



CONNECT AND PROTECT

Industrial Cooling



HOFFMAN



HOFFMAN

Dependable Automation and Electronics Cooling

Keeping your electronics cool is essential for extending their life and keeping your business running. Heat can have a significant impact on electronics, causing damage and voiding manufacturers' warranties. Cooling sensitive electronics increase service life and reduces capital expenses. nVent HOFFMAN offers a full selection of cooling units covering most industrial applications including machine tool, automotive, packaging systems, wood forming, factory robotics, material handling and more.



Industrial Cooling

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Cooling General Information: Local Service and Parts

TECHNICAL SUPPORT

cooling.service@nVent.com

+49 (0) 7082.794.0

- Technical assistance
- Service and warranty support
- On-line resources
- Specifications and drawings

AFTERMARKET SUPPORT – REGIONAL LOCATIONS

NORTH AMERICA

2100 HOFFMAN Way

Minneapolis, Minnesota 55303-1745 U.S.A.

Tel: +1.763.422.2211

INDIA

**Plot No 19B, Phase – 2, Sector – 1 | KIADB Industrial Area,
Shynamangala Cross | Bidadi, Ramanagar Dist. | Karnataka |
India – 562109**

Tel: +91.080.6715.8900

BRAZIL

Rua Joao Marcon, 165

18550.000 – Centro

Boituva – SP

Tel: +55.15.3363.9100

EUROPE

Langenalber Straße 96-100

75334 Straubenhardt, Germany

Tel: +49.7082.794.0

CHINA

21st Floor of Cloud Nine Plaza

No. 1118 West Yan'an Road

Changning District, Shanghai

P.R. China

Tel: +86.400.820.1133

SINGAPORE

18 Boon Lay Way

TradeHub 21, #04-110/111

Singapore 609966

Tel: +65.6768.5800

6,700
AUTHORIZED
TECHNICIANS
WORLDWIDE

Factory-authorized
service available
around the globe

LOCAL SERVICE AND PARTS

COVERAGE YOU CAN COUNT ON

Local Availability Means Parts in Hours, Not Weeks

In each global region, our local distributors have access to large inventories of service parts. Repair technicians worldwide can place parts orders regionally, eliminating communication barriers and ordering delays. nVent HOFFMAN parts are usually available in-stock or shipped within hours, versus shipping delays that can last weeks.

OVER
1,000
COOLING
SPARE PARTS
WHEN YOU
NEED THEM

AN UNRIVALED STRATEGIC PARTNERSHIP FOR THE MOST RESPONSIVE LOCAL SERVICE



Through partnership with Johnson-Northwest, HOFFMAN offers unsurpassed service presence and response with expertise that reaches worldwide.

JNW delivers full-service capabilities and complete in- and out-of-warranty service for HOFFMAN cooling products from over 700 local service locations around the globe.

Through JNW, HOFFMAN offers

- 24/7/365 service availability
- Online service requests
- Factory-authorized expertise to service all HOFFMAN models and many competitor models
- Local service in hundreds of North American cities and around the globe

- In-stock availability for selected cooling parts
- Global coordination of service and maintenance programs
- Expedited service and parts availability
- Extensive reporting capabilities including up-to-date status monitoring
- Automatic emails about change-to-repair-order status

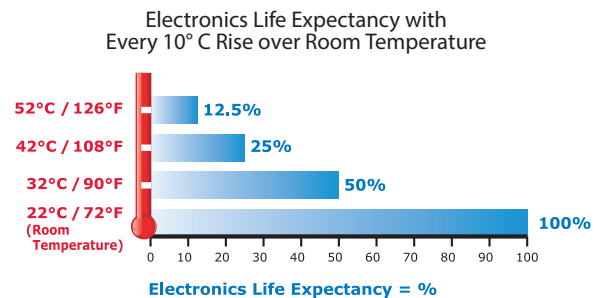
Cooling General Information: How To Select The Right Cooling Solution

WHY COOL ELECTRONICS IN THE FIRST PLACE?

Keeping your electronics cool is essential to extending their life and keeping your business running.

HEAT RUINS ELECTRONICS

The life expectancy of electronics is cut in half every 10°C/18°F they operate above room temperature. Operating electronics above certain temperatures can void manufacturers' warranties, making proper cooling essential. Cooling vital electronics increases service life and reduces capital expenses over the long-term.



SOURCES OF HEAT

Damaging heat can come from a variety of sources. Inside the cabinet, heat can come from:

- AC power supplies
- Controllers, drives and servos
- Transformers and rectifiers
- Processors and server racks
- Radio equipment
- And other electronic components

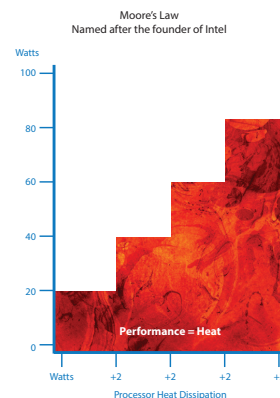
Heat also comes from sources outside the enclosure such as:

- Solar heat gain
- Welding processes
- Paint oven
- Blast furnace
- Foundry equipment

TREND TOWARD MORE DAMAGING HEAT

For the foreseeable future, the trend is toward increasing levels of heat in electronics, not less, because the market's thirst for more information processing capacity and speed continues to grow. This trend is known as "Moore's Law."

More powerful data-processing electronics generate extra heat with virtually every new system that is designed. There is no guarantee that an application which did not require much, if any, cooling in the past will not need cooling in the future. The new system likely has more functionality and will probably require some form of cooling as a result.



THE CONSEQUENCES OF DAMAGING HEAT

Heat build-up can adversely affect industrial controls and sensitive electronic systems as follows:

- De-rated drive performance
- I/C-based devices experience intermittent fluctuations
- MTBF decreases exponentially
- Catastrophic failure

The costs when a factory line or electronic system fails can include:

- Productivity losses
- Component replacement costs
- Late shipments
- Customer dissatisfaction
- Lost revenue
- Cell phone tower outage
- Breach in homeland security

Direct costs to a business can be as much as \$50,000 per hour of system downtime.

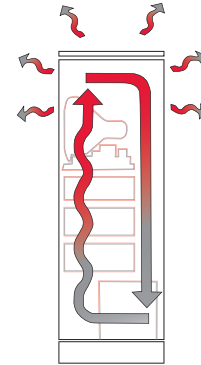
Cooling General Information: How To Select The Right Cooling Solution

CONDUCTIVE ENCLOSURE COOLING

This is a passive way to cool electronics. It simply allows the heat to radiate through the cabinet walls.

Conductive enclosure cooling works well with electronics systems that have small heat loads (<50 W) and cool air around the enclosure <78°F/25°C.

If heat is an issue, one option within this type of cooling is to increase cabinet size to create more surface area to speed the transfer of heat. However, growing cabinet size is often not a practical solution because of space limitations and the greater heat loads associated with today's high-power electronics.

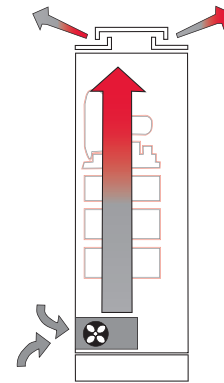


FRESH AIR ENCLOSURE COOLING

This is an active way to manage heat in electronics applications. This type of cooling ventilates fresh air through the cabinet, exhausting heat away from the hot components.

Fresh air enclosure cooling may be used when the electronics system is deployed in a relatively clean and cool environment such as an office building, data networking center or light-duty factory. Options for cooling electronic enclosures with fresh air include filter fans, fan trays, motorized impellers and packaged blowers.

Fresh air enclosure cooling is known as an “open-loop system” because no significant seal is maintained to protect electronic components from harmful elements such as dirt, water, metal filings and corrosive fumes.



SEALED ENCLOSURE COOLING

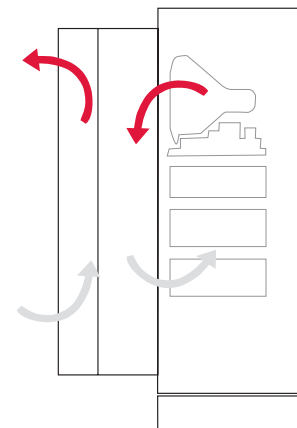
This is another active way to cool electrical components. This type of cooling maintains the seal of the enclosure—using an air conditioner or heat exchanger as examples—to remove heat from inside the electronics cabinet.

Protective cooling is generally required when the electronics application:

- (1) operates in high temperatures, typically over 95°F/35°C,
- (2) is deployed in a harsh environment such as an outdoor telecom base station, wastewater treatment plant, metal working operation, oil rig platform, paper mill, foundry and/or
- (3) generates a high heat load from its own components, usually more than 500 W.

Options for sealed enclosure cooling include air conditioners, air-to-air heat exchangers, air-to-water heat exchangers, thermoelectric coolers and vortex coolers.

Sealed enclosure cooling is known as a “closed-loop system” because the seal of the electrical cabinet is maintained, allowing no elements which can damage the electronics inside the enclosure.



Cooling General Information: How To Select The Right Cooling Solution

SEALED VS. FRESH AIR ENCLOSURE COOLING

Since heat dissipation is often not a solution, we will limit our choices to sealed vs. fresh air enclosure cooling.

Use the environmental and electronic system criteria in the table below to determine whether sealed or fresh air enclosure cooling is most appropriate for your application.

Choosing Sealed vs. Fresh Air Enclosure Cooling

Specifying protective cooling that keeps your electronics components sealed from the outside environment versus using fresh air cooling to remove damaging heat depends on the following profile of your system application (check one side or the other for each of the six criteria):

	FRESH AIR	CRITERIA	SEALED	
Clean Air / Some Dust / Dripping Water	<input type="checkbox"/>	SYSTEM OPERATING ENVIRONMENT	<input type="checkbox"/>	Dirty / Wet / Metal Filings / Outdoors / Corrosive Fumes
Moderate to Low (typically under 35° C/ 95° F)	<input type="checkbox"/>	TEMPERATURE OUTSIDE OF THE ENCLOSURE	<input type="checkbox"/>	Hot (typically over 35° C/ 95° F)
Somewhat to Well-Above Ambient Temperature	<input type="checkbox"/>	TEMPERATURE RATING OF THE ELECTRONICS	<input type="checkbox"/>	Below to Somewhat Above Ambient Temperature
Moderate to Low	<input type="checkbox"/>	HUMIDITY OUTSIDE OF THE ENCLOSURE	<input type="checkbox"/>	High Relative Humidity
Wide	<input type="checkbox"/>	TEMPERATURE RANGE FOR THE ELECTRONICS	<input type="checkbox"/>	Narrow / Precise
Moderate to Low (typically under 3000 Watts)	<input type="checkbox"/>	SYSTEM POWER DRAW / HEAT LOAD	<input type="checkbox"/>	Moderate to High (typically over 3000 Watts)

If most of your assessments fell on the fresh air side, then a filter fan, fan tray, motorized impeller or blower is probably the correct cooling solution for your application. However, if most of your assessments were on the protective side, then an air conditioner or heat exchanger is likely the right cooling solution for your electronics system.

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT



INDUSTRY STANDARDS

UL/cUL Listed; Type 12; File No. SA6453

CE, EAC, RoHS

Cooling performance tested by TÜV SÜD Germany, according to DIN EN 14511

IP 54 internal loop, IP 34 external loop



APPLICATIONS

- Automation
- Machine Tool
- Automotive
- Packaging Systems, Material Handling
- MRO (Maintenance Repair Operation)

SCOPE OF DELIVERY

- Air conditioner unit
- Mounting gasket and hardware kit
- Cutout template
- Instruction manual
- Quick start guide

FEATURES

- Protection class: IP 54 (internal loop)/UL Type 12
- Standardized dimensions and cutouts – easy exchange by cutouts and mounting points

- Slim depth with 3 mounting options: surface, partial recess and full recess mount; mounting options all in the same model; easy changeable
- Attractive design plastic cover with high, optimized airflow
- Dust resistant coils for filterless operation
- High efficiency rotary compressor
- Active condensate management with heater strip
- Smart controller with easy setup, status codes and alarm output
- Master Slave option - reduce down time
- Door switch capability and alarm output
- Terminal block
- Remote access control - Worldwide monitoring with SNMP, Ethernet/IP, Modbus-TCP and ProfiNet

SPECIFICATIONS

- Cooling capacity: 300 Watt to 4000 Watt
- Voltage: 230 V (50/60 Hz), 115 V (50/60 Hz) and 400/460 V 3-phase (50/60 Hz)
- Operating temperature range: 10 °C to 55 °C

OPTIONS

- Filter
- Drain tube kit
- Remote access control by Comm-Board

FINISH

- Standard RAL 7035 light grey paint color
- Other colors and textures on request

For product general accessories, please refer to the chapter "Accessories".

NOTES:

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 300 WATT MODEL

Note: Items with * are in stock. Lead time 2 weeks

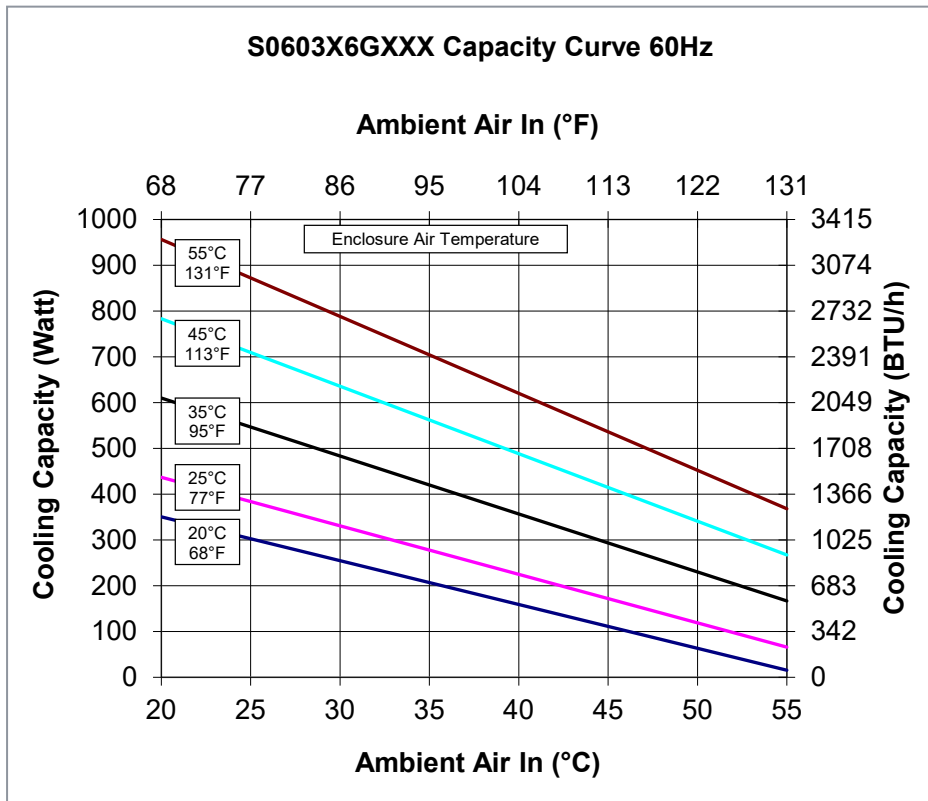
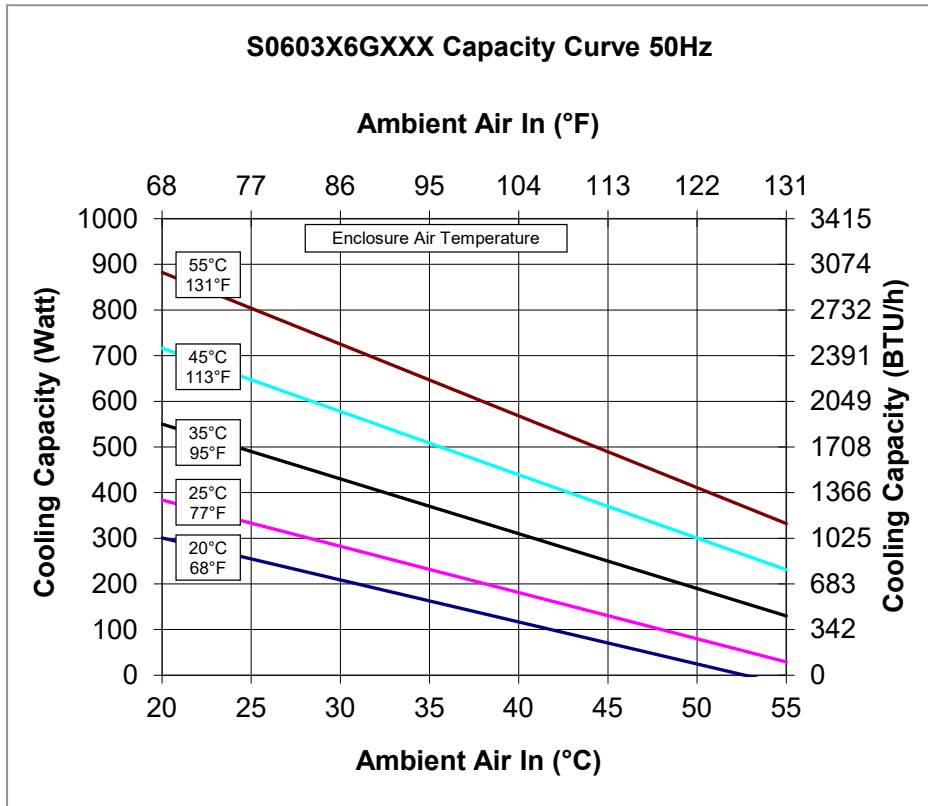
TWO MOUNTING OPTIONS: SURFACE AND FULL RECESS MOUNT

Unit Reference	300W 115V	300W 230V
Item number		
Indoor Model without Comm-Board	S060316G031	S060326G031*
Indoor Model with Comm-Board	S060316G041	S060326G041
COOLING PERFORMANCE		
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	370	370
Cooling Performance L35 L35 (Watt) 50/60Hz	370/420	370/420
Cooling Performance L35 L50 (Watt) 50/60Hz	190/230	190/230
Refrigerant	R134a	R134a
Refrigerant Charge (g)	133	128
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28
Operating Temperature Range Min./Max. °C	10/52	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	109/124	109/124
External Loop (m³/h)	129/156	129/156
Duty Cycle	100%	100%
ELECTRICAL DATA		
Rated Voltage (Volt)	100/115	230
Phase	1~	1~
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	270/300	300/320
Max Power Consumption L35 L50 (Watt) 50/60Hz	280/320	330/350
Max. Nominal Current (Amps)	4.0/3.8	1.8/1.7
Starting Current (Amps)	13/13	6/6
Pre-fuse T (Amps)	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511		
Cooling Performance L35 L35 50/60Hz	1.37/1.40	1.23/1.31
Cooling Performance L35 L50 50/60Hz	0.68/0.70	0.58/0.65
ENCLOSURE PROTECTION		
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54
Controller		
Description	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C
Sound Level		
At 1 M (dBA)	68	68
UNIT CONSTRUCTION		
Material	Steel	Steel
Finish	RAL 7035	RAL 7035
UNIT DIMENSIONS		
Height (mm)	550	550
Width (mm)	280	280
Depth (mm)	142	142
Weight (kg)	13	13

