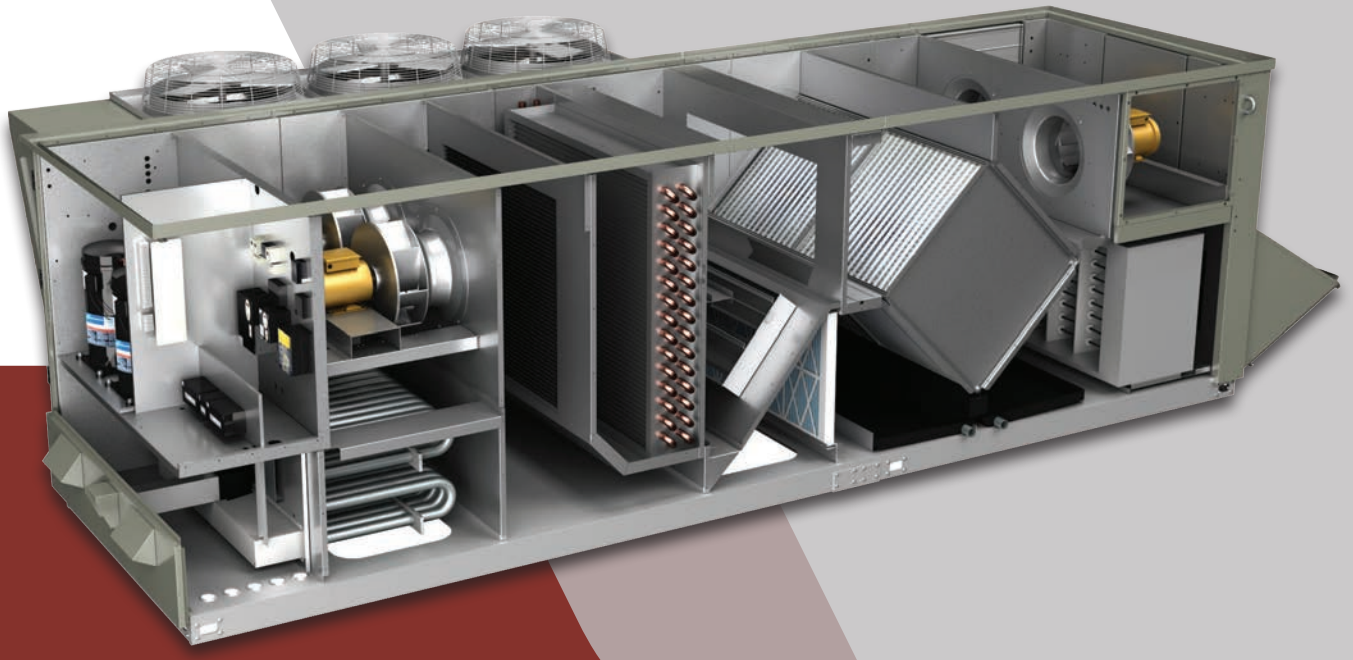
PRODUCTS

valent®

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

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

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**

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.

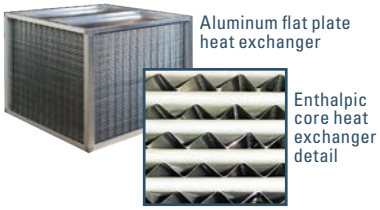
AIR HANDLERS

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.



Valent's flat plate heat exchangers have no moving parts and require minimal maintenance. They both have extremely low airstream cross-contamination rates.

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.

AHRI CERTIFIED® www.ahridirectory.org
Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

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

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 0.5% 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:
  - 5:1 turndown standard
  - 10:1 turndown option

ELECTRIC

- SCR-modulated electric resistance heater

TEMPERATOR

- Hybrid heating system pairing a 5:1 modulating gas furnace with a small SCR electric heater for total capacity modulation
- On-board 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

