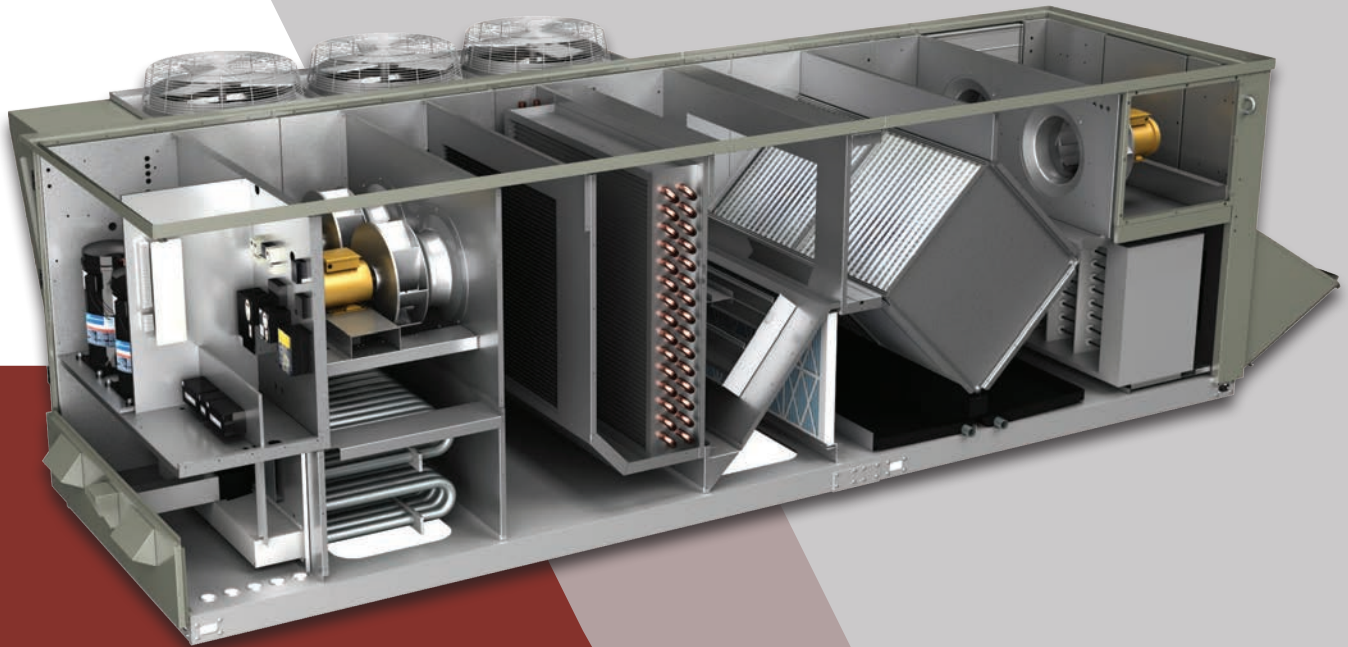




**Configurable Packaged Air Handling Equipment**



VPR SERIES  
VPRX SERIES  
VPRE SERIES  
VPRP SERIES  
VPRC SERIES  
VRC SERIES

# THE VALENT ADVANTAGE

## Quality, reliability, flexibility, and support

Valent® manufactures highly configurable packaged air handling systems. At our core is a commitment to initial quality, long-term reliability, application flexibility, and dedicated product support.

### QUALITY

**Thorough factory run-testing.** After assembly, every unit is energized and rigorously tested for an average time of 90 minutes. Testing verifies proper operation:

- Refrigeration testing at multiple conditions to evaluate superheat and subcooling performance
- Heat testing throughout heating operating range
- Electrical testing of component continuity and phasing
- Supply and exhaust fan testing for proper operation

### FLEXIBILITY

**Five casing sizes and pre-engineered options** fit a wide range of applications.

- Multiple heating and cooling configurations allow stand-alone operation or connection to a central system
- Multiple energy recovery options
- Multiple duct connection options

### RELIABILITY

**Safe, consistent lifetime performance.** Reliability is enhanced through:

- **Best-in-class components** including Digital Scroll™ and inverter scroll compressors, modulating direct-drive fans, and 2" foam injected double wall casings
- **Low maintenance requirements** including energy recovery options with no moving parts
- **Dependable controls platforms**

### SUPPORT

**Dedicated pre- and post-sale application engineering support.** We are here to help you with:

- Design decisions
- Installation guidance
- Ongoing operation and maintenance issues



*VPR Series with 352 casing, EC-driven condenser fans, 10:1 turndown gas heat, and modulating hot gas reheat*

*On the cover: VPRC Series with 210 casing, enthalpic core heat exchanger, indirect gas heat, electric preheat, and modulating hot gas reheat*

# PRODUCTS

## Multiple preconfigured platforms and application-specific solutions

Valent's highly configurable air handling systems are available in five casing sizes and include multiple cooling, dehumidification, heating, energy recovery, control, filtration, and duct connection options.

## AIR HANDLERS

### VPR AND VPRX SERIES

The VPR and VPRX are capable of cooling, heating, and dehumidifying a wide range of entering air loads up to 100% outdoor air. In applications requiring powered exhaust, the VPRX offers modulating exhaust fans for pressure relief and economizer control.

## ENERGY RECOVERY AIR HANDLERS



Valent's rotating enthalpy wheels recover up to 70% of return-air energy and slide out for easy access.

### VPRE SERIES

The VPRE expands upon the VPR packaged platform to include an air-to-air enthalpy wheel and powered exhaust fan section. Two enthalpy wheel types are available: A lightweight polymer wheel with silica gel desiccant, and an aluminum wheel with molecular sieve desiccant.



Valent's flat plate heat exchangers have no moving parts and require minimal maintenance. The VPRP's all-aluminum heat exchanger has an extremely low airstream cross-contamination rate. The VPRC's polymer enthalpic core heat exchanger has a 0% cross-contamination rate.

