V-Series
INDOOR AIR CONDITIONERS

Reliable, easy-care cooling for industrial systems

McLean™
COOLING TECHNOLOGY

Protecting Electronics.
Exceeding Expectations.™

Pentair
Technical Products

V-SERIES Indoor Air Conditioners
Reliable easy-care cooling

Engineered for cooling industrial systems in Europe and Asia

RELIABLE PERFORMANCE
- Indoor operating temperature range from 20 °C to 55 °C
- Exceptional IP 56 protection against dust and water infiltration
- Reliable mechanical thermostat to reduce the chance of failure
- All-metal shroud for rugged factory conditions
- Rigorously tested to withstand shipping vibration, high temperatures and other operating challenges
- Every unit functionally tested prior to leaving the factory

EARTH-FRIENDLY
- Rotary compressor* for energy efficiency
- R134A earth-friendly refrigerant
- RoHS compliant

V-SERIES Key Advantages

1. Coated coils for filterless operation in most environments

2. Built-in hooks to hang unit on cabinet before fastening, making installation easier

3. T3 class rotary compressor* for energy efficiency, reliability and high ambient air temperatures

4. Rugged all-metal shroud for demanding factory conditions

5. Easy access to optional aluminum filter and other components for fast service and less system downtime

   *1200, 1500 & 2000 watt models

VERSATILE COOLING
- 300, 600, 1200, 1500 and 2000 watt models
- 230 VAC 50 Hz power input with +/- 10% operating range
- CE and GOST certifications

ATTRACTIVE APPEARANCE
- RAL7035 light grey semi-textured paint standard
- Custom colors and textures available upon request
- Exterior surface mounting standard

EASY TO USE
- Coated coils for filterless operation in most manufacturing environments
- Convenient quick-fastening terminal block for easy power connections
- Built-in installation hooks on the back of the unit
- Unique passive condensate management system
- Full-size cut-out print included with every unit
- Easy access to the optional aluminum filter and other components

RESPONSIVE CUSTOMER SERVICE
- Popular models and spare parts in-stock, ready for immediate shipment
- Over 1,000 field repair technicians worldwide

McLean™ Global Cooling Solutions
High-performance cooling for virtually any environment

Designed to cool industrial, telecom and other electronic systems anywhere in the world

INDUSTRIAL / OUTSIDE PLANT
• SPECTRACOOL indoor / outdoor air conditioners
• PROAIR indoor heat exchangers
• Industrial filter fan collection
• Enclosure heaters
• Thermostats and other accessories

HARSH ENVIRONMENT
• PROAIR Type 4X stainless air conditioners
• Water-cooled air conditioners

TELECOMMUNICATIONS / SECURITY & DEFENSE
• T-Series outdoor air conditioners
• CLIMAGUARD outdoor heat exchangers
• Custom-sized heat exchanger cores
• Thermoelectric coolers
• Direct air cooling systems

McLean Cooling Technology makes electronics cooling easier, so you can go about your business. Be sure to ask us for more details about our global cooling solutions. Or visit our web site at **www.McLeanCoolingTech.com**

V-Series Compact Air Conditioners

VA06 Indoor Model
300 and 600 Watts

Industry Standards

IP 56 Internal Air Loop
IP 34 External Air Loop
CE
GOST

Application

- Industrial drive enclosures
- Automotive assembly systems
- Packaging equipment
- Material handling
- Other process control systems

Features

- Coated coils for filterless operation in most manufacturing environments
- Convenient quick-fastening terminal block for easy power connections
- Built-in installation hooks on the back of the unit
- Unique passive condensate management system
- Indoor operating temperature range from 20°C to 55°C
- IP 56 protection against dust and water infiltration
- Reliable mechanical thermostat to reduce the chance of failure
- All-metal shroud for rugged factory conditions
- Exterior surface mounting standard
- Full-size cutout print included with every unit
- Easy access to the optional aluminum filter and other components
- Rigorously tested to withstand shipping vibration, high temperatures and other operating challenges
- Every unit functionally tested prior to leaving the factory
- R134A earth-friendly refrigerant and RoHS compliant

Specifications

- 300 and 600 nominal watts
- 230 VAC 50 Hz power input with +/-10 percent operating range
- CE and GOST certifications

Finish

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Other colors and textures available upon request

Model Number Structure

VA	06	06	25	G	052	S
1	2	3	4	5	6	7

1. Identifies the of air conditioner type, VA=V Series Air Conditioner.
2. Identifies the approximate height, 06=501mm to 600mm.
3. This is the air conditioner's nominal capacity in Watt, 06=600 W.
4. Identifies the input power of air conditioner, 2=220V/230V, 5=50Hz.
5. Identifies the construction material and refrigerant of air conditioner, G=Galvanized sheet metal and R134a.
6. Unique set of numbers for each air conditioner which identifies the accessories on a model, 052=Teminal block and finger guard.
7. S=Standard product.

