

VAK DC 5000 SLIM

DC air conditioner designed
for optimal cabinet footprint on
telecom sites



MAIN FEATURES

Cooling performance range: 3.800-5.200W

Equipped w/ advanced controller platform

Eco-friendly refrigerant CFC-free R134a

Lightweight for easy handling and transport

Designed for configuration and added features

STANDARDS

IP65 (IEC60529)

CE, UL/cUL

NEMA-3R

RoHs/REACH/CLP

Telcordia GR-487 capable

OPTIONAL FEATURES

Compressor Heater Package

Enclosure Heater Package

Material: SGCC, Aluminium, Stainless Steel

External or Built-In Condensate Evaporator

Flanges for partial recess-mounting

Self-test functionality

Recessed mounting

Several colours and finishes

UNIT DESIGN

Aluzinc Steel

Powder-coated in RAL 9016

Louver in front of external fan

Designed for easy service and maintenance

External mounting

CONTROLS

Cooling capacity regulation

Cyclic off-grid application w/ battery-power backup

Optimised for hybrid sites

Password protected set-point adjustment

User-friendly interface w/ display

VAK DC 5000 SLIM

Technical specifications

STANDARD CONFIGURATION

| | |
|-------------------------------------------------|------------------------------------------|
| Epoxy Coated condenser coil | Rotation function between lead/lag units |
| Ethernet communication interface | Sand trap |
| Standard configuration for cold weather package | Smoke detector input and control logic |
| Door contact input and control logic | Shock and vibration capable ISTA-3B |
| LVD and HVD protection function | |

DIMENSIONS

| | | | | |
|--------|----|------|------|------|
| Height | mm | 1400 | inch | 55,1 |
| Width | mm | 600 | inch | 23,6 |
| Depth | mm | 340 | inch | 13,4 |
| Weight | kg | 84 | lbs | 185 |

ELECTRICAL DATA

| | | |
|---------------------------|---|----------|
| Voltage (Nominal) | V | 48 DC |
| Voltage (Operating range) | V | 42-60 DC |

CURRENT

| | | |
|---------------------------|---|------|
| — Starting | A | 15,0 |
| — 35°C/35°C - 95°F/95°F | A | 29,2 |
| — 55°C/55°C - 131°F/131°F | A | 32,3 |
| — 35°C/55°C - 95°F/131°F | A | 33,3 |

POWER CONSUMPTION

| | | |
|---------------------------|---|-------|
| — 35°C/35°C - 95°F/95°F | W | 1.400 |
| — 55°C/55°C - 131°F/131°F | W | 1.550 |
| — 35°C/55°C - 95°F/131°F | W | 1.600 |

CONTROLS

| | |
|----------------------------|-------------------------------|
| Temperature Control Method | Precision Temperature Control |
| Compressor Drive | Variable Speed |
| Fan Drive | Variable Speed |

VAK DC 5000 SLIM

Technical specifications

COOLING PERFORMANCE

| | | | | |
|----------------------------|---|-------|-------|--------|
| Cooling capacity (Nominal) | W | 5.000 | BTU/h | 17.061 |
|----------------------------|---|-------|-------|--------|

COOLING CAPACITY

| | | | | |
|-------------------------|---|-------|-------|--------|
| — 35°C/35°C - 95°F/95°F | W | 5.000 | BTU/h | 17.061 |
|-------------------------|---|-------|-------|--------|

| | | | | |
|---------------------------|---|-------|-------|--------|
| — 55°C/55°C - 131°F/131°F | W | 5.200 | BTU/h | 17.743 |
|---------------------------|---|-------|-------|--------|

| | | | | |
|--------------------------|---|-------|-------|--------|
| — 35°C/55°C - 95°F/131°F | W | 3.800 | BTU/h | 12.966 |
|--------------------------|---|-------|-------|--------|

| | | | | |
|---------------------------|-------------------|-------|-----|-----|
| Internal airflow (Actual) | M ³ /h | 1.400 | CFM | 824 |
|---------------------------|-------------------|-------|-----|-----|

| | | | | |
|---------------------------|-------------------|-------|-----|------|
| External airflow (Actual) | M ³ /h | 1.900 | CFM | 1118 |
|---------------------------|-------------------|-------|-----|------|