### VPRC SERIES

When recovering sensible and latent energy is a priority but the maintenance requirements of an enthalpy wheel are unwanted, the VPRC with its enthalpic core heat exchanger is an excellent alternative. The enthalpic core heat exchanger has a 0% exhaust air transfer ratio (EATR) as determined by AHRI 1060, and can safely handle accumulated condensate without sustaining frost damage.

### VPRP SERIES

In applications where sensible-only energy recovery is desired, the VPRP delivers with an all-aluminum flat plate heat exchanger that has a low pressure drop and an extremely low cross-contamination rate. Although commonly used in dry climates, the VPRP is also effective in high humidity or polluted spaces where airstream cross-contamination is undesirable.



## SPLIT CONDENSER

### VRC SERIES

VRC remote condensers can be paired with select Valent air handlers. Compressors remain mounted in the indoor air handler for reliability and piping simplification, eliminating the need for a third refrigeration line on circuits with hot gas reheat.



VRC Series remote condenser with EC-driven condenser fan option

# HEATING, COOLING, DEHUMIDIFICATION OPTIONS

## Multiple options for stand-alone operation or connection to a central system

### COOLING AND DEHUMIDIFICATION

#### AIR COOLED DIRECT EXPANSION

- Available in packaged or split configurations
- Fully functional factory tested R-410A refrigeration system
- Two coil sets offered:
  - 6-row for greater dehumidification capacity in 100% outdoor air applications
  - 4-row for improved efficiency in mixed-air applications
- Capacity modulation options:
  - Digital Scroll™ compressor utilizing loading and unloading for modulation
  - Inverter scroll compressor utilizing variable speed modulation resulting in higher part-load performance
- Condensing fan options:
  - Staged AC condenser fans with one VFD-modulated fan for refrigerant pressure control
  - All modulating EC condenser fans with sound reducing blades for improved dehumidification performance, higher efficiency, and lower radiated sound
- Modulating hot gas reheat option recycles compressor exhaust energy to reheat cooled air

#### CHILLED WATER

- 6- or 4-row coil depth with variable fin spacing to match the application
- Internal piping routed to an internal vestibule or piped out the unit's side

### HEATING

#### INDIRECT GAS FURNACE

- Standard construction includes 409 stainless steel burner tubes appropriate for 100% outdoor air applications
- Modulation range:
  - 4:1 turndown standard
  - 10:1 turndown option

#### ELECTRIC

- SCR-modulated electric resistance heater

#### TEMPERATOR

- Hybrid heating system pairing a 4:1 modulating gas furnace with a small SCR electric heater for total capacity modulation
- Onboard controls operate in one of three heating modes:
  - Modulating electric resistance
  - Modulating indirect gas furnace
  - Full-fire indirect gas furnace plus modulating electric resistance

#### HOT WATER

- Designed for connection to an existing hot water loop

#### STEAM

- Designed for connection to an existing steam boiler

### HEATING AND COOLING

#### WATER SOURCE HEAT PUMP

- Coaxial water-to-refrigerant coil (R-410A) condenses in cooling mode and evaporates in heating mode
- Heat, cool, and dehumidify up to 100% outdoor air at start-up temps to –5 °F
- Operates on boiler-tower or geothermal water loops
- Coaxial heat exchanger suitable for low entering geothermal water temperatures

#### AIR SOURCE HEAT PUMP

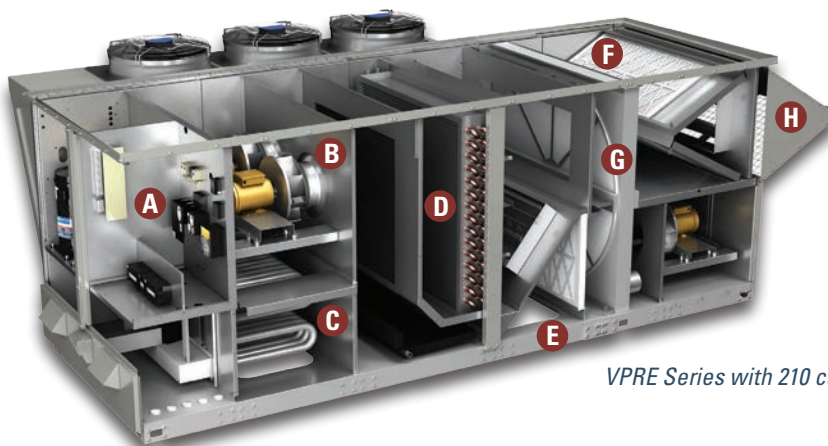
- Built on the same platform as Valent's packaged air cooled DX system
- Heat pump reversing cycle moves heat from outdoor air to supply air
- Provides heating when outdoor temps are as low as 17 °F before switching to auxiliary heat
- Defrost cycles initiate based on low suction temperature and outdoor air dew point, not a timer, reducing the number of defrost cycles



*Valent's water source heat pump has a coaxial water-to-refrigerant coil that is more freeze tolerant than a traditional brazed plate heat exchanger.*

# COMPONENTS AND OPTIONS

Pre-engineered components and multiple options provide application flexibility



VPRE Series with 210 casing

## A POWER/CONTROLS

### Power

- 208, 230, 460, or 575 V
- 3-phase
- 60 Hz input
- Single-point power
- Phase and voltage monitoring

### Controls

#### Full controls

- Valent microprocessor controls all internal components and sequences
- Set point communication via BAS
- Factory control sequences included

#### Controls Lite

- Valent microprocessor controls refrigeration components
- Heating and ventilation component control by others
- Ideal for control sequence customization

### Options

- GFCI outlet
- Dual-point power
- Breaker disconnect
- Cabinet heater
- Supply fan, exhaust fan, and damper modulation sequences

