



VAE Packaged

Series



Efficient cooling for high density edge data centers and Telecom applications

Main features

- Cooling performance range: 5kW to 35kW (1.5 Ton – 10 Ton)
- Environmentally friendly R513a/R454b Refrigerant (optional: R1234yf)
- Designed for mission critical applications
- Fully integrated intelligent free cooling system
- Intelligent electronic controller with user-friendly interface
- High-capacity cooling in compact, space saving footprint to minimize impact

Application

Designed for enclosures and shelters with high density data processing applications that need strict thermal control.

- Telecommunications equipment
- Edge data center solutions
- Energy storage and BESS solutions
- Industrial automation
- Security and defense systems

Standards, tests and approvals

- IP 55 (IEC60529)
- CE, UL/cUL
- NEMA-3R
- RoHs/REACH/CLP
- Telcordia GR-487 capable

Contact Vikinor

- Sales request: sales@vikinor.com
- Service & maintenance: service@vikinor.com
- www.vikinor.com

Controls

- Inverter-driven variable speed compressor control for active cooling regulation
- Variable speed fan control for optimized airflow and energy efficiency
- User-friendly digital interface with display and integrated controls
- Password-protected setpoint adjustment with day and night operation modes
- Configurable alarm output with automated self-test functionality
- Dedicated input and control logic for smoke detector and door contact
- Input channels for two external temperature sensors
- Native communication interface supporting Modbus RTU (Telecom config.) or SNMP v2 L3 (Edge config.)

Easy to install

- Standard outside mounted;
- High IP protection and NEMA 4 options available

Series

Features for VAE Packaged

Standard and Optional Features across VAE Packaged Series

- *Edge data center configuration & Telecom configuration*

Features		
	Standard	Optional
Aluzinc material with RAL 9016 traffic white	✓	
Epoxy-coated condenser	✓	
Cold weather package	✓	
Variable speed compressor	✓	
Phase out protection (only 3-phase models)	✓	
Brown out protection	✓	
Heat pump	✓ (Edge)	✓ (Telecom)
Electrical heating function	✓	
Variable speed fans	✓	
Integrated precision Free cooling	✓	
Electronically controlled expansion valve	✓ (Edge)	
Thermostatic expansion valve	✓ (Telecom)	
Input and control logic smoke detector & door contact	✓	
Input for two external temperature sensors	✓	
Day and night-time operation modes	✓	
Self-test functionality	✓	
Over-voltage and under-voltage protection	✓	
Humidity sensor	✓	
Active humidity control w. re-heating	✓ (Edge)	✓ (Telecom)
Air quality monitoring and control / AQI sensor	✓ (Edge)	✓ (Telecom)
High efficiency F9 / MERV 15 filtration	✓	
Modbus RTU communication	✓ (Telecom)	
SNMP version 2 layer 3 communication	✓ (Edge)	✓ (Telecom)
Sand trap		✓
External Lead-Lag controller	✓	



VAE 10 Packaged

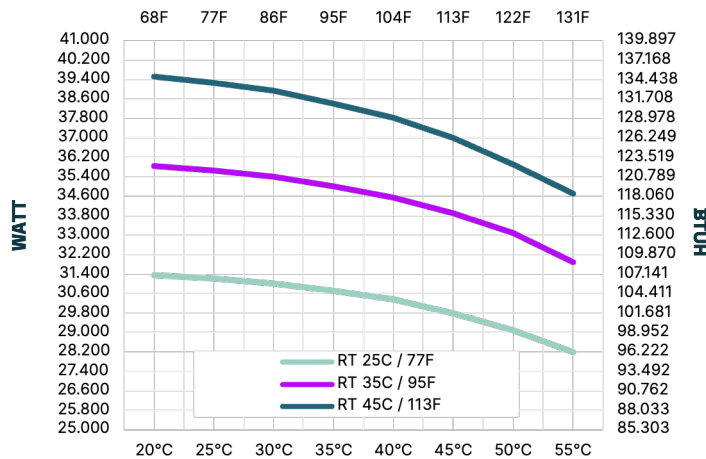
A3 + C5 model specifications

Product series name	VAE 10 Packaged A3		VAE 10 Packaged C5	
Model	A3 – 3x400 VAC		C5 – 3x460 VAC	
Part numbers				
Refrigerant	R454b		R454b	
Edge Config.	1834123		1834143	
Telecom Config.	1834223		1834243	
Cooling and Heating performance				
Active Cooling	Watt	BTU/h	Watt	BTU/h
Nominal	35,000	119,420	35,000	119,420
At 35°C/35°C (95°F/95°F)	35,000	119,420	35,000	119,420
At 35°C/55°C (95°F/131°F)	26,000	88,712	26,000	88,712
Free Cooling	Watt/°K	Watt/°F	Watt/°K	Watt/°F
Nominal	2,300	1280	2,300	1280
Air Flow Ratings	m3/hr.	CFM	m3/hr.	CFM
Airflow, internal loop	6,800	4,000	6,800	4,000
Airflow, external loop	5,950	3,500	5,950	3,500
Free Cooling				
Heating	Watt	BTU/h	Watt	BTU/h
Auxiliary Heat PTC Heater	3,000 Optional: 6,000	10,200 Optional: 20,500	3,000 Optional: 6,000	10,200 Optional: 20,500
	Amp		Amp	
Heating current	13		11	
Heater Inrush Current	23		21	