SPECTRACOOL Slim Fit

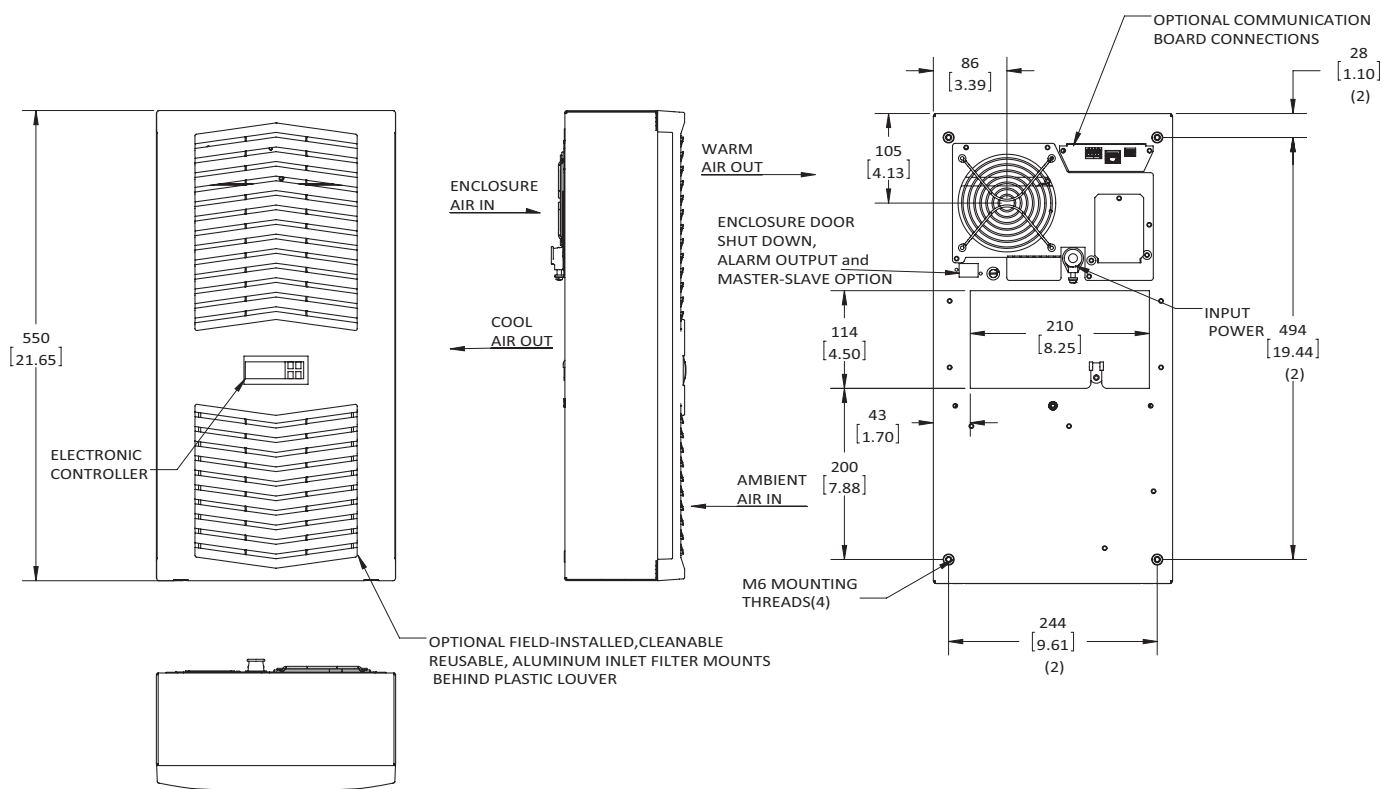
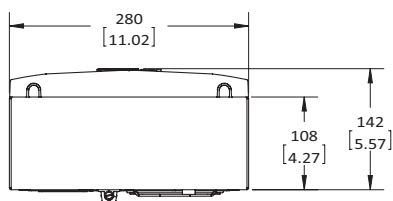
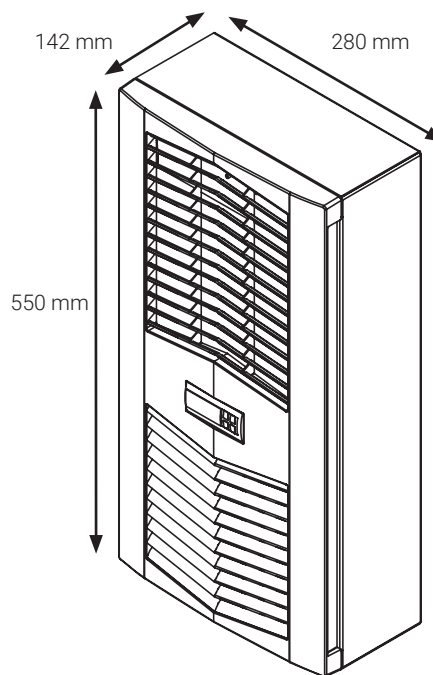
SPECTRACOOL SLIM FIT – 300 WATT MODEL

PERFORMANCE CURVES FOR 300W MODELS ACCORDING TO EN 14511



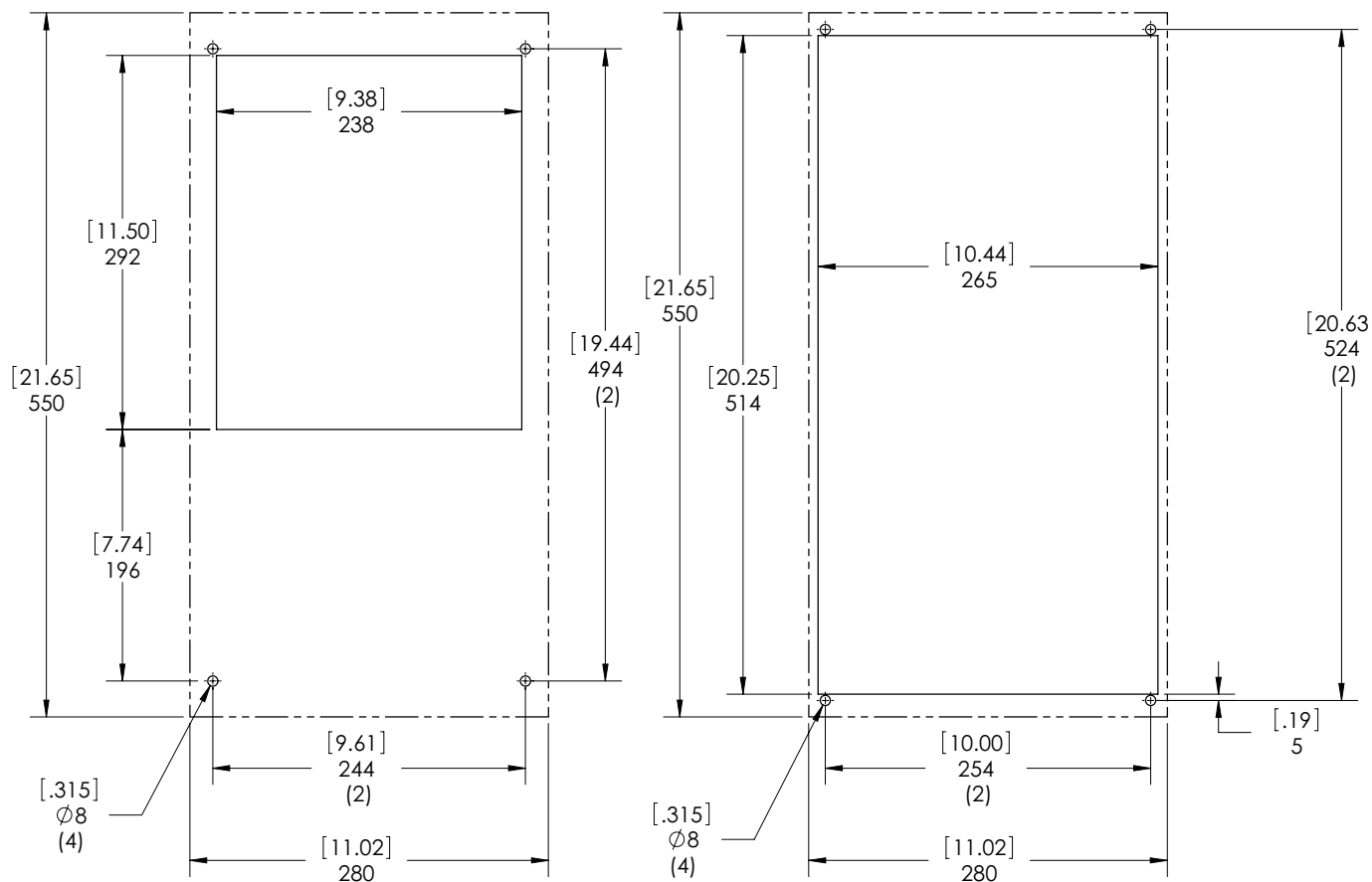
SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 300 WATT MODEL



SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 300 WATT MODEL



Surface Mount

Full Recess Mount

300W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 500 WATT MODEL

Note: Items with * are in stock. Lead time 2 weeks

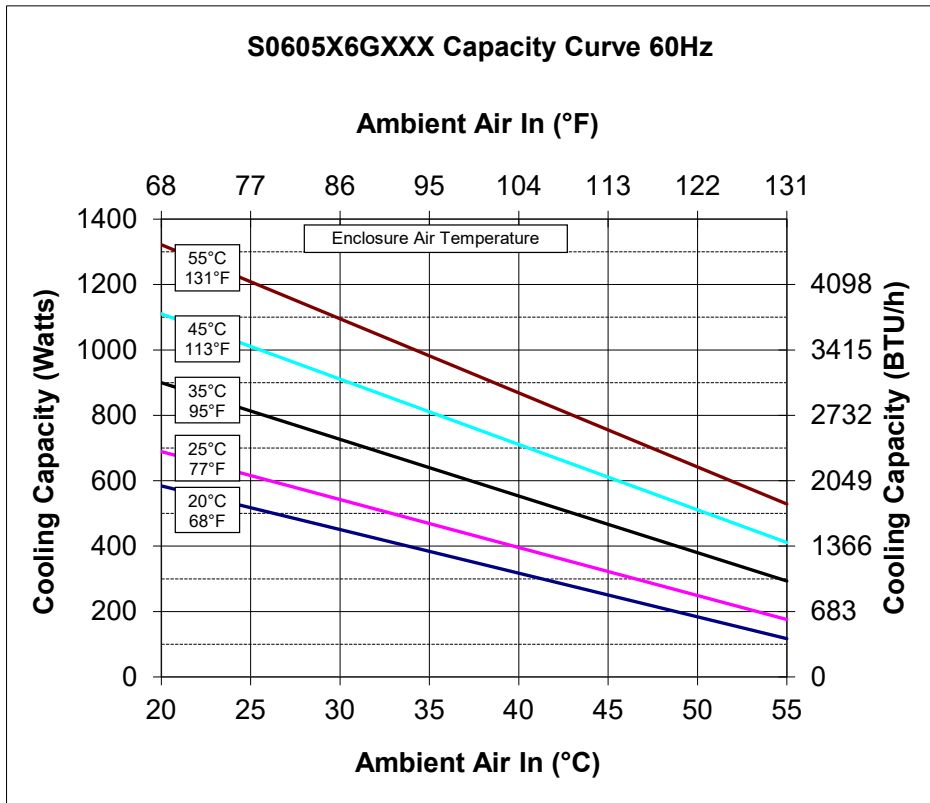
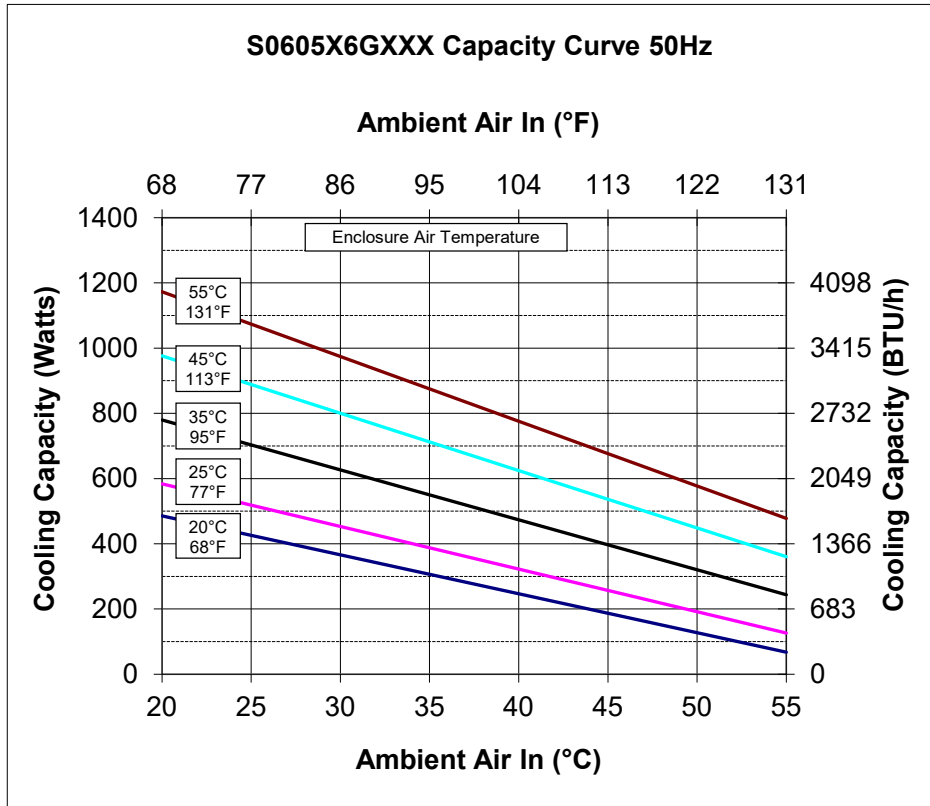
THREE MOUNTING OPTIONS

Unit Reference	500W 115V	500W 230V
Item number		
Indoor Model without Comm-Board	S060516G031	S060526G031*
Indoor Model with Comm-Board	S060516G041	S060526G041
COOLING PERFORMANCE		
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	550	550
Cooling Performance L35 L35 (Watt) 50/60Hz	550/640	550/640
Cooling Performance L35 L50 (Watt) 50/60Hz	320/380	320/380
Refrigerant	R134a	R134a
Refrigerant Charge (g)	162	162
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28
Operating Temperature Range Min./Max. °C	10/55	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	197/233	197/233
External Loop (m³/h)	189/219	189/219
Duty Cycle	100%	100%
ELECTRICAL DATA		
Rated Voltage (Volt)	115	230
Phase	1~	1~
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	450/470	450/480
Max Power Consumption L35 L50 (Watt) 50/60Hz	490/540	510/540
Max. Nominal Current (Amps)	6.5/6.1	2.6/2.9
Starting Current (Amps)	21/20	9/10
Pre-fuse T (Amps)	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511		
Cooling Performance L35 L35 50/60Hz	1.22/1.36	1.24/1.35
Cooling Performance L35 L50 50/60Hz	0.64/0.70	0.62/0.70
ENCLOSURE PROTECTION		
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54
CONTROLLER		
Description	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C
SOUND LEVEL		
At 1 M (dBA)	68	68
UNIT CONSTRUCTION		
Material	Steel	Steel
Finish	RAL 7035	RAL 7035
UNIT DIMENSIONS		
Height (mm)	550	550
Width (mm)	280	280
Depth (mm)	199	199
Weight (kg)	15	15

SPECTRACOOL Slim Fit

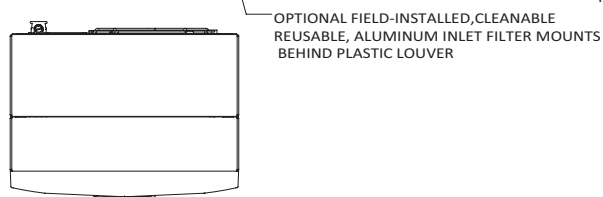
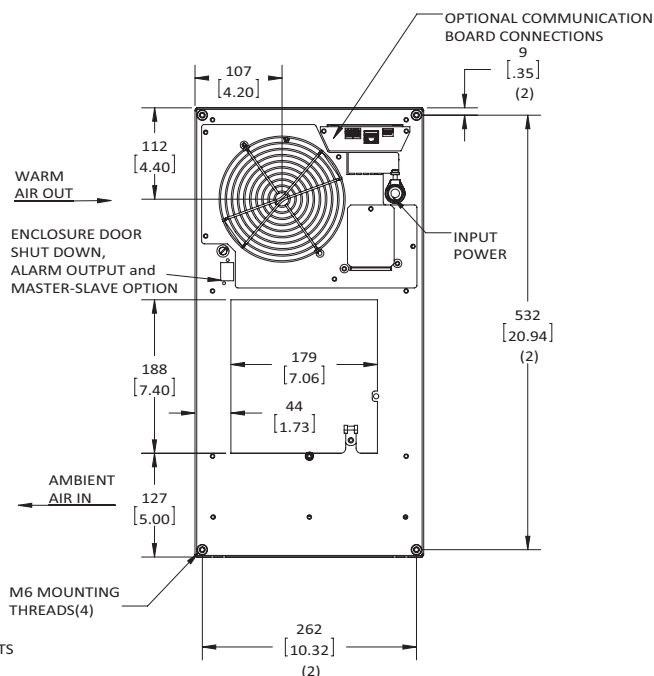
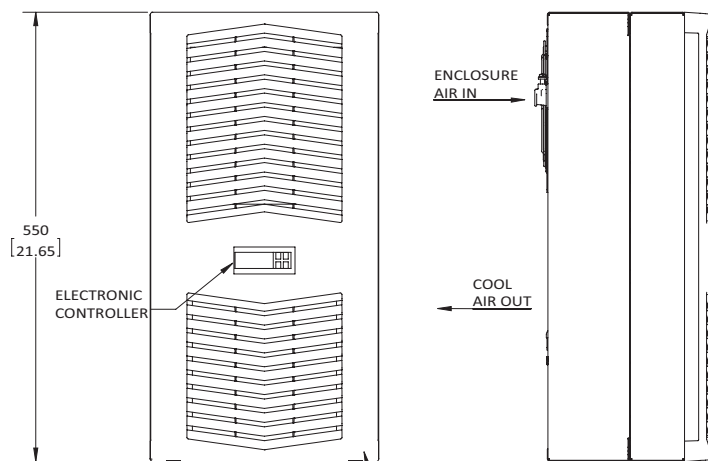
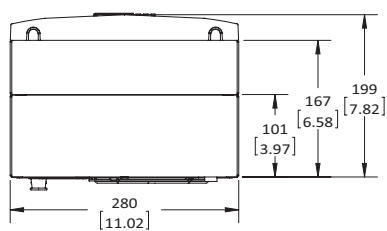
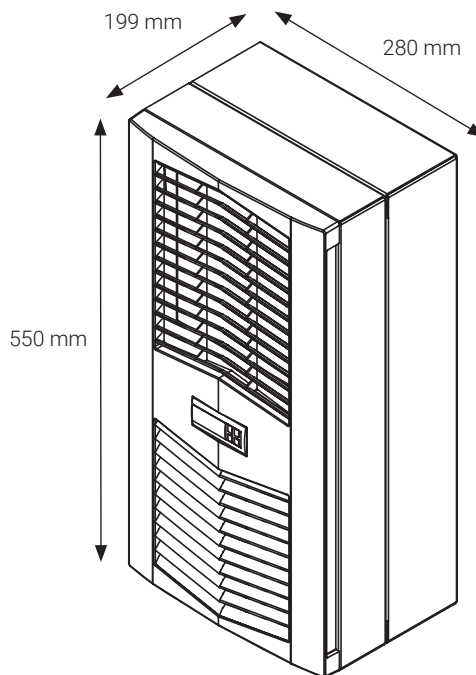
SPECTRACOOL SLIM FIT – 500 WATT MODEL

PERFORMANCE CURVES FOR 500W MODELS ACCORDING TO EN 14511



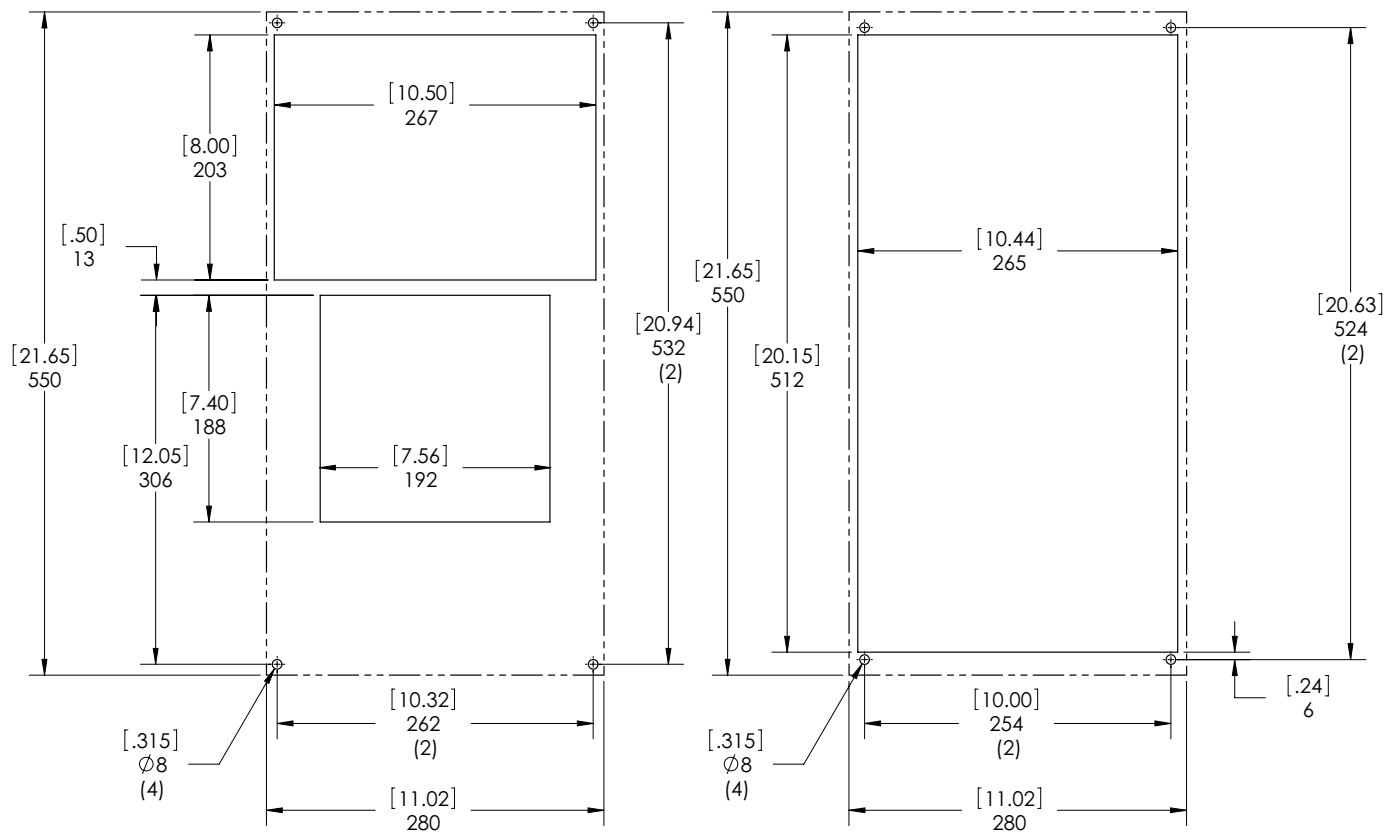
SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 500 WATT MODEL



SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 500 WATT MODEL



Surface Mount

Partial and Full Recess Mount

500W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 1000 WATT MODEL

Note: Items with * are in stock. Lead time 2 weeks

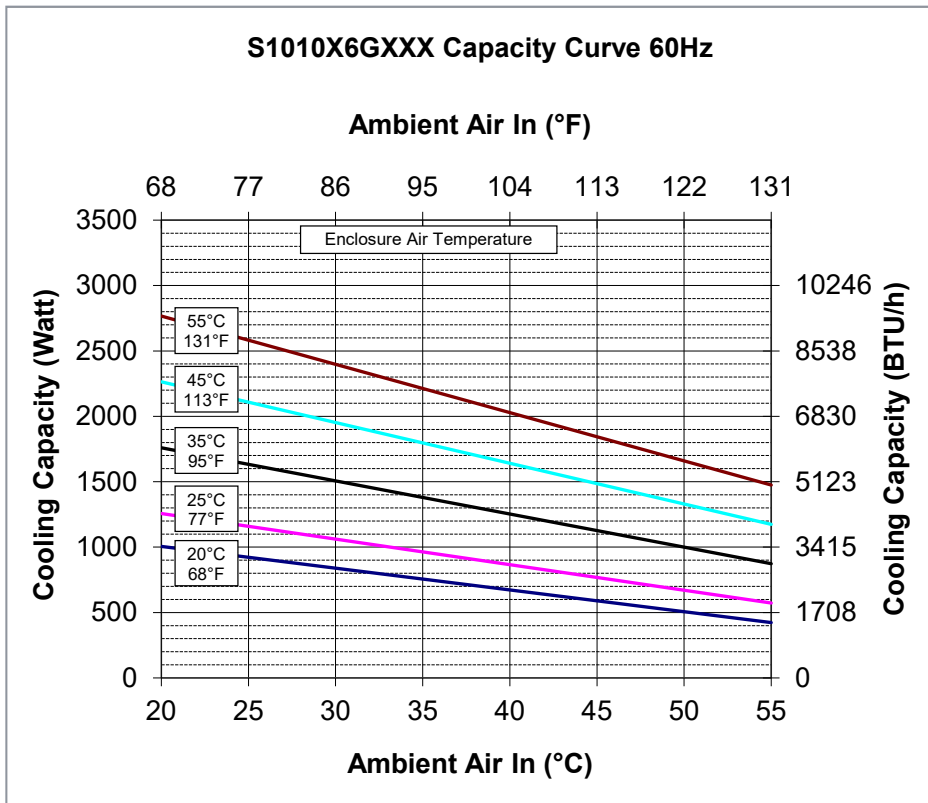
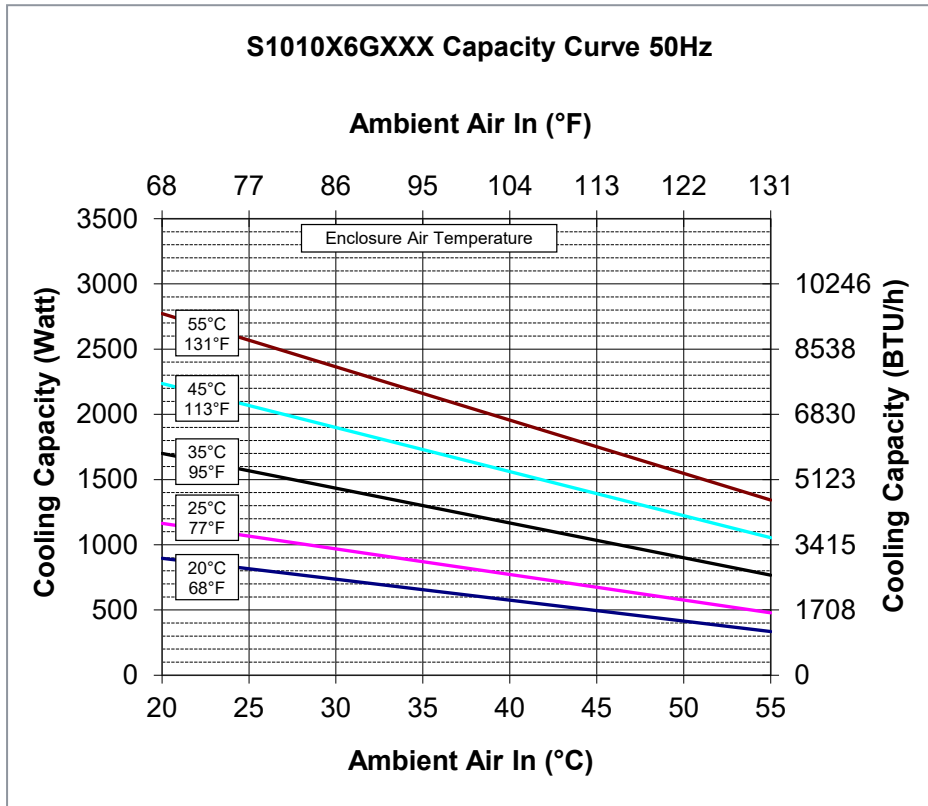
THREE MOUNTING OPTIONS

Unit Reference	1000W 115V	1000W 230V	1000W 400/460V 1~
Item number			
Indoor Model without Comm-Board	S101016G031	S101026G031*	S101046G031
Indoor Model with Comm-Board	S101016G041	S101026G041	S101046G041
COOLING PERFORMANCE			
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	1300	1300	1300
Cooling Performance L35 L35 (Watt) 50/60Hz	1300/1380	1300/1380	1300/1380
Cooling Performance L35 L50 (Watt) 50/60Hz	900/1000	900/1000	900/1000
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	425	283	283
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28	28
Operating Temperature Range Min./Max. °C	10/55	10/55	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	350/391	350/391	350/391
External Loop (m³/h)	567/584	567/584	567/584
Duty Cycle	100%	100%	100%
ELECTRICAL DATA			
Rated Voltage (Volt)	115	230	400/460
Phase	1~	1~	1~
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	810/1010	670/800	750/960
Max Power Consumption L35 L50 (Watt) 50/60Hz	950/1120	780/950	870/1090
Max. Nominal Current (Amps)	9.6/10.2	4.1/5.5	2.1/2.4
Starting Current (Amps)	32/34	14/18	7/8
Pre-fuse T (Amps)	15	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511			
Cooling Performance L35 L35 50/60Hz	1.60/1.37	1.94/1.73	1.73/1.44
Cooling Performance L35 L50 50/60Hz	0.95/0.89	1.15/1.05	1.03/0.92
ENCLOSURE PROTECTION			
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54	IP34/IP54
CONTROLLER			
Description	Smart controller with display	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C	35 °C
SOUND LEVEL			
At 1 M (dBA)	71	71	71
UNIT CONSTRUCTION			
Material	Steel	Steel	Steel
Finish	RAL 7035	RAL 7035	RAL 7035
UNIT DIMENSIONS			
Height (mm)	951	951	951
Width (mm)	400	400	400
Depth (mm)	260	260	260
Weight (kg)	39	39	45

SPECTRACOOL Slim Fit

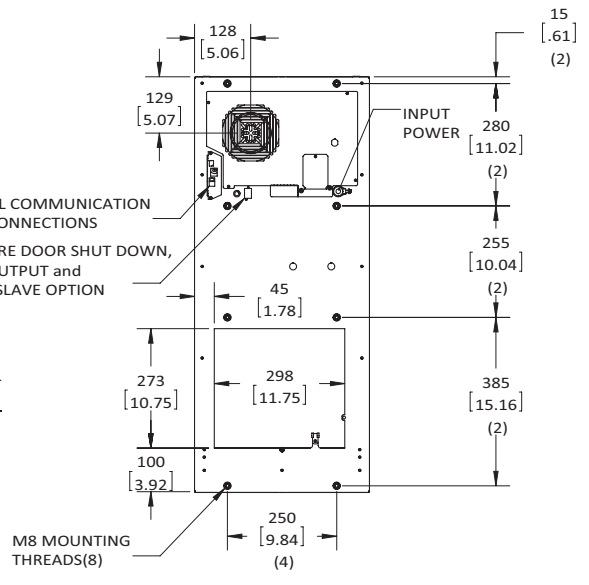
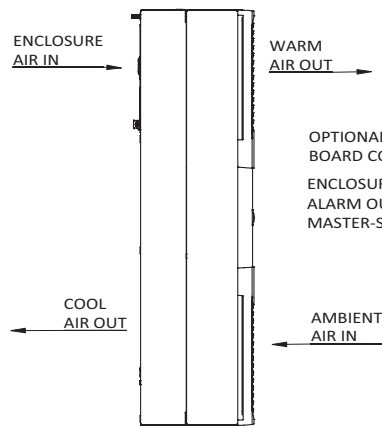
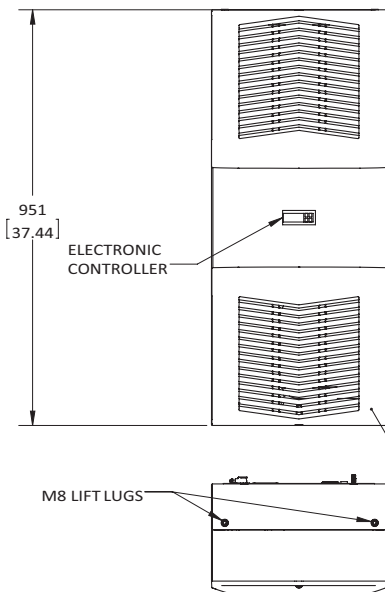
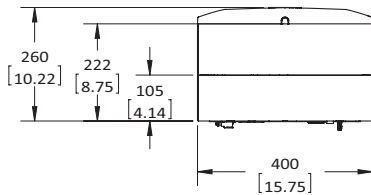
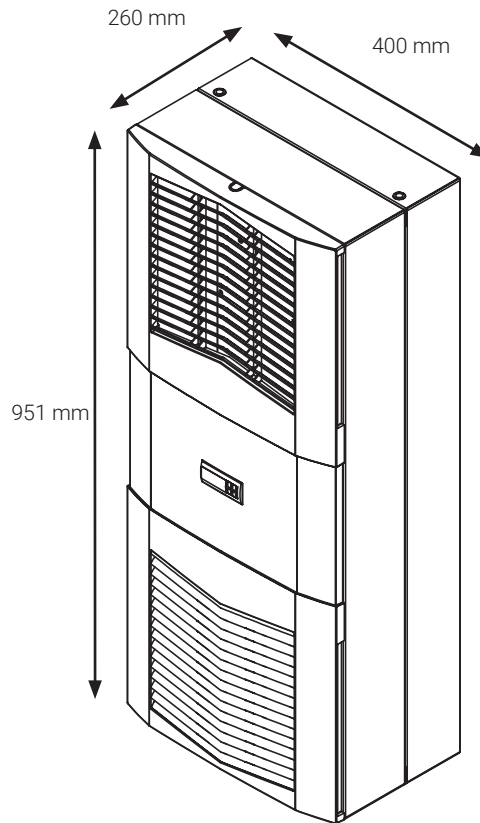
SPECTRACOOL SLIM FIT – 1000 WATT MODEL

PERFORMANCE CURVES FOR 1000W MODELS ACCORDING TO EN 14511



SPECTRACOOL Slim Fit

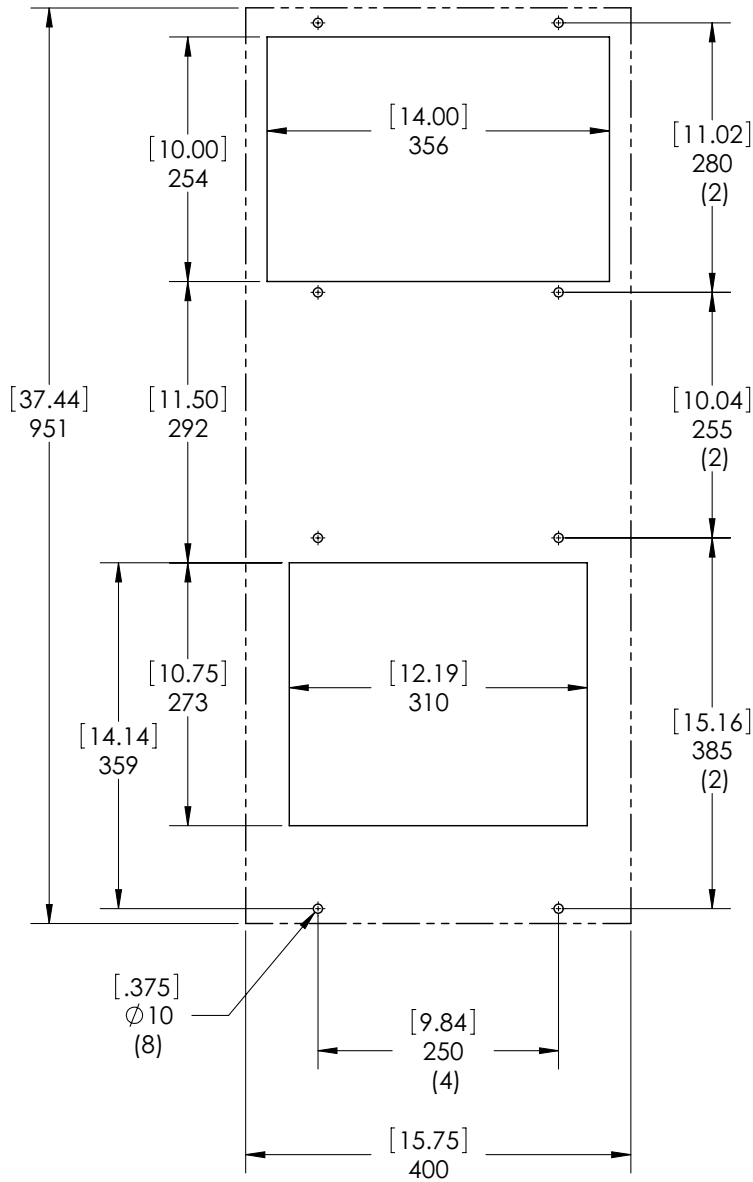
SPECTRACOOL SLIM FIT – 1000 WATT MODEL



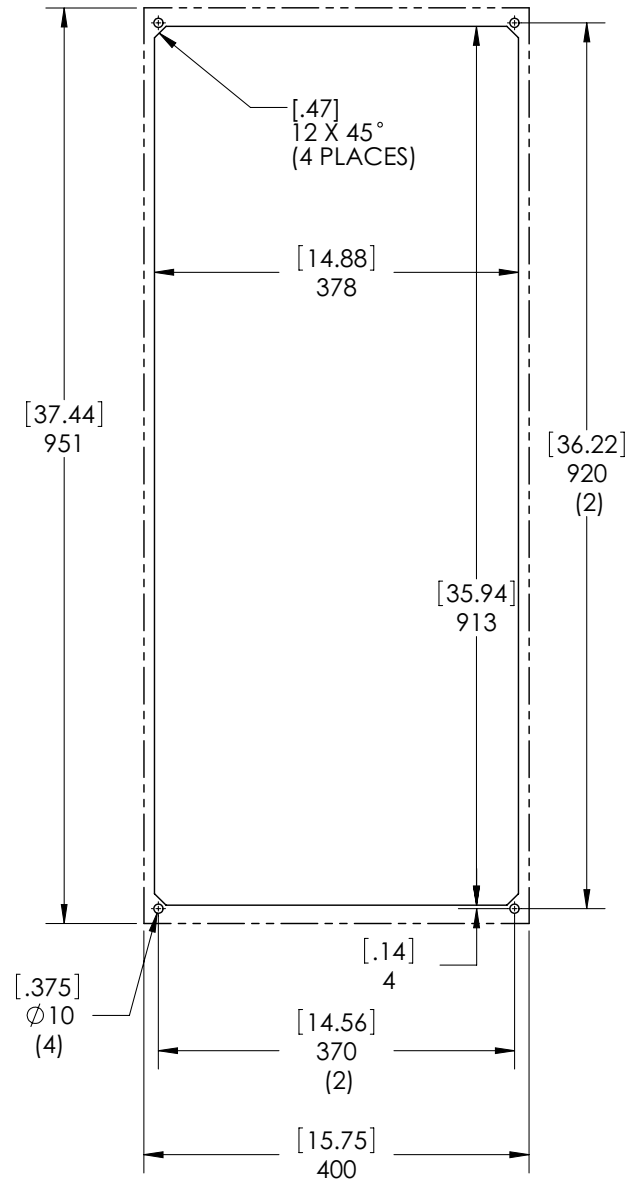
OPTIONAL, FIELD-INSTALLED, CLEANABLE REUSABLE, ALUMINUM INLET FILTER MOUNTS BEHIND PLASTIC LOUVER

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 1000 WATT MODEL



Surface Mount



Partial and Full Recess Mount

1000W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 1500 WATT MODEL

Note: Items with * are in stock. Lead time 2 weeks

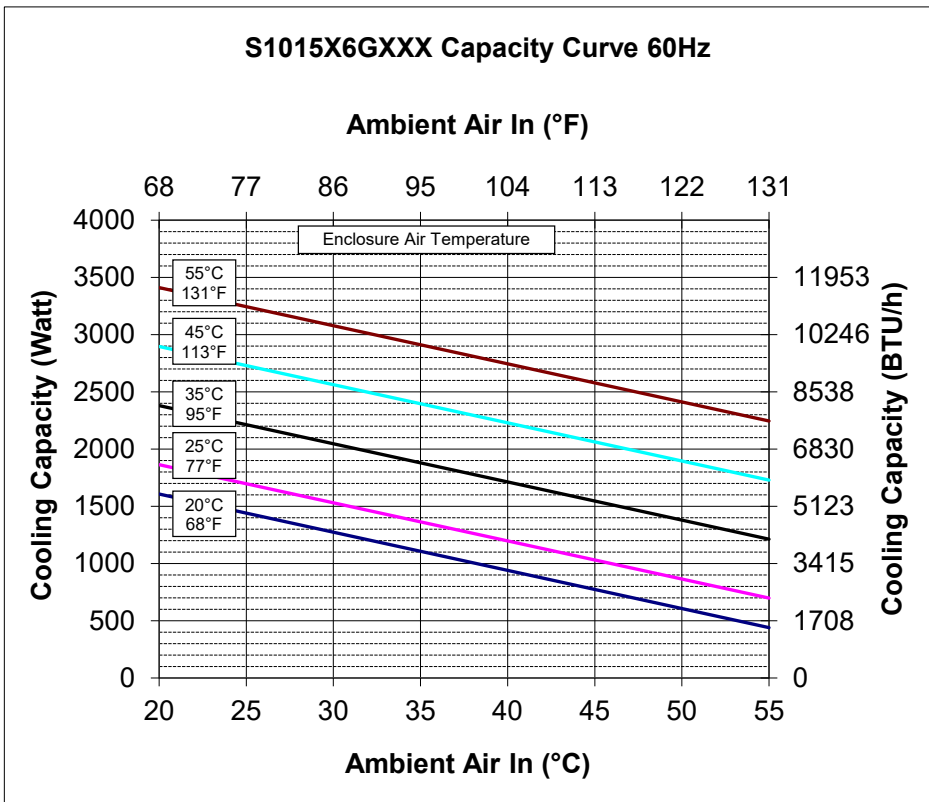
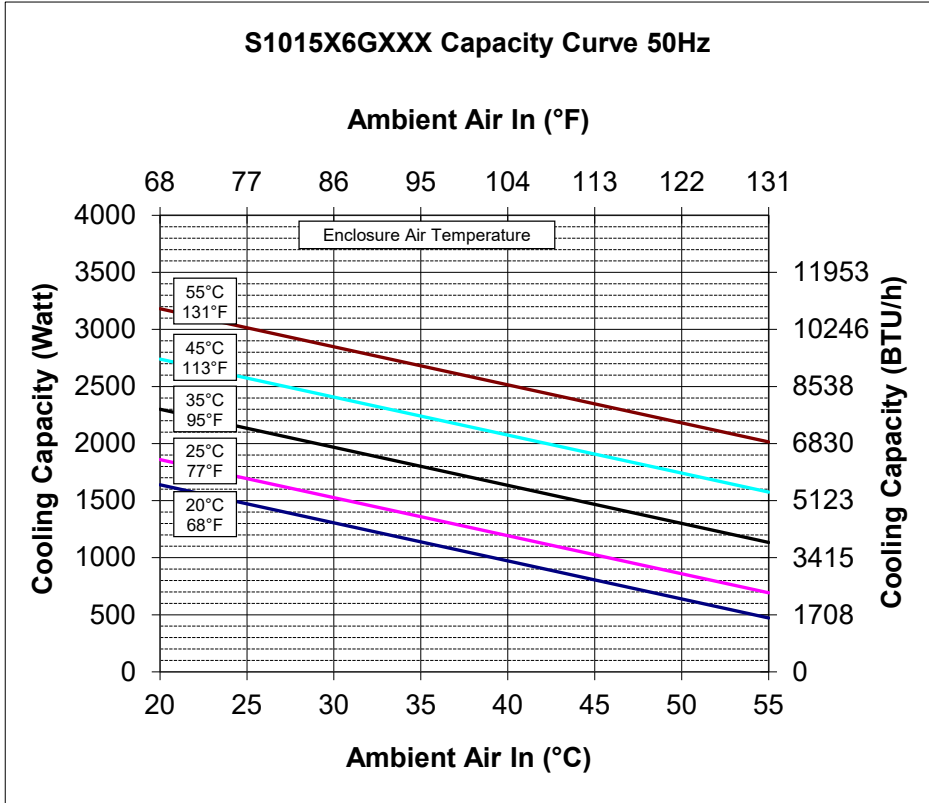
THREE MOUNTING OPTIONS