Notes

Visit www.McLeanCoolingTech.com to download 2D and 3D CAD drawings into the design of your electronics system.

Performance Data **300 W, 600 W**

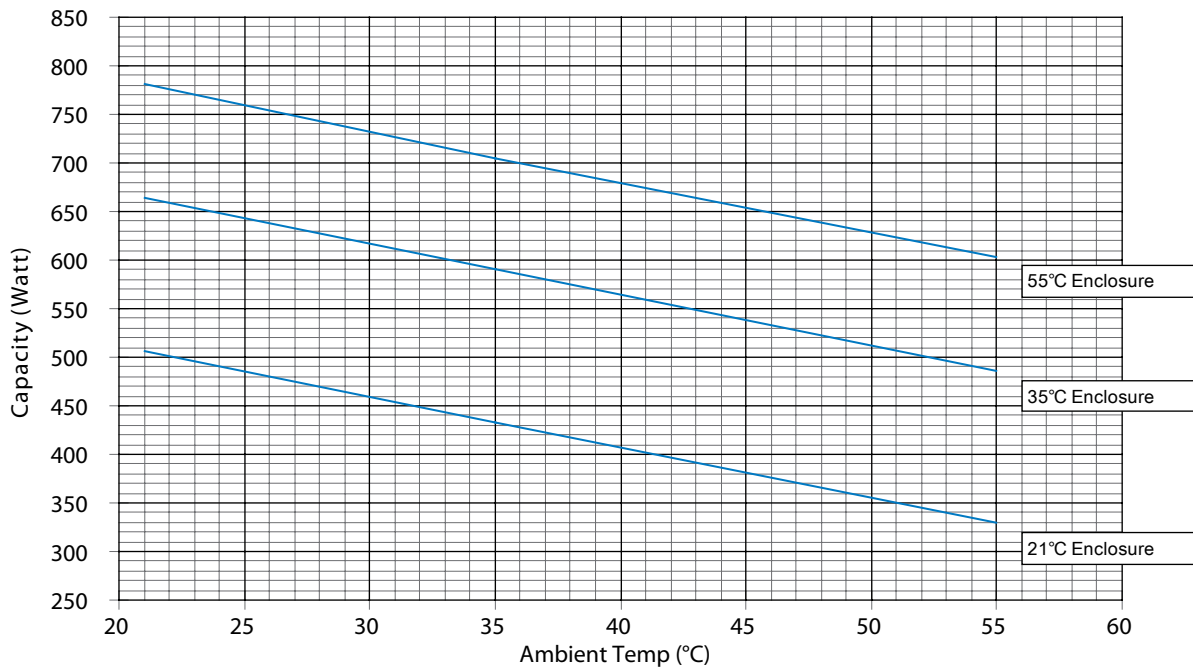| MODEL NUMBER		
	VA060325G052S	VA060625G052S
COOLING PERFORMANCE:		
Nominal:		
L35 L35		
Watt	400	590
L35 L50		
Watt	310	510
Refrigerant	R134a	R134a
Refrigerant Charge (g)	100	150
Operating Temperature Range:		
Maximum (°C)	55	55
Minimum (°C)	20	20
Airflow at 0 Static Pressure:		
Internal loop (m³/h)	115	180
External loop (m³/h)	325	270
Duty Cycle	100%	100%
ELECTRICAL DATA		
Rated Voltage	**230**	**230**
Frequency (Hz)	50	50
Operating Range	+/-10%	+/-10%
Power Consumption L35 L35 (Watt)	225	420
Max. Nominal Current (Amp)	1.5	2.8
Starting Current (Amp)	7	16
Pre-fuse T (Amp)	10	10
Agency Approvals	CE GOST	CE GOST
Power Input Description	Terminal Block	Terminal Block
PERFORMANCE FACTOR L35 L35		
Cooling Performance (Watt)/ Power Consumption (Watt)	1.8	1.4
ENCLOSURE PROTECTION		
IP Code	IP 56 Internal loop IP34 External loop	IP 56 Internal loop IP34 External loop
CONTROLLER		
Description	Basic Mechanical Thermostat	Basic Mechanical Thermostat
Thermostat Location	Enclosure Side	Enclosure Side
Factory Thermostat Setting (°C)	35	35
SOUND LEVEL		
At 1 M	64 dBA	72 dBA
UNIT CONSTRUCTION		
Material	Galvanized Sheet Metal Standard	Galvanized Sheet Metal Standard
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	RAL 7035 light-gray, semi-textured powder-coat paint standard
UNIT DIMENSIONS		
Height (mm)	508	508
Width (mm)	270	270
Depth (mm)	252	252
Weight (kg)	23	25

