



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

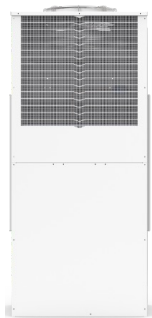
Series

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	✓	



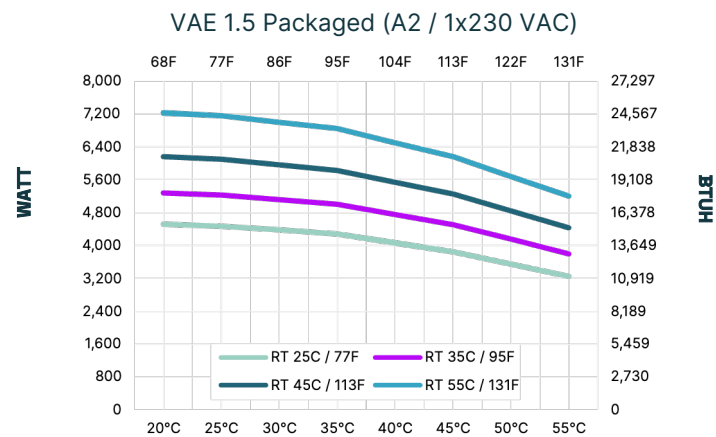
VAE 1.5 Packaged

A2 + AD model specifications

Product series name	VAE 1.5 Packaged A2		VAE 1.5 Packaged AD	
Model	A2 – 1x230 VAC		AD – 1x230 VAC/48VDC	
Part numbers				
Refrigerant	R513a		R513a	
Edge Config.	1834100		N/A	
Telecom Config.	1834200		1834260	
Cooling and Heating performance				
Active Cooling	Watt	BTU/h	Watt	BTU/h
Nominal	5,000	17,606	5,000	17,606
At 35°C/35°C (95°F/95°F)	5,100	17,400	5,100	17,400
At 35°C/55°C (95°F/131°F)	3,700	12,625	3,700	12,625
Free Cooling	Watt/°K	Watt/°F	Watt/°K	Watt/°F
Nominal	450	250	450	250
Air Flow Ratings	m3/hr.	CFM	m3/hr.	CFM
Airflow, internal loop	1,350	795	1,350	795
Airflow, external loop	1,580	929	1,580	929
Free Cooling	1,350	795	1,350	795
Heating	Watt	BTU/h	Watt	BTU/h
Auxiliary Heat PTC Heater	1,500 Optional: 3,000	5,100 Optional: 10,200	1,500 Optional: 3,000	5,100 Optional: 10,200
	Amp		Amp	
Heating current	5.0		5.0	
Heater Inrush Current	10		10	

Product series name	VAE 1.5 Packaged A2	VAE 1.5 Packaged AD	
Model	A2 – 230 VAC	AD – 230 VAC/48VDC	
Electrical data			
Active Cooling	VAC	VAC	VDC
Nominal voltage	230, 1Ø 50/60 Hz	230, 1Ø 50/60 Hz	48
Operating range	187-270 VAC	187-270 VAC	42-60VDC
Power Consumption	Watt	Watt	
Power Consumption at 35°C/35°C (95°F/95°F)	1,380	1,180	408
Power Consumption at 35°C/55°C (95°F/131°F)	1,850	1,370	480
Power Consumption at 45°C/35°C (113°F/95°F)	1,600	1,250	440
Starting Current (Amp)	5	5	4
MCA Full Load Amps	12	12	11
Max Over Current Protection	15	15	16
Free Cooling	VAC	VDC	
Nominal Voltage	230, 1Ø 50/60 Hz	48	
Operating Range	187-270	42-60	
Max Humidity %	95	95	
Unit Design			
Operational Temperature Range	-40°C/-40°F to 55°C/131°F		
Material	Standard: Aluzinc Steel (Optional: Stainless Steel or Aluminum)		
Finish	Powder Coat RAL 9016 Traffic White		
Protection	IP 55, NEMA 3R		
Refrigerant	Standard: Low GWP CFC-free R513a (optional: 1234yf)		
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.	1,600 / 63	1,600 / 63
Width	mm/in.	750 / 29.5	750 / 29.5
Depth	mm/in.	450 / 17.7	450 / 17.7
Weight	kg/lb	122 / 268	120 / 264

