SafeAIRTechnology

VACPB Series

Vertical Wall Mounted A/C with Pressurizations System

UL1995:2011 Ed.4+R:03Oct2014, CSA C22.2#236:2011 Ed.4, UL 121201:2017 Ed.9, & CSA C22.2#213:2017 Ed.3
CLASS I, DIVISION 2, GROUPS BCD T3

The VACPB2® series Wall Mounted Air Conditioner with integrated Pressurization system. Engineered and manufactured to consistently provide maximum performance in extreme and/or hazardous environments. The VACPB2® system provides cooling, heating, dehumidification functions and room pressurization as an automatic function of its design. The integrated pressurization system draws air from the inlet of the pressure blower directing it to the return air stream from the building. This air is then preconditioned by the DX cooling coil for temperature and humidity and allows the correct amount of air flow to maintain the building at a positive pressure in compliance with NFPA 496 Type Z for Pure and Room Pressurization controls. Should the room lose pressure due to a door opening the system will automatically provide the correct air flow to maintain the room within code. Once the door opening is closed the system will automatically determine the correct air flow and return to normal operation.

THE MOST COST EFFECTIVE & PROVEN EQUIPMENT WITH MORE STANDARD FEATURES IN THE INDUSTRY, SERVING IN MORE THAN 40 COUNTRIES AROUND THE WORLD.

Offering the Keys to Success: *Quality, Pricing and On Time Delivery*

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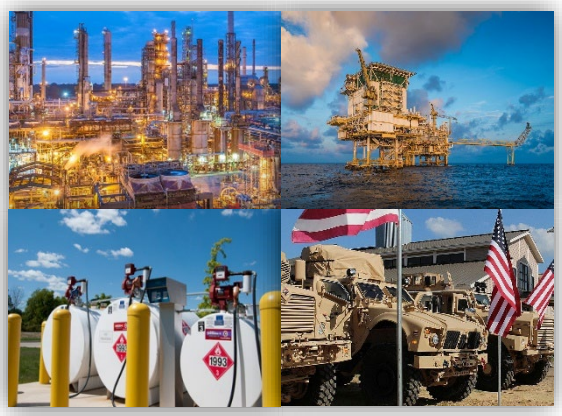
WALL MOUNTED CONTROL PANEL WITH HMI AND TEMPERATURE SENSOR

ENGINEERED & MANUFACTURED FOR THE MOST EXTREME & HARSH ENVIROPMENTS



Standard Unit Details

- All Electrical components UL and/or CSA Approved
- Constructed to meet NEC Standards and IEC Equivalent
- Controls mounted in Enclosure in rear or System with Single point power and controls connection for easy installation.
- 8" W X 10" T X 6" D Enclosure to be installed in interior of building to control and monitor unit status.
- Durable Baked Enamel Cabinet Construction with multiple construction material options available.
- High Efficiency Scroll compressor installed with R410A Refrigerant
- Easily serviceable Condenser coil by removing fan shroud
- 5 Speed EC Evaporator motor installed
- Low Ambient Controls Installed
- Totally Enclosed Condenser Motor approved for Division 2
- Electric Heater with Thermal cut-off safety circuit installed (when applicable)
- Removable condenser fan shroud to allow for easier coil cleaning
- High- and Low-Pressure Safety Switches Installed
- Twin Blowers to delivery air efficiently and quietly
- Division 2 Approved Lockable Disconnect Switch installed
- Copper Tube Aluminum Fin coils installed
- Non-Fiberglass Foil Faced Insulation with high R Value
- Integrated Mounting bracket for easy installation
- Division 2 Approved Condenser fan motor installed with Internal overload protection
- Copeland Scroll Compressor installed with Overload Protection
- Unit Capable of Dehumidification upon Request.
  (Contact our Sales/Engineering Team for updated Electrical Loads)

- **PETRO-CHEMICAL FACILITIES**
- **OFFSHORE PLATFORMS**
- **HAZARDOUS MATERIAL STORAGE FACILITIES**
- **MILIATY FACILITES AND EQUIPMENT**
- **FERTILIZER STORAGE & MANUFACTURING**
- **WASTEWATER TREATMENT FACILITIES**

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Standard Controls Details

Control Components

- Allen Bradley Micro 800 Series PLC installed.
- Allen Bradley 800 Series HMI installed
- Single Point Power Connection to UL98 Rated Load Break Disconnect Switch
- Primary fusing on Control transformer
- Wiring ran in wire tray for easy maintenance
- System Shut Down contacts to remotely disable unit.
- Wiring labeled with thermal heat Shrink labels
- Phase monitor installed (if applicable)

Control Functions / Indicators

- Initiate Black Start Button
- A/C Mode: Cool / Heat / Auto
- Blower Mode: On/Auto
- Temperature Setpoint
- Cooling - High Temp alarm Adjustment
- Heating – Low Temp alarm Adjustment
- Compressor runtime indicator
- Heater Runtime indicator
- Evaporator Runtime indicator
- Humidity Setpoint (if equipped)
- Pressurization mode: Auto / Manual
- Manual pressurization speed adjustment
- Pressure Blower runtime indicator
- Black Start timer adjustment
- Adjustable Maintenance timers for outside air Filter, Evaporator Air Filter and Condenser coil
- Lead / Lag Capability with Multiple System (if equipped)