Unit Reference	1500W 115V	1500W 230V	1500W 400/460V 3~
Item number			
Indoor Model without Comm-Board	S101516G031	S101526G031*	S101546G031
Indoor Model with Comm-Board	S101516G041	S101526G041	S101546G041
COOLING PERFORMANCE			
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	1800	1800	1800
Cooling Performance L35 L35 (Watt) 50/60Hz	1800/1880	1800/1880	1800/1880
Cooling Performance L35 L50 (Watt) 50/60Hz	1300/1380	1300/1380	1300/1380
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	425	425	510
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28	28
Operating Temperature Range Min./Max. °C	10/55	10/55	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	342/391	342/391	342/391
External Loop (m³/h)	576/579	576/579	576/579
Duty Cycle	100%	100%	100%
ELECTRICAL DATA			
Rated Voltage (Volt)	115	230	400/460
Phase	1~	1~	3~
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	850/1040	850/1040	930/1130
Max Power Consumption L35 L50 (Watt) 50/60Hz	990/1160	960/1170	970/1210
Max. Nominal Current (Amps)	9.6/10.2	5,1/6.7	2.1/2.4
Starting Current (Amps)	32/34	17/22	7/8
Pre-fuse T (Amps)	15	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511			
Cooling Performance L35 L35 50/60Hz	2.12/1.81	2.12/1.81	1.94/1.66
Cooling Performance L35 L50 50/60Hz	1.31/1.19	1.35/1.18	1.34/1.14
ENCLOSURE PROTECTION			
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54	IP34/IP54
CONTROLLER			
Description	Smart controller with display	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C	35 °C
SOUND LEVEL			
At 1 M (dBA)	73	73	73
UNIT CONSTRUCTION			
Material	Steel	Steel	Steel
Finish	RAL 7035	RAL 7035	RAL 7035
UNIT DIMENSIONS			
Height (mm)	951	951	951
Width (mm)	400	400	400
Depth (mm)	260	260	260
Weight (kg)	43	43	43

SPECTRACOOL Slim Fit

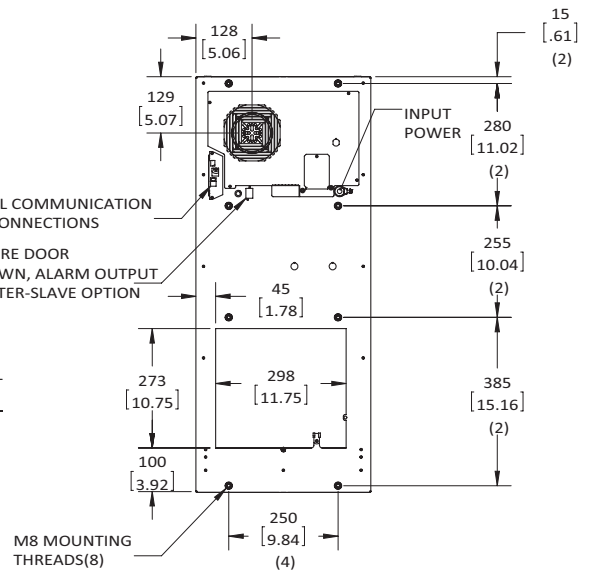
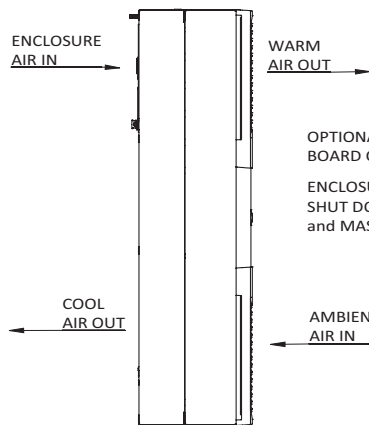
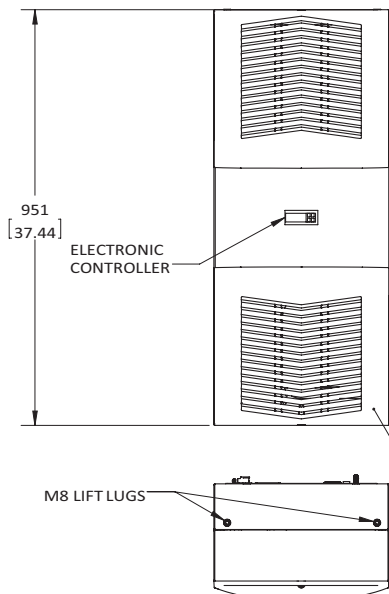
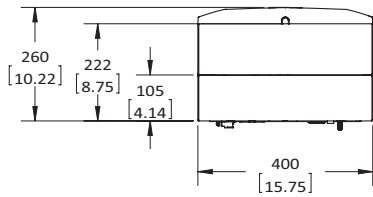
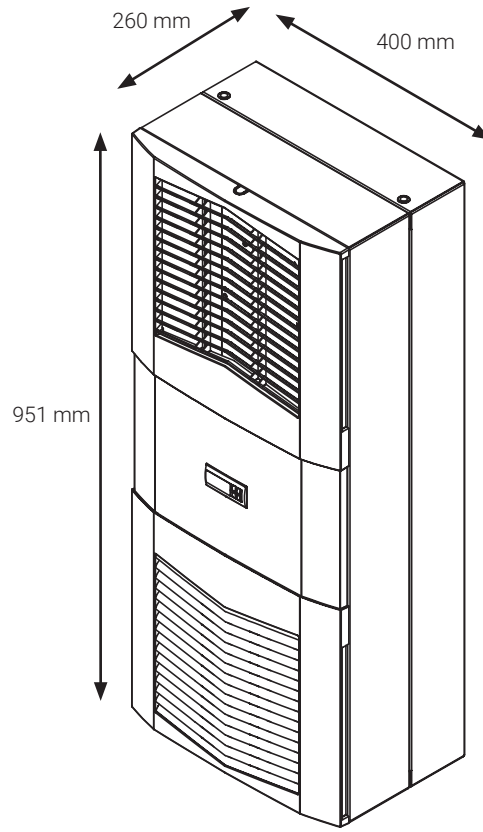
SPECTRACOOL SLIM FIT – 1500 WATT MODEL

PERFORMANCE CURVES FOR 1500W MODELS ACCORDING TO EN 14511



SPECTRACOOL Slim Fit

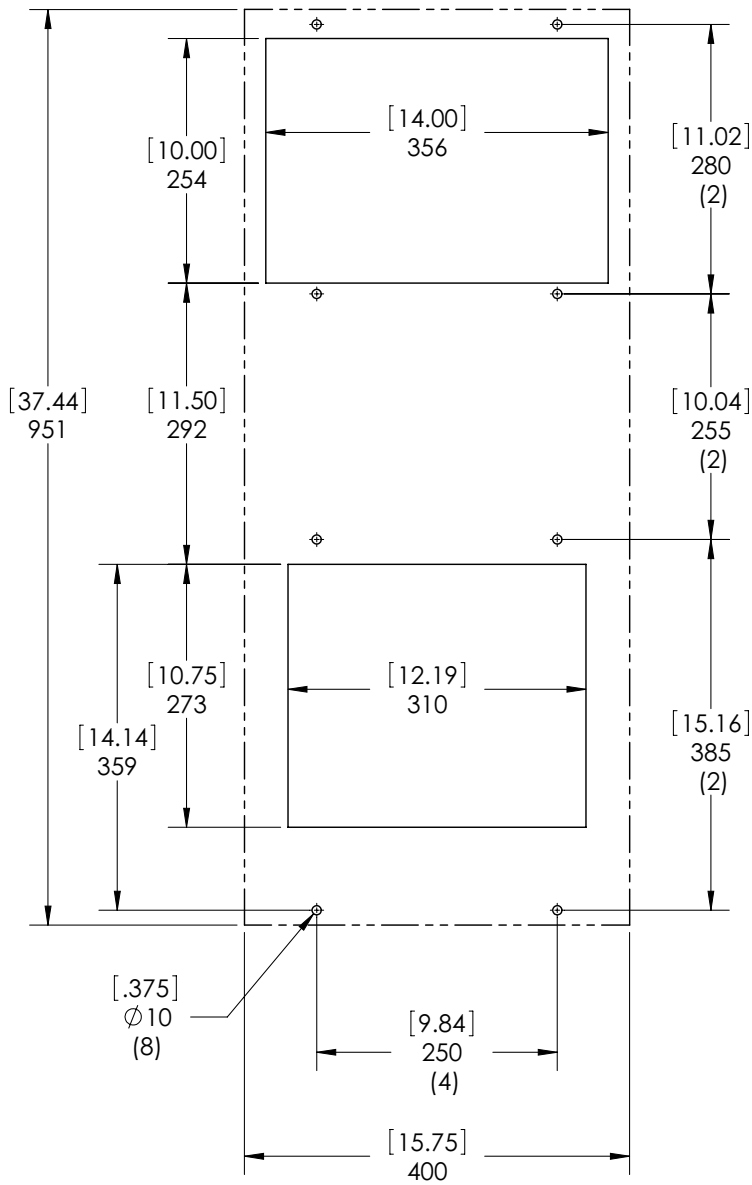
SPECTRACOOL SLIM FIT – 1500 WATT MODEL



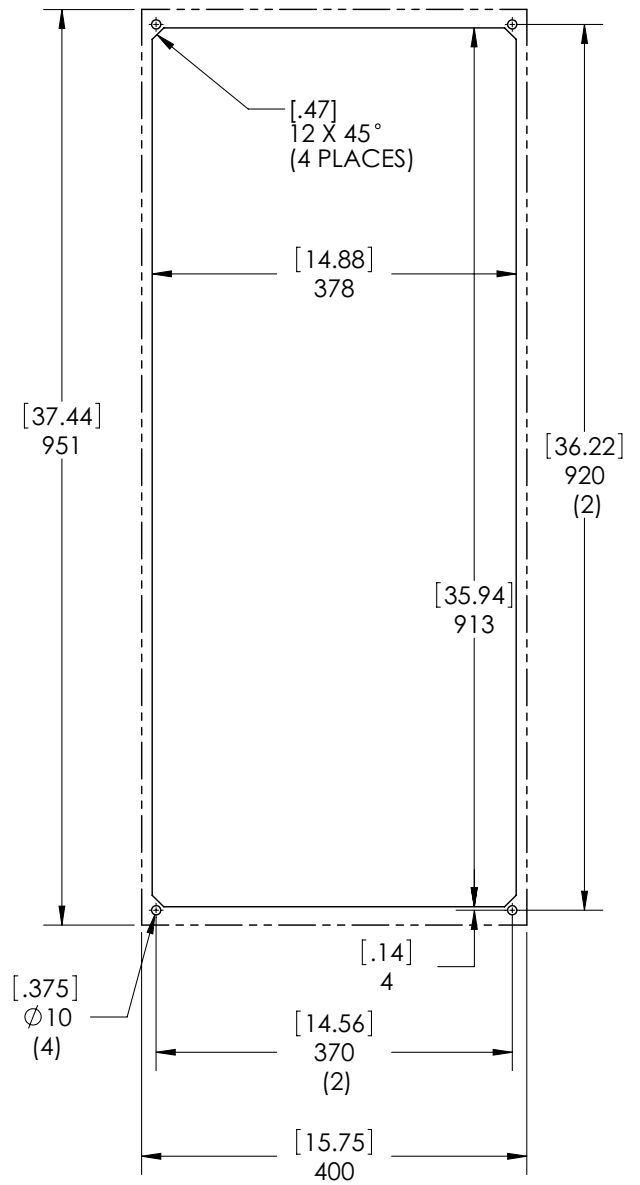
OPTIONAL, FIELD-INSTALLED, CLEANABLE REUSABLE, ALUMINUM INLET FILTER MOUNTS BEHIND PLASTIC LOUVER

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 1500 WATT MODEL



Surface Mount



Partial and Full Recess Mount

1500W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2000 WATT MODEL

Note: Items with * are in stock. Lead time 2 weeks

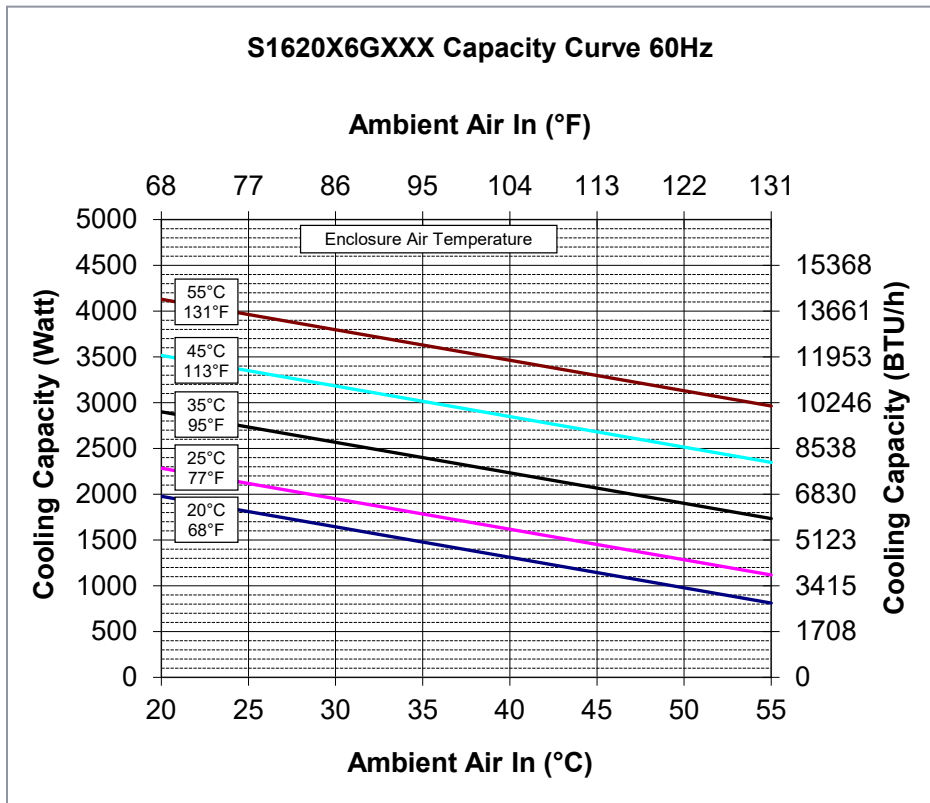
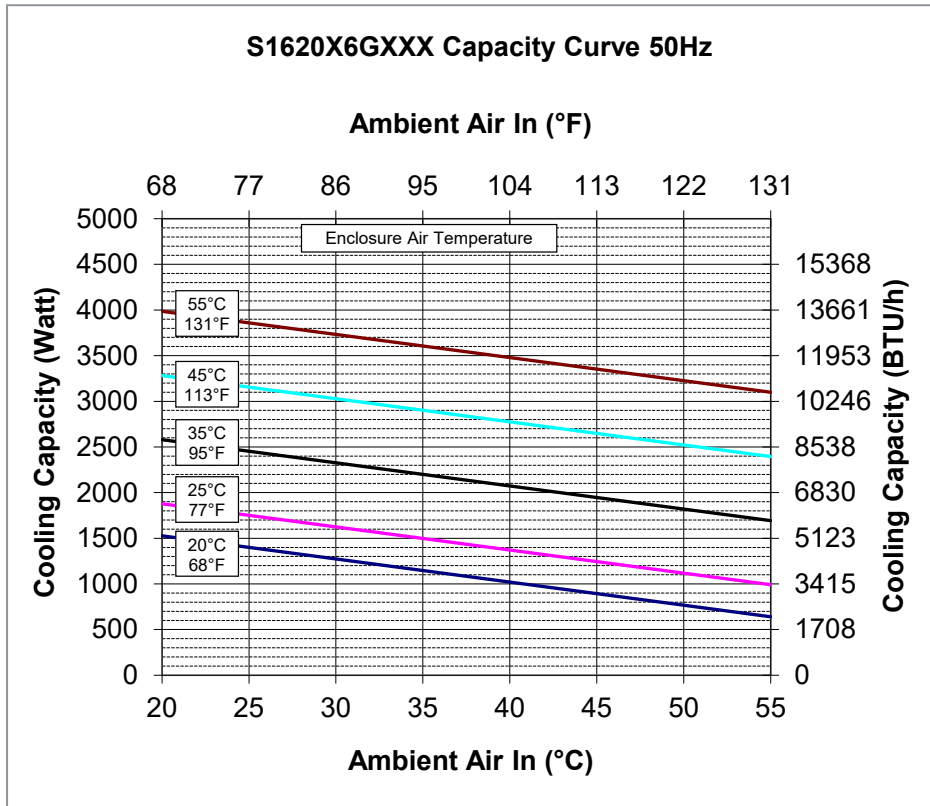
THREE MOUNTING OPTIONS

Unit Reference	2000W 115V	2000W 230V	2000W 400/460V 3~
Item Number			
Indoor Model without Comm-Board	S162016G031	S162026G031*	S162046G031
Indoor Model with Comm-Board	S162016G041	S162026G041	S162046G041
COOLING PERFORMANCE			
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	2200	2200	2200
Cooling Performance L35 L35 (Watt) 50/60Hz	2200/2400	2200/2400	2200/2400
Cooling Performance L35 L50 (Watt) 50/60Hz	1820/1900	1820/1900	1820/1900
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	709	709	709
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28	28
Operating Temperature Range Min./Max. °C	10/55	10/55	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	454/484	454/484	454/484
External Loop (m³/h)	634/654	634/654	634/654
Duty Cycle	100%	100%	100%
ELECTRICAL DATA			
Rated Voltage (Volt)	115	230	400/460
Phase	1~	1~	3~
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	930/1090	940/1140	900/1180
Max Power Consumption L35 L50 (Watt) 50/60Hz	1280/1410	1070/1320	1060/1340
Max. Nominal Current (Amps)	11.1/12.5	5.7/7.2	2.2/2.6
Starting Current (Amps)	37/41	19/24	7/9
Pre-fuse T (Amps)	15	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511			
Cooling Performance L35 L35 50/60Hz	2.37/2.20	2.34/2.11	2.44/2.03
Cooling Performance L35 L50 50/60Hz	1.42/1.35	1.70/1.44	1.72/1.42
ENCLOSURE PROTECTION			
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54	IP34/IP54
CONTROLLER			
Description	Smart controller with display	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C	35 °C
SOUND LEVEL			
At 1 M (dBA)	70	70	70
UNIT CONSTRUCTION			
Material	Steel	Steel	Steel
Finish	RAL 7035	RAL 7035	RAL 7035
UNIT DIMENSIONS			
Height (mm)	1580	1580	1580
Width (mm)	400	400	400
Depth (mm)	295	295	295
Weight (kg)	68	68	68

SPECTRACOOL Slim Fit

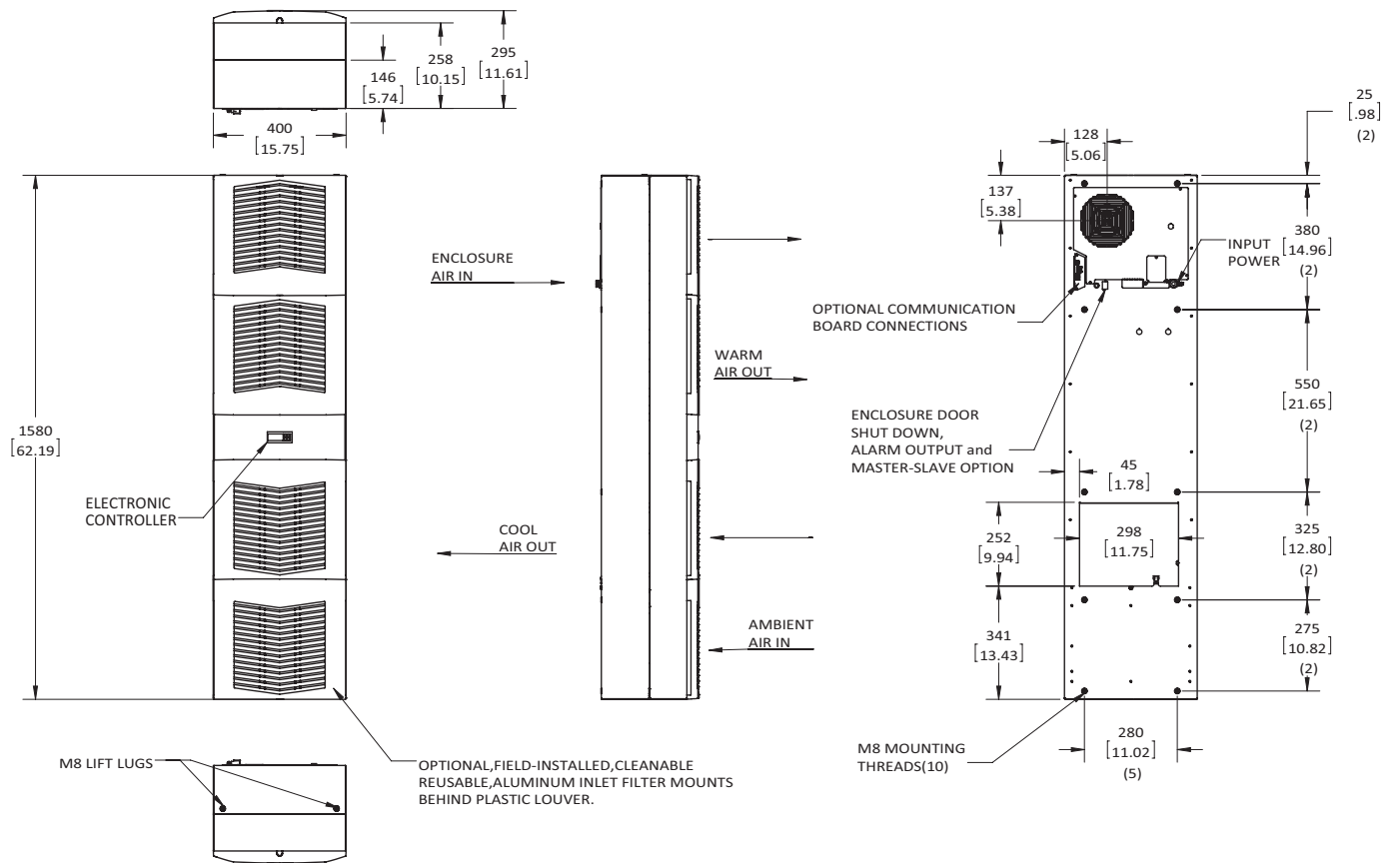
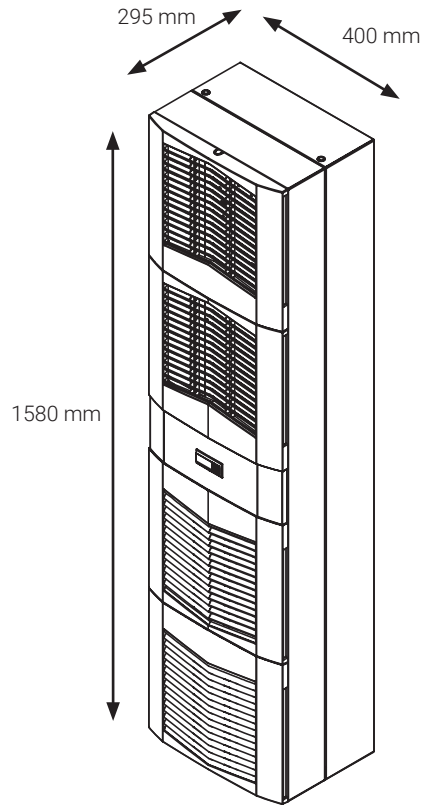
SPECTRACOOL SLIM FIT – 2000 WATT MODEL