AMBIENT TEMPERATURE RANGE

| | | | | |
|---------|----|-----|----|------|
| Maximum | °C | +55 | °F | +131 |
|---------|----|-----|----|------|

| | | | | |
|---------|----|-----|----|----|
| Minimum | °C | -15 | °F | +5 |
|---------|----|-----|----|----|

| | | | | |
|--------------------------|----|------------|----|-------------|
| Extended operation range | °C | -40 to +55 | °F | -40 to +131 |
|--------------------------|----|------------|----|-------------|

ENVIRONMENTAL INFORMATION

| | | |
|--------------------------|-----|------|
| Global Warming Potential | GWP | 1430 |
|--------------------------|-----|------|

| | | |
|--------------------------|-----|---|
| Ozon Depleting Potential | ODP | 0 |
|--------------------------|-----|---|

EER (L35/L35)

| | | |
|------|-------|-----|
| — °C | W / W | 3,6 |
|------|-------|-----|

| | | |
|------|-------|------|
| — °F | W / W | 12,2 |
|------|-------|------|

REFRIGERANT

| | |
|--------|----------------|
| — Type | CFC-free R134a |
|--------|----------------|

| | | |
|----------|---|------|
| — Amount | g | 1300 |
|----------|---|------|

NOISE LEVEL

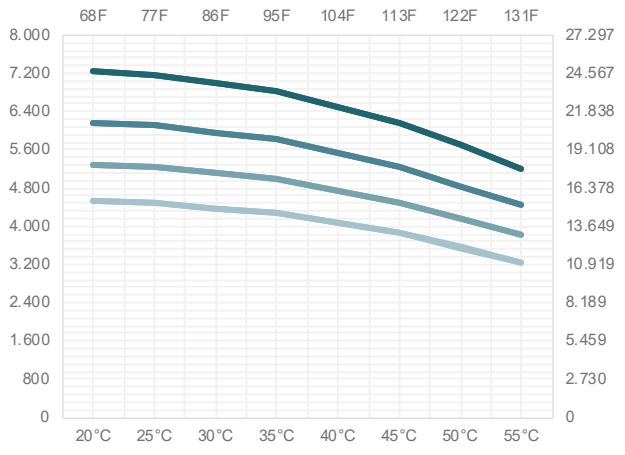
| | | |
|-------|-------|----|
| — Day | dB(A) | 65 |
|-------|-------|----|

| | | |
|---------|-------|----|
| — Night | dB(A) | 60 |
|---------|-------|----|

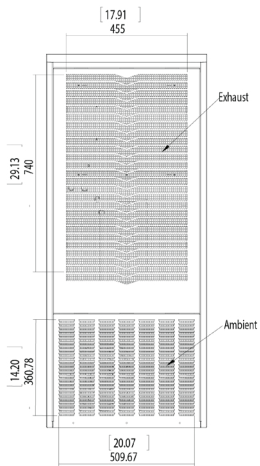
VAK DC 5000 SLIM

Technical specifications

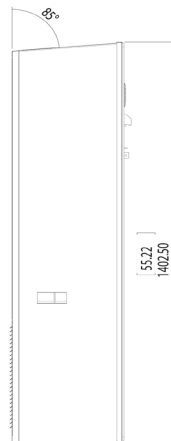
COOLING CAPACITY



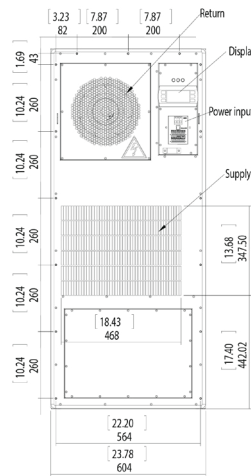
- CC @ RT25C (77F)
- CC @ RT35C (95F)
- CC @ RT45C (113F)
- CC @ RT55C (131F)



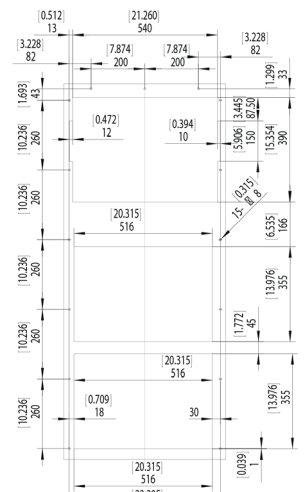
FRONT



SIDE



BACK



CUT-OUT