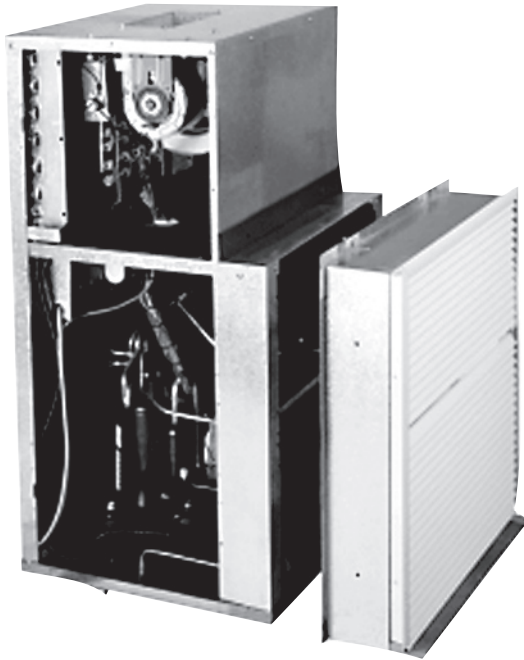


Job Name: \_\_\_\_\_ Location: \_\_\_\_\_  
 Customer: \_\_\_\_\_  
 Project Engineer: \_\_\_\_\_  
 Project Architect: \_\_\_\_\_  
 General Contractor: \_\_\_\_\_  
 Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_ For: Reference [ ] Approval [ ]

**ENGINEERING SUBMITTAL**



### STANDARD FEATURES

The standard VPAC/VPHP unit comes equipped with the following:

- No internal drain necessary – slinger ring for positive condensate re-evaporation
- Dual motors for reduced sound levels
- Plug connection at the control box (right, left or front mounted) for use with a 24 Volt thermostat.
- 208/230 Volt line cord - on models up to 5kw heat (7 and 10kw heat applications hard wired, see specifications on page 2)
- Manual fresh air damper
- Custom depth wall sleeve
- Indoor/outdoor mounting anodized outdoor louver for field installation (optional colors available)
- Supplemental electric heat
- Universal Microprocessor Board. Features include:
  - Fan purge
  - Anti-short cycle protection
  - Random start timer
  - Freeze protection
  - Low ambient lockout
  - Test operation

*If other than the standard features listed above are needed, **customize** your application by choosing from the following options.*

OPTIONS	X	OPTIONS	X
• Hydronic Heat Package - consult factory		• Return Air Access Panel with Frame and Filter	
• 265/277 Volt (Hard Wired)		• Painted Condenser Louver (specify color)	
• Casters - for ease of service and maneuverability		• Remote Thermostat - Mercury Bulb or Digital	
• Disconnect Switch (units up to 5kw only)		• Internal Drain connection If Necessary (in either left, center or right location)	
• Energy Management System (EMS) Relay			



# Engineering Submittal and Wall Sleeve Specification Worksheet

## VPAC/VPHP Single Package Vertical Air Conditioner/Heat Pump

9,000 - 12,000 - 15,000 - 17,000 - 19,000 - 24,000 Btuh

Rev. 1.6 [11/07]

**Important Note:** You must circle or mark the specifications for:  
 • Capacity • Straight Cool or Heat Pump • Voltage • Electric Heat or Hydronic Heat

