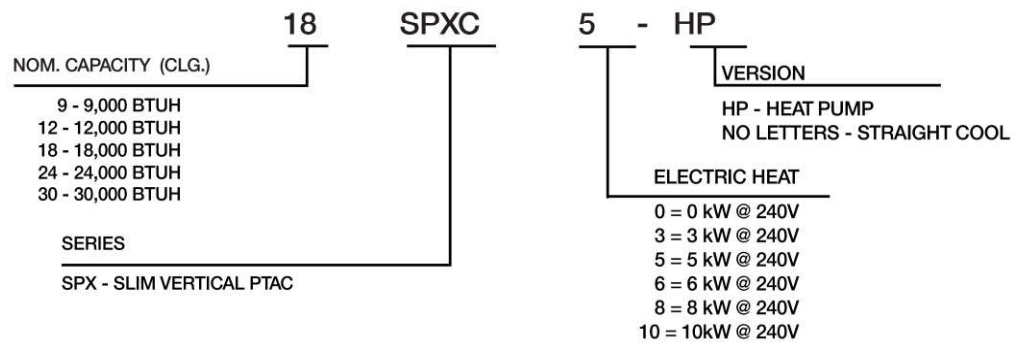
* For rear installation use with size 24 or 30

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.

MODEL NUMBER NOMENCLATURE



Grambling State University

Grambling, Louisiana

This Agreement, made and executed, on this ___ day of the month ___ in the year of our Lord, TWO THOUSAND and TWENTY-THREE, by and through ___, Grambling State University, the Party of the First Part, and hereinafter designated as "University" and _____, Contractor, domiciled and doing business in _____, Party of the Second Part, and hereinafter designated as Contractor.

WITNESSETH, That, in consideration of the covenants and agreements herein contained to be performed by the parties hereto and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

The Contractor shall and will provide and furnish all materials, equipment and labor and perform the work required to complete in a thorough and workmanlike manner, to the satisfaction of the University, project entitled, in strict accordance with the Plans and Specifications which are on file in the Purchasing Department at Grambling State University. The bid on this project, numbered Bid 50018-23, was opened on _____, at _____ 10:00 a.m. The plans and specifications and the Proposal Form are made a part hereof as fully as if set out herein and hereby become a part of this contract. Contract amount is \$ _____.

It is agreed and understood between the parties hereto that the Contractor agrees to accept and the University agrees to pay for the work at the price stipulated in said Proposal, such payment to be in lawful money of the United States, and the payment shall be made at the time and the manner set forth.

The State may terminate this Agreement at any time by giving thirty (30) days written notice to contractor of such termination or negotiating with the Contractor an effective date.

The State may terminate this agreement for cause based upon the failure of Contractor to comply with the terms and/or conditions of the Agreement provided that the State shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have corrected such failure or, in the case of failure which cannot be corrected in thirty (30) days, begun in good faith to correct such failure and thereafter proceeded diligently to complete such correction, then the State may, at its option, place the Contractor in default and the Agreement shall terminate on the date specified in such notice.

The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the State to comply with the terms and conditions of this agreement, provided that the Contractor shall give the State written notice specifying the State's failure and a reasonable opportunity for the State to cure the defect.

Any claim or controversy arising out of the agreement shall be resolved by the provisions of LA R.S. 39:1672.2-1672.4.

This Contract shall be governed by and interpreted in accordance with the laws of the State of Louisiana, including but not limited to LA R.S. 39:1551-1736; rules and regulations; executive orders; standard terms and conditions, special terms and conditions, and specifications listed in the RFP (if applicable); and this Contract. Venue of any action brought, after exhaustion of administrative remedies, with regard to this Contract shall be in the Fourth Judicial District Court, Parish of Lincoln, State of Louisiana.

Contractor acknowledges and agrees to comply with the provisions of LA R.S. 38:2212.10 and federal law pertaining to E-Verify in the performance of services under this Contract.