Fault and Notification Alarm Indicators Include:

- High- and Low-Pressure Safety Switch
- Pressure blower Overload
- Heater Limit Switch
- Motor Overload Alarms
- Loss of phase / line / incorrect phase (if applicable)
- High / Low Temperature Alarms
- Replace Outside Air Filter
- Replace Evaporator Air Filter
- Condenser Coil Maintenance required
- Pressurization Remote Shutdown Indicator
- A/C Remote Shutdown Indicator

INITIAL STARTUP PAGE

A/C CONTROL PAGE

PRESSURIZATION SETUP PAGE

SYSTEM SETUP PAGE

STSTEM STATUS PAGE

A/C SETUP PAGE

ALARM PAGE

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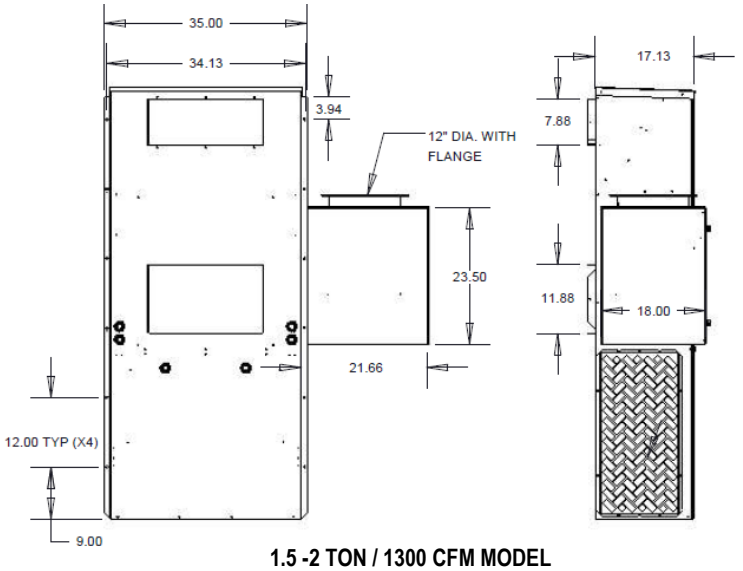
1.5 - 2 TON SYSTEM

Unit Specification and Dimensions

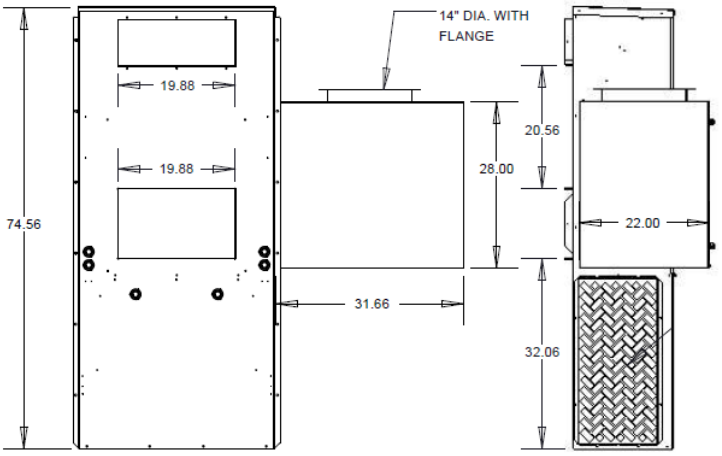
1.5 - 2 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R18SD-(--/E5/E8/E10)-1T	18.0	N/A / 5 / 8 / 10	600	230 / 1 / 60	19 / 33 / 48 / 60	25 / 35 / 50 / 60	450
VSY1-2PMU-R24SD-(--/E5/E8/E10)-1T	24.0	N/A / 5 / 8 / 10	800	230 / 1 / 60	24 / 33 / 49 / 60	30 / 35 / 50 / 60	465
VSY1-3PMU-R24SD-(--/E6)-1T	24.0	N/A / 6	800	230 / 3 / 60	18 / 26	20 / 30	465
VSY1-4PMU-R24SD-(--/E6)-1T	24.0	N/A / 6	800	460 / 3 / 60	10 / 14	15 / 15	465

1.5 - 2 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R18SD-(--/E5/E8/E10)-1T	18.0	N/A / 5 / 8 / 10	600	230 / 1 / 60	21 / 35 / 50 / 62	25 / 35 / 50 / 65	515
VSX1-2PMU-R24SD-(--/E5/E8/E10)-1T	24.0	N/A / 5 / 8 / 10	800	230 / 1 / 60	26 / 35 / 51 / 62	35 / 35 / 55 / 65	530
VSX1-3PMU-R24SD-(--/E6)-1T	24.0	N/A / 6	800	230 / 3 / 60	20 / 28	25 / 30	530
VSX1-4PMU-R24SD-(--/E6)-1T	24.0	N/A / 6	800	460 / 3 / 60	11 / 15	15 / 15	530

*The MCA and MOPD values listed are for non-dehumidification systems only. Larger circuits may be required for dehumidification. Refer to the dehumidification specifications for specific circuit requirements.