## B FANS

### Direct drive plenum fans

- No belts, wheels, or pulleys resulting in reduced maintenance and increased efficiency
- Lightweight wheels with backward curved or airfoil blades
- Up to three fans in parallel to match airflow requirement

## C HEATING

- Indirect gas furnace
- Temperator
- Electric heater
- Hot water coil
- Steam coil
- Air source heat pump
- Water source heat pump

### Options

- Inlet cone airflow monitoring
- Shaft grounding rings
- Vibration isolation

## D COOLING

- Packaged DX
- Split DX
- Air source heat pump
- Water source heat pump
- Chilled water

### Options

- Hot gas reheat coil
- Electrofin® coil coating
- Stainless steel casing
- Compressor isolation valves
- Sight glasses

## E DUCT CONNECTIONS

### Supply air

- Bottom or side

## F FILTRATION

- Return air
- VPR: Bottom or end
- VPRX: Bottom
- ERV: Bottom or side

### Outdoor air

- End, with hood or duct flange

### Exhaust air

- VPRX: End with hood
- ERV: One or both sides with backdraft damper

## G ENERGY RECOVERY

### Supply air

- 2" MERV 8
- 4" MERV 8, 11, or 14

### Outdoor air (ERV)

- 2" aluminum or MERV 8

### Exhaust air (ERV)

- 2" aluminum or MERV 8

### Hood

- 1" aluminum

### Options

- Filter pressure switch
- Filter pressure Magnehelic gage

## H CONSTRUCTION

### Type and media

- Polymer enthalpy wheel with silica gel desiccant
- Aluminum enthalpy wheel with molecular sieve desiccant
- Aluminum sensible flat plate heat exchanger
- Polymer enthalpic core heat exchanger

## Design

- Exhaust and outdoor air filtration
- Wheel cassettes slide out for cleaning
- Access panels above and drain pans under heat exchangers for cleaning

### Options

- Electric preheater
- VFD for enthalpy wheel speed modulation
- Bypass damper for heat exchangers in economizer mode

## Casing

- 2" double wall R-12 foam insulation
- Pre-painted exterior
- Galvanized interior
- Hinged access doors with lockable handles

### Dampers

- Low-leakage blades
- Dedicated modulating actuator
- Outdoor air standard on all units

### Options

- Stainless steel interior
- Airfoil blades
- Aluminum or stainless steel damper construction
- Outdoor air measurement station

# PRODUCT DATA

		VPR, VPRX, VPRE, VPRP, VPRC CASING				
		110	210	310	350	352
AIRFLOW	Minimum (cfm)	625	1,250	3,125	3,750	3,750
	Maximum (cfm)	4,000	8,000	12,000	18,000	18,000
COOLING TYPE and NOMINAL TONS	Packaged air cooled	4-row coil 5, 8	4-row coil 10, 13, 16, 18, 20	4-row coil 25, 30, 35	—	4-row coil 30, 40, 50
		6-row coil 5, 8, 10	6-row coil 10, 13, 16, 18, 20, 25	6-row coil 25, 30, 35, 40	—	6-row coil 30, 40, 50, 60, 70
	Split air cooled (with VRC casing)	4-row coil 5, 8	4-row coil 10, 13, 16, 18, 20	4-row coil 25, 30, 35	—	—
		6-row coil 5, 8, 10	6-row coil 10, 13, 16, 18, 20, 25	6-row coil 25, 30, 35, 40	—	—
	Water source heat pump	5, 8, 10	10, 13, 16, 18, 20, 25	25, 30, 35, 40	30, 40, 50, 60	—
	Air source heat pump	5, 8, 10	10, 13, 16, 18, 20, 25	—	—	—
	Chilled water	4- or 6-row coil	4- or 6-row coil	4- or 6-row coil	4- or 6-row coil**	—
COOLING COMPONENTS	Digital Scroll™ compressor	Standard	Standard	Standard	Standard	Standard
	Inverter scroll compressor	Optional	Optional	—	—	—
	Compressor(s) modulation range*	25–100%	12–100%	6–100%	6–100%	6–100%
	Modulating hot gas reheat	Optional	Optional	Optional	Optional	Optional
	Staged AC condensing fans	Standard	Standard	Standard	Standard	Standard
	Modulating EC condensing fans	Optional	Optional	Optional	Optional	Optional
INDIRECT GAS FURNACE	Minimum (MBh)	100	200	400	—	600
	Maximum (MBh)	200	400	800	—	1,200
	Turndown	4:1/10:1	4:1/10:1	4:1/10:1	—	10:1
ELECTRIC HEAT	Minimum (kW)	10	15	40	—	50
	Maximum (kW)	50	125	150	—	200
	SCR modulation	Standard	Standard	Standard	—	Standard
OTHER HEAT	Hot water	X	X	X	X**	X
	Temperator	X	X	X	—	—
Refer to Valent CAPS® selection software or the Valent Mechanical IOM for additional detail. * Modulation range based on Digital Scroll™ compressor(s). Inverter scroll modulation range may differ. ** Available upon request						

# APPROXIMATE WEIGHTS (lbs)

## 110 CASING

	Air-cooled DX			Split air-cooled DX			Air source heat pump			Water source heat pump			Chilled water	
	5	8	10	5	8	10	5	8	10	5	8	10	S	L
VPR	1,800	1,800	1,900	1,700	1,700	1,700	1,900	1,900	2,000	1,500	1,600	1,700	1,500	1,600
VPRX	2,100	2,100	2,200	2,000	2,000	2,000	2,200	2,200	2,300	1,800	1,900	2,000	1,800	1,900
VPRE	2,500	2,600	2,700	2,400	2,500	2,500	2,600	2,700	2,800	2,200	2,400	2,500	2,200	2,400
VPRP	2,900	3,000	3,100	2,800	2,900	2,900	3,000	3,100	3,200	2,600	2,800	2,900	2,600	2,800
VPRC	2,700	2,800	2,900	2,600	2,700	2,700	2,800	2,900	3,000	2,400	2,600	2,700	2,400	2,600
VRC	—	—	—	600	600	700	—	—	—	—	—	—	—	—

Air-cooled and air source heat pump units estimated with 200 MBh indirect gas furnace. Chilled water units estimated with hot water coil.