The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. If the legislature fails to appropriate sufficient monies to provide for the continuation of the contract, or if such appropriation is reduced by the veto of the Governor or by any means provided in the appropriations act to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

The contractor agrees to abide by the requirements of the following as applicable: Title VI of the Civil Rights Act of 1964 and Title VII of the Civil Rights Act of 1964, as amended by the Equal Employment Opportunity Act of 1972, Federal Executive Order 11246 as amended, the Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment

Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, the Fair Housing Act of 1968 as amended, and contractor agrees to abide by the requirements of the Americans with Disabilities Act of 1990.

Contractor agrees not to discriminate in its employment practices, and will render services under this contract without regard to race, color, religion, sex, national origin, veteran status, political affiliation, or disabilities. Any act of discrimination committed by Contractor, or failure to comply with these statutory obligations when applicable shall be grounds for termination of this contract.

Contractor has a continuing obligation to disclose any suspensions or debarment by any government entity, including but not limited to General Services Administration (GSA). Failure to disclosed may constitute grounds for suspension and/or termination of the Contract and debarment from future Contracts.

Contractor, and each tier of Subcontractors, shall certify that it is not on the List of Parties Excluded from Federal Procurement or Nonprocurement Programs promulgated in accordance with E.O.s 12549 and 12689, "Debarment and Suspension," as set forth at 24 CFR part 24.

The State Legislative auditor, federal auditors and internal auditors of the State, or others so designated by the State, shall have the option to audit all accounts directly pertaining to the contract for a period of five (5) years after project acceptance or as required by applicable State and Federal Law. Records shall be made available during normal working hours for this purpose.

The complete Agreement between the parties with respect to the subject matter and all prior discussions and negotiations are merged into this contract. This Agreement is entered into with neither party relying on any statement or representation made by the other party not embodied in this Agreement and there are no other agreements or understanding changing or modifying the terms. This Agreement shall become effective upon final statutory approval.

No amendment or variation of the terms of this Agreement shall be valid unless made in writing, signed by the parties and approved as required by law. No oral understanding or agreement not incorporated in the contract is binding on any of the parties.

If any term or condition of this Agreement, or the application thereof, is held invalid, such invalidity shall not affect other terms, conditions or applications which can be given effect without the invalid term, condition or application; to this end the terms and conditions of this Agreement are severable.

Performance shall not begin until issuance of Notice to Proceed and Purchase Order.

Grambling State University

Contractor

Signature: _____

Signature: _____

Title: _____

Title: _____

INSTRUCTIONS TO BIDDERS

ARTICLE 1

DEFINITIONS

1.1 The Bidding Documents include the following:

- a. Advertisement for Bids
- b. Instructions to Bidders
- c. Bid Form
- d. Bid Bond
- e. Affidavit of Compliance with LA R.S. 38
- f. General Requirements
- g. Supplementary Conditions
- h. Technical Specifications
- i. Addenda issued during bid period must be acknowledged on returned bid form

1.2 Addenda are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the bidding documents, including Drawings and Specifications, by additions, deletions, clarifications or corrections. Addenda will become part of the Contract Documents when the Contract is executed.

ARTICLE 2

BIDDER'S REPRESENTATION

2.1 Each bidder by submitting a bid represents that s/he has read and understands the bidding documents.

2.2 Each bidder by making a bid represents that s/he has visited the site and familiarized themselves with the local conditions under which the work is to be performed.

2.3 Each bidder by submitting a bid understands they must be fully qualified under any state or local licensing law for Contractors in effect at the time and at the location of the project before submitting a bid. In the State of Louisiana; only the bids of contractors and sub-contractors duly licensed under LA R.S. 37:2150, et. seq., will be considered, if applicable. The Contractor shall be responsible for ensuring all Sub-contractors or prospective Sub-contractors are duly licensed in accordance with the statute above.

2.4 Each bidder submitting a bid understands that GSU's Public Works Policy related to contractor licensure is that a contractor's license is required for any/all projects with an anticipated/bid cost greater than \$50,000

ARTICLE 3

BIDDING PROCEDURES

3.1 Each responsive bid package must be received by the University by the date and time stated in the Advertisement for Bid or Invitation to Bid in this Bid Packet, and include, at a minimum the following documents.