Performance Curves for 300 and 600 Watt Models

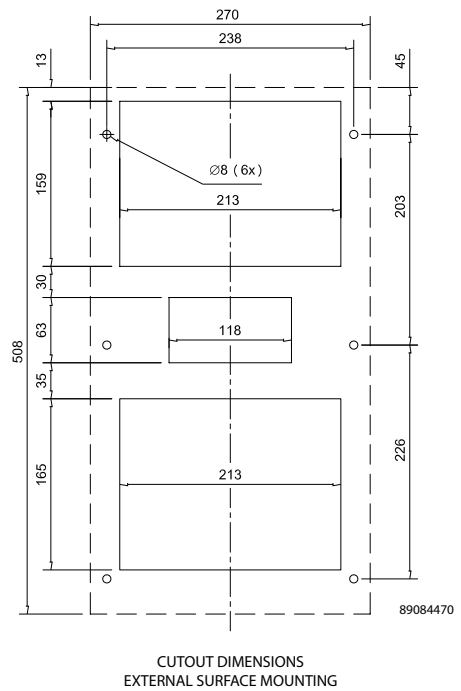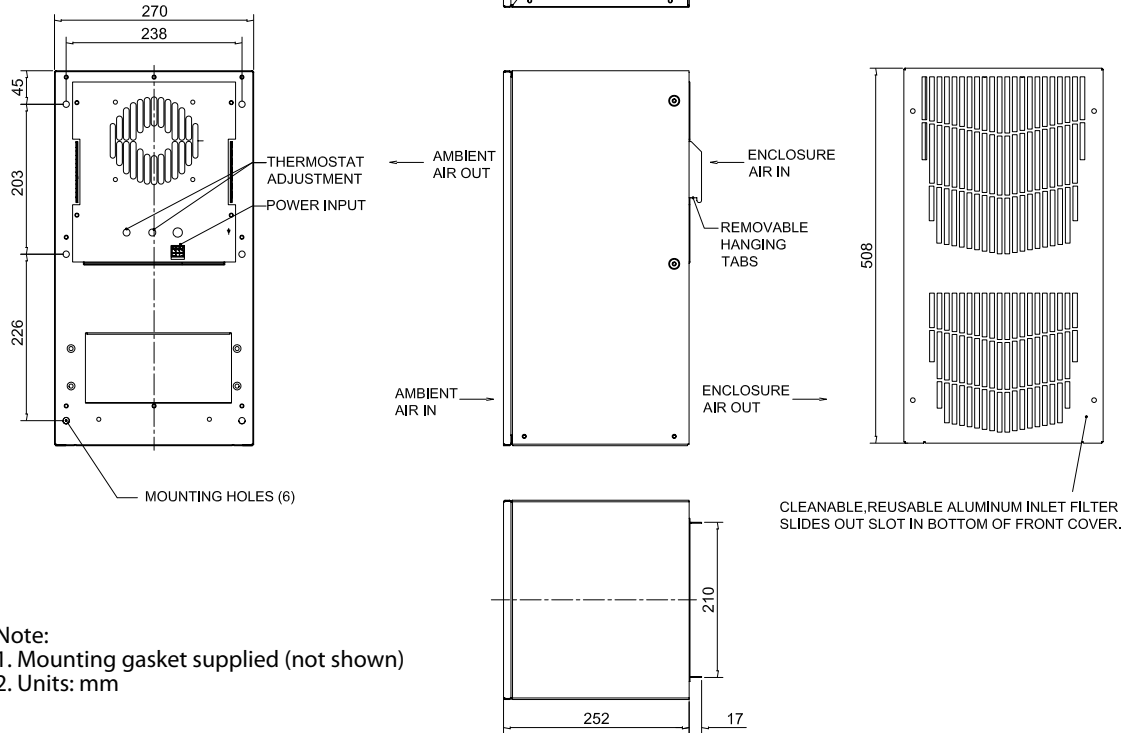### VA060325GXXXS 300 Watt Capacity Curves 230V/50Hz
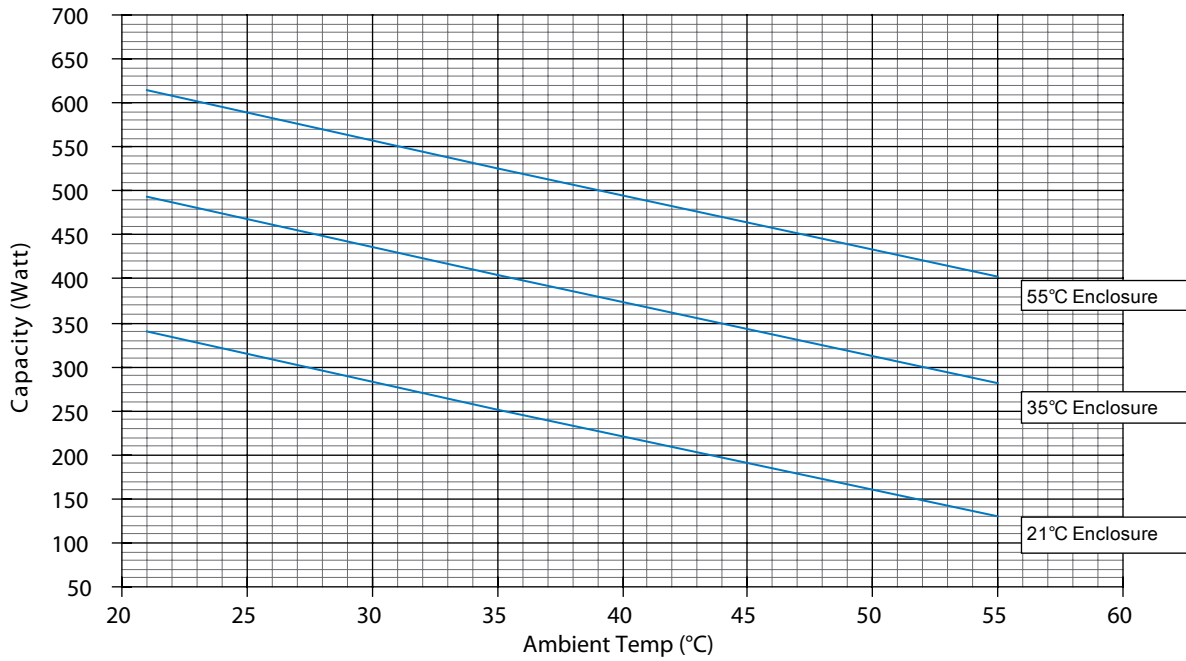
VA060625GXXXS 600 Watt Capacity Curves 230V/50Hz