## 210 CASING

	Air-cooled DX						Split air-cooled DX						Chilled water		
	10	13	16	18	20	25	10	13	16	18	20	25			
VPR	2,600	2,700	2,900	2,900	3,200	3,300	2,300	2,400	2,500	2,500	2,700	2,700			
VPRX	3,000	3,100	3,200	3,300	3,700	3,800	2,700	2,800	2,800	2,900	3,200	3,200			
VPRE	3,700	3,700	3,900	4,000	4,300	4,500	3,400	3,400	3,500	3,600	3,800	3,900			
VPRP	4,000	4,100	4,200	4,300	4,700	4,800	3,700	3,800	3,800	3,900	4,200	4,200			
VPRC	3,800	3,900	4,000	4,100	4,500	4,700	3,500	3,600	3,600	3,700	4,000	4,100			
VRC	—	—	—	—	—	—	900	1,000	1,100	1,100	1,200	1,300			

	Air source heat pump						Water source heat pump						Chilled water		
	10	13	16	18	20	25	10	13	16	18	20	25	S	M	L
VPR	2,700	2,800	3,000	3,000	3,300	3,400	2,100	2,100	2,200	2,300	2,400	2,400	2,000	2,100	2,200
VPRX	3,100	3,200	3,300	3,400	3,800	3,900	2,500	2,500	2,500	2,700	2,900	2,900	2,400	2,500	2,700
VPRE	3,800	3,800	4,000	4,100	4,400	4,600	3,600	3,500	3,500	3,800	4,000	4,100	3,100	3,200	3,300
VPRP	4,100	4,200	4,300	4,400	4,800	4,900	5,000	4,900	4,800	5,200	5,500	5,600	3,400	3,500	3,700
VPRC	3,900	4,000	4,100	4,200	4,600	4,800	6,200	6,100	5,900	6,400	6,800	7,000	3,200	3,300	3,500
VRC	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Air-cooled and air source heat pump units estimated with 400 MBh indirect gas furnace. Chilled water units estimated with hot water coil.

## 310 CASING

	Air-cooled DX				Split air-cooled DX				Water source heat pump				Chilled water	
	25	30	35	40	25	30	35	40	25	30	35	40	S	L
VPR	4,100	4,300	4,500	4,500	3,400	3,600	3,600	3,600	3,000	3,200	3,300	3,400	3,200	3,300
VPRX	4,600	4,800	5,000	5,100	3,900	4,100	4,100	4,200	3,500	3,700	3,800	3,900	3,700	3,800
VPRE	5,500	5,700	5,900	5,900	4,800	5,000	5,000	5,000	4,400	4,600	4,700	4,800	4,600	4,700
VPRP	6,300	6,500	6,700	6,700	5,600	5,800	5,800	5,800	5,200	5,400	5,500	5,600	5,400	5,500
VPRC	6,000	6,200	6,400	6,400	5,300	5,500	5,500	5,500	4,900	5,100	5,200	5,300	5,100	5,200
VRC	—	—	—	—	1,300	1,500	1,700	1,700	—	—	—	—	—	—

Air-cooled units estimated with 800 MBh indirect gas furnace. Chilled water units estimated with hot water coil.

## 350 CASING

	Water source heat pump			
	30	40	50	60
VPR	5,900	6,200	6,500	7,100
VPRX	6,700	7,000	7,300	7,900
VPRE	8,500	8,800	9,100	9,700
VPRP	10,400	10,700	11,000	11,600
VPRC	10,000	10,300	10,600	11,200

## 352 CASING

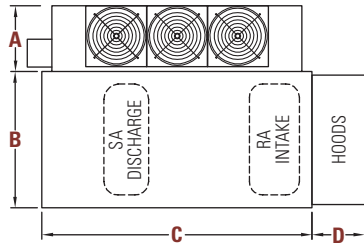
	Air-cooled DX				
	30	40	50	60	70
VPR	6,950	7,350	7,650	7,950	7,950
VPRX	7,750	8,150	8,450	8,750	8,750
VPRE	9,550	9,850	10,250	10,450	10,450
VPRP	11,450	11,750	12,150	12,350	12,350
VPRC	11,050	11,450	11,750	12,050	12,050

Air-cooled units estimated with 1,200 MBh indirect gas furnace.

# VPR | VPRX SERIES

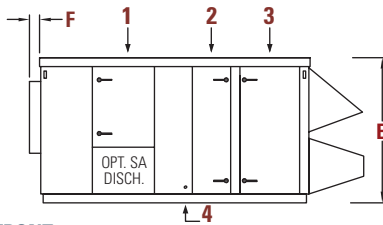
## 110-210-310 AIR-COOLED DX | AIR SOURCE HEAT PUMP

### PLAN

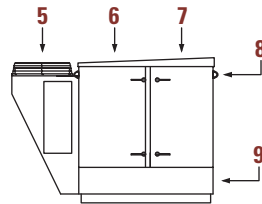


### DIMENSIONS (inches)

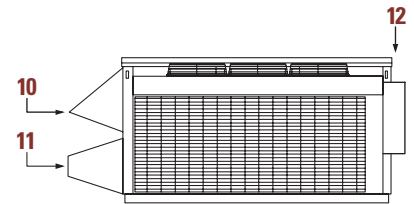
CASING		A	B	C	D	E	F
		Inverter scroll					
110		30.0	49.0	119.0	21.5	58.0	5.0
210		30.0	61.0	121.0	23.5	65.0	5.0
310		30.0	68.0	131.0	33.5	85.0	—



### FRONT



### LEFT



### BACK

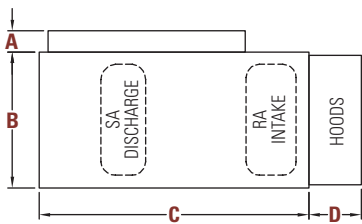
- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter, return air damper, and outdoor air damper access door
- 4 Condensate drain connection (1.125" dia.)