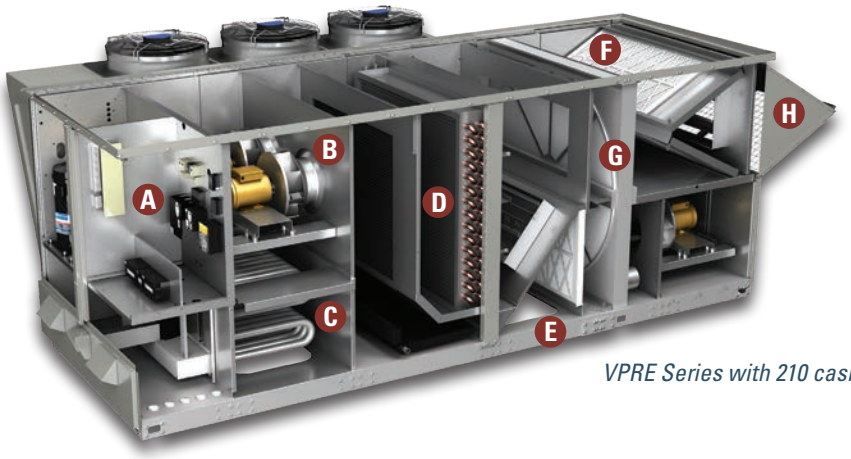
AIR SOURCE HEAT PUMP

- 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 pumps have coaxial water-to-refrigerant coils that are more freeze tolerant than traditional brazed plate heat exchangers.

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

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

Controls Lite

- 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

Standard VFD

- Simple airflow adjustment
- Soft start improves motor life
- Constant or variable volume flow

Options

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

C HEATING

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

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

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

F FILTRATION

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

G ENERGY RECOVERY

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

H CONSTRUCTION

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				
		V10	**110**	**210**	**310**	**352**
AIRFLOW	**Minimum (cfm)**	550	625	1,250	3,125	3,750
	Maximum (cfm)	3,000	4,000	8,000	12,000	18,000
COOLING TYPE and NOMINAL TONS	**Packaged air cooled**	3-row coil 4	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
		4-row coil 5, 6, 7	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
	Inverter scroll compressor	Standard	Optional	Optional	Optional	Optional
	Compressor(s) modulation range[a]	21–100%	25–100%	12–100%	6–100%	6–100%
	Modulating hot gas reheat	Optional	Optional	Optional	Optional	Optional
	Staged AC condensing fans	—	Standard	Standard	Standard	Standard
	Modulating EC condensing fans	Standard	Optional	Optional	Optional	Optional
INDIRECT GAS FURNACE	**Minimum (MBh)**	75	100	200	400	600
	Maximum (MBh)	200	200	400	800	1,200
	Turndown	5:1/10:1[c]	5:1/10:1[c]	5:1/10:1[c]	5:1/10:1	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
	Temperator	—	X	X	X	—

Refer to Valent CAPS® selection software or the Valent Mechanical IOM for additional detail.
a Modulation range based on Digital Scroll™ compressor(s). Inverter scroll modulation range may differ.
b Available upon request
c LP turndown: 3:1/6:1

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					
	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.

V10 CASING

	Air-cooled DX			
	4	5	6	7
VPR	950	1,000	1,000	1,050

Estimated with 150 MBh indirect gas furnace.

352 CASING

	Air-cooled DX					Water source heat pump				Chilled water
	30	40	50	60	70	30	40	50	60	L
VPR	6,950	7,350	7,650	7,950	7,950	6,200	6,450	6,650	6,800	6,250
VPRX	7,750	8,150	8,450	8,750	8,750	7,000	7,250	7,450	7,600	7,050
VPRE	9,550	9,850	10,250	10,450	10,450	8,800	9,050	9,250	9,400	8,850
VPRP	11,450	11,750	12,150	12,350	12,350	10,700	10,950	11,150	11,300	10,750
VPRC	11,050	11,450	11,750	12,050	12,050	10,300	10,550	10,750	10,900	10,350

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

VPR SERIES

VALENT'S V10 CASING:
4 TO 7 TONS, SEERs OVER 18, IEERs OVER 20

Valent VPR-V10

Valent units now deliver cooling capacities from 4 to 70 nominal tons, with the V10 filling out the Valent product line at 4 to 7 nominal tons, increasing single-sourcing capability.