![McLean Cooling Technology logo]

V-Series Air Conditioners

V-SERIES Compact
1st Angle Projection

9.6 mm O.D. DRAIN HOLES

270
238
45
203
226

THERMOSTAT
ADJUSTMENT
POWER INPUT

AMBIENT
AIR OUT

ENCLOSURE
AIR IN

REMOVABLE
HANGING
TABS

AMBIENT
AIR IN

ENCLOSURE
AIR OUT

508

MOUNTING HOLES (6)

CLEANABLE,REUSABLE ALUMINUM INLET FILTER
SLIDES OUT SLOT IN BOTTOM OF FRONT COVER.

210

252   17

Note:
1. Mounting gasket supplied (not shown)
2. Units: mm

270
238
13
45
159
203
∅8 (6x)
213
30
63
118
508
35
226
165
213

89084470

CUTOUT DIMENSIONS
EXTERNAL SURFACE MOUNTING

V-Series Mid-Size Air Conditioners

VA08 Indoor Model
1200, 1500 and 2000 Watts

Industry Standards

IP 56 Internal Air Loop
IP 34 External Air Loop
CE
GOST

Application

- Industrial drive enclosures
- Automotive assembly systems
- Packaging equipment
- Material handling
- Other process control systems

Features

- Coated coils for filterless operation in most manufacturing environments
- Convenient quick-fastening terminal block for easy power connections
- Built-in installation hooks on the back of the unit
- Unique passive condensate management system
- Indoor operating temperature range from 20 °C to 55 °C
- IP 56 protection against dust and water infiltration
- Reliable mechanical thermostat to reduce the chance of failure
- All-metal shroud for rugged factory conditions
- Exterior surface mounting standard
- Full-size cutout print included with every unit
- Easy access to the optional aluminum filter and other components
- Rigorously tested to withstand shipping vibration, high temperatures and other operating challenges
- Every unit functionally tested prior to leaving the factory
- Rotary compressor for energy efficiency
- R134A earth-friendly refrigerant and RoHS compliant

Specifications

- 1200, 1500 and 2000 nominal watts
- 230 VAC 50 Hz power input with +/-10 percent operating range
- CE and GOST certifications

Finish

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Other colors and textures available upon request

Model Number Structure

VA	06	06	25	G	052	S
1	2	3	4	5	6	7

1. Identifies the of air conditioner type, VA=V Series Air Conditioner.
2. Identifies the approximate height, 06=501mm to 600mm.
3. This is the air conditioner's nominal capacity in Watt, 06=600 W.
4. Identifies the input power of air conditioner, 2=220V/230V, 5=50Hz.
5. Identifies the construction material and refrigerant of air conditioner, G=Galvanized sheet metal and R134a.
6. Unique set of numbers for each air conditioner which identifies the accessories on a model, 052=Teminal block and finger guard.
7. S=Standard product.

Notes

Visit www.McLeanCoolingTech.com to download 2D and 3D CAD drawings into the design of your electronics system.

