



# 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

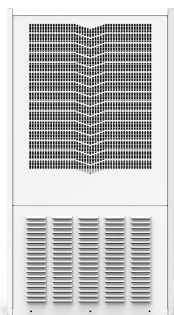
- Standard outside mounted; optional installation with partially recessed mounting

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 1200 Slim

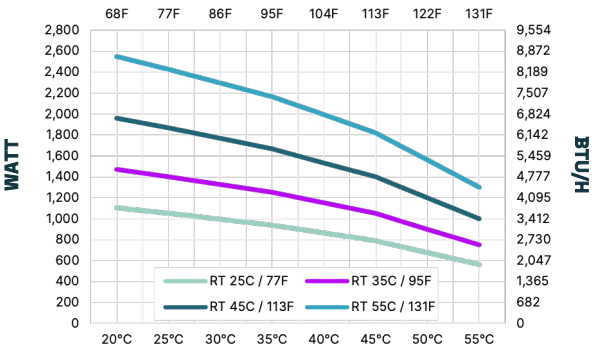
A1, A2 & D3 model specifications

| Product series name                                       | VAK 1200 AC SLIM                                    |         |                   |         | VAK 1200 DC SLIM |         |
|-----------------------------------------------------------|-----------------------------------------------------|---------|-------------------|---------|------------------|---------|
| Model                                                     | A1                                                  |         | A2                |         | D3               |         |
| Part numbers                                              |                                                     |         |                   |         |                  |         |
| Refrigerant                                               | R513a                                               | R134a   | R513a             | R134a   | R513a            | R134a   |
| Modbus RTU                                                | 1830305                                             | 1830094 | 1830405           | 1830067 | 1830205          | 1830063 |
| SNMP V2 Level 3 Access                                    | 1830355                                             | -       | 1830455           | -       | 1830255          | -       |
| Cooling performance                                       |                                                     |         |                   |         |                  |         |
|                                                           | Watt                                                | BTU/h   | Watt              | BTU/h   | Watt             | BTU/h   |
| Nominal                                                   | 1,200                                               | 4,095   | 1,200             | 4,095   | 1,200            | 4,095   |
| At 35°C/35°C (95°F/95°F)                                  | 1,200                                               | 4,095   | 1,200             | 4,095   | 1,260            | 4,299   |
| At 55°C/55°C (131°F/131°F)                                | 1,500                                               | 5,118   | 1,500             | 5,118   | 1,350            | 4,606   |
| At 35°C/55°C (95°F/131°F)                                 | 900                                                 | 3,071   | 900               | 3,071   | 900              | 3,071   |
|                                                           | m3/hr.                                              | CFM     | m3/hr.            | CFM     | m3/hr.           | CFM     |
| Airflow, internal loop                                    | 565                                                 | 333     | 565               | 333     | 330              | 194     |
| Airflow, external loop                                    | 565                                                 | 333     | 565               | 333     | 350              | 206     |
| Heater (Watt)                                             | Standard: 500 W (Optional 1000 W or without heater) |         |                   |         |                  |         |
| Electrical data                                           |                                                     |         |                   |         |                  |         |
|                                                           | VAC                                                 |         | VAC               |         | VDC              |         |
| Nominal voltage                                           | 115, 50/60 Hz                                       |         | 220-230, 50/60 Hz |         | 48               |         |
| Operating range                                           | 108-126                                             |         | 198-253           |         | 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               | 420                                                 |         | 435               |         | 310              |         |
| Power consumption at 55°/55°C and 131°F/131°F             | 750                                                 |         | 740               |         | 530              |         |
| Power consumption at 55°/55°C and 131°F/131°F             | 650                                                 |         | 700               |         | 470              |         |
|                                                           | Amp                                                 |         | Amp               |         | Amp              |         |
| Current at 35°/35°C and 95°F/95°F                         | 4.7                                                 |         | 2.2               |         | 6.5              |         |
| Current at 55°/55°C and 95°F/95°F                         | 6.2                                                 |         | 3.3               |         | 11               |         |
| Current at 35°/55°C and 95°F/95°F                         | 5.7                                                 |         | 3                 |         | 9.8              |         |
| Starting Current (A)                                      | 8                                                   |         | 5                 |         | 12               |         |