1.5 -2 TON / 1300 CFM MODEL



1.5 – 2 TON / 2600 CFM MODEL

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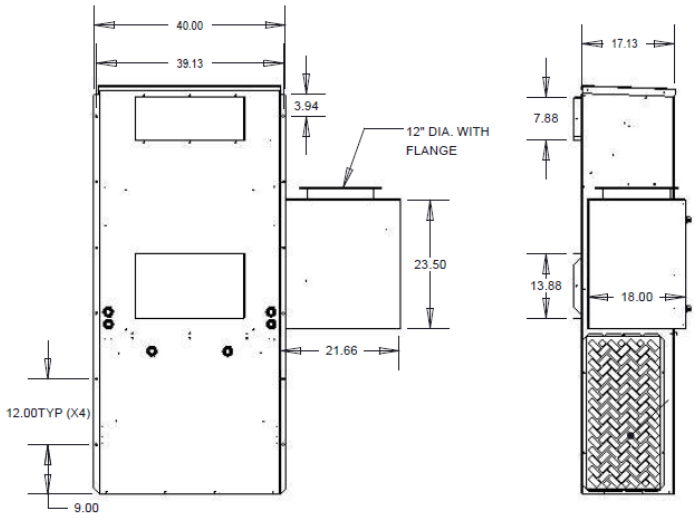
2.5 - 3 TON SYSTEM

Unit Specification and Dimensions

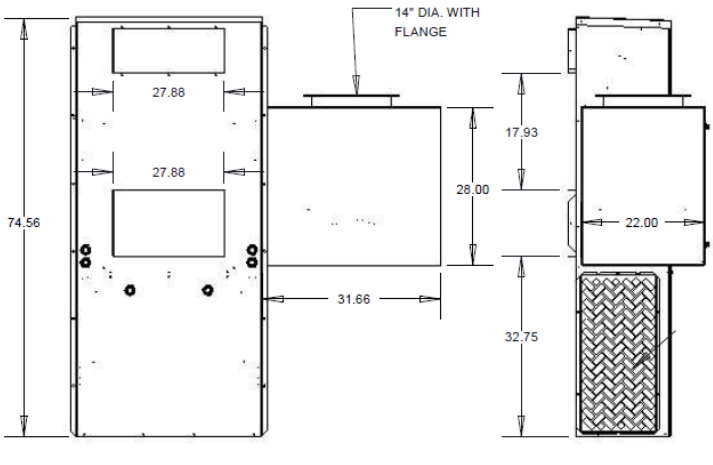
2.5 - 3 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R30SD-(--/E5/E8/E10/E15)-1T	29.2	N/A / 5 / 8 / 10 / 15	975	230 / 1 / 60	26 / 34 / 49 / 60 / 86	35 / 35 / 50 / 60 / 90	480
VSY1-3PMU-R30SD-(--/E6/E9/E15)-1T	29.2	N/A / 6 / 9 / 15	975	230 / 3 / 60	20 / 26 / 35 / 53	20 / 30 / 35 / 55	480
VSY1-4PMU-R30SD-(--/E6/E9/E12/E15)-1T	29.2	N/A / 6 / 9 / 12 / 15	975	460 / 3 / 60	11 / 14 / 18 / 22 / 27	15 / 15 / 20 / 25 / 30	480
VSY1-2PMU-R36SD-(--/E5/E8/E10/E15)-1T	35.2	N/A / 5 / 8 / 10 / 15	1175	230 / 1 / 60	30 / 35 / 51 / 61 / 87	40 / 40 / 55 / 65 / 90	510
VSY1-3PMU-R36SD-(--/E6/E9/E15)-1T	35.2	N/A / 6 / 9 / 15	1175	230 / 3 / 60	23 / 27 / 36 / 54	25 / 30 / 40 / 60	510
VSY1-4PMU-R36SD-(--/E6/E9/E15)-1T	35.2	N/A / 6 / 9 / 15	1175	460 / 3 / 60	11 / 13 / 17 / 26	15 / 15 / 20 / 30	510