PERFORMANCE CURVES FOR 2000W MODELS ACCORDING TO EN 14511



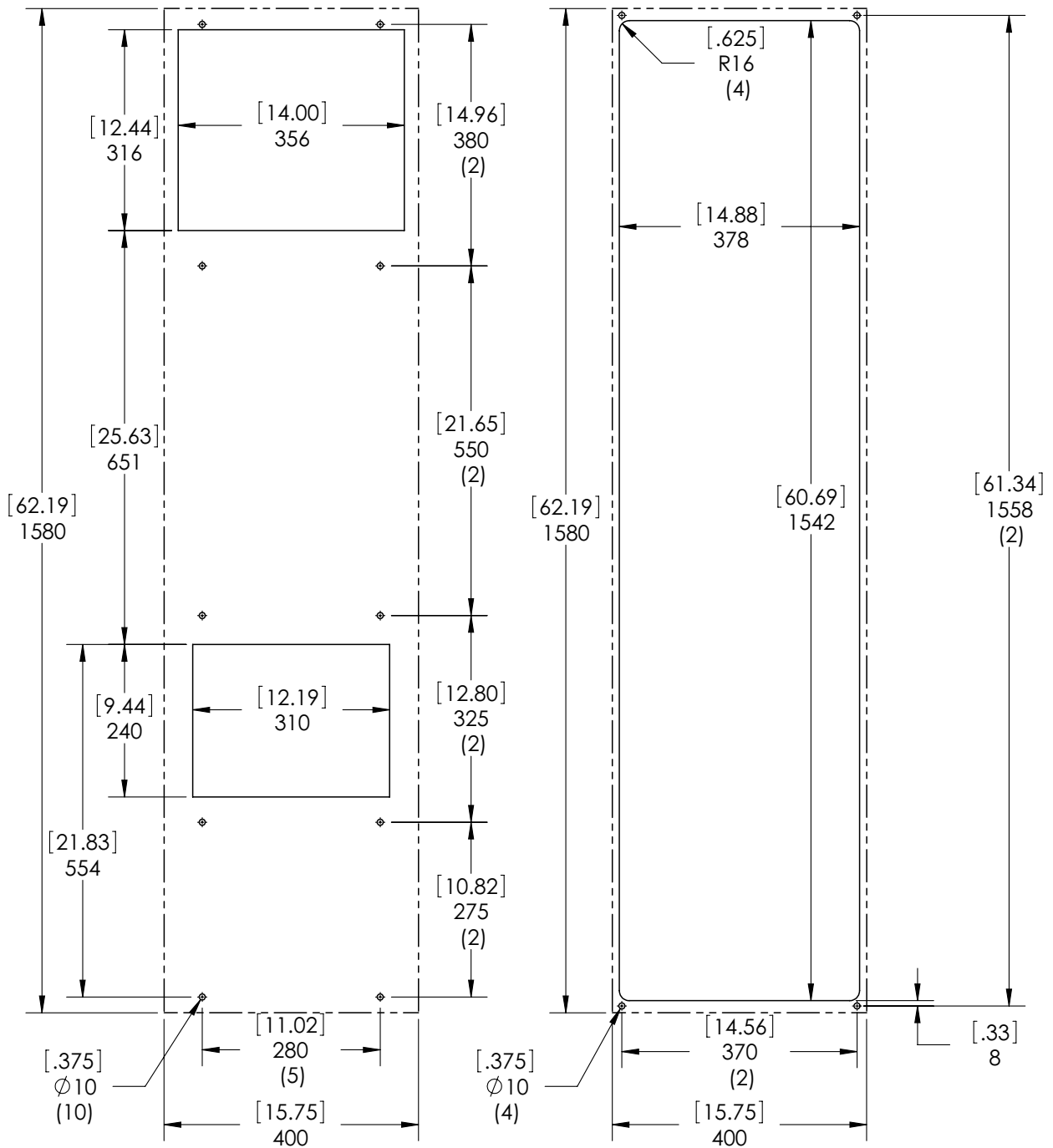
SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2000 WATT MODEL



SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2000 WATT MODEL



Surface Mount

Partial and Full Recess Mount

2000W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2500 WATT MODEL

Note: Lead Time - 16 weeks

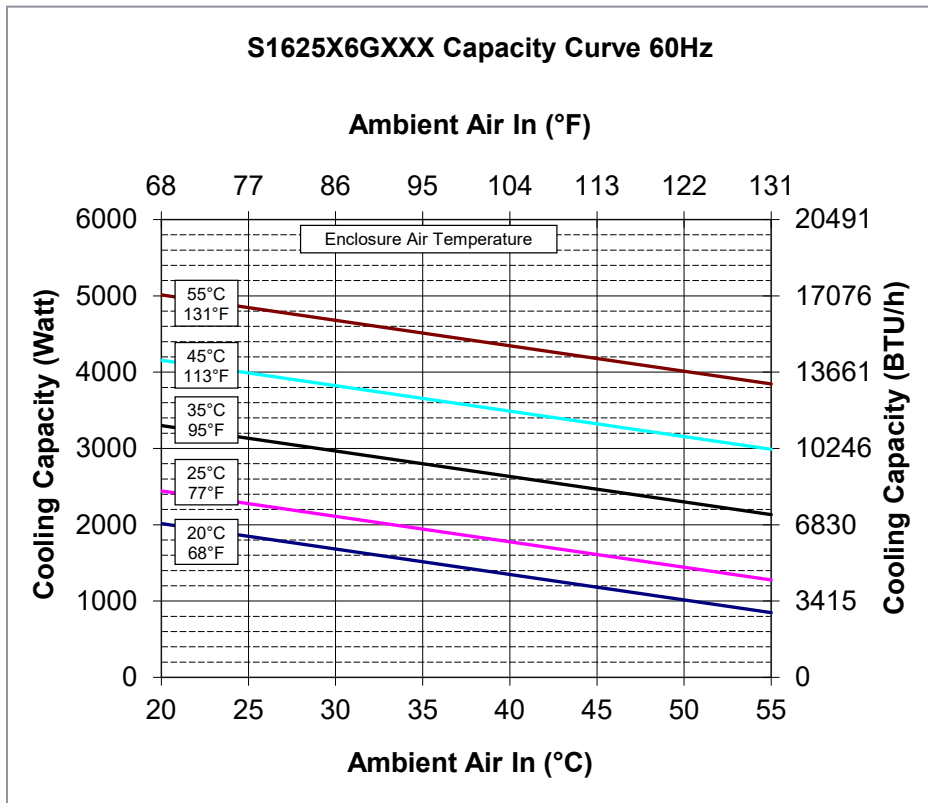
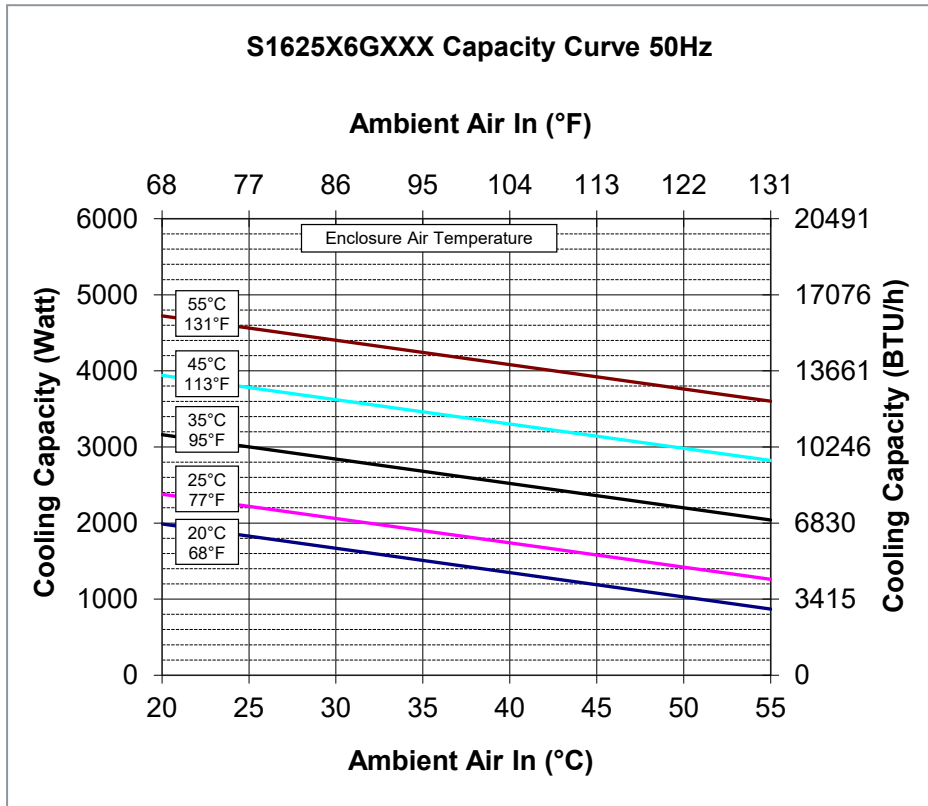
THREE MOUNTING OPTIONS

Unit Reference	2500W 115V	2500W 230V	2500W 400/460V 3~
Item number			
Indoor Model without Comm-Board	S162516G031	S162526G031	S162546G031
Indoor Model with Comm-Board	S162516G041	S162526G041	S162546G041
COOLING PERFORMANCE			
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	2680	2680	2680
Cooling Performance L35 L35 (Watt) 50/60Hz	2680/2800	2680/2800	2680/2800
Cooling Performance L35 L50 (Watt) 50/60Hz	2200/2300	2200/2300	2200/2300
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	737	737	850
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28	28	28
Operating Temperature Range Min./Max. °C	10/55	10/55	10/55
Setting Temperature Range Min./Max. °C	20/55	20/55	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	447/466	447/466	447/466
External Loop (m³/h)	1104/1143	1104/1143	1104/1143
Duty Cycle	100%	100%	100%
ELECTRICAL DATA			
Rated Voltage (Volt)	115	230	400/460
Phase	1~	1~	3~
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	1230/1420	1320/1650	1150/1510
Max Power Consumption L35 L50 (Watt) 50/60Hz	1500/1970	1500/1910	1330/1770
Max. Nominal Current (Amps)	16.1/16.9	8.0/10.1	3.2/3.4
Starting Current (Amps)	53/56	26/33	11/11
Pre-fuse T (Amps)	20	15	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511			
Cooling Performance L35 L35 50/60Hz	2.18/1.97	2.03/1.70	2.33/1.85
Cooling Performance L35 L50 50/60Hz	1.47/1.17	1.47/1.20	1.65/1.30
ENCLOSURE PROTECTION			
IP Code (External Loop/Internal Loop)	IP34/IP54	IP34/IP54	IP34/IP54
CONTROLLER			
Description	Smart controller with display	Smart controller with display	Smart controller with display
Thermostat Location	Ambient side	Ambient side	Ambient side
Factory Thermostat Setting (°C)	35 °C	35 °C	35 °C
SOUND LEVEL			
At 1 M (dBA)	72	72	72
UNIT CONSTRUCTION			
Material	Steel	Steel	Steel
Finish	RAL 7035	RAL 7035	RAL 7035
UNIT DIMENSIONS			
Height (mm)	1580	1580	1580
Width (mm)	400	400	400
Depth (mm)	295	295	295
Weight (kg)	70	70	70

SPECTRACOOL Slim Fit

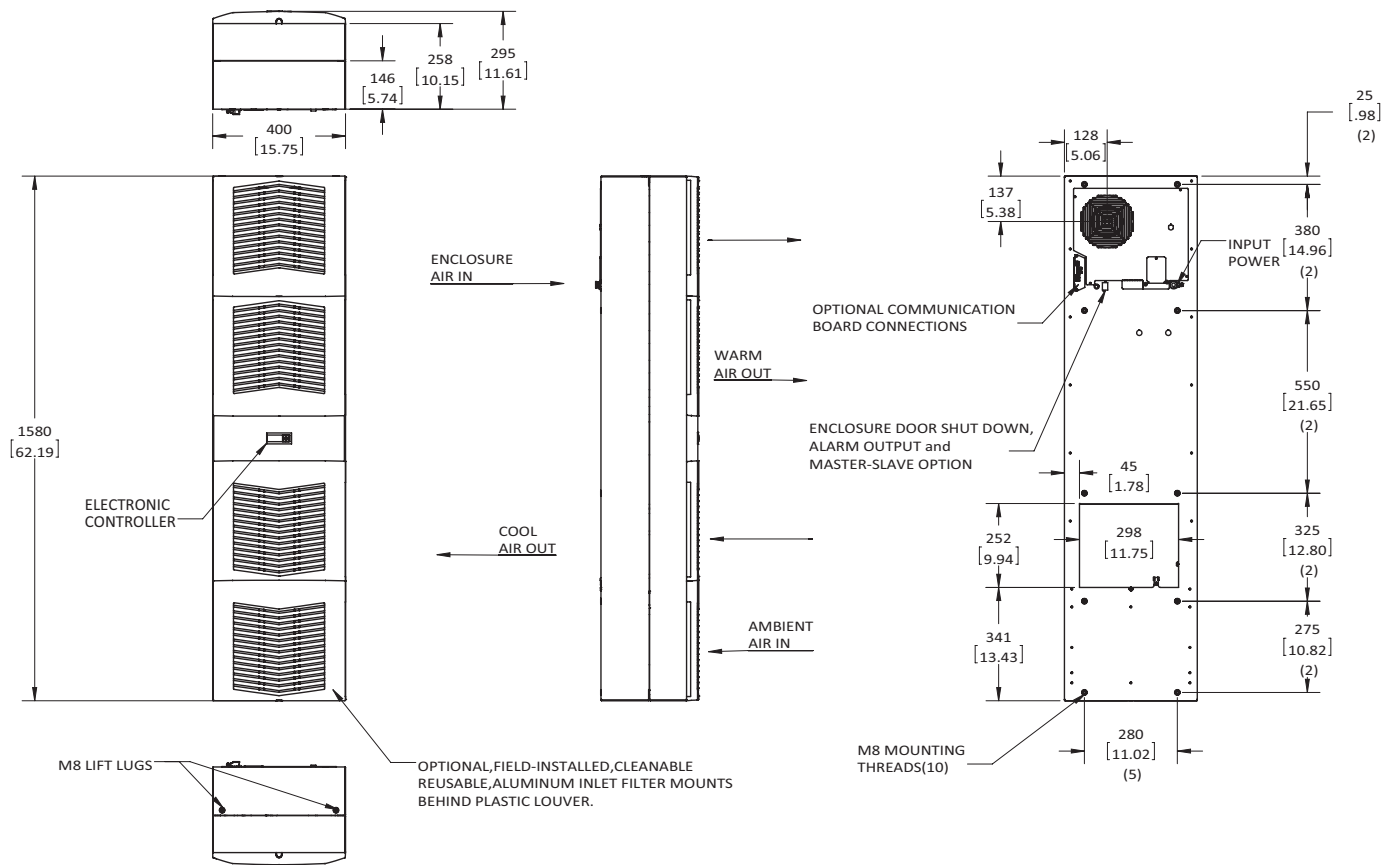
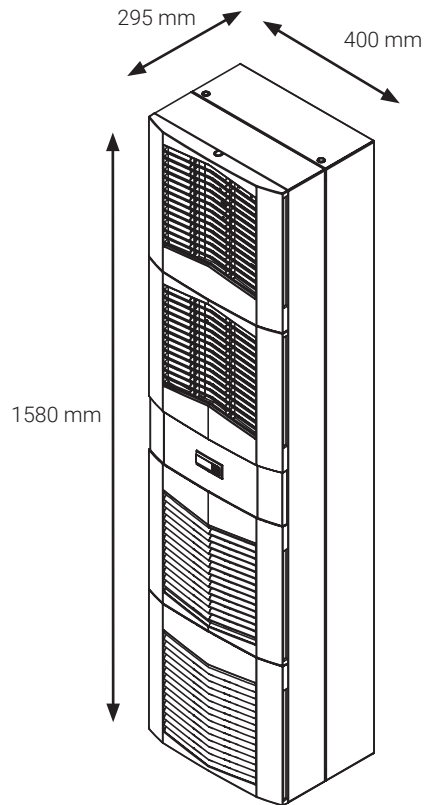
SPECTRACOOL SLIM FIT – 2500 WATT MODEL

PERFORMANCE CURVES FOR 2500W MODELS ACCORDING TO EN 14511



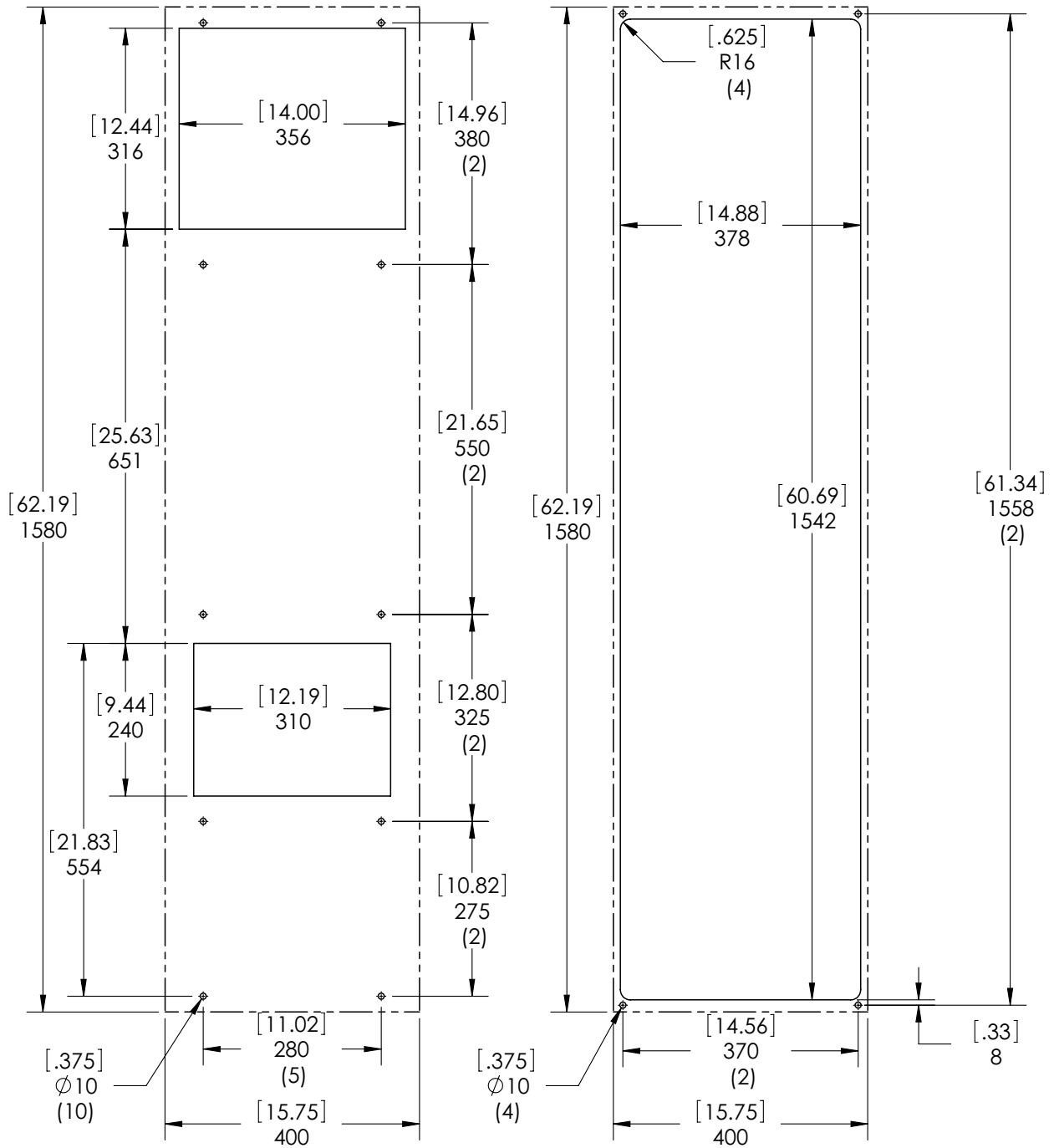
SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2500 WATT MODEL



SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 2500 WATT MODEL



Surface Mount

Partial and Full Recess Mount

2500W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 4000 WATT MODEL

Note: Lead Time - 16 weeks

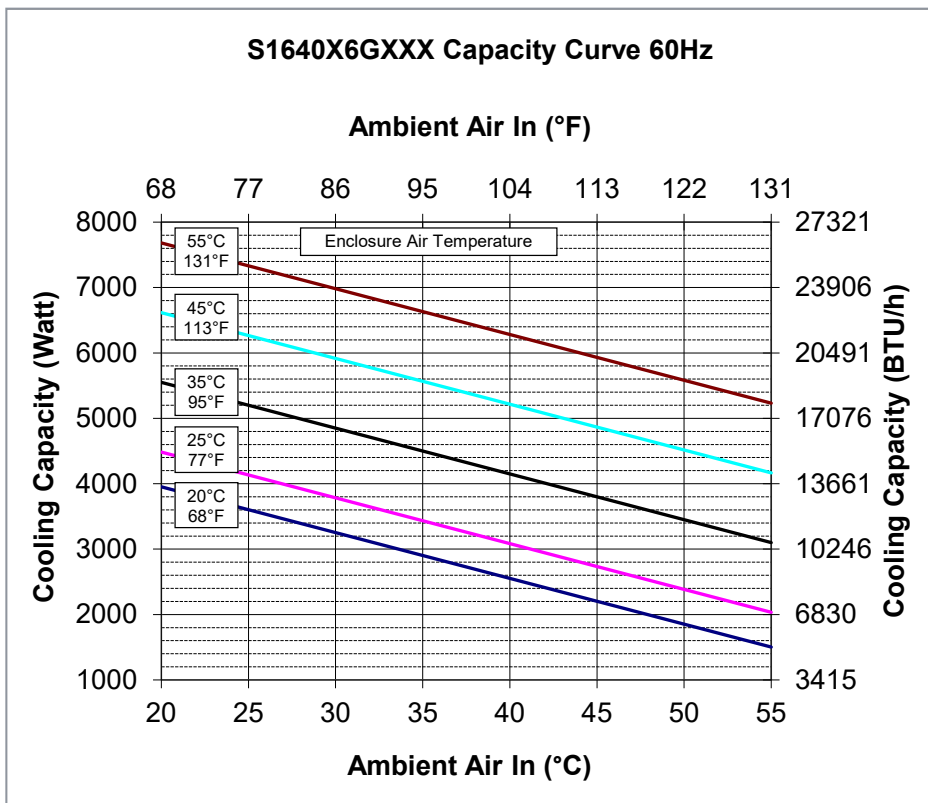
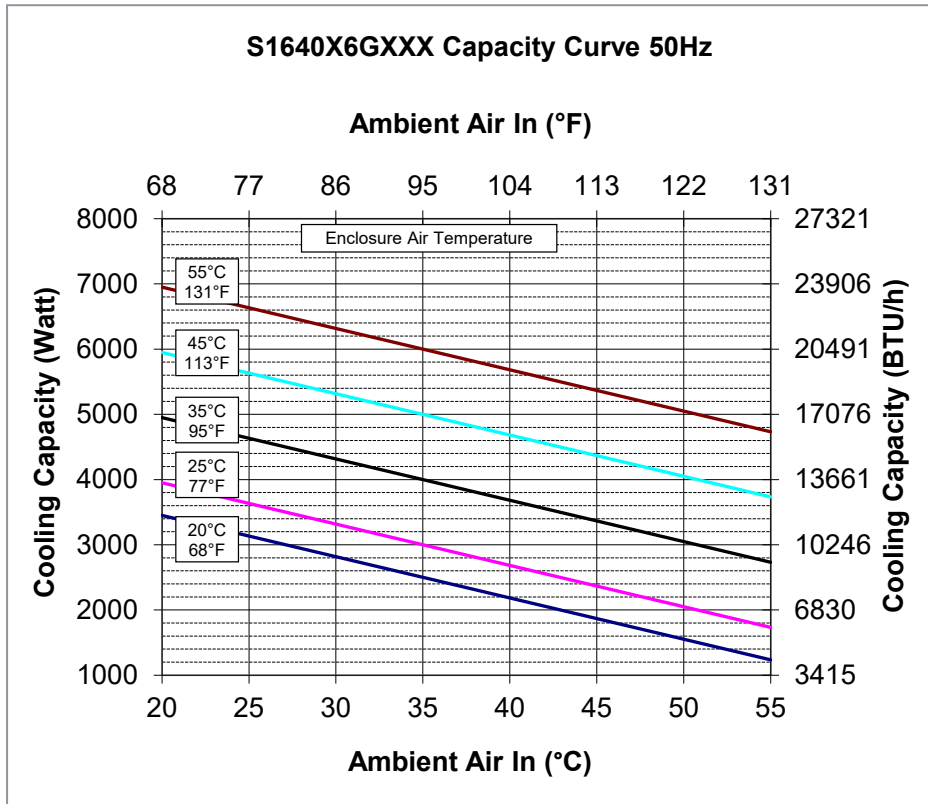
TWO MOUNTING OPTIONS: SURFACE AND PARTIAL RECESS MOUNT

Unit Reference	4000W 400/460V 3~
Item number	
Indoor Model without Comm-Board	S164046G031
Indoor Model with Comm-Board	S164046G041
COOLING PERFORMANCE	
Total L35 L35, 50Hz, according to DIN EN 14511 (Watt)	4000
Cooling Performance L35 L35 (Watt) 50/60Hz	4000/4500
Cooling Performance L35 L50 (Watt) 50/60Hz	3050/3450
Refrigerant	R134a
Refrigerant Charge (g)	1247
Allowable Operating Pressure Max. allowable operating pressure (p. max.) bar	28
Operating Temperature Range Min./Max. °C	10/55
Setting Temperature Range Min./Max. °C	20/55
Airflow at 0 Static Pressure Internal Loop (m³/h)	494/576
External Loop (m³/h)	1070/1184
Duty Cycle	100%
ELECTRICAL DATA	
Rated Voltage (Volt)	400/460
Phase	3~
Frequency (Hz)	50/60
Operating Range	+/- 10%
Max Power Consumption L35 L35 (Watt) 50/60Hz	1543/2073
Max Power Consumption L35 L50 (Watt) 50/60Hz	1719/2296
Max. Nominal Current (Amps)	4.2/4.4
Starting Current (Amps)	14/15
Pre-fuse T (Amps)	15
Agency Approvals	UL-listed, cUL-listed, EAC, CE
Power Input Description	Terminal Block
PERFORMANCE FACTOR (EER), 50/60Hz, DIN EN 14511	
Cooling Performance L35 L35 50/60Hz	2.30/1.93
Cooling Performance L35 L50 50/60Hz	1.65/1.35
ENCLOSURE PROTECTION	
IP Code (External Loop/Internal Loop)	IP34/IP54
CONTROLLER	
Description	Smart controller with display
Thermostat Location	Ambient side
Factory Thermostat Setting (°C)	35 °C
SOUND LEVEL	
At 1 M (dBA)	72
UNIT CONSTRUCTION	
Material	Steel
Finish	RAL 7035
UNIT DIMENSIONS	
Height (mm)	1580
Width (mm)	500
Depth (mm)	340
Weight (kg)	92

SPECTRACOOL Slim Fit

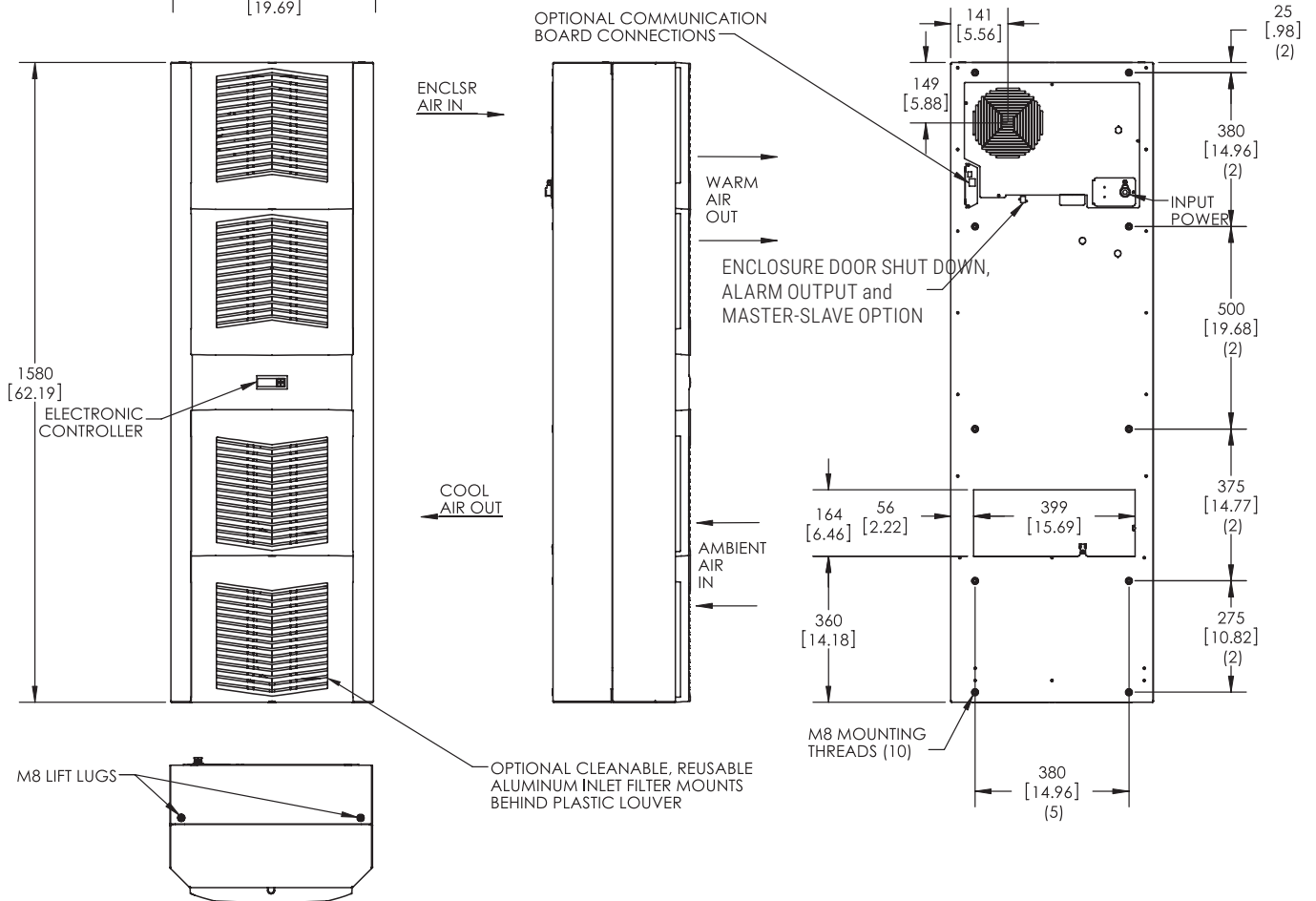
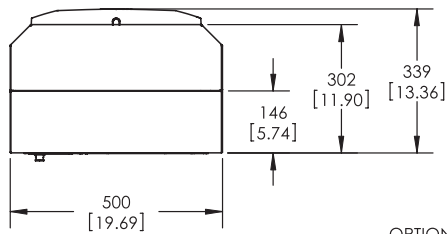
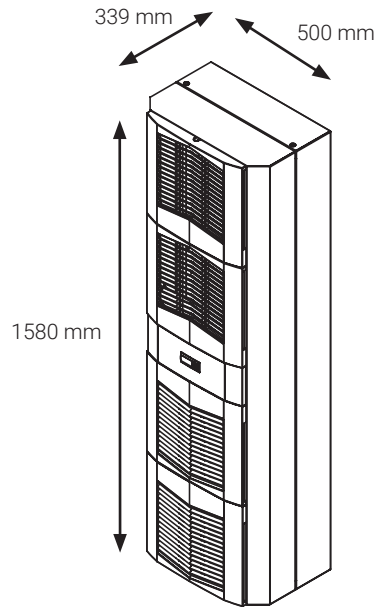
SPECTRACOOL SLIM FIT – 4000 WATT MODEL

PERFORMANCE CURVES FOR 4000W MODELS ACCORDING TO EN 14511



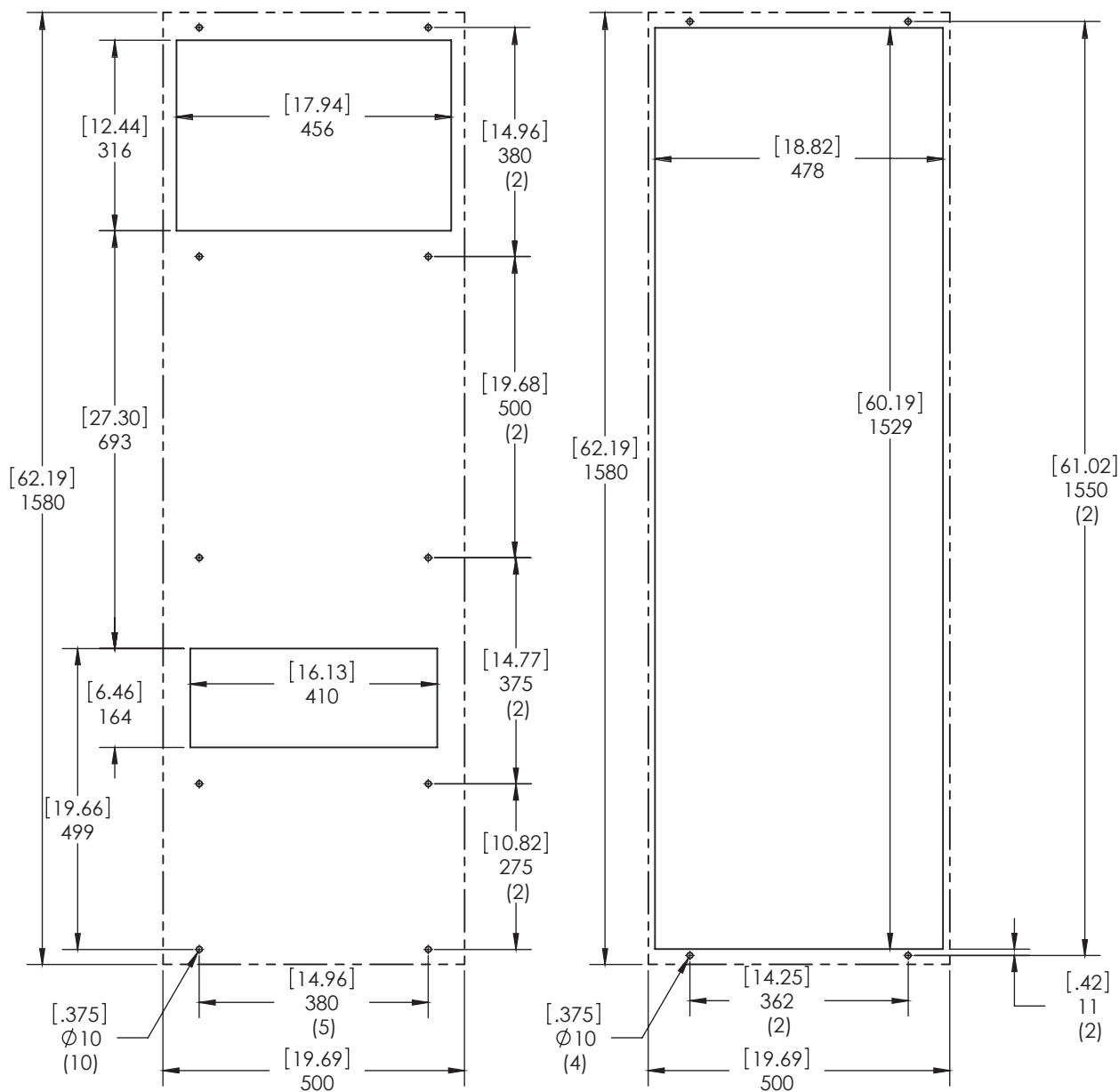
SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 4000 WATT MODEL



SPECTRACOOL Slim Fit

SPECTRACOOL SLIM FIT – 4000 WATT MODEL



Surface Mount

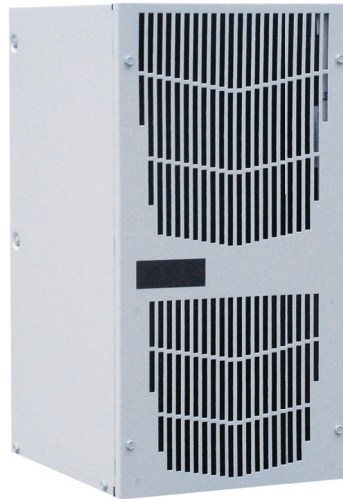
Partial Recess Mount

4000W CUTOUT DRAWING

Dashed Lines Represent The Air Conditioner

V-Series Indoor/Outdoor

V-SERIES COMPACT AIR CONDITIONERS



VA06 Indoor Model
400 and 600 Watts

INDUSTRY STANDARDS

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



APPLICATION

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

SCOPE OF DELIVERY

- Air conditioner unit
- Mounting gasket and hardware kit
- Cutout template
- Installation instruction

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
- 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
- Partial-recessed and surface mount
- Full-size cutout print included with every unit
- Easy access to the optional aluminum filter and other components
- Every unit functionally tested prior to leaving the factory
- R134A earth-friendly refrigerant and RoHS compliant

SPECIFICATIONS

- 400 and 600 nominal Watt
- 230 VAC 50 Hz power input with +/-10 percent operating range
- CE and EAC certifications
- Outdoor AC models also include:
 - Malfunction Switch
 - Compressor heater
 - Compressor head pressure control
 - Enclosure heater 500 W
 - Corrosion resistant components
 - Operating temperature range -40°C - 55°C

FINISH

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

For product general accessories, please refer to the chapter "Accessories".