- 5 Air-cooled condensing section
- 6 Compressor access door
- 7 Electrical and controls access door
- 8 Lifting lug (typ. quantity 4)
- 9 Heater access panel

- 10 Outdoor air intake hood
- 11 Exhaust fan hood (VPRX only)
- 12 VFD enclosure (inverter scroll only)

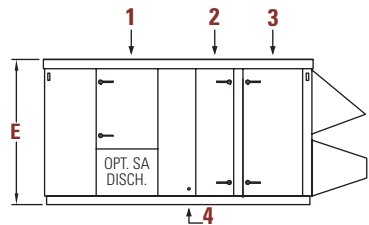
## 110-210-310 CHILLED WATER | WATER SOURCE HEAT PUMP | SPLIT DX

### PLAN

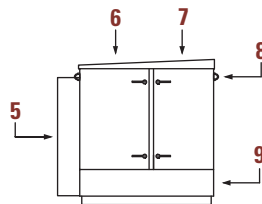


### DIMENSIONS (inches)

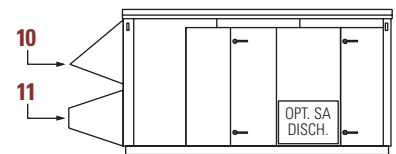
CASING		A*	B	C	D	E
		* Not applicable for chilled water				
110		14.0	49.0	119.0	21.5	58.0
210		14.0	61.0	121.0	23.5	65.0
310		14.0	68.0	131.0	33.5	85.0



### FRONT



### LEFT



### BACK

- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter, return air damper, and outdoor air damper access door
- 4 Condensate drain connection (1.125" dia.)

- 5 Refrigeration access panels (water source heat pump or split DX only)
- 6 Compressor access door
- 7 Electrical and controls access door

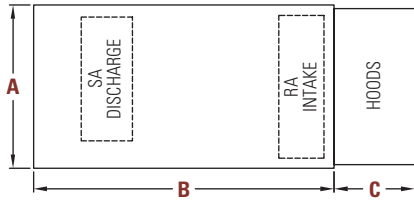
- 8 Lifting lug (typ. quantity 4)
- 9 Heater access panel
- 10 Outdoor air intake hood
- 11 Exhaust fan hood (VPRX only)



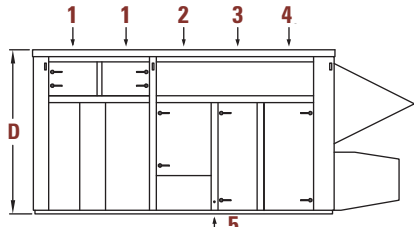
# VPR | VPRX SERIES

## 350 WATER SOURCE HEAT PUMP

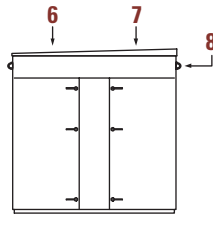
### PLAN



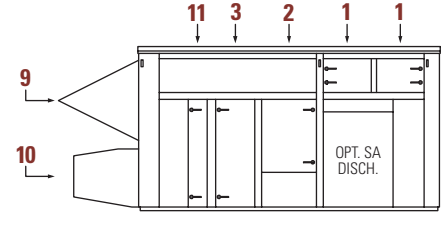
		DIMENSIONS (inches)			
		A	B	C	D
CASING	350	96.0	176.0	47.0	95.0



FRONT



LEFT



BACK

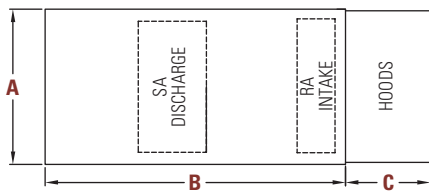
- 1 Coaxial coil access door
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter, return air damper, and outdoor air damper access door

- 5 Condensate drain connection (1.125" dia.)
- 6 Compressor access door
- 7 Electrical and controls access door
- 8 Lifting lug (typ. quantity 6)

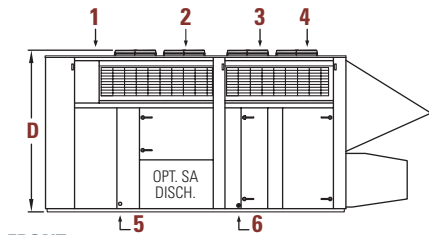
- 9 Outdoor air intake hood
- 10 Exhaust fan hood (VPRX only)
- 11 Supply air filter access door

## 352 AIR-COOLED DX

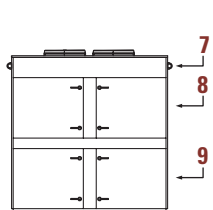
### PLAN



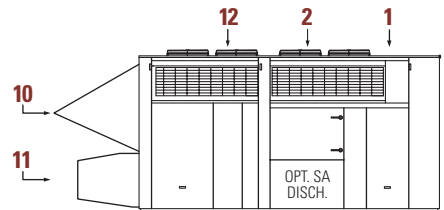
		DIMENSIONS (inches)			
		A	B	C	D
CASING	352	96.0	185.0	52.5	99.5



FRONT



LEFT



BACK

- 1 Heater access panel
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter, return air damper, and outdoor air damper access door