2.5 - 3 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R30SD-(--/E5/E8/E10/E15)-1T	29.2	N/A / 5 / 8 / 10 / 15	975	230 / 1 / 60	28 / 36 / 51 / 62 / 88	40 / 40 / 55 / 65 / 90	545
VSX1-3PMU-R30SD-(--/E6/E9/E15)-1T	29.2	N/A / 6 / 9 / 15	975	230 / 3 / 60	22 / 28 / 37 / 55	25 / 30 / 40 / 55	545
VSX1-4PMU-R30SD-(--/E6/E9/E12/E15)-1T	29.2	N/A / 6 / 9 / 12 / 15	975	460 / 3 / 60	12 / 15 / 19 / 23 / 28	15 / 15 / 20 / 25 / 30	545
VSX1-2PMU-R36SD-(--/E5/E8/E10/E15)-1T	35.2	N/A / 5 / 8 / 10 / 15	1175	230 / 1 / 60	32 / 37 / 53 / 63 / 89	45 / 40 / 55 / 65 / 95	575
VSX1-3PMU-R36SD-(--/E6/E9/E15)-1T	35.2	N/A / 6 / 9 / 15	1175	230 / 3 / 60	25 / 29 / 38 / 56	30 / 30 / 40 / 60	575
VSX1-4PMU-R36SD-(--/E6/E9/E15)-1T	35.2	N/A / 6 / 9 / 15	1175	460 / 3 / 60	12 / 14 / 18 / 27	15 / 15 / 20 / 30	575

*The MCA and MOPD values listed are for non-dehumidification systems only. Larger circuits may be required for dehumidification. Refer to the dehumidification specifications for specific circuit requirements.



2.5 - 3 TON / 1300 CFM MODEL



2.5 - 3 TON / 2600 CFM MODEL

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3.5 - 4 TON SYSTEM

Unit Specification and Dimensions

3.5 - 4 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R42SD-(--/E5/E10/E15/E20)-1T	42.0	N/A / 5 / 10 / 15 / 20	1415	230 / 1 / 60	34 / 34 / 60 / 86 / 112	50 / 50 / 65 / 90 / 125	610
VSY1-3PMU-R42SD-(--/E6/E9/E15/E18)-1T	42.0	N/A / 6 / 9 / 15 / 18	1415	230 / 3 / 60	26 / 26 / 35 / 54 / 63	35 / 35 / 35 / 60 / 65	610
VSY1-4PMU-R42SD-(--/E9/E15)-1T	42.0	N/A / 9 / 15	1415	460 / 3 / 60	14 / 19 / 28	15 / 20 / 30	610
VSY1-2PMU-R36SD-(--/E5/E10/E15/E20)-1T	48.0	N/A / 5 / 10 / 15 / 20	1625	230 / 1 / 60	38 / 33 / 62 / 88 / 114	50 / 50 / 65 / 90 / 125	615
VSY1-3PMU-R36SD-(--/E6/E9/E15/E18)-1T	48.0	N/A / 6 / 9 / 15 / 18	1625	230 / 3 / 60	29 / 29 / 36 / 54 / 63	35 / 35 / 40 / 60 / 65	615
VSY1-4PMU-R36SD-(--/E9/E15)-1T	48.0	N/A / 9 / 15	1625	460 / 3 / 60	15 / 19 / 28	15 / 20 / 30	615

3.5 - 4 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R42SD-(--/E5/E10/E15/E20)-1T	42.0	N/A / 5 / 10 / 15 / 20	1415	230 / 1 / 60	36 / 36 / 62 / 88 / 114	50 / 50 / 65 / 90 / 125	610
VSX1-3PMU-R42SD-(--/E6/E9/E15/E18)-1T	42.0	N/A / 6 / 9 / 15 / 18	1415	230 / 3 / 60	28 / 28 / 37 / 56 / 65	35 / 35 / 40 / 60 / 70	610
VSX1-4PMU-R42SD-(--/E9/E15)-1T	42.0	N/A / 9 / 15	1415	460 / 3 / 60	15 / 20 / 29	15 / 25 / 30	610
VSX1-2PMU-R36SD-(--/E5/E10/E15/E20)-1T	48.0	N/A / 5 / 10 / 15 / 20	1625	230 / 1 / 60	40 / 40 / 64 / 90 / 116	50 / 50 / 65 / 95 / 125	615
VSX1-3PMU-R36SD-(--/E6/E9/E15/E18)-1T	48.0	N/A / 6 / 9 / 15 / 18	1625	230 / 3 / 60	31 / 31 / 38 / 56 / 65	35 / 35 / 40 / 60 / 65	615
VSX1-4PMU-R36SD-(--/E9/E15)-1T	48.0	N/A / 9 / 15	1625	460 / 3 / 60	15 / 20 / 29	15 / 25 / 35	615

