



VAK Slim

Series

Slim panel-mounted precision air conditioners, AC or DC powered



Main features

Models in AC and DC

Cooling performance range: 400W to 7000W

Eco-friendly refrigerant CFC-free R513A / R134A

Designed for configuration and added features

Advanced electronic controller with user-friendly interface

Tailored for cyclic and non-cyclic operation

Lightweight for easy handling and transport

Application

Designed for enclosures with sensitive electronics that need strict thermal control

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

Standards, tests and approvals

- P65 (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

- Active cooling capacity regulation
- User-friendly interface w. display
- Alarm output
- Ethernet communication interface
- Designed for cyclic off-grid application w. battery power backup
- Enabled for web-based remote management
- Integrated enclosure heating function and cold-weather package
- Day- and night-mode operation
- Password protected set point adjustment
- Redundancy functionality for 2 units operation
- Soft-starting functionality

Easy to install

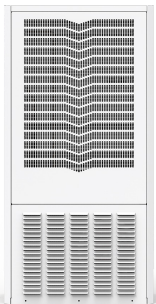
- Standard outside mounted; optional installation with partially recessed mounting

Series

Features for VAK Slim

Standard and optional features for all products in the VAK Slim series

Features		
	Standard	Optional
Aluzinc material with RAL color 9016	✓	
Lead-lag control functionality	✓	
Input and control logic (smoke detector & door contact)	✓	
Day and night-time operation modes	✓	
Pre-mounted gasket	✓	
Modbus RTU	✓	
Epoxy-coated condenser	✓	
Self-test functionality	✓	
Over-voltage and under-voltage protection	✓	
Product material: aluminum, stainless steel		✓
Increased corrosion protection		✓
Customer control parameter settings		✓
Flanges for partial recess-mounting		✓
Custom RAL color coating, texture and gloss factor		✓
Enclosure heater package (500W / 1000W)		✓
Cold weather package		✓
Accessories		
Air filter for external air flow		✓
Sand trap		✓
SNMP V2 Level 3 Access		✓
Condensate management		✓



VAK 1800 Slim

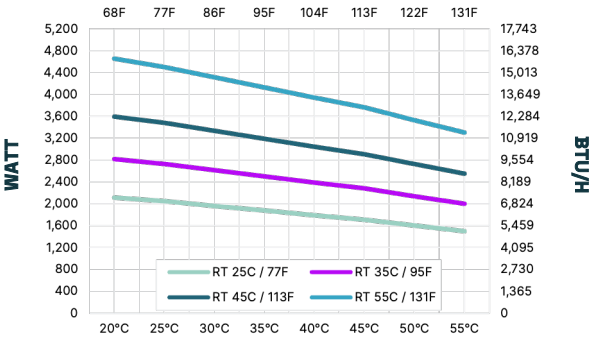
A1, A2 & D3 model specifications

Product series name	VAK 1800 AC SLIM				VAK 1800 DC SLIM	
Model	A1		A2		D3	
Part numbers						
Refrigerant	R513a	R134a	R513a	R134a	R513a	R134a
Modbus RTU	1830307	1830099	1830407	1830090	1830207	1830083
SNMP V2 Level 3 Access	1830357	-	1830457	-	1830257	-
Cooling performance						
	Watt	BTU/h	Watt	BTU/h	Watt	BTU/h
Nominal	1,800	6,142	1,800	6,142	1,800	6,142
At 35°C/35°C (95°F/95°F)	1,850	6,312	1,850	6,312	1,800	6,142
At 55°C/55°C (131°F/131°F)	2,000	6,824	2,000	6,824	2,100	7,165
At 35°C/55°C (95°F/131°F)	1,400	4,777	1,400	4,777	1,450	4,948
	m3/hr.	CFM	m3/hr.	CFM	m3/hr.	CFM
Airflow, internal loop	850	500	850	500	750	441
Airflow, external loop	850	500	850	500	800	471
Heater (Watt)	Standard: 500 W (Optional 1000 W or without heater)					
Electrical data						
	VAC		VAC		VDC	
Nominal voltage	115, 50/60 Hz		230, 50/60 Hz		48	
Operating range	108-126		187-253		42-58	
Extended operating voltage range with curtailed operation	100-132		187-264		37-60	
	Watt		Watt		Watt	
Power consumption at 35°/35°C and 95°F/95°F	810 / 840		810 / 840		500	
Power consumption at 55°/55°C and 131°F/131°F	980 / 1,085		980 / 1,085		770	
	Amp		Amp		Amp	
Current at 35°/35°C and 95°F/95°F	8.3		4.3		10.5	
Starting Current (A)	12		8		8	