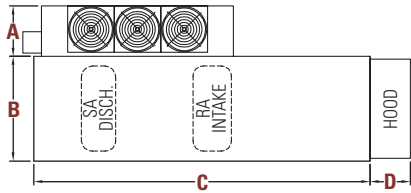
- 5 Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
- 6 Condensate drain connection (1.125" dia.)
- 7 Lifting lug (typ. quantity 6)
- 8 Compressor access door

- 9 Electrical and controls access door
- 10 Outdoor air intake hood
- 11 Exhaust fan hood (VPRX only)
- 12 Evaporator and reheat coil access panel

# VPRE SERIES

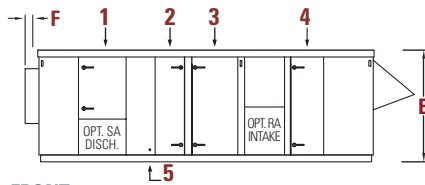
## 110-210-310 AIR-COOLED DX | AIR SOURCE HEAT PUMP

### PLAN

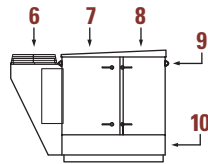


### DIMENSIONS (inches)

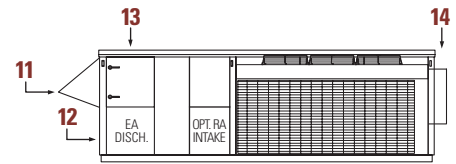
CASING		A	B	C		D	E	F
				Bottom return	Side return			Inverter scroll
				110	30.0			49.0
210	30.0	61.0	168.0	195.0	23.5	65.0	5.0	
310	30.0	68.0	178.0	205.0	33.5	85.0	—	



FRONT



LEFT

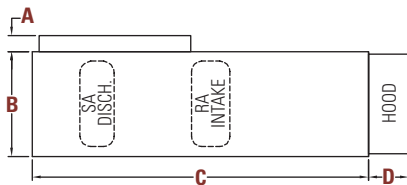


BACK

- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter and return air damper access door
- 4 Energy recovery wheel access door
- 5 Condensate drain connection (1.125" dia.)
- 6 Air-cooled condensing section
- 7 Compressor access door
- 8 Electrical and controls access door
- 9 Lifting lug (typ. quantity 6)
- 10 Heater access panel
- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Outdoor air filter and outdoor air damper access door
- 14 VFD enclosure (inverter scroll only)

## 110-210-310 CHILLED WATER | WATER SOURCE HEAT PUMP | SPLIT DX

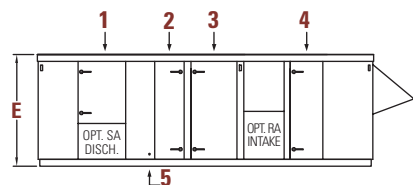
### PLAN



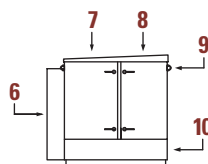
### DIMENSIONS (inches)

CASING		A*	B	C		D	E
				Bottom return	Side return		
				110	14.0		
210	14.0	61.0	168.0	195.0	23.5	65.0	
310	14.0	68.0	178.0	205.0	33.5	85.0	

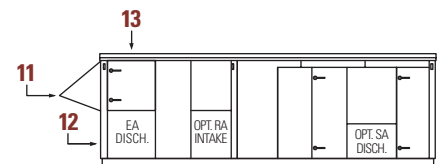
\* Not applicable for chilled water



FRONT



LEFT



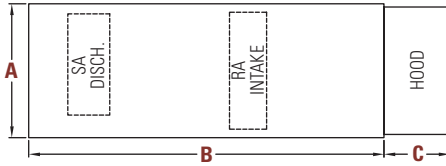
BACK

- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter and return air damper access door
- 4 Energy recovery wheel access door
- 5 Condensate drain connection (1.125" dia.)
- 6 Refrigeration access panels (water source heat pump or split DX only)
- 7 Compressor access door
- 8 Electrical and controls access door
- 9 Lifting lug (typ. quantity 6)
- 10 Heater access panel
- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Outdoor air filter and outdoor air damper access door

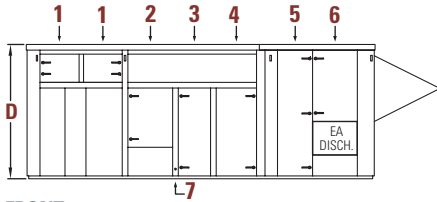
# VPRE SERIES

## 350 WATER SOURCE HEAT PUMP

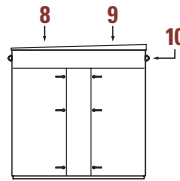
### PLAN



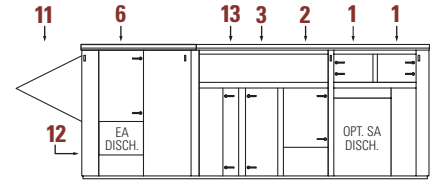
		DIMENSIONS (inches)			
		A	B	C	D
CASING	350	96.0	248.0	47.0	95.0



FRONT



LEFT

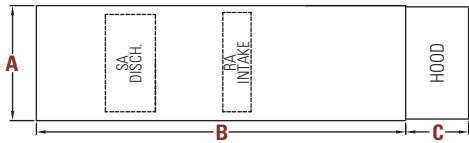


BACK

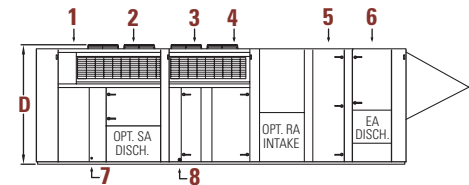
- 1 Coaxial coil access door
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter and return air damper access door
- 5 Energy recovery wheel access door
- 6 Outdoor air filter and outdoor air damper access door
- 7 Condensate drain connection (1.125" dia.)
- 8 Compressor access door
- 9 Electrical and controls access door
- 10 Lifting lug (typ. quantity 8)
- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Supply air filter access door