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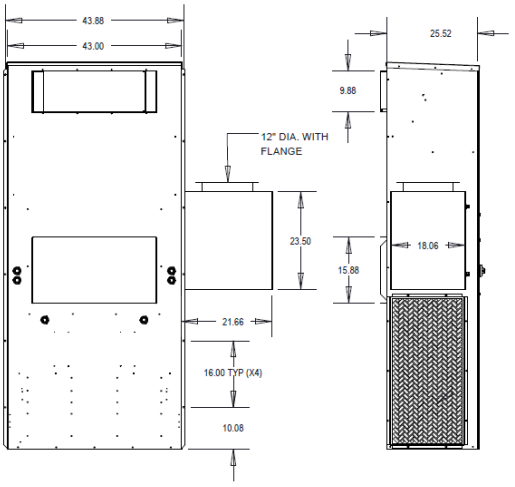
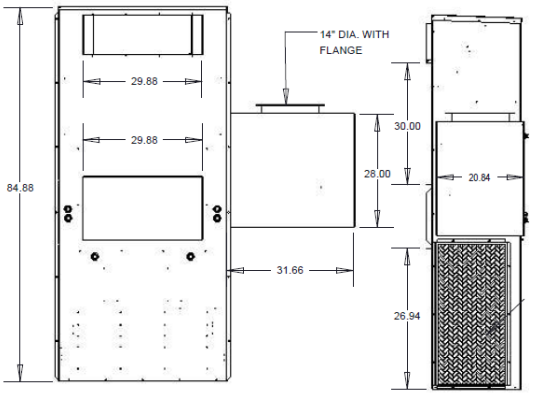


3.5 – 4 TON / 1300 CFM MODEL



3.5 – 4 TON / 2600 CFM MODEL

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5 – 6 TON SYSTEM

Unit Specification and Dimensions

5 - 6 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R60SD-(--/E5/E10/E15/E20)-1T	57.5	N/A / 5 / 10 / 15 / 20	1815	230 / 1 / 60	41 / 41 / 62 / 88 / 114	60 / 60 / 65 / 90 / 125	625
VSY1-3PMU-R60SD-(--/E6/E9/E15/E18)-1T	57.5	N/A / 6 / 9 / 15 / 18	1815	230 / 3 / 60	31 / 31 / 37 / 55 / 64	40 / 40 / 40 / 60 / 70	625
VSY1-4PMU-R60SD-(--/E9/E15)-1T	57.5	N/A / 9 / 15	1815	460 / 3 / 60	16 / 20 / 28	20 / 20 / 30	625
VSY1-2PMU-R72SD-(--/E5/E10/E15/E20)-1T	71.0	N/A / 5 / 10 / 15 / 20	2000	230 / 1 / 60	59 / 59 / 63 / 91 / 115	60 / 60 / 70 / 95 / 125	675
VSY1-3PMU-R72SD-(--/E6/E9/E15/E18)-1T	71.0	N/A / 6 / 9 / 15 / 18	2000	230 / 3 / 60	41 / 41 / 41 / 56 / 65	45 / 45 / 45 / 60 / 70	675
VSY1-4PMU-R72SD-(--/E9/E15)-1T	71.0	N/A / 9 / 15	2000	460 / 3 / 60	20 / 20 / 29	25 / 25 / 30	675

5 - 6 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R60SD-(--/E5/E10/E15/E20)-1T	57.5	N/A / 5 / 10 / 15 / 20	1815	230 / 1 / 60	43 / 43 / 64 / 89 / 116	60 / 60 / 65 / 95 / 125	690
VSX1-3PMU-R60SD-(--/E6/E9/E15/E18)-1T	57.5	N/A / 6 / 9 / 15 / 18	1815	230 / 3 / 60	33 / 33 / 39 / 57 / 66	40 / 40 / 40 / 60 / 70	690
VSX1-4PMU-R60SD-(--/E9/E15)-1T	57.5	N/A / 9 / 15	1815	460 / 3 / 60	17 / 21 / 29	20 / 25 / 30	690
VSX1-2PMU-R72SD-(--/E5/E10/E15/E20)-1T	71.0	N/A / 5 / 10 / 15 / 20	2000	230 / 1 / 60	61 / 61 / 65 / 93 / 117	65 / 65 / 70 / 95 / 125	740
VSX1-3PMU-R72SD-(--/E6/E9/E15/E18)-1T	71.0	N/A / 6 / 9 / 15 / 18	2000	230 / 3 / 60	43 / 43 / 43 / 58 / 67	45 / 45 / 45 / 60 / 70	740
VSX1-4PMU-R72SD-(--/E9/E15)-1T	71.0	N/A / 9 / 15	2000	460 / 3 / 60	21 / 21 / 30	25 / 25 / 35	740