V-Series Indoor/Outdoor

Note: Items with * are in stock. Lead time 2 weeks

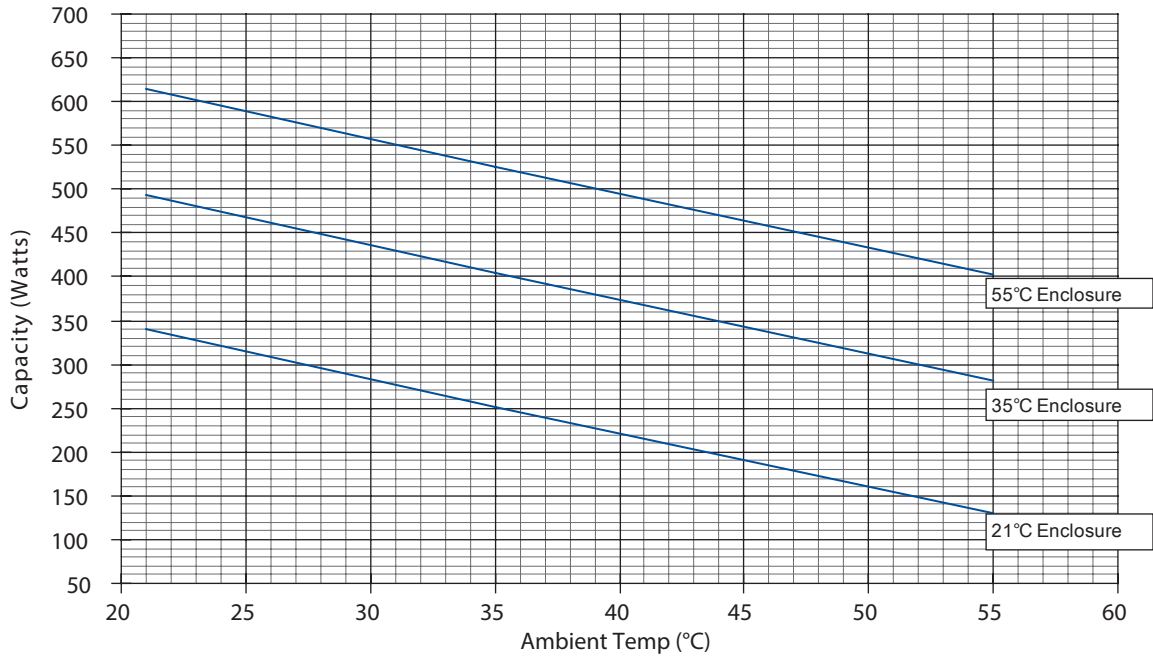
PERFORMANCE DATA 400 W, 600 W

MODEL	400 Watt	600 Watt
Item number		
Indoor Model	VA060325G052A*	VA060625G052A*
Indoor Model Partial Recessed Mount	VA060325G053A	VA060625G053A
Indoor Model with Display and Malfunction Switch	VA060325G059A	VA060625G059A
Outdoor Model with Heat Package	VA060325G152A	VA060625G152A
Outdoor Model with Heater SS 316	VA060325G156A	VA060625G156A
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)	-40/20	-40/20
Airflow at 0 Static Pressure:		
Internal loop (m3/h)	115	180
External loop (m3/h)	325	270
Duty Cycle	100%	100%
Encl. Heater max. Watt (Outdoor Models)	500	500
ELECTRICAL DATA		
Rated Voltage	230	230
Frequency (Hz)	50	50
Operating Range	+/-10%	+/-10%
Max. Power Consumption L35 L35 (Watt)	225	420
Max. Power Consumption L35 L50 (Watt)	285	505
Max. Nominal Current (Amp)	1.5	2.8
Starting Current (Amp)	7	16
Pre-fuse T (Amp)	10	10
Agency Approvals	CE	CE
	EAC	EAC
Power Input Description	Terminal Block	Terminal Block
PERFORMANCE FACTOR L35 L35		
Cooling Performance (Watt)/ Power Consumption (Watt)	1.8	1.4
PERFORMANCE FACTOR L35 L50		
Cooling Performance (Watt)/ Power Consumption (Watt)	1.1	1.0
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
Lead time	1-2 weeks	1-2 weeks

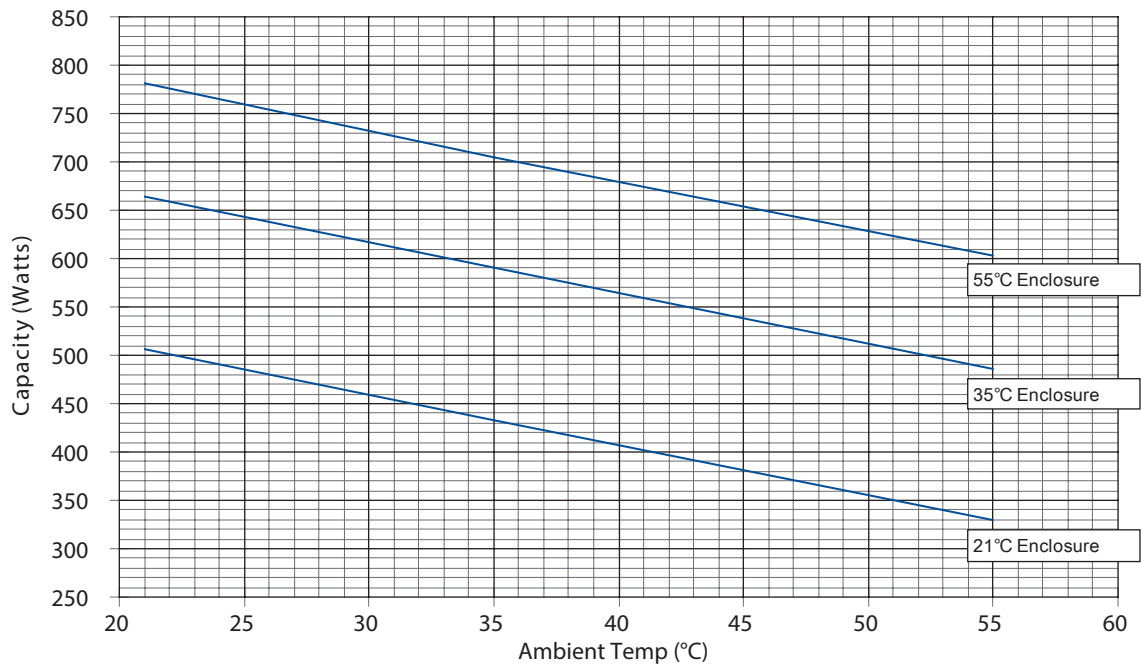
V-Series Indoor/Outdoor

Performance Curves for 400 and 600 Watt Models

VA060325GXXXXA 400 Watt Capacity Curves 230V/50Hz

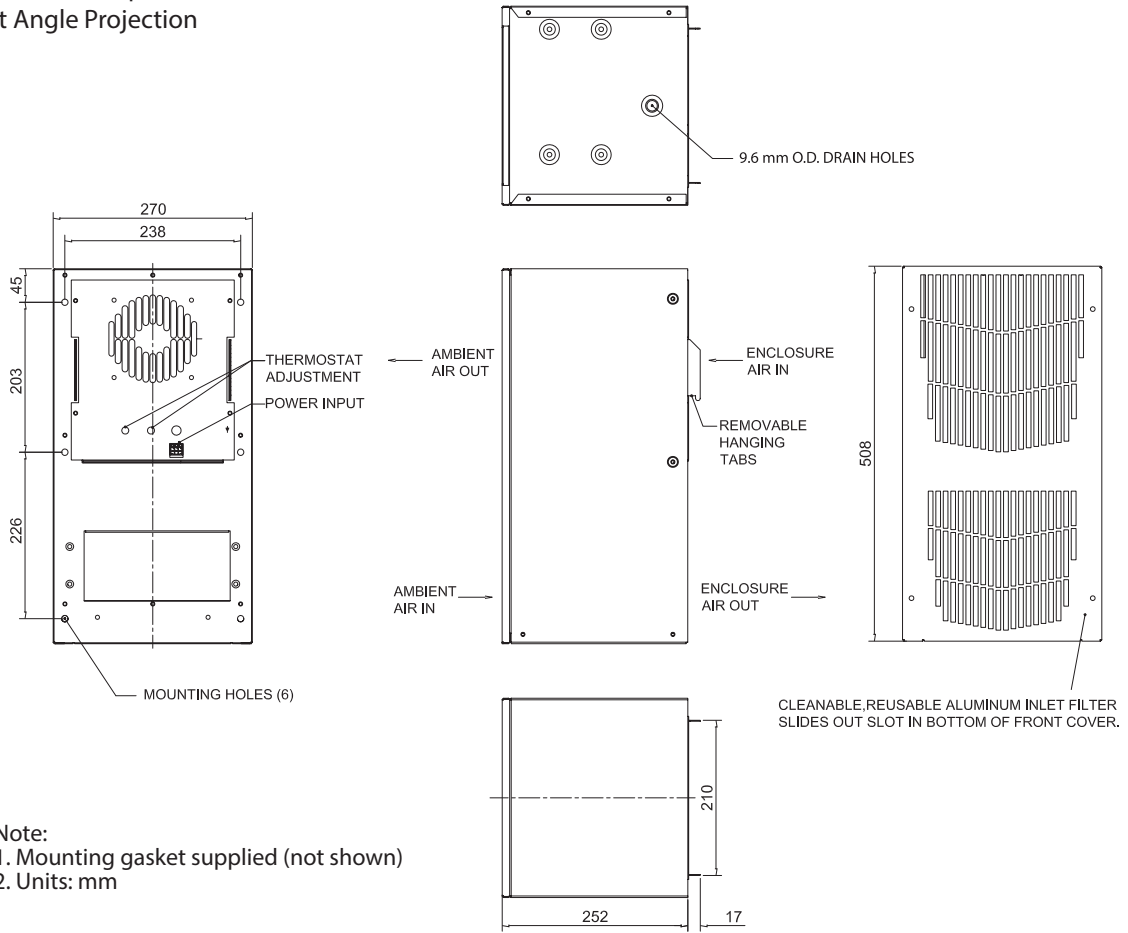


VA060625GXXXXA 600 Watt Capacity Curves 230V/50Hz

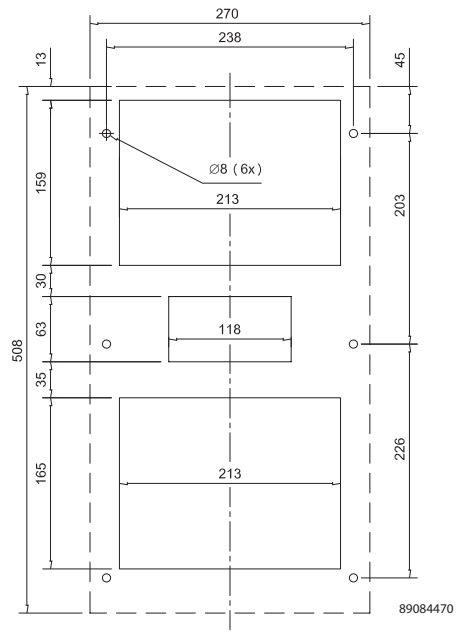


V-Series Indoor/Outdoor

V-SERIES Compact 1st Angle Projection



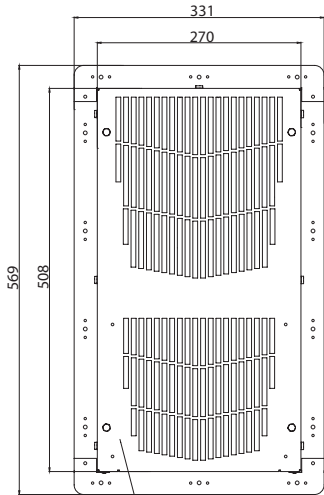
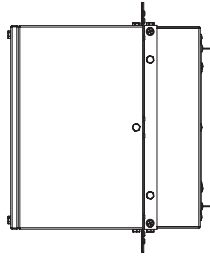
- Note:
1. Mounting gasket supplied (not shown)
 2. Units: mm



CUTOUT DIMENSIONS
EXTERNAL SURFACE MOUNTING

V-Series Indoor/Outdoor

VA06 V-Series Compact Partial Recessed



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

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

AMBIENT AIR OUT

AMBIENT AIR IN

ENCLOSURE AIR IN

ENCLOSURE AIR OUT

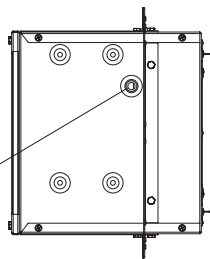
REMOVABLE HANGING TABS

THERMOSTAT ADJUSTMENT

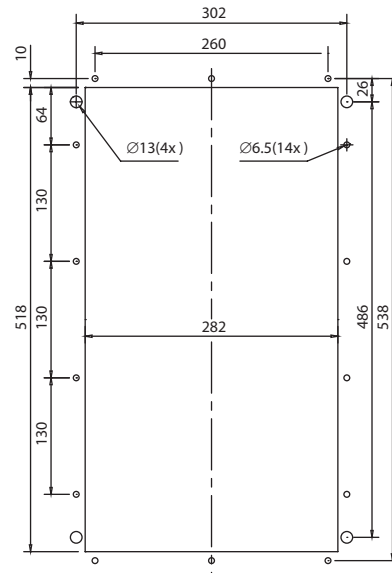
POWER INPUT

MOUNTING BOLTS (14)

89104637



ACCESS HOLE TO 9.6mm O.D. DRAIN STUB



CUTOUT DIMENSIONS RECESSED MOUNTING

V-Series Indoor/Outdoor

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
EAC



APPLICATION

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

SCOPE OF DELIVERY

- Air conditioner unit
- Mounting gasket and hardware kit
- Cutout template
- Installation instruction

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
- Passive condensate management systems

- 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
- Partial recessed and surface mount
- Full-size cutout print included with every unit
- Easy access to the optional aluminum filter and other components
- 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 Watt
- 230 VAC 50 Hz power input with +/-10 percent operating range
- CE and EAC certifications
- Malfunction switch
- Outdoor AC models also include:
 - Compressor heater
 - Compressor head pressure control
 - Enclosure heater 2000 W
 - Corrosion resistant components
 - Operating temperature range -40 °C - 55 °C

FINISH

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

For product general accessories, please refer to the chapter "Accessories".

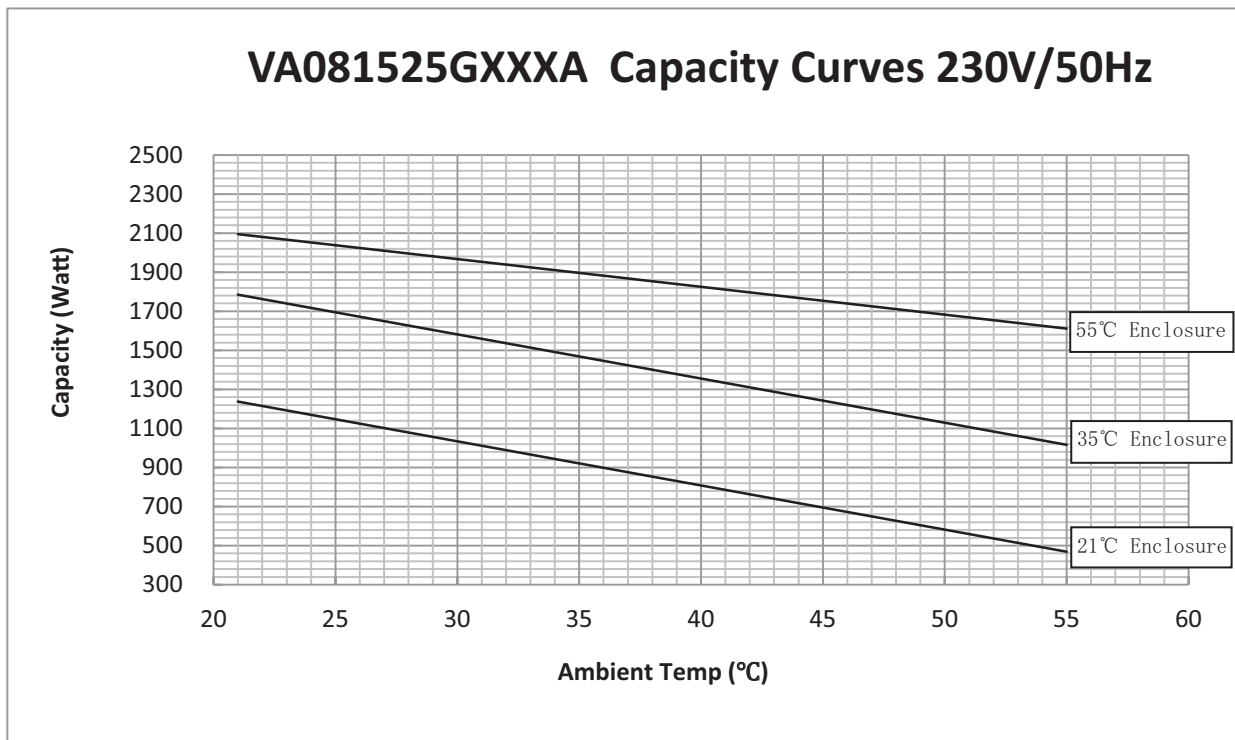
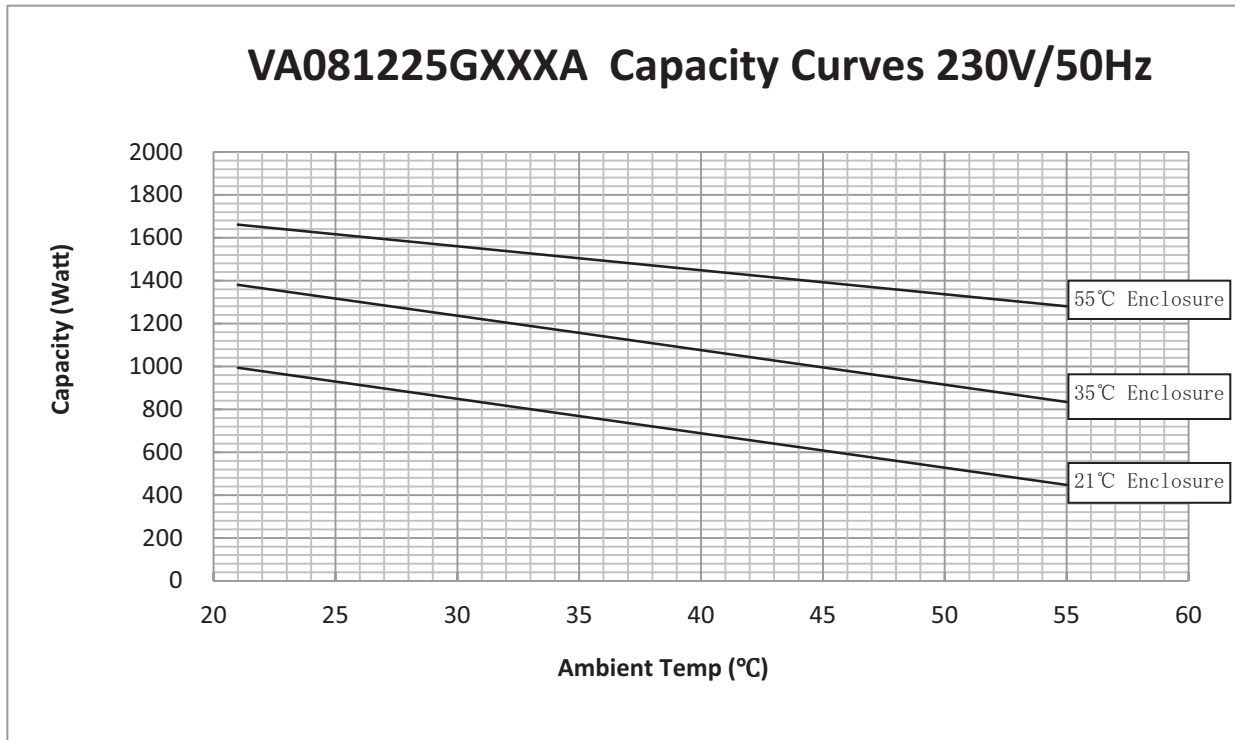
V-Series Indoor/Outdoor

Note: Items with * are in stock. Lead time 2 weeks

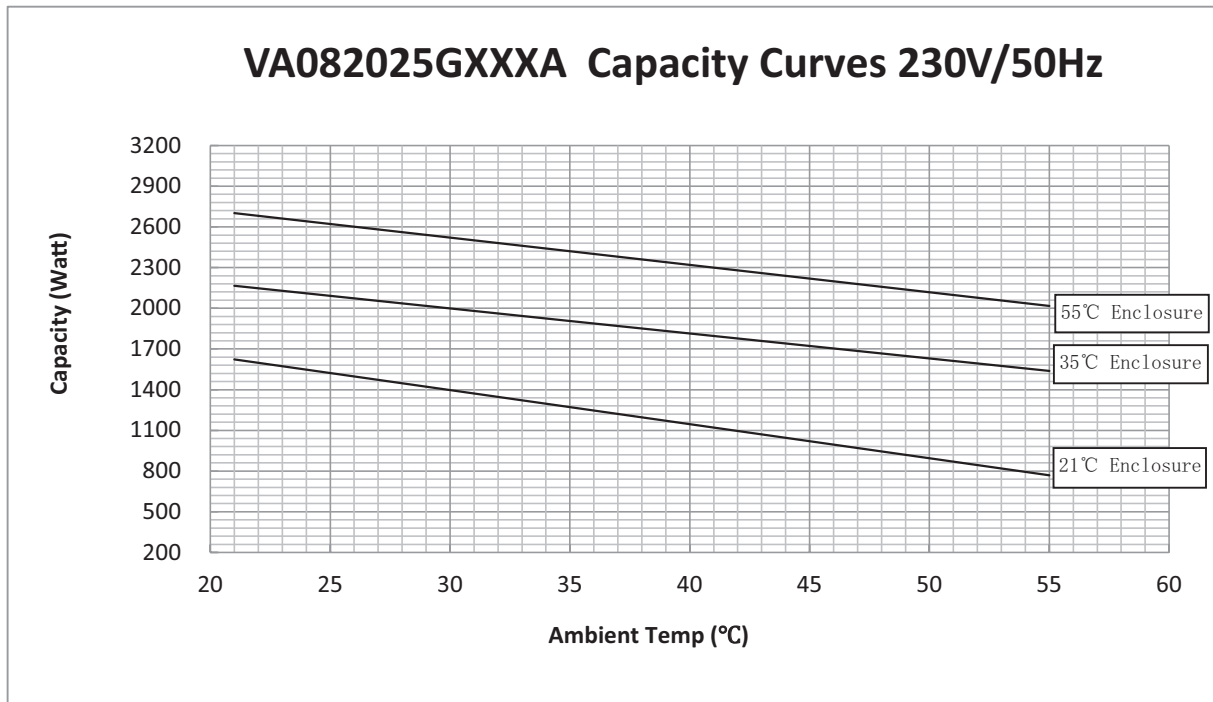
PERFORMANCE DATA 1200 W, 1500 W, 2000 W

MODEL	1200 Watt	1500 Watt	2000 Watt
Item Number			
Indoor Model	VA081225G052A*	VA081525G052A*	VA082025G052A
Indoor Model Partial Recessed Mount	VA081225G053A	VA081525G053A	VA082025G053A
Indoor Model With Display and Malfunction Switch	VA081225G059A	VA081525G059A	VA082025G059A
Outdoor Model with Heat Package	VA081225G152A	VA081525G152A	VA082025G152A
Outdoor Model with Heater SS316	VA081225G156A	VA081525G156A	VA082025G156A
COOLING PERFORMANCE:			
Nominal:			
L35 L35			
Watt	1160	1470	1910
L35 L50	960		
Watt	960	1170	1540
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (g)	550	605	660
Operating Temperature Range:			
Maximum (°C)	55	55	55
Minimum (°C)	-40/20	-40/20	-40/20
Airflow at 0 Static Pressure:			
Internal loop (m³/h)	388	571	571
External loop (m³/h)	571	571	688
Duty Cycle	100%	100%	100%
Encl. Heater max. Watt (Outdoor Models)	2000	2000	2000
ELECTRICAL DATA			
Rated Voltage	230	230	230
Frequency (Hz)	50	50	50
Operating Range	±10%	±10%	±10%
Max. Power Consumption L35 L35 (Watt)	540	606	913
Max. Nominal Current (Amp)	3,5	3,96	5,7
Starting Current (Amp)	13,5	13,5	22
Pre-fuse T (Amp)	10	10	10
Agency Approvals	CE EAC	CE EAC	CE EAC
Power Input Description	Terminal Block	Terminal Block	Terminal Block
PERFORMANCE FACTOR L35 L35			
Cooling Performance (Watt)/ Power Consumption (Watt)	2,1	2,4	2,1
ENCLOSURE PROTECTION			
IP Code		IP56 Internal loop IP34 External loop	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side	
Factory Thermostat Setting (°C)		35	
SOUND LEVEL			
At 1 M	71 dBA	71 dBA	71 dBA
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Standard	
Finish		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	272
Weight (kg)	34,3	34,8	44
Lead Time	1-2 weeks	1-2 weeks	1-2 weeks