Product series name	VAE 10 Packaged A3	VAE 10 Packaged C5
Model	A3 – 3x400 VAC	C5 – 3x460 VAC
Electrical data		
Active Cooling	VAC	VAC
Nominal voltage	400	460
Operating range	360-440	440-480
Power Consumption	Watt	Watt
Power Consumption at 35°C/35°C (95°F/95°F)	10,300	10,300
Power Consumption at 35°C/55°C (95°F/131°F)	1,2600	1,2600
Power Consumption at 45°C/35°C (113°F/95°F)	3,600	3,600
Starting Current (Amp)	12	12
MCA Full Load Amps	19.5	19.5
Max Over Current Protection	35	35
Free Cooling	VAC	VAC
Nominal Voltage	400	460
Operating Range	360-440	440-480
Max Humidity %	95	95
Unit Design		
Operational Temperature Range	-40°C/-40°F to 50°C/122°F	
Material	Standard: Aluzinc Steel (Optional: Stainless Steel or Aluminum)	
Finish	Powder Coat RAL 9016 Traffic White	
Protection	IP 55, NEMA 3R	
Refrigerant	Low GWP CFC-free R454b	
Agency Approvals/Standards	CE, ETL / UL, RoHS / REACH / CLP, Telcordia GR-487 capable	
Sound Level @ 1.5 m dB(A)	65 (Normal Operation) / 58 (Night Mode with noise abatement)	
Unit dimensions & weight		
Height	mm/in.	2,395/94.3
Width	mm/in.	1,338/52.7
Depth	mm/in.	1,100/43.3
Weight	kg/lb	540/1190

Cooling capacity (50/60Hz)

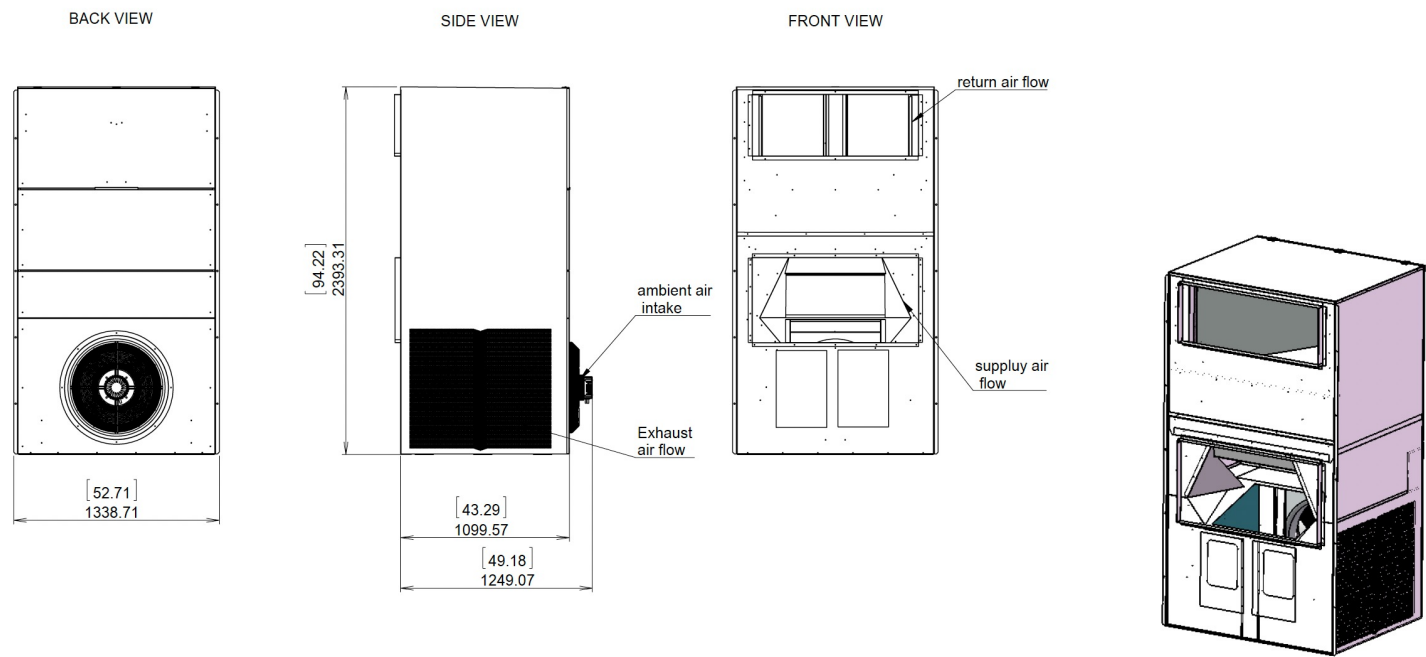
VAE 10 Packaged (A3 / 3x400 VAC)



360° rotation view



Product dimension in mm (in.)



Cut-out drawing in mm (in.)
view from inside door