- a. Bid Form
- b. Bid Security or Bid Bond
- c. Acknowledgement of Addenda
- d. Base Bid
- e. Alternates Bid (if applicable)
- f. Signature of Bidder
- g. Name, Title, and Address of Bidder
- h. Name of Firm or Joint Venture
- i. Corporate Resolution or written evidence of the authority of the person signing the bid
- j. Louisiana's Contractor's License Number
- k. Unit Prices, where required, including a description for each unit

3.2 The following items must be provided by the apparent lowest bidder not later than ten (10) calendar days after bid opening, however, it is strongly encouraged that these items be returned with the bid packet. If the apparent lowest bidder was not in attendance at the bid opening, the University Purchasing Department will notify apparent lowest bidder by email, if provided. This will not be the notification of award. If Bidder has not heard from the University within three (3) days, the Bidder should contact the University Purchasing Department. In no instance will the ten (10) days be waived or altered.

- a. Notarized Contractor's Affidavit
- b. E-Verify Affidavit
- c. Past Criminal Convictions Affidavit
- d. Non-Solicitation and Unemployment Affidavit
- e. Insurance Certificate
- f. Resolution, if incorporated

3.3 Once the above items from 3.1 and 3.2 have been received by the University, the University will soon thereafter provide the Bidder with three (3) executed contract originals. The following items must then be promptly returned to the University:

- a. One (1) original, fully-executed contract
- b. Payment & Performance Bond
- c. Proof of filing with the Lincoln Parish Clerk of Court

3.4 Upon receipt of all of the items listed in section 3.1, 3.2 and 3.3 above, the University will issue the Purchase Order (PO) and Notice to Proceed.

3.5 Bids must be prepared on the forms provided by the Owner and submitted in accordance with the Instructions to Bidders.

3.6 A bid will be considered invalid if not deposited at the designated location prior to the time and date for receipt of bids indicated in the Advertisement or Invitation to bid, or prior to any extension thereof issued to the bidders.

3.7 Unless otherwise provided in any supplement to these Instructions to Bidders, no bidder shall modify, withdraw or cancel his bid or any part thereof for thirty (30) days after the receipt of bids. However, written request (letter or email) for the withdrawal of a bid or any part thereof will be granted if the request is received prior to the specified time of opening. Formal bids, amendments thereto or request for withdrawal of bids or any part thereof received after time specified for bid opening will not be considered whether delayed in the mail or for any other cause whatsoever.

3.8 Due to the COVID-19 Public Health Emergency declared by Governor John Bel Edwards in Proclamation Numbers 41, 33, 32, 30, 27, and 25 JBE 2020, electronic bid delivery is being utilized for this ITB.

All copies of each bid must be received by electronic copy to PurchasingBids@gram.edu, on or before the date and time specified in the Advertisement for Bids: Bid # _____ Bid Submission – [Bidders' Name]. If the file size of the email submission exceeds server requirements, the email submission may be broken into smaller emails with "Part 1 of ____" included at the end of each original Subject Line (e.g. ITB # _____ Bid Submission – [Bidders' Name] – Part 1 of 3).

E-mail submissions are the only acceptable method of delivery. Fax, mail, and courier delivery shall not be acceptable. Proposers e-mailing their proposals should allow sufficient time to ensure receipt of their proposal by the date and time specified. Grambling State University assumes no liability for assuring accurate/complete e-mail transmission and receipt. The responsibility solely lies with each Bidder to ensure their bid is received at the specified email address prior to the deadline for submission. Bids received after the deadline, corrupted files, and incomplete submissions will not be considered.

Deadline for electronic emailed bid submissions shall be on November 21, 2023, at 10:30 A.M., and read aloud via GSU Purchasing Teleconference: Number 1-917-900-1022, Conference ID: 5600581#

3.9 Bids are to be sealed and will be received until the time specified and at the place specified in the advertisement for bids. It shall be the specific responsibility of the Bidders to deliver sealed bids to Grambling State University at the appointed place and prior to the announced time for the opening of bids. Late delivery of a bid for any reason including late delivery by the United States Mail shall disqualify the bid.

