



# 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](mailto:sales@vikinor.com)
- Service & maintenance: [service@vikinor.com](mailto:service@vikinor.com)
- [www.vikinor.com](http://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

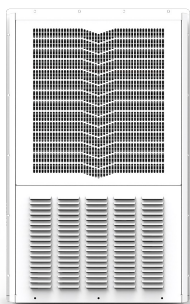
- Standard outside mounted; optional installation with partially recessed mounting

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 1000 Slim

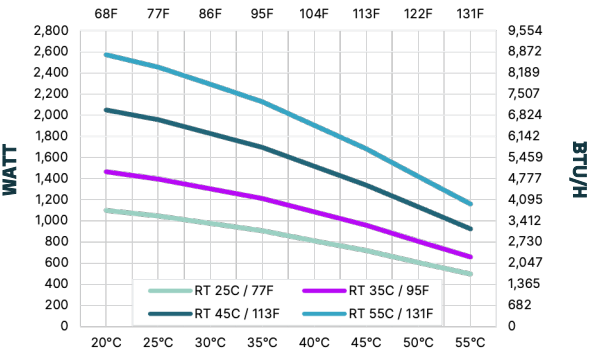
A1, A2 & D3 model specifications

| Product series name                                       | <u>VAK 1000 AC SLIM</u>                             |         |               |         | <u>VAK 1000 DC SLIM</u> |       |
|-----------------------------------------------------------|-----------------------------------------------------|---------|---------------|---------|-------------------------|-------|
| Model                                                     | A1                                                  |         | A2            |         | D3                      |       |
| Part numbers                                              |                                                     |         |               |         |                         |       |
| Refrigerant                                               | R513a                                               | R134a   | R513a         | R134a   | R513a                   | R134a |
| Modbus RTU                                                | 1830304                                             | 1830092 | 1830404       | 1830091 | 1830204                 | -     |
| SNMP V2 Level 3 Access                                    | 1830354                                             | -       | 1830454       | -       | 1830254                 | -     |
| Cooling performance                                       |                                                     |         |               |         |                         |       |
|                                                           | Watt                                                | BTU/h   | Watt          | BTU/h   | Watt                    | BTU/h |
| Nominal                                                   | 1000                                                | 3,412   | 1,000         | 3,412   | 1,000                   | 3,412 |
| At 35°C/35°C (95°F/95°F)                                  | 1,200                                               | 4,100   | 1,200         | 4,100   | 1,080                   | 3,685 |
| At 55°C/55°C (131°F/131°F)                                | 1,175                                               | 4,010   | 1,100         | 4,010   | 1,200                   | 4,094 |
| At 35°C/55°C (95°F/131°F)                                 | 680                                                 | 2,320   | 680           | 2,320   | 800                     | 2,729 |
|                                                           | m3/hr.                                              | CFM     | m3/hr.        | CFM     | m3/hr.                  | CFM   |
| Airflow, internal loop                                    | 520                                                 | 306     | 520           | 306     | 520                     | 306   |
| Airflow, external loop                                    | 620                                                 | 365     | 620           | 365     | 620                     | 364   |
| Heater (Watt)                                             | Standard: 500 W (Optional 1000 W or without heater) |         |               |         |                         |       |
| Electrical data                                           |                                                     |         |               |         |                         |       |
|                                                           | VAC                                                 |         | VAC           |         | VDC                     |       |
| Nominal voltage                                           | 115, 60 Hz                                          |         | 230, 50/60 Hz |         | 48                      |       |
| Operating range                                           | 108-126                                             |         | 187-253       |         | 42-58                   |       |
| Extended operating voltage range with curtailed operation | 100-137                                             |         | 187-264       |         | 37-60                   |       |
|                                                           | Watt                                                |         | Watt          |         | Watt                    |       |
| Power consumption at 35°/35°C and 95°F/95°F               | 330                                                 |         | 330           |         | 320                     |       |
| Power consumption at 55°/55°C and 131°F/131°F             | 560                                                 |         | 560           |         | 500                     |       |
|                                                           | Amp                                                 |         | Amp           |         | Amp                     |       |
| Starting Current (A)                                      | 8                                                   |         | 8             |         | 10                      |       |