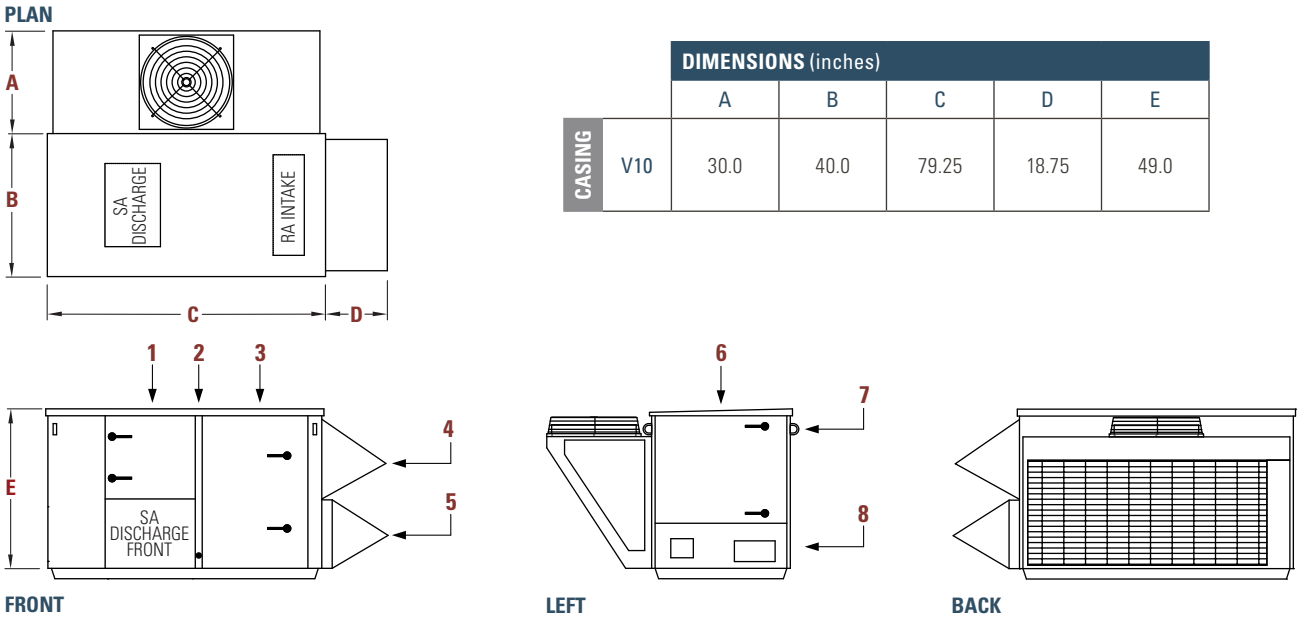
High efficiencies. Inverter scroll compressors and EC-driven fans deliver SEER ratings over 18 and IEER ratings over 20. Increased part-load efficiency reduces operating costs.

Technologically advanced. Precise cooling and dehumidification control are delivered with the latest compressor technology, an electronic expansion valve, and a modulating EC condenser fan backed by Unison Controls to optimize performance and efficiency.

Quiet. Inverter scrolls significantly reduce sound during compressor unloading. EC condenser fans with owlet blades reduce radiated sound throughout the operational range, allowing install location flexibility.

Unison Controls optimize performance and reduce risk. We understand best how to get the most out of our systems.

V10 AIR–COOLED DX

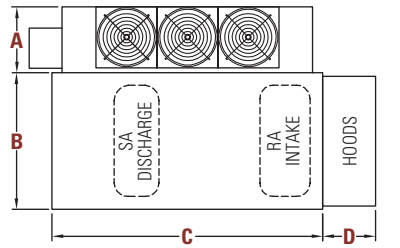


		DIMENSIONS (inches)				
		A	B	C	D	E
CASING	V10	30.0	40.0	79.25	18.75	49.0

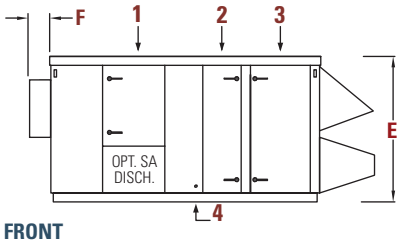
1 Supply fan access door
2 Condensate drain connection (1.0" dia.)
3 Evaporator coil and supply air filter access door
4 Outdoor air intake hood
5 Gravity relief damper, if equipped
6 Compressor, controls, and electrical access door
7 Lifting lug (typ. quantity 4)
8 Heater/furnace access panel