## 352 AIR-COOLED DX

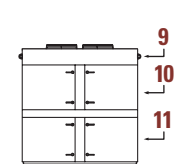
### PLAN



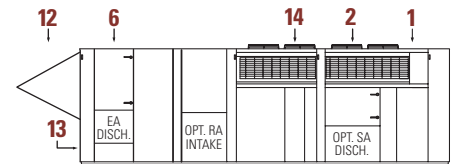
		DIMENSIONS (inches)				
		A	B		C	D
			Bottom return	Side return		
CASING	352	96.0	263.0	307.0	47.0	99.5



FRONT



LEFT



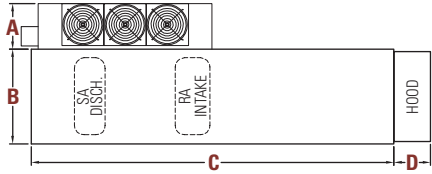
BACK

- 1 Heater access panel
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter and return air damper access door
- 5 Energy recovery wheel access door
- 6 Outdoor air filter and outdoor air damper access door
- 7 Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
- 8 Condensate drain connection (1.125" dia.)
- 9 Lifting lug (typ. quantity 8)
- 10 Compressor access door
- 11 Electrical and controls access door
- 12 Outdoor air intake hood
- 13 Exhaust fan access door
- 14 Evaporator and reheat coil access panel

# VPRP | VPRC SERIES

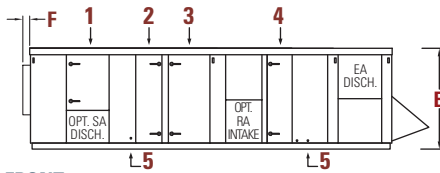
## 110-210-310 AIR-COOLED DX | AIR SOURCE HEAT PUMP

### PLAN

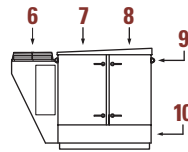


### DIMENSIONS (inches)

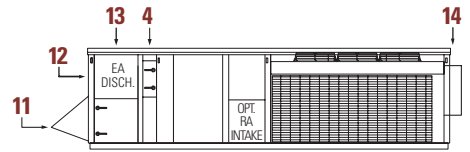
CASING	A	B	C		D	E	F
			Bottom return	Side return			Inverter scroll
110	30.0	49.0	197.0	224.0	21.5	58.0	5.0
210	30.0	61.0	207.0	234.0	23.5	65.0	5.0
310	30.0	68.0	242.0	269.0	33.5	85.0	—



FRONT



LEFT



BACK

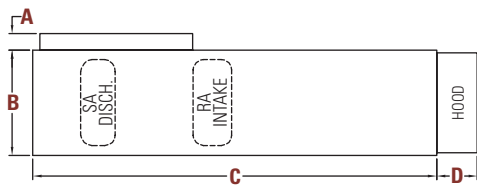
- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter and return air damper access door
- 4 Heat exchanger access door
- 5 Condensate drain connection (1.125" dia.)

- 6 Air-cooled condensing section
- 7 Compressor access door
- 8 Electrical and controls access door
- 9 Lifting lug (typ. quantity 8)
- 10 Heater access panel

- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Outdoor air filter and outdoor air damper access door
- 14 VFD enclosure (inverter scroll only)

## 110-210-310 CHILLED WATER | WATER SOURCE HEAT PUMP | SPLIT DX

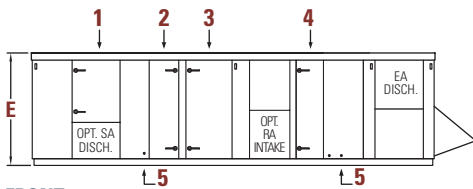
### PLAN



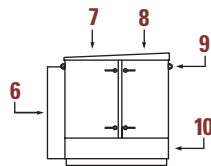
### DIMENSIONS (inches)

CASING	A*	B	C		D	E
			Bottom return	Side return		
110	14.0	49.0	197.0	224.0	21.5	58.0
210	14.0	61.0	207.0	234.0	23.5	65.0
310	14.0	68.0	242.0	269.0	33.5	85.0

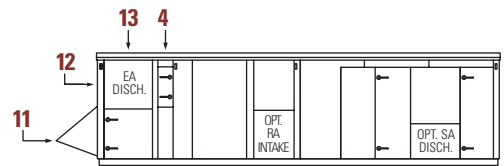
\* Not applicable for chilled water



FRONT



LEFT



BACK

- 1 Supply fan access door
- 2 Evaporator and reheat coil access door
- 3 Supply air filter and return air damper access door
- 4 Heat exchanger access door
- 5 Condensate drain connection (1.125" dia.)

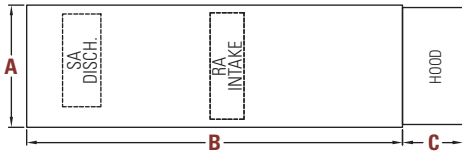
- 6 Refrigeration access panels (water source heat pump or split DX only)
- 7 Compressor access door
- 8 Electrical and controls access door
- 9 Lifting lug (typ. quantity 8)

- 10 Heater access panel
- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Outdoor air filter and outdoor air damper access door

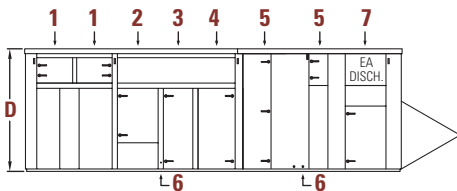
# VPRP | VPRC SERIES

## 350 WATER SOURCE HEAT PUMP

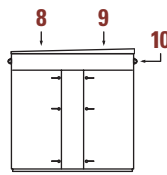
### PLAN



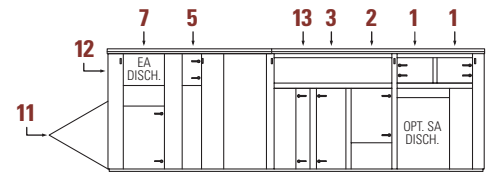
		DIMENSIONS (inches)			
		A	B	C	D
CASING	350	96.0	294.0	47.0	95.0