| Product series name             | <a href="#">VAK 1000 AC SLIM</a>                                |      |     |      | <a href="#">VAK 1000 DC SLIM</a> |      |
|---------------------------------|-----------------------------------------------------------------|------|-----|------|----------------------------------|------|
| 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 / optional Ethernet communication interface    |      |     |      |                                  |      |
|                                 | °C                                                              | °F   | °C  | °F   | °C                               | °F   |
| Controller setting (cabinet)    | 33                                                              | 91   | 33  | 91   | 33                               | 91   |
| Unit dimensions & weight        |                                                                 |      |     |      |                                  |      |
|                                 | mm.                                                             | in.  | mm. | in.  | mm.                              | in.  |
| Height                          | 800                                                             | 31.5 | 800 | 31.5 | 800                              | 31.5 |
| Width                           | 483                                                             | 19   | 483 | 19   | 483                              | 19   |
| Depth                           | 200                                                             | 7.9  | 200 | 7.9  | 200                              | 7.9  |
|                                 | kg                                                              | lb.  | kg  | lb.  | kg                               | lb.  |
| Weight                          | 32                                                              | 70.5 | 32  | 70.5 | 32                               | 70.5 |

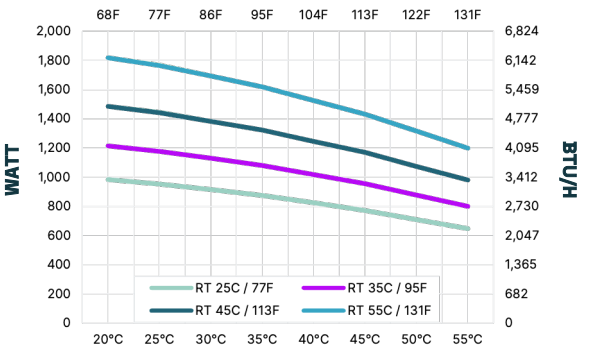
Cooling capacity (50Hz)

VAK 1000 Slim (A1 / 115 VAC & A2 / 230 VAC)

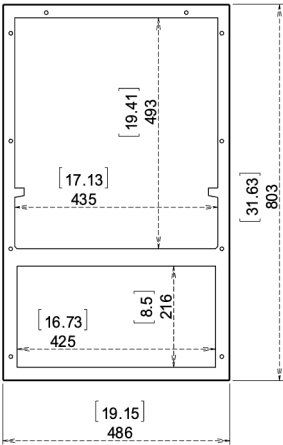


Cooling capacity

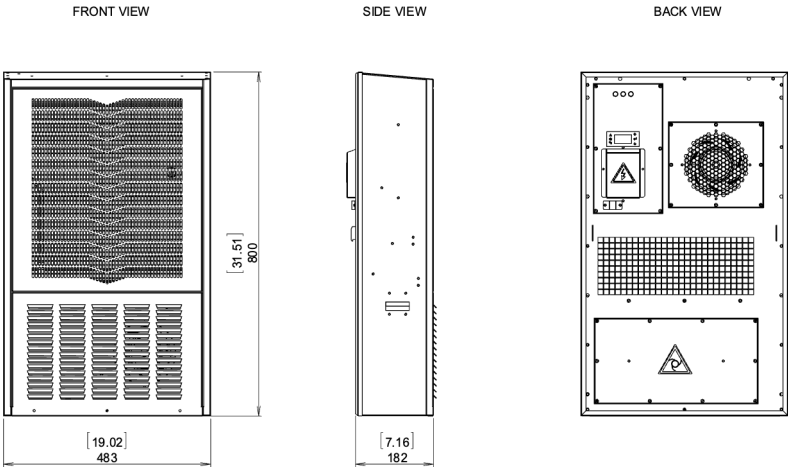
VAK 1000 Slim (D3 / 48 VDC)



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



Product dimension in mm (in.)



360° rotation view