110–210–310 AIR–COOLED DX | AIR SOURCE HEAT PUMP

PLAN



	DIMENSIONS (inches)					
	A	B	C	D	E	F Inverter scroll
CASING 110	30.0	49.0	119.0	21.5	58.0	9.5
CASING 210	30.0	61.0	121.0	23.5	65.0	9.5
CASING 310	30.0	68.0	131.0	33.5	85.0	9.5



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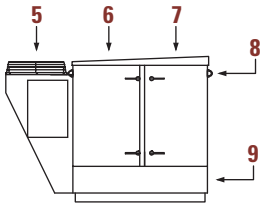

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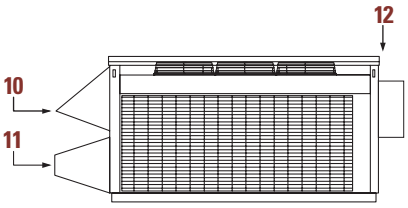


BACK

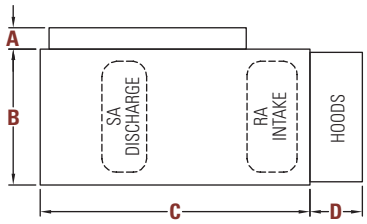
1 Supply fan access door
2 Evaporator and reheat coil access door
3 Supply air filter, return air damper, and outdoor air damper access door
4 Condensate drain connection (1.0" dia.)

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

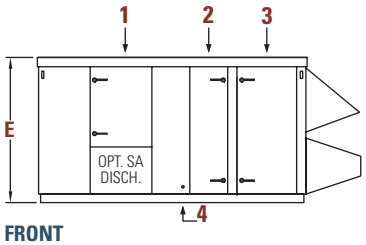
10 Outdoor air intake hood
11 Exhaust fan hood (VPRX only)
12 VFD enclosure (inverter scroll only)

110–210–310 CHILLED WATER | WATER SOURCE HEAT PUMP | SPLIT DX

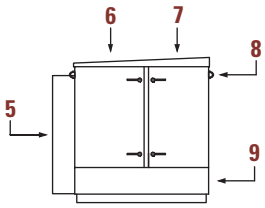
PLAN



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



FRONT



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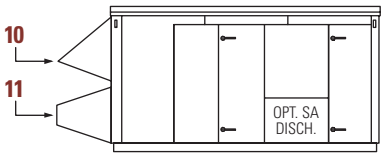


BACK

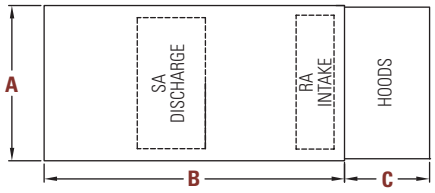
1 Supply fan access door
2 Evaporator and reheat coil access door
3 Supply air filter, return air damper, and outdoor air damper access door
4 Condensate drain connection (1.0" dia.)

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

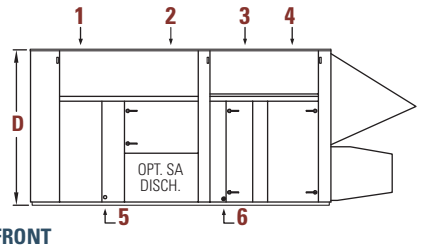
8 Lifting lug (typ. quantity 4)
9 Heater access panel
10 Outdoor air intake hood
11 Exhaust fan hood (VPRX only)

