VPAC/VPHP

# Wall Sleeve Specification Worksheet
# VPAC/VPHP Single Package Vertical Air Conditioner/Heat Pump 30-36 Btuh

Rev. 1.2 [12/06]

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:

- **Cooling or heat pump chassis** w/high efficiency scroll compressor
- **Custom wall sleeve**
- **Anodized aluminum outdoor louver** for field installation (optional colors available)
- **Front mounted control box**
- **Manual fresh air damper**
- **Microprocessor control board**
- **Refrigerant hot gas bypass** for operation in lower ambient conditions (cooling cycle only)
- **Internal Drain Connection**
- **Universal control board:** can be used in straight cool electric, hydronic heat, or cooling/heat pump applications.
- **Fan purge:** fan remains on for 60 seconds after heat/cool call is dropped (“auto” mode only)
- **Anti-short cycle compressor protection**
- **Random start timer:** prevents multiple units from simultaneous start-ups (straight cool only)
- **Freeze protection:** prevents evaporator freeze ups
- **Low ambient lockout**
- **Test operation:** all timers are eliminated to allow ease of testing after installation (straight cool only)
- **Compatible** with fossil fuel, electric heat, mercury or electronic thermostats

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

| OPTIONS | X | OPTIONS | X |
|---|---|---|---|
| • Supplemental Electric Heat 5, 7.5, 10kw (15kw for 36,000 Btuh) | | • Return Air Access Panel W/Disposable Air Filter | |
| • 265/277V (Contact Factory for Availability) | | • Painted Condenser Louver | |
| | | • Remote Thermostat (Mercury Bulb or Digital) | |

# 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 annodized aluminum. If special color is requested, please note there is an additional charge for special color louvers.)*

# VPAC/VPHP

# Engineering Submittal and Wall Sleeve Specification Worksheet VPAC/VPHP Single Package Vertical Air Conditioner/Heat Pump 30-36 Btuh

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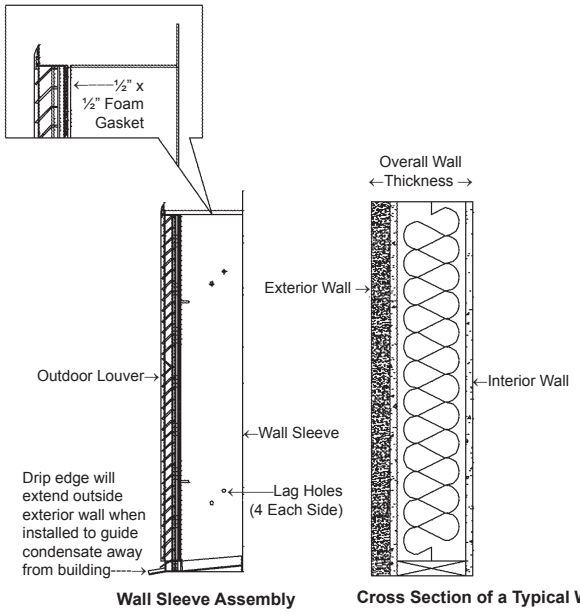
**Important Note:** ***You must circle or mark the specifications for:***
***• Capacity • Straight Cool or Heat Pump • Voltage • Electric Heat or Hydronic Heat***