3.10 Prior to the receipt of bids, Addenda, if any, will be mailed or delivered (hard copy or email) to each person or firm recorded by the Owner as having received the bidding documents and will be available for inspection wherever the bidding documents are kept available for that purpose. Addenda issued after receipt of bids will be mailed or delivered only to the sealed bidder.

3.11 **Bids for Public Works will not be considered or accepted unless the bid is accompanied by bid security in an amount of not less than five percent (5%) of the sum of the Base Bid and any Alternates.** The bid security shall be in the form of a certified check drawn on a bank insured by the Federal Deposit Insurance Corporation, or a bid bond written by a surety company licensed to do business in Louisiana, accompanied by appropriate power of attorney and in favor of Grambling State University.

3.12 All Bids and Sureties must be signed by a duly authorized person of the firm or corporation and be accompanied by legal evidence authorizing the signature as valid. Any interpretation, correction or change of the Bidding Documents will be made by Addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and bidders shall not rely upon such interpretations, corrections and changes.

3.13 If bidding other than as specified, an indication must be made on the bid form, stating manufacturer's name and model number(s) being submitted for bid. Detailed specifications, drawings, pictures, brochures, diagrams or any other literature or information necessary to determine the equality of the bid response must be included with the bid form.

ARTICLE

4

EXAMINATION OF BIDDING DOCUMENTS

4.1 Each bidder shall examine the bidding documents carefully and, not later than seven days prior to the date for receipt of bids, shall make written request to the Owner for interpretation or correction of any ambiguity, inconsistency or error therein which he may discover. Any interpretation or correction will be issued as an Addendum by the Owner. Only a written interpretation or correction by Addendum shall be binding. No bidder shall rely upon any interpretation or correction given by any other method.

ARTICLE

5

SUBSTITUTIONS

5.1 Each bidder represents that his bid is based upon the materials and equipment described in the bidding documents.

MANUFACTURER'S NUMBERS OR TRADE NAMES:

5.2 Where a manufacturer's product is named or specified, it is understood that "or equal" shall apply, whether stated or not. Such name and number is meant to establish the standard of quality desired and does not restrict bidders to the specific brand, make, manufacturer, or specification named; and are set forth and convey to prospective bidders the general style, type, character, and quality of product desired; and that equal products will be acceptable. Grambling State University shall be sole judge as to whether or not the material is equal to that specified.

ARTICLE

6

REJECTION OF BIDS

6.1 The Bidder acknowledges the right of the University to reject any or all bids and to waive any informality or irregularity in any bid received. In addition, the bidder recognizes the right of the University to reject a bid if the Bidder failed to furnish any required bid security, or to submit the data required by the bidding documents, or if the bid is in any way incomplete or irregular.

ARTICLE

7

AWARDS

7.1 Awards may not be made to any person, firm, or company in default of any contract. Said person, firm, or company shall be considered non-responsible bidders and may be reinstated and awards made to them only after they have given evidence of good faith and have satisfactorily completed their obligations.

7.2

PUBLICIZING AWARDS

7.3 Written notice of award shall be sent to the successful bidder. In procurement over \$25,000, each unsuccessful bidder shall be notified of the award provided that he/she submitted with his/her bid a self-addressed envelope requesting this information. Notice of award will be made a part of the procurement file.

RIGHT TO PROTEST

7.4 Any person who is aggrieved in connection with the solicitation or award of a contract shall protest to the Director Purchasing. Protests with respect to a solicitation shall be submitted in writing at least two days prior to the opening of bids on all matters except housing of state agencies, their personnel, operations, equipment, or activities pursuant to R.S. 39:1643 for which such protest shall be submitted at least ten days prior to the opening of bids. Protests with respect to the award of a contract shall be submitted in writing within fourteen days after contract award.

AUTHORITY TO RESOLVE PROTESTS:

7.5 Prior to the commencement of an action in court concerning any controversy, the Director of Purchasing or his/her designee shall have the authority, to resolve the protest of any aggrieved person concerning the solicitation or award of a contract. This authority shall be exercised in accordance with regulations.