352 WATER SOURCE HEAT PUMP | CHILLED WATER

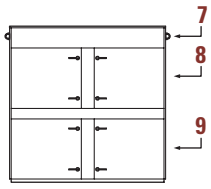
PLAN



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



FRONT



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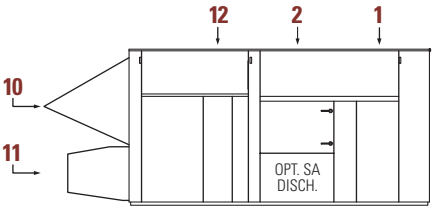
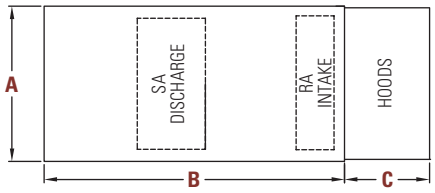


BACK

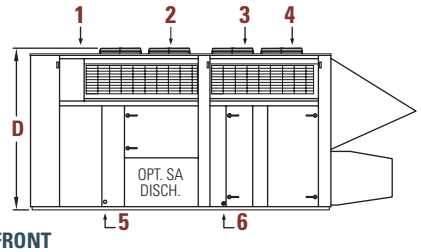
1 Coaxial coil access door (WSHP)
Heater access panel (CW)
2 Supply fan access door
3 Evaporator and reheat coil access door
4 Supply air filter, return air damper, and outdoor air damper access door
5 Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
6 Condensate drain connection (1.0" 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

352 AIR–COOLED DX

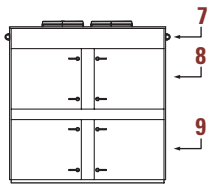
PLAN



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



FRONT



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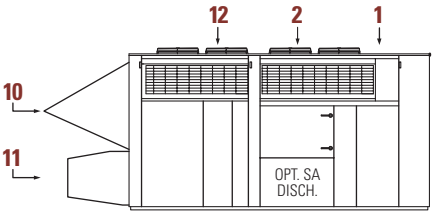


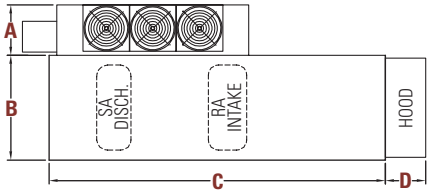
BACK

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 (1.0" 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

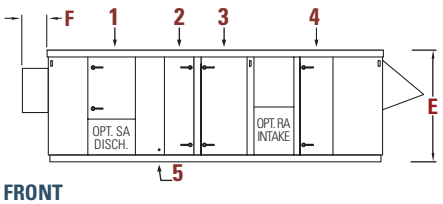
VPRE SERIES

110–210–310 AIR–COOLED DX | AIR SOURCE HEAT PUMP

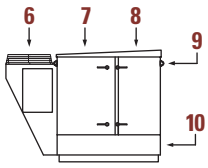
PLAN



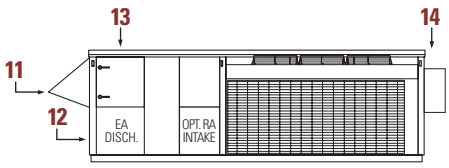
		DIMENSIONS (inches)						
		A	B	C		D	E	F
				Bottom return	Side return			Inverter scroll
CASING	110	30.0	49.0	158.0	185.0	21.5	58.0	9.5
	210	30.0	61.0	168.0	195.0	23.5	65.0	9.5
	310	30.0	68.0	178.0	205.0	33.5	85.0	9.5



FRONT



LEFT

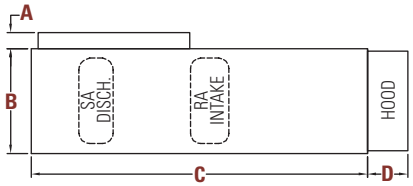


BACK

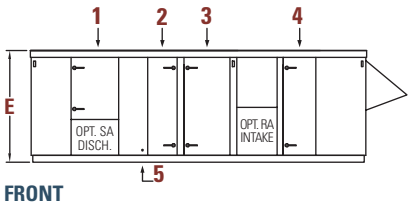
1 Supply fan access door
2 Evaporator and reheat coil access door
3 Supply air filter and return air damper access door
4 Energy recovery wheel access door
5 Condensate drain connection (1.0" dia.)
6 Air-cooled condensing section
7 Compressor access door
8 Electrical and controls access door
9 Lifting 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