Model	Btuh		Efficiency		Electric Heat					Max. HACR Breaker		No Electric Heat	Hydrocoil					Dimensions				Weight (lbs.)													
	Cooling (VPAC)	Heating (VPHP)	EER	COP (VPHP)	Heater Size	Volts	Btuh	Amps	Line Cord	Electric Heat	No Electric Heat	Line Cord	CFM	GFM	H <sub>2</sub> O Temp	Btuh	PD (Ft/H <sub>2</sub> O)	Width (in.)	Height (in.)	Depth (in.)															
																				VPHP	VPAC														
9	9,000	8,800	9.1	2.8	3kw	208	8,400	11.8	6-20P	20	15	6-15P	300	1	180	11,100	1.0	25"	40"	21.4"	20"	140													
						230	10,300	13.0		20																									
						265	12,900	14.2		H-Wire													20												
						4kw	208	11,200	15.7	6-30P													25												
							230	13,700	17.4														25												
							265	18,200	20.0														H-Wire	30											
					5kw	208	14,000	19.7	6-30P	30																									
						230	17,100	21.7		30																									
						6-15P	11,700	8.7																											
					12	11,500	11,500	8.8	3.1	3kw	208	8,400				11.8	6-20P						20	15	6-15P	300	1	180	11,500	1.0	25"	40"	21.4"	20"	140
											230	10,300				13.0							20												
											265	12,900				14.2							H-Wire												
4kw	208	11,200	15.7	6-30P							25																								
	230	13,700	17.4								25																								
	265	18,200	20.0								H-Wire	30																							
5kw	208	14,000	19.7	6-30P						30																									
	230	17,100	21.7							30																									
	6-15P	13,600	8.7																																
15	15,600	14,000	9.0	3.0						3kw	208	8,400	11.8	6-20P	20	15	6-15P	400	1	180	12,700	1.0	25"	40"	21.4"				20"	140					
											230	10,300	13.0		20																				
											265	12,900	14.2		H-Wire																				
					4kw	208	11,200	15.7	6-30P		25																								
						230	13,700	17.4			25																								
						265	18,200	20.0			H-Wire	30																							
					5kw	208	14,000	19.7	6-30P	30																									
						230	17,100	21.7		30																									
						6-15P	15,300	8.7																											
					17	17,800	17,000	8.6	2.7	3kw	208	8,400	11.8	6-20P	20	15	6-15P				500	2				160	24,115	0.9			25"	40"	21.4"	20"	250
											230	10,300	13.0		20																				
											265	12,900	14.2		H-Wire																				
4kw	208	11,200	15.7	6-30P							25																								
	230	13,700	17.4								25																								
	265	18,200	20.0								H-Wire	30																							
5kw	208	14,000	19.7	6-30P						30																									
	230	17,100	21.7							30																									
	6-15P	30,480	7.2																																
19	19,200	18,000	10.0	3.0						3kw	208	8,400	11.8	6-20P	20	15	6-15P	500	2	180			29,740	0.9	25"		50"	21.4"	20"	250					
											230	10,300	13.0		20																				
											265	12,900	14.2		H-Wire																				
					4kw	208	11,200	15.7	6-30P		25																								
						230	13,700	17.4			25																								
						265	18,200	20.0			H-Wire	30																							
					5kw	208	14,000	19.7	6-30P	30																									
						230	17,100	21.7		30																									
						6-15P	37,440	7.0																											
					7kw	208	19,600	27.5	H-Wire	40																									
						230	23,900	30.4		40																									
						6-15P	37,440	7.0																											
24	23,200	18,500	9.0	2.7	3kw	208	8,400	11.8	6-20P	20	20	6-20P	650	2	160	29,800	0.9	25"	50"	26.4"	25"	250													
						230	10,300	13.0		20																									
						265	12,900	14.2		H-Wire													25												
						4kw	208	11,200	15.7	6-30P													25												
							230	13,700	17.4														25												
							265	18,200	20.0														H-Wire	30											
					5kw	208	14,000	19.7	6-30P	30																									
						230	17,100	21.7		30																									
						265	22,700	25.0		35																									
						7kw	208	19,600	27.5	H-Wire	40																								
							230	23,900	30.4		40																								
							6-20P	36,750	0.9																										
					10kw	208	28,000	39.3	H-Wire	60																									
						230	34,200	43.5		60																									
						6-20P	46,800	7.0																											

Performance data is subject to change without notice. For the most current unit/system performance data, please refer to the Enviromaster International listing of certified products in the ARI directory, at [www.aridirectory.org](http://www.aridirectory.org).



Engineering Submittal and Wall Sleeve Specification Worksheet
VPAC/VPHP Single Package Vertical Air Conditioner/Heat Pump
9,000 - 12,000 - 15,000 - 17,000 - 19,000 - 24,000 Btuh

Rev. 1.6 [11/07]

VPAC/VPHP ORDER SPECIFICATIONS FOR ENGINEERING PURPOSES

This is very important information to make certain that equipment supplied is properly designed for the application for which it was intended!!

1. TYPE OF CONSTRUCTION: New Construction [ ] Replacement [ ]
If Replacement, what is the current model being replaced?
Manufacturer Model #

2. TYPE OF APPLICATION: Hotel/Motel [ ] Office [ ] Suites [ ] Condo [ ] Apartments [ ]
Other (Please explain)
How many rooms are being conditioned by one unit?

3. ELECTRIC HEAT: Output or kw: Current Circuit Breaker Used: amps

4. FIELD SUPPLY VOLTAGE: 115 [ ] 208/230 [ ] 265/277 [ ]

5. IS THERE AN INTERNAL DRAIN SYSTEM FOR CONDENSATE REMOVAL? Yes [ ] No [ ]
If Yes, will the customer need an overflow stub in the base or to extend the drain hose?
Location of drain stub: Front [ ] Left Side [ ] Right Side [ ]

6. WHAT ARE THE PLANNED DIMENSIONS OF THE UNIT ENCLOSURE? L W H
(NOTE: Unit enclosure must meet minimum clearance specifications.)