![McLean Cooling Technology logo]
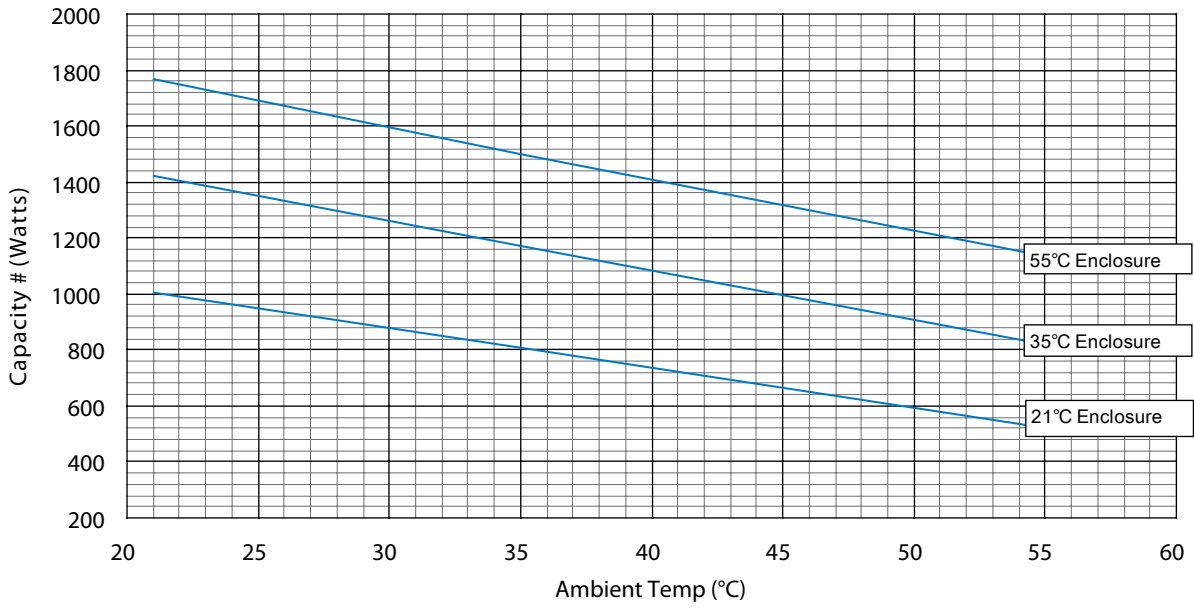
V-Series Air Conditioners

Performance Data **1200 W, 1500 W, 2000 W**

MODEL NUMBER			
Indoor Model	VA081225G052S	VA081525G052S	VA082025G052S
COOLING PERFORMANCE			
Nominal:			
L35 L35			
Watt	**1200**	**1550**	**1950**
L35 L50			
Watt	**930**	**1280**	**1700**
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	462	652	765
Operating Temperature Range:			
Maximum (°C)	55	55	55
Minimum (°C)	20	20	20
Airflow at 0 Static Pressure:			
Internal loop (m³/h)	345	530	530
External loop (m³/h)	275	545	565
Duty Cycle	100%	100%	100%
ELECTRICAL DATA			
Rated Voltage	230	230	230
Frequency (Hz)	50	50	50
Operating Range	+/-10%	+/-10%	+/-10%
Power Consumption L35 L35 (Watts)	565	610	855
Max. Nominal Current (Amps)	3.4	3.7	5.6
Starting Current (Amps)	16.2	16.3	22.7
Pre-fuse T (Amps)	10	10	10
Agency Approvals	CE GOST	CE GOST	CE GOST
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR L35 L35			
Cooling Performance (Watt)/ Power Consumption (Watt)	2.1	2.5	2.3
ENCLOSURE PROTECTION			
IP Code	IP 56 Internal loop IP34 External loop	IP 56 Internal loop IP34 External loop	IP 56 Internal loop IP34 External loop
CONTROLLER			
Description	Basic Mechanical Thermostat	Basic Mechanical Thermostat	Basic Mechanical Thermostat
Thermostat Location	Enclosure Side	Enclosure Side	Enclosure Side
Factory Thermostat Setting (°C)	35	35	35
SOUND LEVEL			
At 1 M	68 dBA	71 dBA	73 dBA
UNIT CONSTRUCTION			
Material	Galvanized Sheet Metal Standard	Galvanized Sheet Metal Standard	Galvanized Sheet Metal Standard
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	RAL 7035 light-gray, semi-textured powder-coat paint standard	RAL 7035 light-gray, semi-textured powder-coat paint standard
UNIT DIMENSIONS			
Height (mm)	725	725	725
Width (mm)	431	431	431
Depth (mm)	237	237	237
Weight (kg)	37	38	42