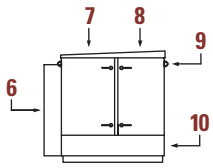
PLAN



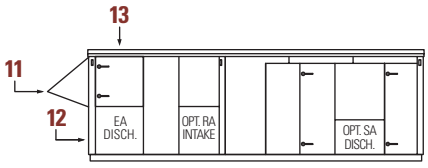
		DIMENSIONS (inches)					
		A*	B	C		D	E
				Bottom return	Side return		
CASING	110	14.0	49.0	158.0	185.0	21.5	58.0
	210	14.0	61.0	168.0	195.0	23.5	65.0
	310	14.0	68.0	178.0	205.0	33.5	85.0
* Not applicable for chilled water							



FRONT



LEFT



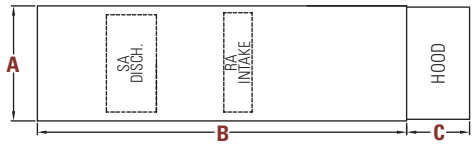
BACK

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 (1.0" 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

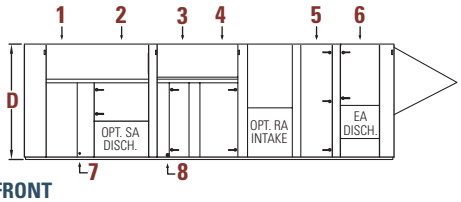
VPRE SERIES

352 WATER SOURCE HEAT PUMP | CHILLED WATER

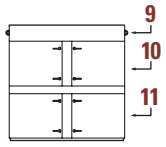
PLAN



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



FRONT



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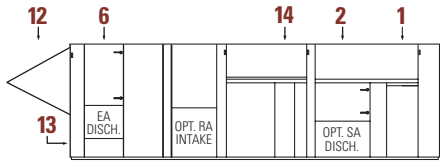
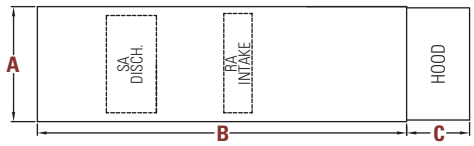


BACK

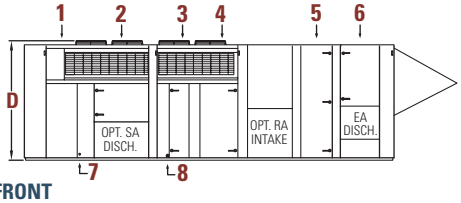
1. Coaxial coil access door (WSHP)
   Heater access panel (CW)
2. Supply fan access door
3. Evaporator and reheat coil access door
4. Supply air filter and return air damper access door
5. Energy recovery wheel access door
6. Outdoor air filter and outdoor air damper access door
7. Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
8. Condensate drain connection (1.0" 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

352 AIR–COOLED DX

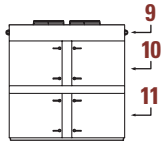
PLAN



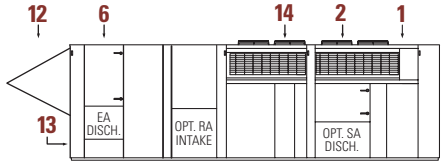
		DIMENSIONS (inches)				
		A	B		C	D
			Bottom return	Side return		
CASING	352	96.0	263.0	307.0	47.0	99.5



FRONT



LEFT

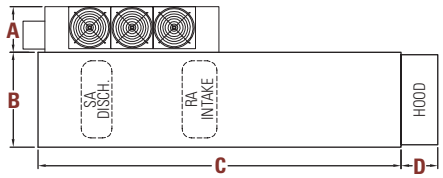


BACK

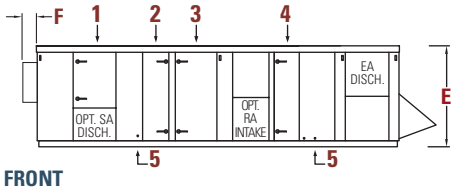
1. Heater access panel
2. Supply fan access door
3. Evaporator and reheat coil access door
4. Supply air filter and return air damper access door
5. Energy recovery wheel access door
6. Outdoor air filter and outdoor air damper access door
7. Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
8. Condensate drain connection (1.0" 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