ARTICLE 8

PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND

8.1 Performance and Payment Bonds shall be required on Public Works projects with an expected cost greater than \$50,000. Performance and Payment Bonds, when required, shall be provided in an amount of 50% of the contract price. Performance and Payments Bonds shall be required by the successful bidder. Any surety bond required shall be written by a surety or insurance company currently on the U. S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register. For any Public Works projects, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U. S. Department of the Treasury Financial Management Service list. The surety bond written for a Public Works project shall be written by a surety or insurance company that is currently licensed to do business in the State of Louisiana.

8.2 The bidder shall require the attorney in fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his power of attorney indicating the monetary limit of such power.

RECORDING OF BOND AND CONTRACT

- 8.3 The Contractor shall record the Contract and Performance Bond with the Clerk of Court in Lincoln Parish and provide the Purchasing Department with proof of filing.

ARTICLE 9

PAYMENT

- 9.1 Payment will be made by Grambling State University. The contractor will be required to provide a Clear Lien Certificate from the Lincoln Parish Clerk of Court, a process that may take an average 45 days for final payment.

ARTICLE 10

TAXES

- 10.1 Applicable taxes are to be included in lump sum bid.

ARTICLE 11

GUARANTEE

- 11.1 The materials and labor under this contract, as described in the specifications, shall be guaranteed by the Contractor for a period of one year from date of its acceptance against defects of materials or workmanship. Any defects which develop during this period shall be properly repaired or replaced without cost to the Owner as soon as possible.

ACCEPTANCE

- 11.2 The guarantee covering materials and labor under this contract will begin the date a Notice of Acceptance is issued to the Contractor by Grambling State University.

ARTICLE 12

CHANGES IN THE WORK

- 12.1 A Change Order is a written order to the Contractor signed by the Owner, issued after execution of the Contract, authorizing a Change in the Work or an adjustment in the Contract Sum or the Contract Time. The Contract Sum and the Contract Time may be changed only by Change Order. A Change Order signed by the Contractor indicates his agreement therewith, including the adjustment in the Contract Sum or the Contract Time. Any Change Order not signed by the Owner will be considered null and void.
- 12.2 The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and the Contract Time being adjusted accordingly. All such changes in the Work shall be authorized by Change Order, and shall be performed under the applicable conditions of the Contract Documents.
- 12.3 When the Change Order is negotiated it shall be fully documented and itemized as to cost, including material quantities, material costs, insurance, employee benefits, other related costs, profit and overhead, and will be processed in accordance with LA R.S. 38:2222.

SUPPLEMENTARY CONDITIONS

ARTICLE 1

CONTRACTOR

CONTRACTOR'S LICENSE

- 1.1 On any bid amounting to \$50,000 or more, the Contractor shall certify that s/he is licensed under Act 377 of the 1976 Louisiana Regular Legislative Session and show the contractor license number and the bid number on the front portion of the envelope; except projects financed, partially or wholly, with Federal Funds, provided that any successful Bidder before signing Contract thereon, files application for a license and pays the fee as provided in this Act and complies with all terms and provisions of this Act and with the rules and regulations of the Licensing Board.
- 1.2 A subcontractor who wishes to bid or perform commercial work where the total cost of the project including labor and materials for the following must be licensed:
 - \$50,000 or more for major and specialty classifications
 - \$10,000 or more for electrical, mechanical, and plumbing
 - \$1 or more for hazardous

CONTRACTOR'S AFFIDAVIT

- 1.3 In accordance with the Louisiana R.S. 38:2190 -2220, if the Contract is awarded to the successful Bidder, the Bidder shall, at the time of the signing of the Contract, execute the Contractor's Affidavit included in the Contract Documents.

INTEREST

- 1.4 There shall be no payment of interest on money owed.

ARTICLE 2

PAYMENTS AND COMPLETION

SUBSTANTIAL COMPLETION

- 2.1 The Owner will issue a NOTICE OF ACCEPTANCE for the Contractor to record with the Clerk of Court in Lincoln Parish.