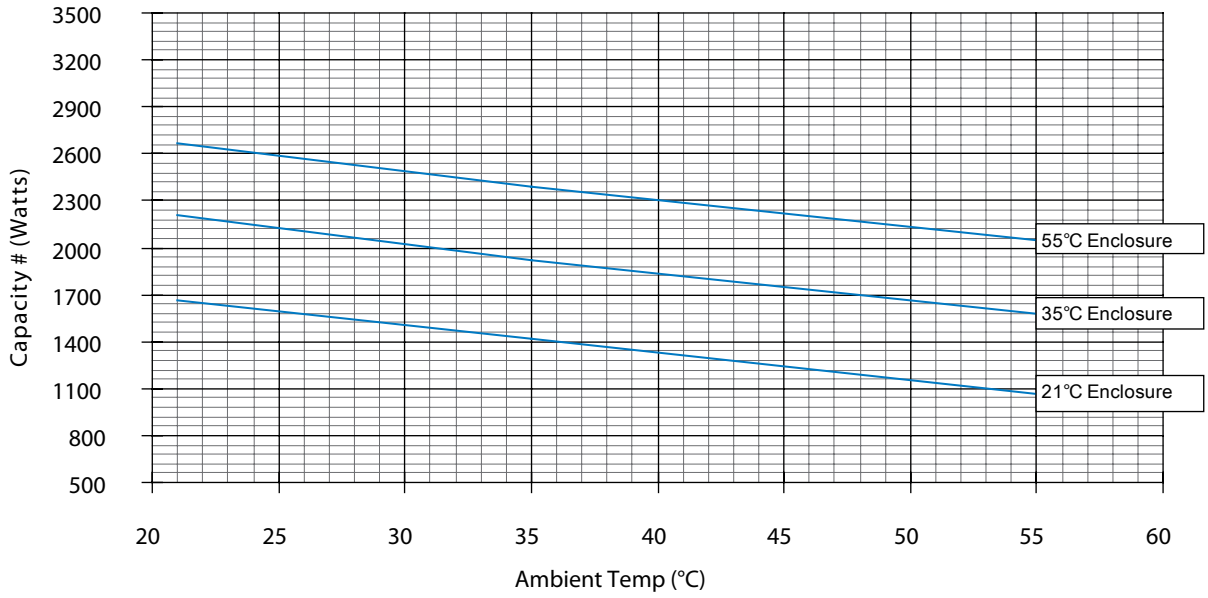Performance Curves for 1200 and 1500 Watt Models