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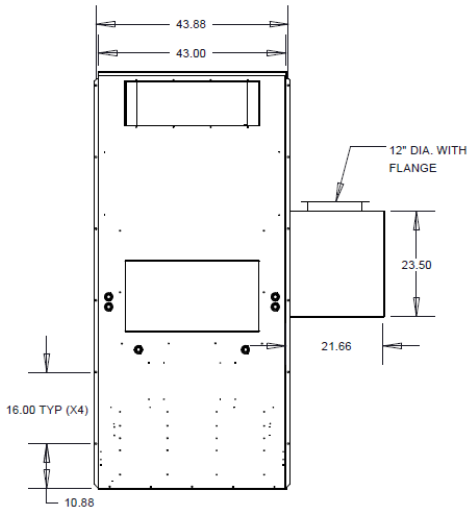
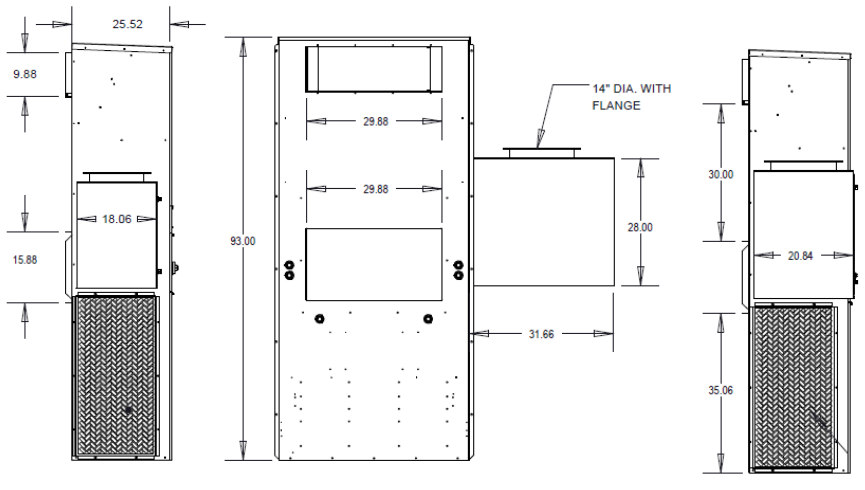


5 – 6 TON / 1300 CFM MODEL



5 - 6 TON / 2600 CFM MODEL

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Dehumidification Feature Specifications

The VACPB2® series systems can dehumidify a space using its refrigeration system combined with a selected electric heater option, forming a reheat dehumidification system. To run the system in dehumidification mode, it must be equipped with an electric heater and meet the circuit sizing and protection requirements specified below. In addition, at the time of order, be sure to specify that the unit that is being ordered requires the dehumidification feature.

1.5 - 2 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R18SD-(E5/E8/E10)-1T	18.0	5 / 8 / 10	600	230 / 1 / 60	41 / 56 / 67	45 / 60 / 70	450
VSY1-2PMU-R24SD-(E5/E8/E10)-1T	24.0	5 / 8 / 10	800	230 / 1 / 60	44 / 60 / 70	50 / 65 / 70	465
VSY1-3PMU-R24SD-(E6)-1T	24.0	6	800	230 / 3 / 60	31	35	465
VSY1-4PMU-R24SD-(E6)-1T	24.0	6	800	460 / 3 / 60	19	25	465

1.5 - 2 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R18SD-(E5/E8/E10)-1T	18.0	5 / 8 / 10	600	230 / 1 / 60	41 / 57 / 67	45 / 60 / 70	515
VSX1-2PMU-R24SD-(E5/E8/E10)-1T	24.0	5 / 8 / 10	800	230 / 1 / 60	44 / 60 / 70	50 / 65 / 70	530
VSX1-3PMU-R24SD-(E6)-1T	24.0	6	800	230 / 3 / 60	32	35	530
VSX1-4PMU-R24SD-(E6)-1T	24.0	6	800	460 / 3 / 60	19	25	530

2.5 - 3 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R30SD-(E5/E8/E10/E15)-1T	29.2	5 / 8 / 10 / 15	975	230 / 1 / 60	47 / 62 / 73 / 99	55 / 70 / 75 / 100	480
VSY1-3PMU-R30SD-(E6/E9/E15)-1T	29.2	6 / 9 / 15	975	230 / 3 / 60	34 / 43 / 61	40 / 45 / 65	480
VSY1-4PMU-R30SD-(E6/E9/E12/E15)-1T	29.2	6 / 9 / 12 / 15	975	460 / 3 / 60	20 / 25 / 30 / 34	25 / 30 / 35 / 35	480
VSY1-2PMU-R36SD-(E5/E8/E10/E15)-1T	35.2	5 / 8 / 10 / 15	1175	230 / 1 / 60	51 / 66 / 77 / 103	60 / 75 / 85 / 105	510
VSY1-3PMU-R36SD-(E6/E9/E15)-1T	35.2	6 / 9 / 15	1175	230 / 3 / 60	36 / 45 / 63	45 / 50 / 65	510
VSY1-4PMU-R36SD-(E6/E9/E15)-1T	35.2	6 / 9 / 15	1175	460 / 3 / 60	21 / 26 / 35	30 / 30 / 40	510

2.5 - 3 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R30SD-(E5/E8/E10/E15)-1T	29.2	5 / 8 / 10 / 15	975	230 / 1 / 60	47 / 62 / 73 / 99	55 / 70 / 75 / 100	545
VSX1-3PMU-R30SD-(E6/E9/E15)-1T	29.2	6 / 9 / 15	975	230 / 3 / 60	34 / 43 / 61	40 / 45 / 65	545
VSX1-4PMU-R30SD-(E6/E9/E12/E15)-1T	29.2	6 / 9 / 12 / 15	975	460 / 3 / 60	20 / 25 / 30 / 34	25 / 30 / 35 / 35	545
VSX1-2PMU-R36SD-(E5/E8/E10/E15)-1T	35.2	5 / 8 / 10 / 15	1175	230 / 1 / 60	51 / 66 / 77 / 103	60 / 75 / 85 / 105	575
VSX1-3PMU-R36SD-(E6/E9/E15)-1T	35.2	6 / 9 / 15	1175	230 / 3 / 60	36 / 46 / 64	45 / 50 / 65	575
VSX1-4PMU-R36SD-(E6/E9/E15)-1T	35.2	6 / 9 / 15	1175	460 / 3 / 60	21 / 26 / 35	30 / 30 / 40	575

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Dehumidification Feature Specifications Cont.