FRONT



LEFT

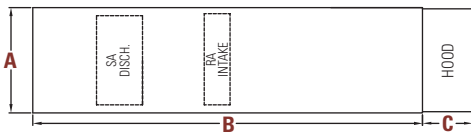


BACK

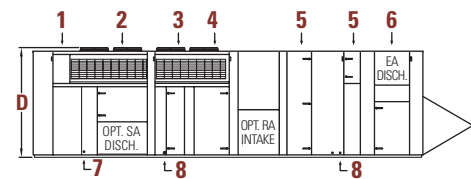
- 1 Coaxial coil access door
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter and return air damper access door
- 5 Heat exchanger access door
- 6 Condensate drain connection (1.125" dia.)
- 7 Outdoor air filter and outdoor air damper access door
- 8 Compressor access door
- 9 Electrical and controls access door
- 10 Lifting lug (typ. quantity 8)
- 11 Outdoor air intake hood
- 12 Exhaust fan access door
- 13 Supply air filter access door

## 352 AIR-COOLED DX

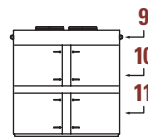
### PLAN



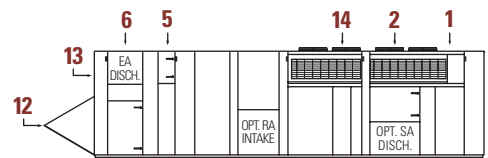
		DIMENSIONS (inches)				
		A	B		C	D
			Bottom return	Side return		
CASING	352	96.0	308.0	353.0	47.0	99.5



FRONT



LEFT



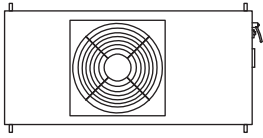
BACK

- 1 Heater access panel
- 2 Supply fan access door
- 3 Evaporator and reheat coil access door
- 4 Supply air filter and return air damper access door
- 5 Heat exchanger access door
- 6 Outdoor air filter and outdoor air damper access
- 7 Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
- 8 Condensate drain connection (1.125" dia.)
- 9 Lifting lug (typ. quantity 10)
- 10 Compressor access door
- 11 Electrical and controls access door
- 12 Outdoor air intake hood
- 13 Exhaust fan access door
- 14 Evaporator and reheat coil access panel

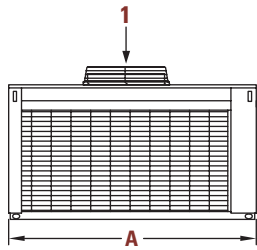
# VRC SERIES

## 110 AIR-COOLED DX

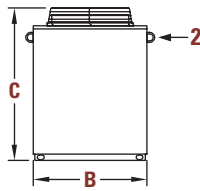
PLAN



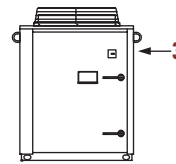
		DIMENSIONS (inches)		
		A	B	C
CASING	110	79.0	36.0	49.0



FRONT



LEFT

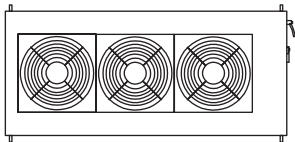


BACK

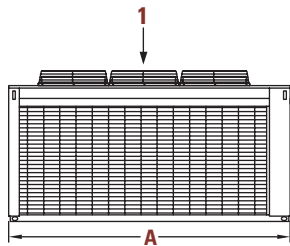
- 1 Condensing fan
- 2 Lifting lug (typ. quantity 4)
- 3 Nonfused disconnect / electrical access

## 210 AIR-COOLED DX

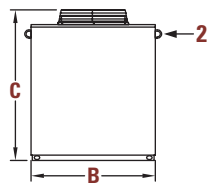
PLAN



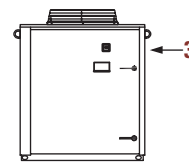
		DIMENSIONS (inches)		
		A	B	C
CASING	210	109.0	48.0	58.0



FRONT



LEFT



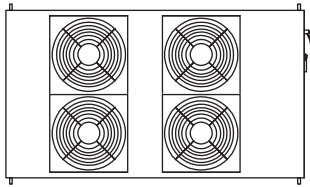
BACK

- 1 Condensing fan
- 2 Lifting lug (typ. quantity 4)
- 3 Nonfused disconnect / electrical access

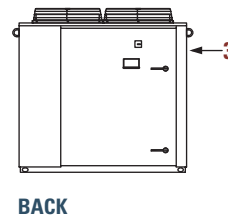
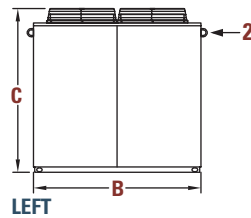
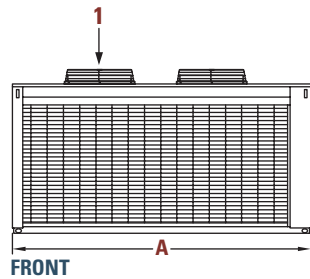
# VRC SERIES

## 310 AIR-COOLED DX

### PLAN



		DIMENSIONS (inches)		
		A	B	C
CASING	310	115.0	65.0	64.0



- 1** Condensing fan
- 2** Lifting lug (typ. quantity 4)
- 3** Nonfused disconnect / electrical access

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All VPRE and VPRC Series air handlers are AHRI 1060 Certified as packaged energy recovery ventilators.

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## Configurable Packaged Air Handling Equipment

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