VA081225GXXXS Capacity Curves 230V/50Hz
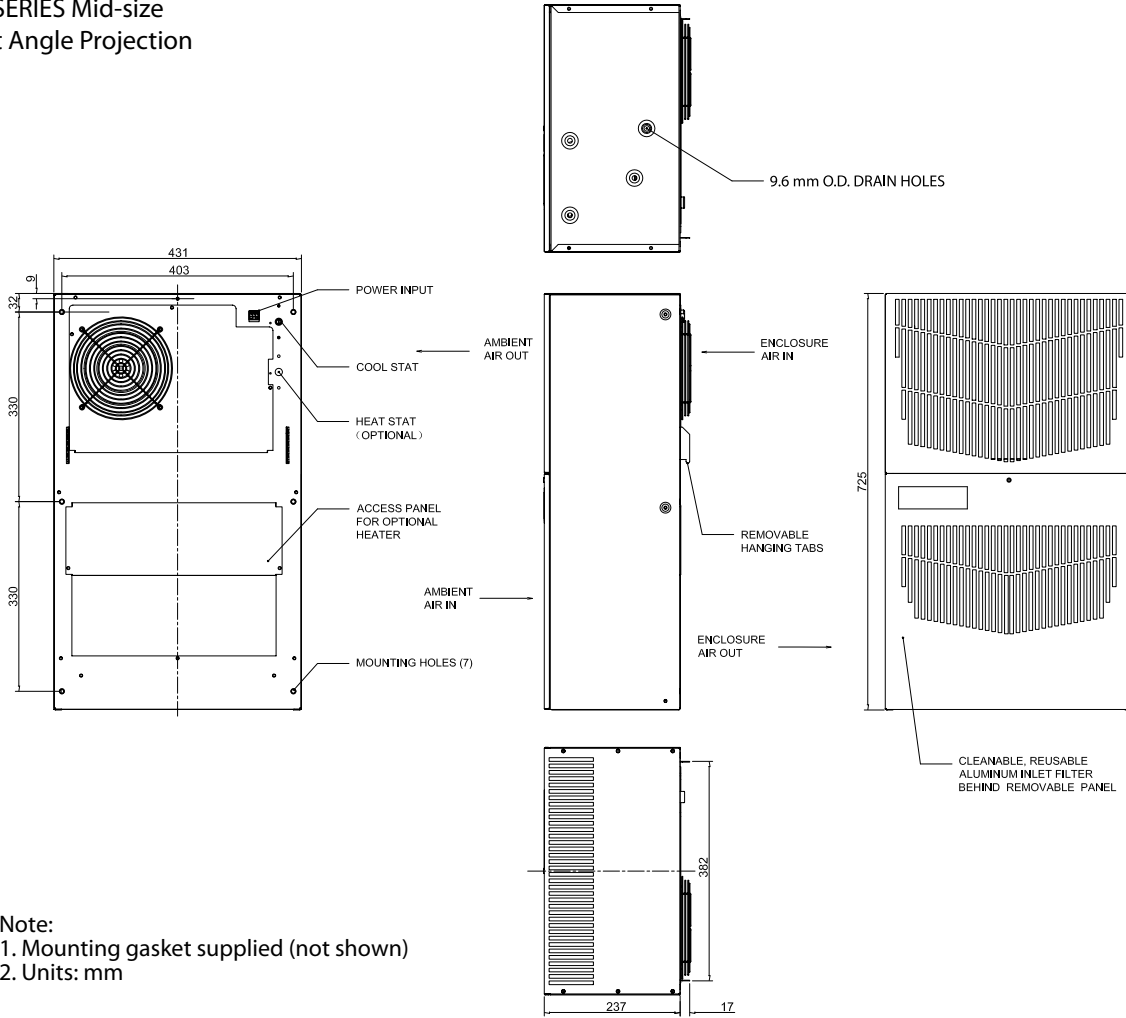

VA081525GXXXS Capacity Curves 230V/50Hz
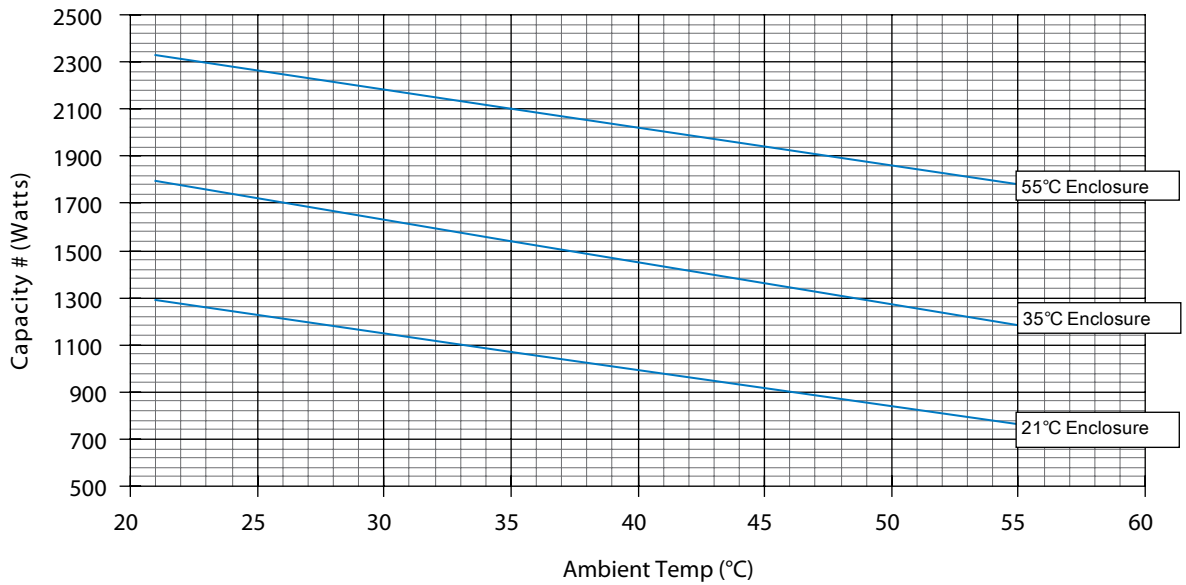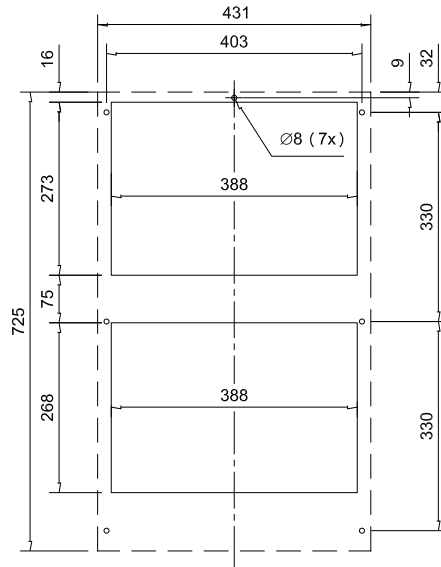
Performance Curves for 2000 Watt Model

VA082025GXXXS Capacity Curves 230V/50Hz

V-Series Air Conditioners

V-SERIES Mid-size
1st Angle Projection

9.6 mm O.D. DRAIN HOLES

431
403
9
32

POWER INPUT

330

AMBIENT
AIR OUT

COOL STAT

HEAT STAT
(OPTIONAL)