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3.5 - 4 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R42SD-(E5/E10/E15/E20)-1T	42.0	5 / 10 / 15 / 20	1415	230 / 1 / 60	55 / 81 / 107 / 133	70 / 90 / 110 / 135	610
VSY1-3PMU-R42SD-(E6/E9/E15/E18)-1T	42.0	6 / 9 / 15 / 18	1415	230 / 3 / 60	40 / 49 / 67 / 76	50 / 60 / 75 / 80	610
VSY1-4PMU-R42SD-(E9/E15)-1T	42.0	9 / 15	1415	460 / 3 / 60	27 / 36	30 / 40	610
VSY1-2PMU-R36SD-(E5/E10/E15/E20)-1T	48.0	5 / 10 / 15 / 20	1625	230 / 1 / 60	59 / 85 / 111 / 137	75 / 95 / 115 / 140	615
VSY1-3PMU-R36SD-(E6/E9/E15/E18)-1T	48.0	6 / 9 / 15 / 18	1625	230 / 3 / 60	44 / 53 / 71 / 80	55 / 65 / 80 / 85	615
VSY1-4PMU-R36SD-(E9/E15)-1T	48.0	9 / 15	1625	460 / 3 / 60	29 / 38	35 / 45	615

3.5 - 4 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R42SD-(E5/E10/E15/E20)-1T	42.0	5 / 10 / 15 / 20	1415	230 / 1 / 60	55 / 81 / 107 / 133	70 / 90 / 110 / 135	610
VSX1-3PMU-R42SD-(E6/E9/E15/E18)-1T	42.0	6 / 9 / 15 / 18	1415	230 / 3 / 60	40 / 49 / 67 / 76	50 / 60 / 75 / 80	610
VSX1-4PMU-R42SD-(E9/E15)-1T	42.0	9 / 15	1415	460 / 3 / 60	27 / 36	30 / 40	610
VSX1-2PMU-R36SD-(E5/E10/E15/E20)-1T	48.0	5 / 10 / 15 / 20	1625	230 / 1 / 60	59 / 85 / 111 / 137	75 / 95 / 115 / 140	615
VSX1-3PMU-R36SD-(E6/E9/E15/E18)-1T	48.0	6 / 9 / 15 / 18	1625	230 / 3 / 60	44 / 53 / 71 / 80	55 / 65 / 80 / 85	615
VSX1-4PMU-R36SD-(E9/E15)-1T	48.0	9 / 15	1625	460 / 3 / 60	29 / 38	35 / 45	615

5 - 6 TON VERTICAL UNITS WITH 1,300 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSY1-2PMU-R60SD-(E5/E10/E15/E20)-1T	57.5	5 / 10 / 15 / 20	1815	230 / 1 / 60	65 / 91 / 117 / 143	85 / 105 / 130 / 150	625
VSY1-3PMU-R60SD-(E6/E9/E15/E18)-1T	57.5	6 / 9 / 15 / 18	1815	230 / 3 / 60	47 / 56 / 74 / 83	60 / 70 / 85 / 90	625
VSY1-4PMU-R60SD-(E9/E15)-1T	57.5	9 / 15	1815	460 / 3 / 60	30 / 39	40 / 45	625
VSY1-2PMU-R72SD-(E5/E10/E15/E20)-1T	71.0	5 / 10 / 15 / 20	2000	230 / 1 / 60	75 / 102 / 128 / 154	105 / 125 / 145 / 165	675
VSY1-3PMU-R72SD-(E6/E9/E15/E18)-1T	71.0	6 / 9 / 15 / 18	2000	230 / 3 / 60	53 / 62 / 80 / 89	70 / 80 / 90 / 100	675
VSY1-4PMU-R72SD-(E9/E15)-1T	71.0	9 / 15	2000	460 / 3 / 60	33 / 42	45 / 50	675