FINAL COMPLETION AND FINAL PAYMENT

- 2.2 The Contract is to provide that the contractor is not to be paid more than ninety percent (90%) of the amount of the contract upon completion of the work. The Contractor shall record the NOTICE OF ACCEPTANCE with the Lincoln Parish Clerk of Court and shall furnish a CLEAR LIEN CERTIFICATE from the Clerk of Court within forty-five days after recordation of NOTICE OF ACCEPTANCE. At that time, the remaining ten percent (10%) will be paid.

LIQUIDATED DAMAGES

- 2.3 The Owner will suffer financial loss if the Project is not substantially complete on the date set forth in the CONTRACT DOCUMENTS. The Contractor (and/or Surety) shall be liable for and shall pay to the Owner Liquidated Damages for each calendar day of delay until the work is Substantially Complete.

The Completion Time stated in Consecutive Calendar Days and the Liquidated Damages stated in Dollars per Day are listed in the PROPOSAL FORM

ARTICLE 3

INSURANCE

INSURANCE REQUIREMENTS FOR CONTRACTORS

The Contractor shall purchase and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees or subcontractors.

A. MINIMUM SCOPE AND LIMITS OF INSURANCE

1. Workers Compensation

Workers Compensation insurance shall be in compliance with the Workers Compensation law of the State of the Contractor's headquarters. Employers Liability is included with a minimum limit of \$1,000,000 per accident/per disease/per employee. If work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act, or other maritime law coverage shall be included. A.M. Best's insurance company rating requirement may be waived for workers compensation coverage only. The insurance shall cover any claim(s) for incident(s) made during the policy period.

2. Commercial General Liability

Commercial General Liability insurance, including Personal and Advertising Injury Liability and Products and Completed Operations, shall have a minimum limit per occurrence of \$1,000,000 and a minimum general annual aggregate of \$2,000,000. The Insurance Services Office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims-made form is unacceptable.

3. Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per accident of \$1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

4. Professional Liability (Errors and Omissions)

Professional Liability (Error & Omissions) insurance, which covers the professional errors, acts, or omissions of the Contractor, shall have a minimum limit of \$1,000,000 per claim. Claims-made coverage is acceptable. The date of the inception of the policy must be no later than the first date of the anticipated work under this contract. It shall provide coverage for the duration of this contract and shall have an expiration date no earlier than 30 days after the anticipated completion of the contract. The policy shall provide an extended reporting period of at least 24 months, with full reinstatement of limits, from the expiration date of the policy, if policy is not renewed.

5. Cyber Liability

Cyber liability insurance, including first-party costs, due to an electronic breach that compromises the State's confidential data shall have a minimum limit per occurrence of \$1,000,000. Claims-made coverage is acceptable. The date of the inception on the policy must be no later than the first date of the anticipated work under this contract. It shall provide coverage for the duration on this contract and shall have an expiration date no earlier than 30 days after the anticipated completion of the contract. The policy shall provide an extended reporting period of not less than 24 months from the expiration date of the policy, if the policy is not renewed. The policy shall not be cancelled for any reason, except non-payment of premium.

B. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and accepted by the Agency. The Contractor shall be responsible for all deductibles and self-insured retentions.

C. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

1. Commercial General Liability and Automobile Liability Coverages
 - a. The Agency, its officers, agents, employees and volunteers shall be named as an additional insured as regards negligence by the contractor. ISO Forms CG 20 10 (for ongoing work) AND CG 20 37 (for completed work) (current forms approved for use in Louisiana), or equivalents, are to be used when applicable. The coverage shall contain no special limitations on the scope of protection afforded to the Agency.
 - b. The Contractor's insurance shall be primary as respects the Agency, its officers, agents, employees and volunteers for any and all losses that occur under the contract. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.
2. Workers Compensation and Employers Liability Coverage