ENCLOSURE
AIR IN

330

ACCESS PANEL
FOR OPTIONAL
HEATER

REMOVABLE
HANGING TABS

AMBIENT
AIR IN

ENCLOSURE
AIR OUT

MOUNTING HOLES (7)

725

382

237   17

CLEANABLE, REUSABLE
ALUMINUM INLET FILTER
BEHIND REMOVABLE PANEL

Note:
1. Mounting gasket supplied (not shown)
2. Units: mm

431
403
16   9   32

⌀8 (7x)

273   388

75

268   388

725   330   330

89084471

Cutout Dimensions
External Surface Mount

Notes

No company engineers and services cooling solutions for vital electronics better than
Pentair Technical Products

With more than 30 years of experience producing everything from fan assemblies to standard air conditioners and heat exchangers to engineered cooling applications for one-of-a-kind systems, Pentair Technical Products' McLean has the people and products to deliver the cool. The markets we serve include industrial automation, food and beverage, telecommunications, petrochemical, transportation, data networking, security and defense, and many others.

Pentair Technical Products understands your need for performance and does whatever it takes to ensure that when you make a promise to a customer, you can keep it.

PRODUCT SELECTION
Indoors or outdoors, McLean air conditioners, heat exchangers, air movers and controls get the job done.

CUSTOM COOLING SOLUTIONS
An experienced staff with advanced software, rapid prototyping and in-house test facilities delivers custom cooling solutions quickly and to your exact specifications.

TECHNICAL EXPERTISE AND SUPPORT
With over 30 years of experience across dozens of industries, our engineers are able to assist your project design every step of the way. We also put that same cooling know-how into the standard platform solutions that we develop for the broader market.

PRODUCT RELIABILITY
Speak with McLean customers, and you'll discover a strong market reputation for product reliability. We are ISO 9001:2008 certified. Every unit is also functionally tested before shipping.

EXPERIENCED SALES STAFF
Years of cooling systems expertise, engineering knowledge and responsive problem solving help our sales staff "listen, learn, develop and deliver."

COOL CUSTOMER SUCCESSES
Thomson and McLean Are Shaken, But Not Stirred

Thomson Broadcasting is the world leader in digital video technologies. That's why top media, entertainment and communications companies turn to Thomson to get the right images to the right place at the right time – over time.

And that's why Thomson turns to the McLean brand to help keep its customers' broadcast systems up and running 24/7.

"We recently tested a new UHF base station for one of our clients," said Don Wike, Chief Design Engineer. "We put our system, including a McLean outdoor air conditioner, through a pretty rigorous Telcordia GR487 test protocol. We shook the UHF system, dropped it from over 18 inches, and simulated years of cold winters and hot summers in a cycle chamber. After all this, the McLean unit still performed beautifully."

Don added, "Our customers count on Thomson to design a rugged digital media system. And we count on McLean to keep the electronics cool. We had over 8,000 watts of heat to dissipate in the new UHF base station system. The McLean 3-ton A/C unit proved it can handle the load. Pentair Technical Products also allowed us to use their thermal cycle test chamber, saving us R&D costs."

For electronics cooling that performs under extreme conditions, take a serious look at McLean. More cool customer stories are available at **McLeanCoolingTech.com**

ONLINE PARTS ORDERING
An easy-to-navigate online parts store provides fast, secure replacement part ordering 24/7.

FISCALLY STRONG
The Pentair Technical Products' McLean brand is owned by Pentair, a $3.5 billion diversified, publicly held global operating company. We handle single-unit in-stock orders to $5 million+ global projects.

GLOBAL REACH
McLean's growing worldwide network of sales, distribution and manufacturing delivers quality service for those who need global infrastructure.

SUPERIOR SERVICE AND REPAIR
Over 1,000 certified repair technicians provide 24-hour emergency service worldwide.

Decades of experience protecting electronics in demanding applications

With the combined knowledge and engineering assets of recognized brand leaders — Hoffman™, Schroff™ and McLean™ Cooling Technology — Pentair Technical Products is the leading provider of worldwide product and service solutions for enclosing, protecting and cooling electrical and electronic systems. A Pentair global business unit, the industry-leading brands of Pentair Technical Products provide diverse, proven solutions to the commercial, communications, energy, electronics, industrial, infrastructure, medical, and security & defense markets worldwide.

Anoka, MN
Warwick, RI
Mt. Sterling, KY
Radford, VA
San Diego, CA
Pharr, TX
Reynosa, Mexico
Boituva, Brazil
Dzierzoniow, Poland
Betschdorf, France
Straubenhardt, Germany
Qingdao, China
Meiwa, Japan
Shanghai, China
Bangalore, India
Singapore
Melbourne, Australia

▶ Regional Headquarters
▶ Manufacturing and Logistics Locations

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Pentair
Technical Products

For worldwide locations, see **pentairtechnicalproducts.com**