7. IS ACCESS/RETURN AIR PANEL TO BE SUPPLIED? Yes [ ] No [ ]
(NOTE: Standard R/A Access Panel is supplied with a 1. disposable filter.)
If not, what will be used?
What is return air opening size? L W
What is free area of existing return air opening?

Attach sketch or photo if possible.

8. WHAT CONTROL ACCESS IS REQUIRED WHEN LOOKING AT FRONT OF UNIT (Evap. Coil Side)?
Left Side [ ] Ride Side [ ] Front [ ]

9. WHAT IS DESIGNED EXTERNAL STATIC PRESSURE (E.S.P.)?
If not known, describe the supply air configuration.
Rectangular Duct L W
Circular Duct Diameter Duct Length
How many supply air diffusers?

10. CONDENSER SIDE GRILL SUPPLIED BY EMI? Yes [ ] No [ ]
If No, please sketch a drawing or send a photo with size, louver angles and location, etc.
(NOTE: Standard louver color is anodized aluminum. If special color is requested, please note there is an additional charge for special color louvers.)

**IMPORTANT:** The total wall depth must be a minimum of 5.25" for straight cool (VPAC) units and 6.5" for heat pump (VPHP) units. If these dimensions cannot be met, the wall sleeve will protrude into the closet/enclosure and may require additional finish work.

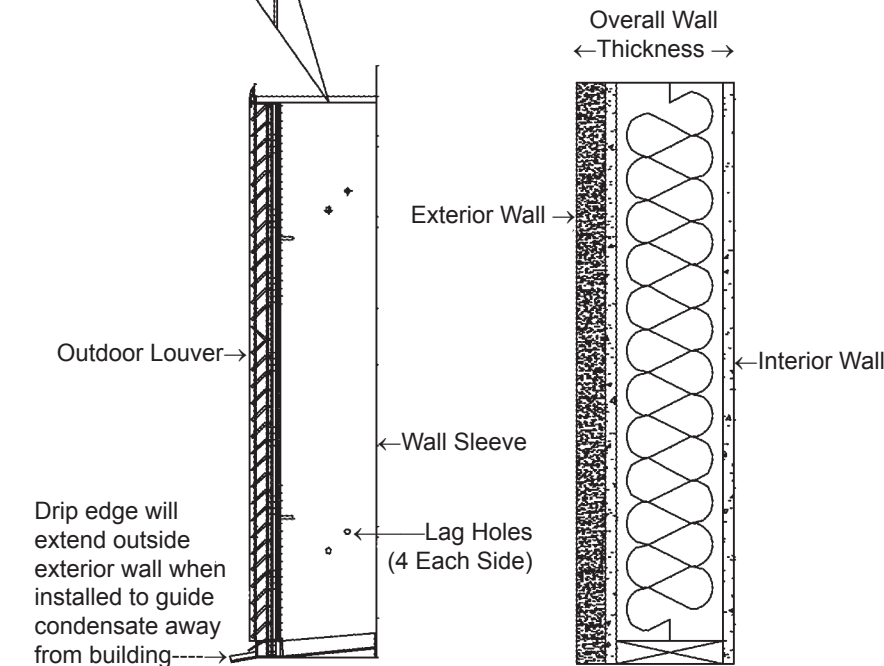
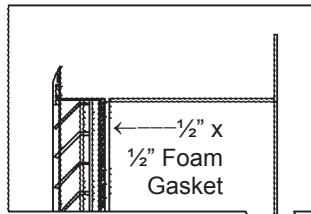
**TO DETERMINE WALL SLEEVE DEPTH, USE THE FOLLOWING FORMULA:**

**Wall Sleeve Depth = Overall Wall Thickness - 1.25" (Louver Depth)**

**EXAMPLE:** If your overall wall thickness is 10" then your wall sleeve depth would be 8.75" (10" - 1.25" = 8.75")

**Fill In Your Information Here:**

\_\_\_\_\_ - 1.25" = \_\_\_\_\_  
Overall Wall Thickness                      Wall Sleeve Depth



Tested/Rated In  
Accordance With ARI  
Standard 390



**Wall Sleeve Assembly**

**Cross Section of a Typical Wall**

Company Name \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

EMI Signature \_\_\_\_\_

Date \_\_\_\_\_