

The VPRE Series from Valent is a high-percentage outdoor air energy-recovery ventilator with air-cooled packaged refrigeration.

Standard construction features on the VPRE Series include:

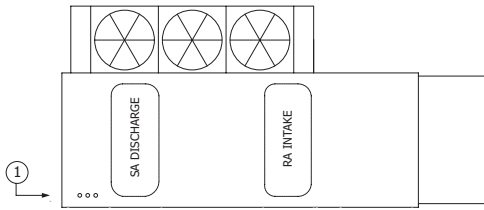
- Lightweight polymer energy recovery wheel with silica gel desiccant
- G90 galvanized steel formed base with 10 gage rails and 16 gage base pan
- 2" thick, polyurethane foam-injected, thermally-broken, double-wall panels with 22 gage pre-paint exterior and 22 gage G90 galvanized interior
- Hinged access doors with quarter-turn latches and identical construction to casing panels
- Direct-drive supply and exhaust plenum fan with factory provided, wired, and programmed VFD
- Fiber-reinforced, backward-inclined, non-corrosive polyamide fan wheel
- 6-row or 4-row interlaced evaporator coil
- Indirect gas, electric, or Temperator heating (optional)
- Modulating hot-gas reheat (optional) with a minimum spacing of six inches between the evaporator and reheat coils
- Factory piped, charged, and tested air-cooled refrigeration with R-410A refrigerant (R-22 optional)
- 460/3/60, 230/3/60, or 208/3/60 power with non-fused disconnect and single-point wiring
- Factory supplied, wired, and programmed micro-processor controller
- BACnet IP, BACnet MSTP, or LonWorks communication (optional)

	VPRE 110			VPRE 210						VPRE 310			
Cooling													
Nominal tonnage (tons)	5	8	10	10	13	16	18	20	25	25	30	35	40
Circuits - Stages/circuit - Total stages	1-1-1	1-1-1	1-1-1	2-1-2	2-1-2	2-1-2	2-1-2	2-1-2	2-1-2	2-2-4	2-2-4	2-2-4	2-2-4
Airflow													
Volume ¹ minimum (cfm)	650	1,040	1,300	1,300	1,690	2,080	2,340	2,600	3,250	3,250	3,900	4,550	5,200
Volume ¹ maximum (cfm)	2,000	3,200	4,000	4,000	5,200	6,400	7,200	8,000	10,000	10,000	10,000	10,000	10,000
External static pressure (in.wg)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Heating													
Indirect gas minimum (mbh)	100	100	100	200	200	200	200	200	200	400	400	400	400
Indirect gas maximum (mbh)	150	200	200	350	400	400	400	400	400	700	800	800	800
Electric heat ² minimum (kW)	10	10	10	15	15	15	15	15	15	20	20	20	20
Electric heat ² maximum (kW)	80	80	80	80	100	100	150	150	150	150	150	150	150
Temperator electric heat ³ (kW)	6	9	12	12	15	18	21	25	28	28	34	44	55

¹ Volumes shown are based on fan performance and not cooling capacity. When designing for 100% outdoor air applications, size unit for approximately 150 cfm/ton.

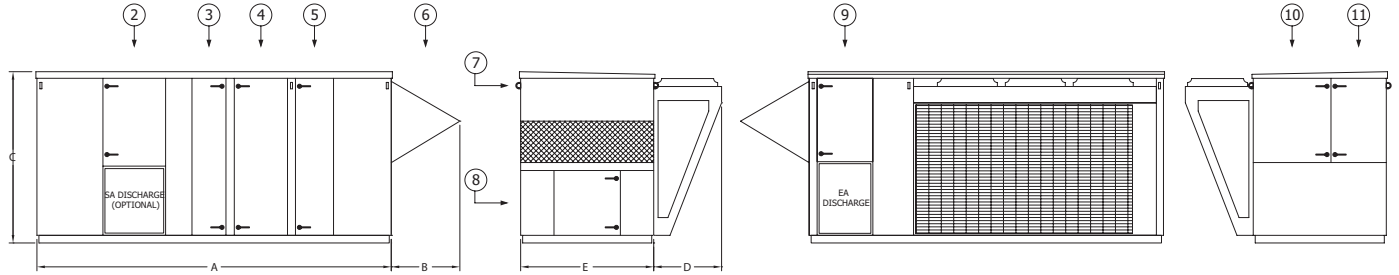
² Temperator electric heat is to be added to the basic capacities of the indirect gas furnace. For more information, please see Valent's Temperator Marketing Bulletin.

³ Electric heat capacities shown at 460V. Capacities may be less for 230V, 240V, and 208V.



Notes:

1. Through-base electrical connections
2. Supply fan access door
3. Evaporator coil access door
4. Supply air filter access door
5. Energy recovery wheel access door
6. Outdoor air intake hood with birdscreen
7. Lifting lug (typ. of 6)
8. Exhaust fan access door
9. Outdoor air filter access door
10. Compressor section access door
11. Electrical panel access door



	VPRE 110			VPRE 210						VPRE 310			
Nominal tonnage (tons)	5	8	10	10	13	16	18	20	25	25	30	35	40
Nominal weight (lbs)	2,000	2,100	2,200	2,600	2,800	3,000	3,200	3,400	3,600	4,300	4,500	4,700	4,900
A (in)	158			168						178			
B (in)	22			24						34			
C (in)	57			64						84			
D (in)	32			32						34			
E (in)	48			61						67			