To the fullest extent allowed by law, the insurer shall agree to waive all rights of subrogation against the Agency, its officers, agents, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. All Coverages
 - a. All policies must be endorsed to require 30 days written notice of cancellation to the Agency. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's policy. In addition, Contractor is required to notify Agency of policy cancellations or reductions in limits.
 - b. The acceptance of the completed work, payment, failure of the Agency to require proof of compliance, or Agency's acceptance of a non-compliant certificate of insurance shall not release the Contractor from the obligations of the insurance requirements or indemnification agreement.
 - c. The insurance companies issuing the policies shall have no recourse against the Agency for payment of premiums or for assessments under any form of the policies.
 - d. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

D. ACCEPTABILITY OF INSURERS

1. All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with an A.M. Best's rating of **A-:VI or higher**. This rating requirement may be waived for workers compensation coverage only.
2. If at any time an insurer issuing any such policy does not meet the minimum A.M. Best rating, the Contractor shall obtain a policy with an insurer that meets the A.M. Best rating and shall submit another Certificate of Insurance within 30 days.

E. VERIFICATION OF COVERAGE

1. Contractor shall furnish the Agency with Certificates of Insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The Certificates are to be received and approved by the Agency before work commences and upon any contract renewal or insurance policy renewal thereafter.

2. The Certificate Holder Shall be listed as follows:

Grambling State University
Agency Name, Its Officers, Agents, Employees and Volunteers
Address, City, State, Zip
Project or Contract #:

3. In addition to the Certificates, Contractor shall submit the declarations page and the cancellation provision for each insurance policy. The Agency reserves the right to request complete certified copies of all required insurance policies at any time.

4. Upon failure of the Contractor to furnish, deliver and maintain required insurance, this contract, at the election of the Agency, may be suspended, discontinued or terminated. Failure of the Contractor to purchase and/or maintain any required insurance shall not relieve the Contractor from any liability or indemnification under the contract.

F. SUBCONTRACTORS

Contractor shall include all subcontractors as insureds under its policies OR shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Agency reserves the right to request copies of subcontractor's Certificates at any time. Failure of contractor to comply with this clause does not waive the contractor responsibility to indemnify or defend Agency due to subcontractor's failure to acquire proper insurance.

G. WORKERS COMPENSATION INDEMNITY

In the event Contractor is not required to provide or elects not to provide workers compensation coverage, the parties hereby agree that Contractor, its owners, agents and employees will have no cause of action against, and will not assert a claim against, the State of Louisiana, its departments, agencies, agents and employees as an employer, whether pursuant to the Louisiana Workers Compensation Act or otherwise, under any circumstance. The parties also hereby agree that the State of Louisiana, its departments, agencies, agents and employees shall in no circumstance be, or considered as, the employer or statutory employer of Contractor, its owners, agents and employees. The parties further agree that Contractor is a wholly independent contractor and is exclusively responsible for its employees, owners, and agents. Contractor hereby agrees to protect, defend, indemnify and hold the State of Louisiana, its departments, agencies, agents and employees harmless from any such assertion or claim that may arise from the performance of this contract.

H. INDEMNIFICATION/HOLD HARMLESS AGREEMENT

1. Contractor/Subcontractor/Other responsible party agrees to protect, defend, indemnify, save, and hold harmless, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of Contractor, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by Contractor as a result of any claims, demands, suits or causes of action, except those claims, demands, suits, or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers.

2. Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if

the claims, demands, suits, or causes of action are groundless, false or fraudulent. The State of Louisiana may, but is not required to, consult with the Contractor in the defense of claims, but this shall not affect the Contractor's responsibility for the handling of and expenses for all claims.

ARTICLE 4

QUALITY

STANDARD OF QUALITY

Where catalog numbers and/or manufacturer's names are referred to in the specifications, they are used for the purpose of conveying to the prospective bidders the type and design of equipment, or supplies desired; but it shall be understood that bidders may submit on other makes in lieu of that mentioned, providing such other item is similar in design and equal in quality. It is not expected that the items of all manufacturers shall conform exactly to every detail and dimension mentioned in the specifications; but the essential features of the items mentioned shall be provided in the items to be furnished. Submittal Format: Submit 1 copy of each written Procurement Substitution Request, using CSI Substitution Request Form 1.5C.