| Model | Btuh | | Efficiency | | Electric Heat | | | | | Hydrocoil Performance | | | | | | | Max. HACR Breaker | | | Dimensions | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cooling | Heating (VPHP) | EER | COP (VPHP) | Heater Size | Volts | Watts | HT Amps | | CFM | $H_2O$ Temp | Inlet $H_2O$ gpm (°F) | Btuh | Head Loss ft $H_2O$ | Outlet Air Temp (°F) | Outlet Water Temp (°F) | W/out Electric Heat | With Electric Heat | | Width (in.) | Height (in.) | Depth (in.) | | |
| | | | | | | | | Circuit #1 | Circuit #2 | | | | | | | | | Circuit #1 | Circuit #2 | | | Heat Pump | Stright Cool | |
| 30 | 30,000 | 29,800 | 9.2 | 2.4 | 5kw | 208 | 4,089 | 19.7 | – | 1,000 | 160° | 1 | 2,0644 | .1 | 87° | 118° | 35* | 35 | - | 28 | 52 | 21.4 | 24.5 | 245 |
| | | | | | | | | | | 1,000 | 160° | 2 | 3,2092 | .4 | 97° | 127° | 35* | 35 | - | | | | | |
| | | | | | | 230 | 5,000 | 21.7 | – | 1,000 | 160° | 3 | 3,6613 | .8 | 101° | 135° | 35* | 35 | - | | | | | |
| | | | | | | | | | | 1,000 | 160° | 4 | 3,9419 | 1.5 | 104° | 140° | 35* | 35 | - | | | | | |
| | | | | | 7.5kw | 208 | 6,134 | 29.5 | – | 1,000 | 180° | 1 | 2,6534 | .1 | 92° | 126° | 35* | 45 | - | | | | | |
| | | | | | | 230 | 7,500 | 32.6 | – | 1,000 | 180° | 2 | 3,9461 | .4 | 104° | 140° | 35* | 45 | - | | | | | |
| | | | | | 10kw | 208 | 8,178 | 39.3 | – | 1,000 | 180° | 3 | 4,4950 | .8 | 109° | 150° | 35* | 55 | - | | | | | |
| | | | | | | 230 | 10,000 | 43.5 | – | 1,000 | 180° | 5.2 | 5,0980 | 2.4 | 114° | 160° | 35* | 60 | - | | | | | |
| 36 | 36,000 | 35,600 | 9.8 | 2.7 | 5kw | 208 | 4,089 | 19.7 | – | 1,200 | 160° | 1 | 2,1201 | .1 | 84° | 117° | 40 | 40 | - | 28 | 56 | 21.4 | 28.0 | 285 |
| | | | | | | 230 | 5,000 | 21.7 | – | 1,200 | 160° | 2 | 3,3645 | .4 | 94° | 126° | 40 | 40 | - | | | | | |
| | | | | | 7.5kw | 208 | 6,134 | 29.5 | – | 1,200 | 160° | 3 | 3,8695 | .8 | 97° | 134° | 40 | 45 | - | | | | | |
| | | | | | | 230 | 7,500 | 32.6 | – | 1,200 | 160° | 4.3 | 4,2668 | 1.7 | 100° | 140° | 40 | 45 | - | | | | | |
| | | | | | 10kw | 208 | 8,178 | 39.3 | – | 1,200 | 180° | 1 | 2,7277 | .1 | 89° | 124° | 40 | 55 | - | | | | | |
| | | | | | | 230 | 10,000 | 43.5 | – | 1,200 | 180° | 2 | 4,1390 | .4 | 99° | 138° | 40 | 60 | - | | | | | |
| | | | | | 15kw | 208 | 12,268 | 19.7 | 39.3 | 1,200 | 180° | 3 | 4,7531 | .8 | 104° | 148° | 40* | 40 | 50 | | | | | |
| | | | | | | 230 | 15,000 | 21.7 | 43.5 | 1,200 | 180° | 5.2 | 5,5245 | 2.8 | 110° | 160° | 40* | 40 | 55 | | | | | |

** VP-30 Requires 35 amp breaker for compressor circuit* **VP-36 Requires 40 amp breaker for compressor (circuit #1)*




**Wall Sleeve Assembly** **Cross Section of a Typical Wall**

**Cross Section of a Typical Wall**

**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

_____
Company Name

_____ _____
Authorized Signature Date

_____ _____
EMI Signature Date

Tested/Rated In Accordance With ARI Standard 390

An ECR International Brand

**Manufactured by:**
**ENVIROMASTER INTERNATIONAL LLC**
5780 Success Drive, Rome, NY 13440
Phone: 1-800-228-9364
Fax: 1-800-232-9364
Email: info@retroaire.com