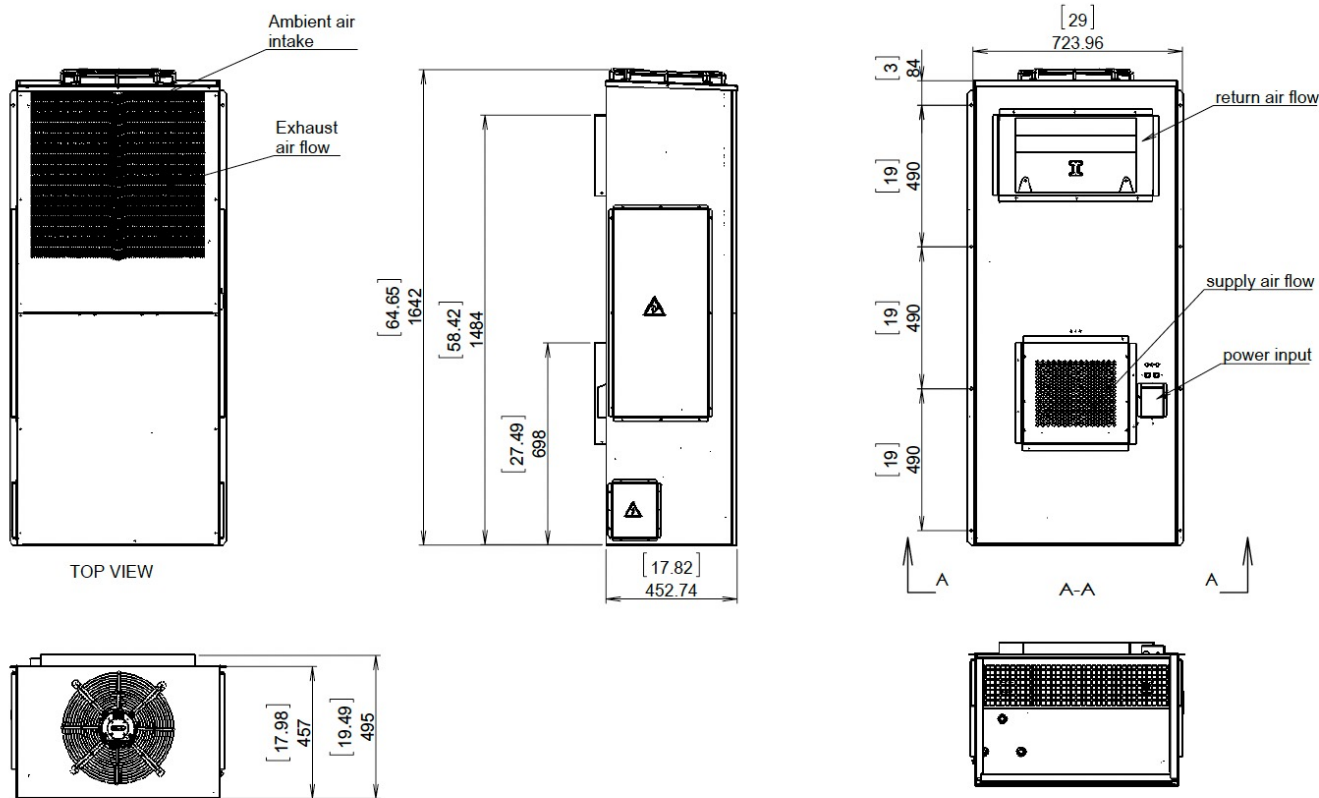
Cooling capacity (50/60Hz)



360° rotation view



Product dimension in mm (In.)



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