V-Series Indoor/Outdoor

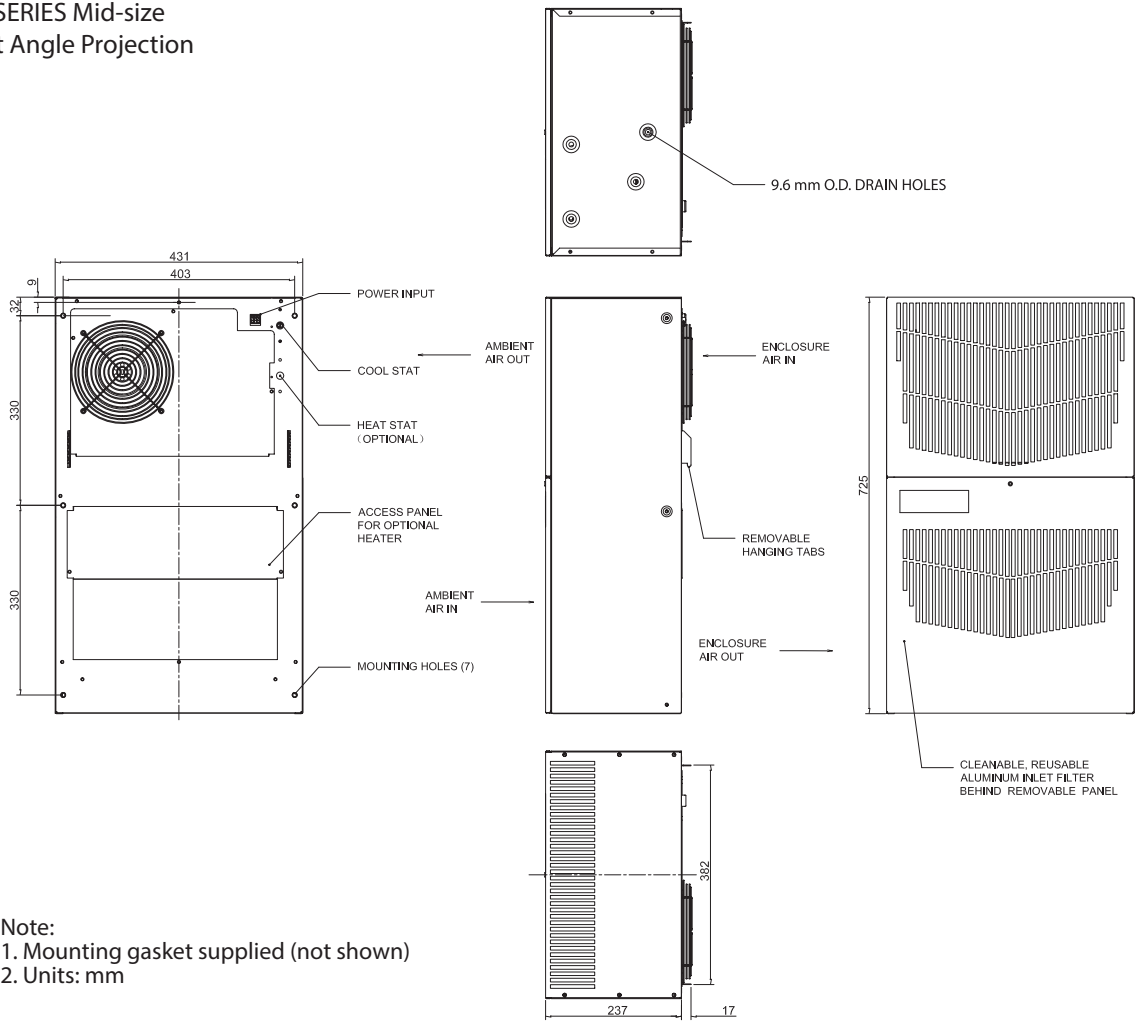


V-Series Indoor/Outdoor

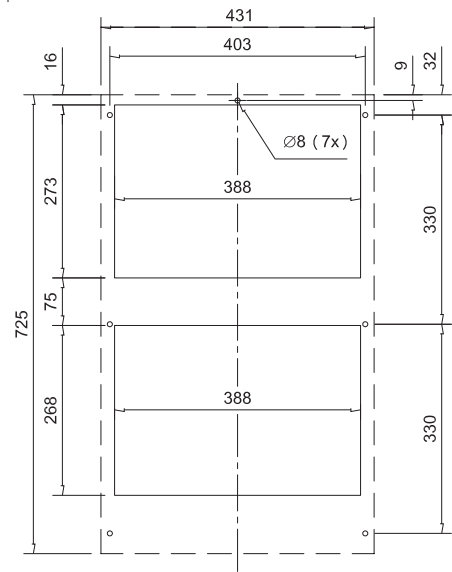


V-Series Indoor/Outdoor

V-SERIES Mid-size 1st Angle Projection



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

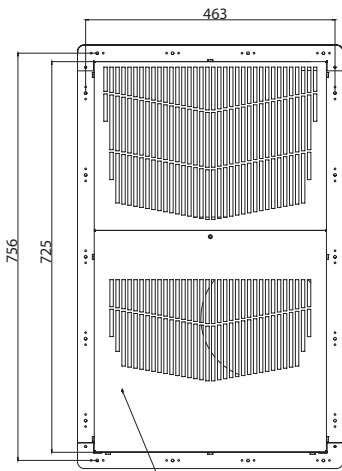
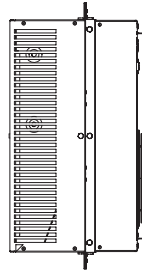


89084471

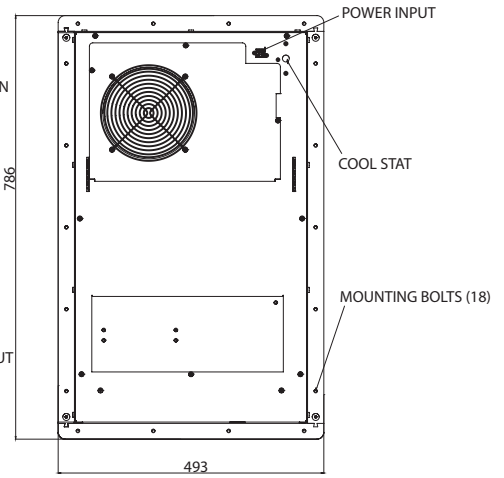
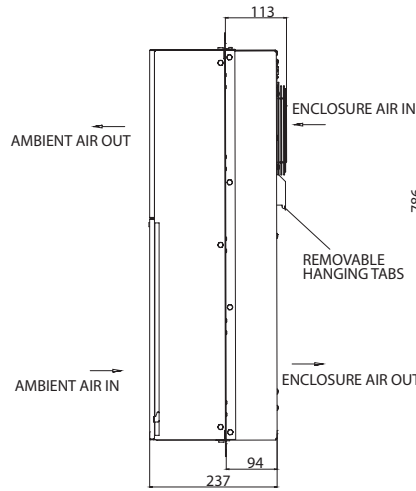
Cutout Dimensions
External Surface Mount

V-Series Indoor/Outdoor

VA08 V-SERIES Mid-size Partial Recess
1st Angle Projection

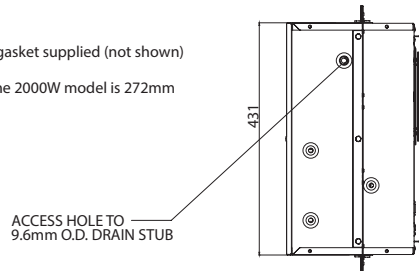


CLEANABLE, REUSABLE ALUMINUM INLET FILTER BEHIND REMOVABLE PANEL

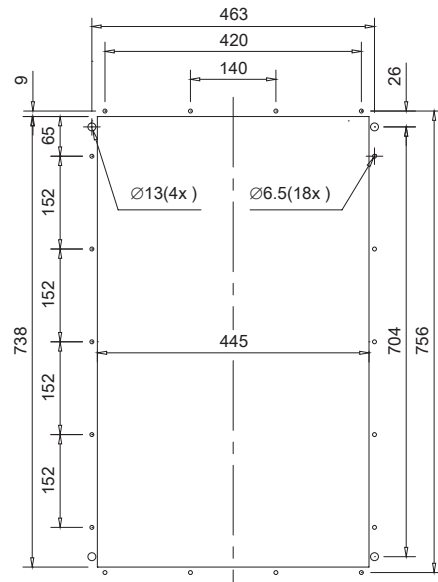


89104638

- Note:
1. Mounting gasket supplied (not shown)
 2. Units: mm
 3. Depth of the 2000W model is 272mm



ACCESS HOLE TO 9.6mm O.D. DRAIN STUB



Cutout Dimensions
Recessed Mounting

NOTES:

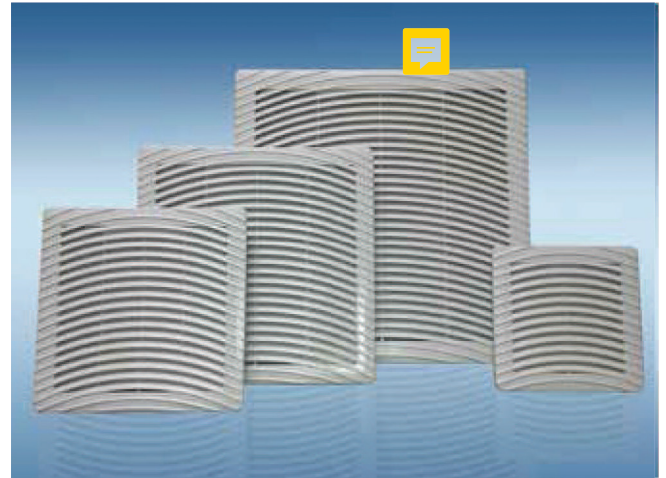
Fan Filter

APPLICATION

Fan filter package can transmit filtered environment air to cabinet inside, and use clean air for cooling the electronic components in the cabinet. After absorbing heat, the air is discharged out from the cabinet. Fan filter can cool electronic components in cabinet by providing clean airflow, thereby preventing the fault caused by overheating, and furthermore increasing working efficiency and the life expectancy of electronic components.

FEATURES

- Easy and fast Installation
- In good environmental conditions can replace the closedloop cooling products and reduce cost
- Protection class up to IP 54 and TYPE 12
- Quick-fit grille and high-density filter for easy cleaning and maintenance
- Cut-out drawings and instructions supplied for easy installation
- All fan filter package are available from stock
- Each filter fan package has correspondin



INDUSTRY STANDARD

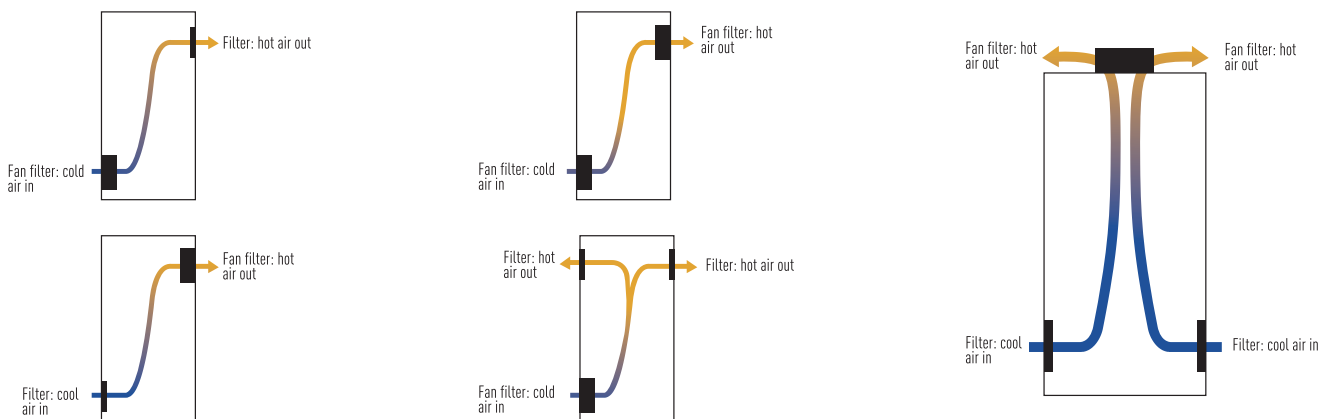
CE
Protection class: IP54

FINISH

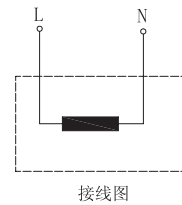
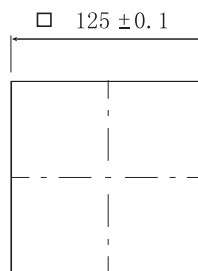
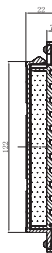
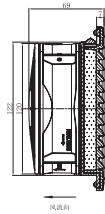
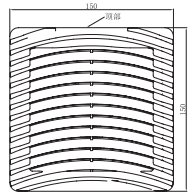
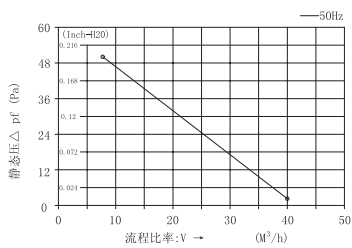
RAL7035 engineering plastic UL 94 V-0

STANDARD PRODUCTS

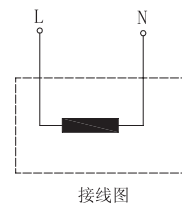
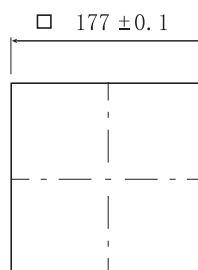
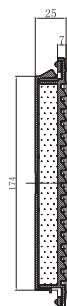
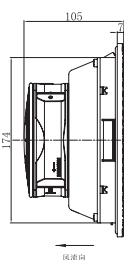
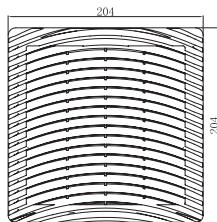
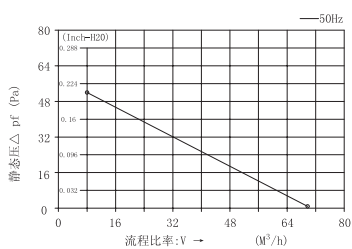
Catalog Number	Description	Rated Voltage	Frequency(Hz)	Phase	Maximum Load Current	Minimum Operating Temperature	Maximum Operating Temperature	Maximum Noise Level	Weight	Free Airflow
SA050026E000A	Fan filter	230V	50/60	1	0.12A	-20°C	+65°C	46dBA	650g	55/66M3/h
SA050026E020A	Filter					-20°C	+65°C		130g	
SA090026E000A	Fan filter	230V	50/60	1	0.12A	-20°C	+65°C	46dBA	840g	105/120M3/h
SA090026G020A	Filter					-20°C	+65°C		230g	
SA100026E000A	Fan filter	230V	50/60	1	0.12A	-20°C	+70°C	46dBA	1380g	230/265M3/h
SA100026E020A	Filter					-20°C	+70°C		330g	
SA130026E000A	Fan filter	230V	50/60	1	0.12A	-30°C	+80°C	46dBA	3100g	550/600M3/h
SA130026E020A	Filter					-30°C	+80°C		500g	



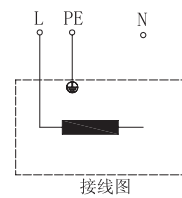
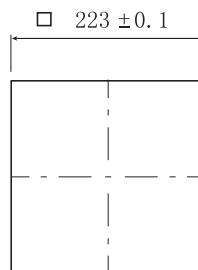
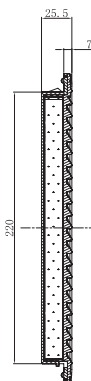
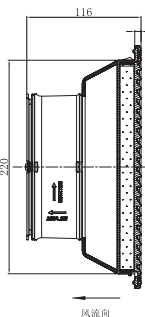
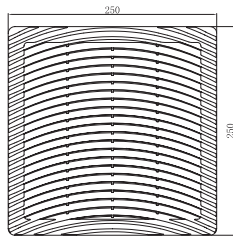
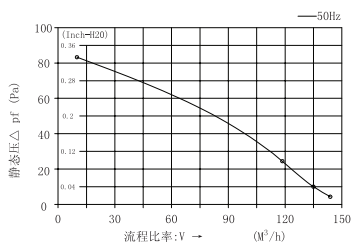
SA05 SERIES



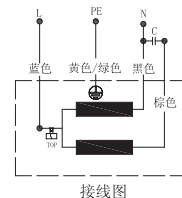
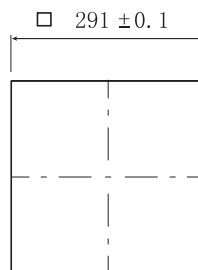
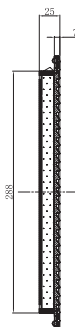
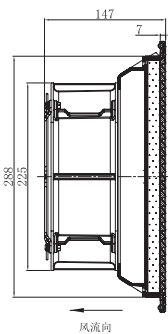
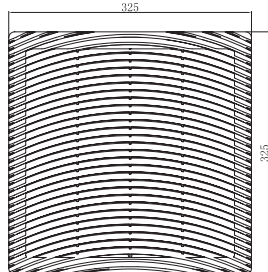
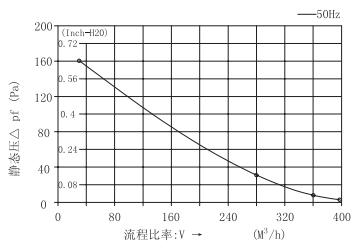
SA09 SERIES



SA10 SERIES



SA13 SERIES



Cooling General Information: Quick Reference

Use this handy table to match your electronic cooling requirements with the most effective nVent HOFFMAN protective cooling solution.

	Air Conditioners						HazLoc	TEC
	SPECTRACOOL	SLIM FIT	V-Series	PROAIR	T-Series	A2W HEX WCHE-Series	Air Conditioner	Thermoelectric
SYSTEM APPLICATION								
For indoor industrial	■	■	■	■	■	■		■
For harsh/corrosive environments	■			■			■	■
For washdown applications				■				■
For outdoor enclosures	■		■	■	■			■
For telecommunications shelters					■			
TEMPERATURE OF THE ELECTRONICS								
Cooler than outside the enclosure	■	■	■	■	■	■	■	■
Warmer than outside the enclosure								
AIR CONDITIONER COOLING CAPACITY								
1000-2000 BTU/Hr (300-700 Watt)		■	■	■	■	■		
4000-6000 BTU/Hr (1200-2000 Watt)	■	■	■	■	■	■	■	
8000-12000 BTU/Hr (2300-3500 Watt)	■	■			■	■	■	
20000 BTU/Hr (5900 Watt)	■							
2-ton 23500 BTU/Hr (6900 Watt)					■	■		
3-ton 42000 BTU/Hr (12300 Watt)					■	■		
5-ton 59000 BTU/Hr (17300 Watt)					■			
THERMOELECTRIC COOLING CAPACITY								
60 Watt (178 BTU/Hr.)								■
100 Watt (321 BTU/Hr.)								■
200 Watt (567 BTU/Hr.)								■
POWER INPUT								
230 VAC 50 Hz			■					
115 & 230 VAC 50/60 Hz	■	■		■	■	■	■	
400/460 VAC 50/60 Hz 1-phase				■	■		■	
400/460 VAC 50/60 Hz 3-phase	■	■					■	
24 & 48 VAC								■
MOUNTING								
Side	■	■	■	■	■	■	■	■
Top								■
Rack								
CABINET PROTECTION								
Type 12	■	■	■	■	■	■		■
Type 3R	■			■	■			■
Type 4	■			■	■		■	■
Type 4X	■			■	■		■	■
CABINET DIMENSION								
Fits 8"/203 mm					■			■
Fits 12"/305 mm		■	■	■	■		■	■
Fits 16"/406 mm		■	■	■	■	■		■
Fits 20"/508 mm or larger	■	■	■	■	■	■		■

NOTES:

North America

Minneapolis, MN

Tel: +1.763.421.2240

Mexico, D.F.

Tel: +52.55.5280.1449

Toronto, Canada

Tel: +1.416.289.2770

South America

Sao Paulo, Brazil

Tel: +55.11.5184.2100

Boitura, Brazil

Tel: +55.15.3363.9148

Europe

Straubenhardt, Germany

Tel: +49.7082.794.0

Dzierzoniow, Poland

Tel: +48.74.64.63.900

Lainate, Italy

Tel: +39.02.932.7141

Aachen, Germany

Tel: +49.2405.40996.0

Middle East & India

Dubai, United Arab Emirates

Tel: +971.4.823.8666

Bangalore, India

Tel: +91.080.6715.8900

Asia

Shanghai, P.R. China

Tel: +86.21.2412.6943

Singapore

Tel: +65.6768.5800

Shin-Yokohama, Japan

Tel: +81.45.476.0271

Seoul, Korea

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Qingdao

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