110–210–310 AIR–COOLED DX | AIR SOURCE HEAT PUMP

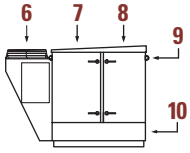
PLAN



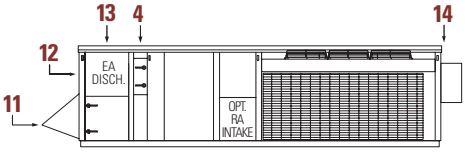
		DIMENSIONS (inches)						
		A	B	C		D	E	F
				Bottom return	Side return			Inverter scroll
CASING	110	30.0	49.0	197.0	224.0	21.5	58.0	9.5
	210	30.0	61.0	207.0	234.0	23.5	65.0	9.5
	310	30.0	68.0	242.0	269.0	33.5	85.0	9.5



FRONT



LEFT

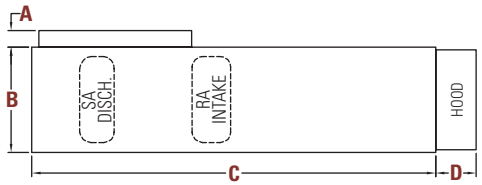


BACK

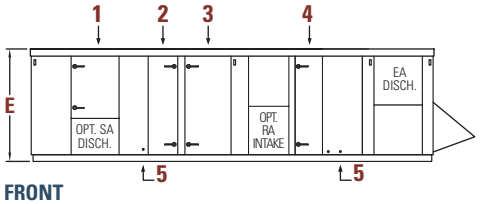
1 Supply fan access door
2 Evaporator and reheat coil access door
3 Supply air filter and return air damper access door
4 Heat exchanger access door
5 Condensate drain connection (1.0" dia.)
6 Air-cooled condensing section
7 Compressor access door
8 Electrical and controls access door
9 Lifting lug (typ. 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

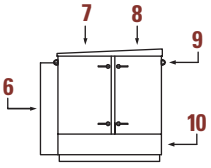
PLAN



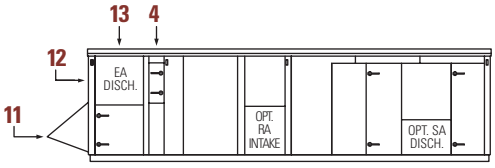
		DIMENSIONS (inches)					
		A*	B	C		D	E
				Bottom return	Side return		
CASING	110	14.0	49.0	197.0	224.0	21.5	58.0
	210	14.0	61.0	207.0	234.0	23.5	65.0
	310	14.0	68.0	242.0	269.0	33.5	85.0
	* Not applicable for chilled water						



FRONT



LEFT

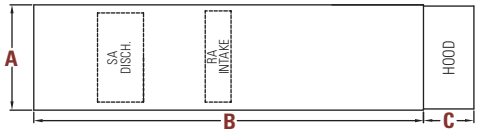


BACK

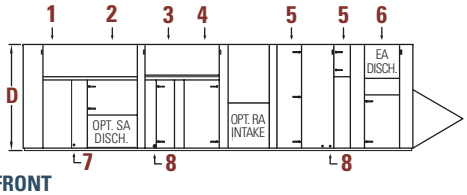
1 Supply fan access door
2 Evaporator and reheat coil access door
3 Supply air filter and return air damper access door
4 Heat exchanger access door
5 Condensate drain connection (1.0" dia.)
6 Refrigeration access panels (water source heat pump or split DX only)
7 Compressor access door
8 Electrical 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

352 WATER SOURCE HEAT PUMP | CHILLED WATER

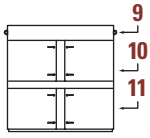
PLAN



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



FRONT



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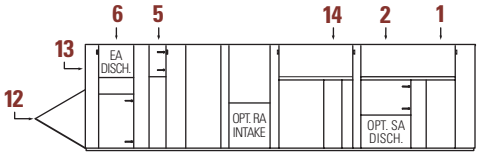
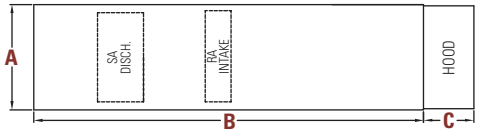