Product series name	<u>VAK 1800 AC SLIM</u>				<u>VAK 1800 DC SLIM</u>	
Model	A1		A2		D3	
Ambient temperature range						
	°C	°F	°C	°F	°C	°F
Maximum	55	131	55	131	55	131
Minimum	-15	-40	-15	-40	-15	-40
Minimum w. cold-weather package	-40	-40	-40	-40	-40	-40
Unit design						
Material	Standard: Aluzinc Steel (Optional: Stainless Steel or Aluminum)					
Finish	Powder Coat RAL 9016 Traffic White					
Protection	IP 65, NEMA 3R / 4,4X					
Refrigerant	Standard: Low GWP R513a (Optional: R134a)					
Agency Approvals / Standards	CE, ETL / UL, RoHS / REACH / CLP, Telcordia GR-487 capable					
Sound Level at 1.5 m db(A)	65 (Normal Operation) / 55 (Night Mode with noise abatement)					
Controller						
Description	Smart controller					
	°C	°F	°C	°F	°C	°F
Controller setting (cabinet)	28	82	28	82	28	82
Unit dimensions & weight						
	mm.	in.	mm.	in.	mm.	in.
Height	980	38.6	980	38.6	980	38.6
Width	483	19	483	19	483	19
Depth	235	9.3	235	9.3	235	9.3
	kg	lb.	kg	lb.	kg	lb.
Weight	45	99	45	99	44	97

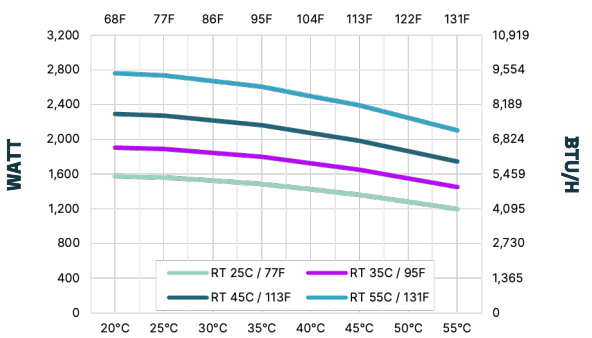
Cooling capacity (50Hz)

VAK 1800 Slim (A1 / 115 VAC & A2 / 230 VAC)

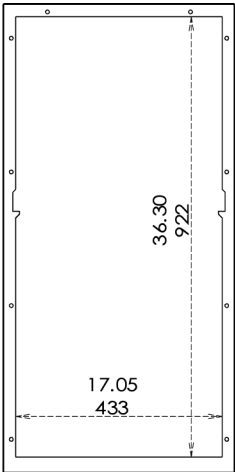


Cooling capacity

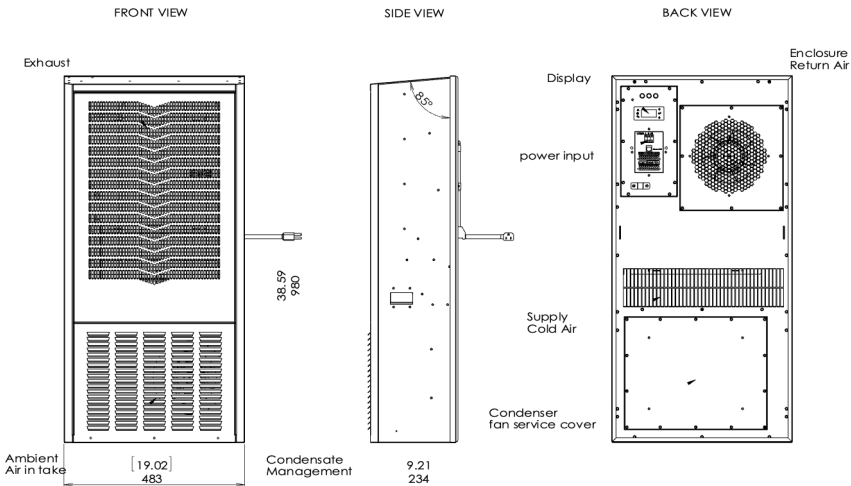
VAK 1800 Slim (D3 / 48 VDC)



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



Product dimension in mm (in.)



360° rotation view