- b. Procurement Substitution Request may be submitted via email in PDF format or mailed. Faxed requests will not be accepted.
 - i. Contact: Grambling State University Purchasing Office
 - ii. Phone: 318.274.3280
 - iii. Mailing Address: purchasingbids@gram.edu

7. QUESTIONS / REQUESTS FOR CLARIFICATION

All questions and requests for clarification shall be submitted in writing to the GSU purchasing office at least seven (7) days prior to the bid date. If necessary, GSU will issue an addendum to provide answers and clarifications.

8. AREA OF WORK – Safety and Protection

The contractor shall post warning signs and barriers as necessary to ensure that students, faculty, staff, and the general public avoid the work area. The contractor may store materials on site provided the materials are stored in a location and manner that does not interfere with the University and does not damage existing facilities (grounds, grass, sidewalks, parking lots, etc.)

The contractor should coordinate with University personnel to approve the laydown / material storage areas at the pre-construction meeting and before any material are delivered.

This building will remain open and the business will maintain normal operations. The contractor needs to ensure that the safety of the students, faculty, staff, and general public remain the first priority during this job. The contractor shall in no way impede the day-to-day operations of the business.

9. CONSTRUCTION SCHEDULE / OUTAGES

The project should be completed within 84 days of a notice to proceed.

The University should be given a notice of two weeks before any outages are scheduled should there need to be any.

10. LIQUIDATED DAMAGES

The University will assess liquidated damages to the contractor for failure to comply with the schedule of the work. Liquidated damages shall be assessed at the rate of \$250.00 per day for each additional day required to fully complete the scope of work. The contractor shall fully complete all work in the base bid within 84 days of

notice to proceed, in accordance with the project specifications in the Summary of Work paragraph, from the receipt of a purchase order from GSU.

11. DAMAGES TO FACILITIES

Contractor shall be responsible for all damages to the existing site, facilities, furniture, and equipment that are caused by this project. The contractor shall carefully document existing site conditions and existing damages prior to commencing work. The contractor shall repair all damage to its original, undamaged condition prior to completing this project.

12. COMPLIANCE AND SAFETY REQUIREMENTS

Contractor shall be required to adhere to all University safety and health policies. Contractor shall fully comply with all applicable laws, rules, regulations, permits, etc. This includes but is not limited to the following: the contractor must use an OSHA approved lockout / tag out program that meets or exceeds the University's policy, the contractor shall properly label all chemical containers used during the project, the contractor shall have a material safety data sheet (MSDS) for each product used during the project, etc. All employees shall wear fall protection equipment as required when working at elevated levels. All employees will not be allowed to use tobacco products on the project site. Contractor, subcontractors, material suppliers and all employees must be properly trained and fully comply with occupational safety and health regulations. Any accidents, incidents, near misses, etc. will be reported to the University project coordinator immediately and the University may investigate these events. The University reserves the right to require the contractor to remove any employee from the project if the employee is observed violating safety rules, regulations, policies, etc.

13. PROFESSIONAL CONDUCT

The contractor, sub-contractors, material suppliers, and all workers associated with the project shall conduct themselves in a professional manner at all times. All employees shall wear identification that clearly identifies them as a contract employee. This could be a uniform shirt or name badge. Shirts shall be neatly tucked into trousers. Contractors shall not be allowed to wear sleeveless shirts, tank tops, etc. No profanity will be allowed for any reason. The University reserves the right to require the contractor to remove any employee from the job immediately for failure to comply with these requirements and / or for failure to comply with University policies and procedures, and all other applicable laws, rules, and requirements.

14. USE OF UNIVERSITY FACILITIES

The contractor, sub-contractors, material suppliers, and all workers associated with the project shall not use University facilities such as restrooms, break rooms, vending machines, etc. The contractor shall supply a portable restroom for their employees to use.

15. USE OF TOBACCO PRODUCTS

Tobacco use will only be allowed in personal vehicles. See GSU's tobacco use policy for detailed information at <http://www.GSU.edu/tobaccouse/>

16. DISPOSAL

Contractor shall dispose of all construction debris, trash, and other materials in compliance with all applicable laws, rules, regulations, permit.