5 - 6 TON VERTICAL UNITS WITH 2,600 CFM OF INTEGRATED PRESSURIZATION AIRFLOW							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (KW)	AIR FLOW (CFM)	POWER SUPPLY (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	WEIGHT (LBS)
VSX1-2PMU-R60SD-(E5/E10/E15/E20)-1T	57.5	5 / 10 / 15 / 20	1815	230 / 1 / 60	65 / 91 / 117 / 143	85 / 105 / 130 / 150	690
VSX1-3PMU-R60SD-(E6/E9/E15/E18)-1T	57.5	6 / 9 / 15 / 18	1815	230 / 3 / 60	47 / 56 / 74 / 83	60 / 70 / 85 / 90	690
VSX1-4PMU-R60SD-(E9/E15)-1T	57.5	9 / 15	1815	460 / 3 / 60	30 / 39	40 / 45	690
VSX1-2PMU-R72SD-(E5/E10/E15/E20)-1T	71.0	5 / 10 / 15 / 20	2000	230 / 1 / 60	76 / 102 / 128 / 154	105 / 125 / 145 / 165	740
VSX1-3PMU-R72SD-(E6/E9/E15/E18)-1T	71.0	6 / 9 / 15 / 18	2000	230 / 3 / 60	53 / 62 / 80 / 89	70 / 80 / 90 / 100	740
VSX1-4PMU-R72SD-(E9/E15)-1T	71.0	9 / 15	2000	460 / 3 / 60	33 / 42	45 / 50	740

MODEL NUMBER NOMENCLATURE

V	S	X	1		4	P	M	U		R	24	S	D		E	10			1	T
A	**B**	**C**	**D**		**E**	**F**	**G**	**H**		**I**	**J**	**K**	**L**		**M**	**N**			**O**	**P**

DIGIT A: PRODUCT TYPE	
V	VERTICAL A/C SYSTEM

DIGIT B: PRODUCT DESIGN	
S	STANDARD DUTY
E	EXTREME DUTY

DIGIT C: PRESSURIZATION AIRFLOW	
Y	1,300 CFM
X	2,600 CFM
Z	CUSTOM

DIGIT D: PRODUCT SERIES
SAT ASSIGNED BASED ON DESIGN

DIGIT E: POWER SUPPLY	
1	110VAC/1PH/60HZ
2	208-230VAC/1PH/60HZ
3	208-230VAC/3PH/60HZ
4	460-480VAC/3PH/60HZ
5	575-600VAC/3PH/60HZ
25	220-240VAC/1PH/50HZ
45	380-415VAC/3PH/50HZ

DIGIT F: CONTROLS TYPE	
M	MECHANICAL
P	PLC / HMI
S	SOLID STATE
I	INVERTER

DIGIT G: CONTROLS LOCATION	
M	MOUNTED ON UNIT
R	REMOTE MOUNTED

DIGIT H: CONTROLS RATING	
G	GENERAL PURPOSE
U	RATED WITH UNIT

DIGIT I: COOLING TYPE	
R	DIRECT EXPANSION
W	WATER COOLED

DIGIT J: COOLING CAPACITY	
24	24 MBH
CAPACITY LISTED IN MBH (1 TON = 12 MBH)	

DIGIT K: COOLING CIRCUITS	
S	SINGLE CIRCUIT
M	MULTIPLE CIRCUITS
I	INVERTER DUTY

DIGIT L: REFRIGERANT	
C	R-407C
D	R-410A

DIGIT M: HEAT TYPE	
E	ELECTRIC HEAT GENERAL PURPOSE
X	ELECTRIC HEAT EXPLOSION PROOF
P	HEAT PUMP NO. AUX HEAT
A	HEAT PUMP W/ AUX. HEAT
S	STEAM HEAT
H	HOT WATER
--	NO HEAT INCL.

DIGIT N: HEAT CAPACITY	
10	10,000 WATTS ELECTRIC HEAT
5	5,000 BTU HEAT PUMP / HW / STEAM
--	N/A

DIGIT O: CLASSIFICATION	
1	CLASS 1, GROUPS BCD, DIVISION 2, T3 CONDENSER SECTION ONLY
2	CLASS 1, GROUPS BCD, DIVISION 2, T3 ENTIRE UNIT
3	CLASS 1, GROUPS CD, DIVISION 1, T3
4	CLASS 1, GROUPS BCD, DIVISION 1, T3
5	GENERAL PURPOSE
6	CUSTOM HAZARDOUS CLASSIFICATION *SEE UNIT DETAILS

DIGIT P: CERTIFICATION	
T	THIRD PARTY CERTIFICATE BY NRTL
C	CERTIFICATE OF CONFORMANCE

OPTIONS									
COIL COATINGS		HOUSING		REFRIGERATION		MECHANICAL		ACCESSORIES	
H	HERESITE COATED COILS	S4	304 STAINLESS STEEL	C	COPPER/COPPER COILS	HG	HOT GAS BYPASS	D	DISCONNECT
A	ADSIL COATED COILS	S6	316 STAINLESS STEEL						
		P	EPOXY COATED						
X	CUSTOM MODIFICATION – PLEASE CONTACT OUR SALES / ENGINEERING DEPT. FOR ADDITIONAL INFORMATION								

NOTE: The nomenclature above is Safe Air Technologies standard Vertical w/Pressurization HVAC system nomenclature. Not all combinations / configurations are NRTL certified as a standard. Please see the models proposed in the previous pages of this catalog for the standard VACPB® models certified. Please contact our Sales / Engineering department with any questions or request.