BACK

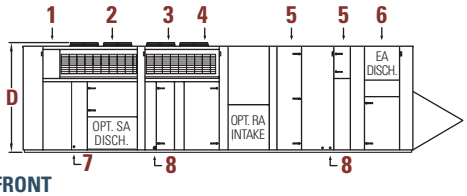
1. Coaxial coil access door (WSHP) Heater access panel (CW)
2. Supply fan access door
3. Evaporator and reheat coil access door
4. Supply air filter and return air damper access door
5. Heat exchanger access door
6. Outdoor air filter and outdoor air damper access
7. Gas connection (gas heat only) 1.0" dia. for 600 MBh, 2.0" dia. for 800-1,200 MBh
8. Condensate drain connection (1.0" 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

352 AIR–COOLED DX

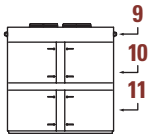
PLAN



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



FRONT



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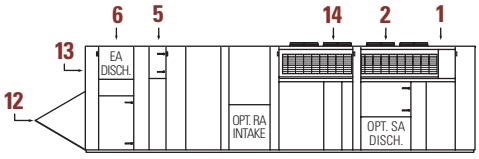


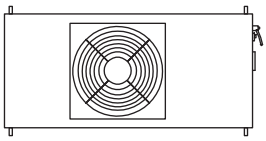
BACK

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 (1.0" 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

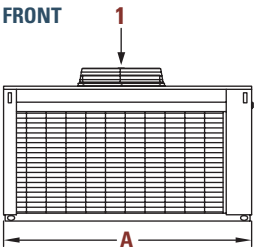
VRC SERIES: AIR COOLED DX

110

PLAN



FRONT



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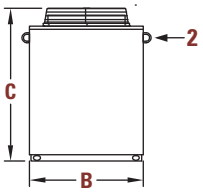

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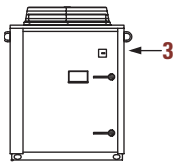

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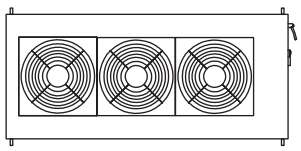

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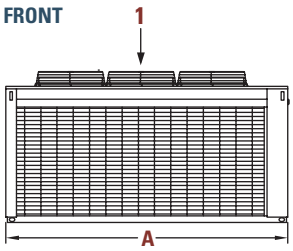

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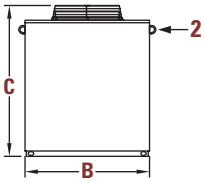

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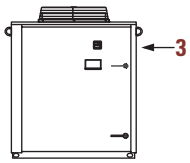

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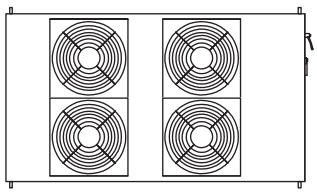

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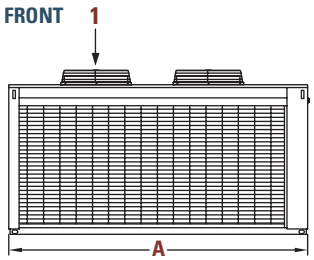

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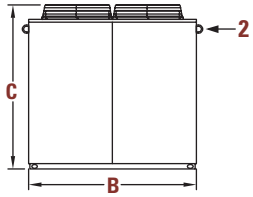

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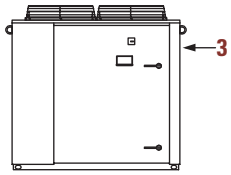

		DIMENSIONS (inches)		
		A	B	C
CASING	110	79.0	36.0	49.0
	210	109.0	48.0	58.0
	310	115.0	65.0	64.0

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

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

Continuous product improvement is a policy of Valent Air Management Systems; therefore, product features and specifications are subject to change without notice. For the most recent product information visit our website: www.valentair.com

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Valent Product Catalog June 2018