| Product series name             | VAK 1200 AC SLIM                                                |      |     |      | VAK 1200 DC SLIM |      |
|---------------------------------|-----------------------------------------------------------------|------|-----|------|------------------|------|
| Model                           | A1                                                              |      | A2  |      | D3               |      |
| Ambient temperature range       |                                                                 |      |     |      |                  |      |
|                                 | °C                                                              | °F   | °C  | °F   | °C               | °F   |
| Maximum                         | 55                                                              | 131  | 55  | 131  | 55               | 131  |
| Minimum                         | -15                                                             | -5   | -15 | -5   | -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                          | 900                                                             | 35.4 | 900 | 35.4 | 900              | 35.4 |
| Width                           | 483                                                             | 19   | 483 | 19   | 483              | 19   |
| Depth                           | 175                                                             | 6.9  | 175 | 6.9  | 175              | 6.9  |
|                                 | kg                                                              | lb.  | kg  | lb.  | kg               | lb.  |
| Weight                          | 36                                                              | 79   | 36  | 79   | 29               | 64   |

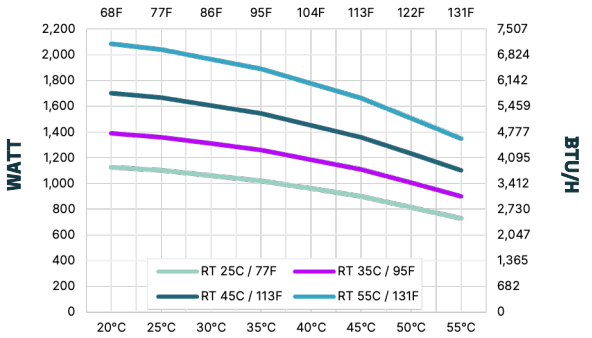
Cooling capacity (50Hz)

VAK 1200 Slim (A1 / 115 VAC & A2 / 230 VAC)

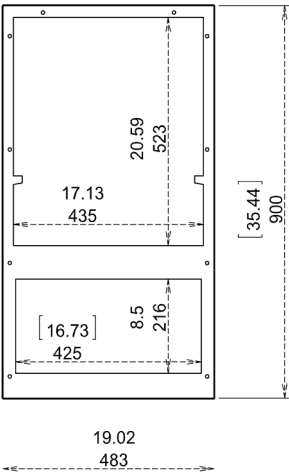


Cooling capacity

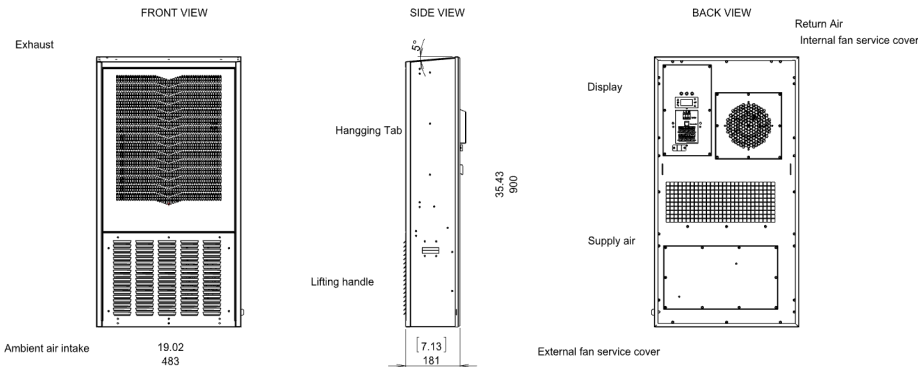
VAK 1200 Slim (D3 / 48 VDC)



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



Product dimension in mm (in.)



360° rotation view

