

DANTHERM

COOLING

PrecisionAir® WS & SL

Superior Wall-Mount HVAC and Heat Pump Systems



DANTHERM
COOLING

DANTHERMCOOLING.COM

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About Dantherm Cooling

Performance Cooling

Over the past 28 years, Dantherm cooling has established itself as a leader in innovative cooling systems, supplying more than 300,000 climate control units to mission critical applications. By applying our passion for performance and quality throughout our company, we have become known for providing outstanding products and an exceptional customer experience.

Our innovative, highly engineered product lines feature industry leading technology to deliver outstanding performance, operate efficiently and perform reliably in extreme climate conditions. Backed by our experienced design team, quality manufacturing processes and extensive testing and certification practices, Dantherm Cooling can provide customers with engineered solutions to their most challenging applications.

Our passion and success in building an industry leading business compels us to invest in those around us. From our employee centric culture, to our ongoing community outreach, we are committed to use our business a catalyst for positivity in the lives of those around us.



PrecisionAir[®] WS & SL

Dantherm PrecisionAir WS (Wide Series) and SL (Slim Line) HVAC units and heat pumps are designed to be bolt-on alternatives and drop in replacements for industry standard wall-mounted HVAC units and heat pumps. PrecisionAir WS & SL units improve on traditional devices, featuring state-of-the-art design techniques to optimize performance, reliability and energy efficiency. A first for the industry, the new SL series features an ultra-compact slim bodied package that is about one-half the width of most common wall-mount HVAC units.

Precision Air units feature modern high-efficiency BCI fans, micro-channel coils, high performance compressors and quality components throughout combined with robust construction and advanced assembly techniques. The result is an energy efficient, high performing unit designed for optimum performance, low maintenance and maximum service life. Additionally, Dantherm is working with leading refrigerant manufacturers to implement the latest LGWP for improved environmental impact.

A wide range of options and features along with refined manufacturing processes make the WS & SL series adaptable for a wide range of critical infrastructure applications where performance and reliability is of the utmost concern.

PrecisionAir® WS & SL

Innovative Technology Designed To Perform

Innovative products are part of who we are. Our WS & SL series of products utilize our extensive engineering and manufacturing expertise to deliver unmatched product performance that outpaces others available on the market.

All of our products are manufactured to tight tolerances and thoroughly tested before they leave our factory. With over 300,000 units installed in the field across our product lines, customers can be assured of long life and industry leading performance.

- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condenser coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- Easy access to critical components for simplified serviceability
- Integrated ACG7 controller available with ethernet featuring SNMP Ver2 or Modbus with web-based GUI
- Economizer feature available (Excluding 2T Model)

Engineered Performance

Designed to Meet Demanding Customer Requirements

Energy Efficient

Engineered performance with high-static BCI fans produces efficient and powerful performance

Quiet Performance

High performance components and design produces powerful performance while limiting noise to 60-70dB

Reliable

Closed loop design, all aluminum microchannel coil and weatherproof enclosure for the most challenging environments



Safe Handling

Optional top mounted lifting points combined with bottom fork pockets for easy handling during safe installation

Connected

Monitor and manage thermal environment from your desk with integrated ACG7 Smart Controller

Low Maintenance

Low maintenance required and easy access to critical components with filters accessible from both left and righthand sides

PrecisionAir® WS & SL

Verified Performance, Quality Assured

Dantherm Cooling's commitment to high-quality innovation, manufacturing and customer support is demonstrated by the standards we keep.

Our products are routinely used in critical infrastructure applications and our customers require the highest performance, quality and reliability. Third party certification and verification gives customers a sense of security knowing that our products have been independently tested to perform to the caliber we claim.



Dantherm Cooling's ISO 9001:2015 certification demonstrates that our business and manufacturing processes meet all international standards for the consistent delivery of high-quality products and services. Regular audits and process reviews ensure consistent manufacturing performance.



Through our partnership with Underwriter's Laboratory (UL), UL has certified that all Dantherm Cooling materials and products, as well as specific testing procedures and documentation, have been thoroughly inspected for safety and quality, and meet or exceed established standard requirements.



Intertek is a respected industry leader with a strong track record helping to ensure the quality and safety of products, processes and systems. This helps to ensure the quality and performance of manufactured products. At Dantherm, we're working with Intertek have PrecisionAir WS & SL product lines rated in accordance with ANSI/AHRI Standard 390-2021 requirements.

PrecisionAir® WS & SL

Engineered for a Wide Variety of Applications

Battery Energy Storage (BESS)

Battery energy storage applications require reliable performance cooling to improve storage conditions and optimize battery life. Dantherm's PrecisionAir WS & SL units offer reliable performance, high quality BCI fans and Dantherm's integrated ACG7 controller to offer consistent ideal temperatures, improving the performance of your system.



Mobile Modular

Mobile modular buildings such as job site construction buildings or modular school buildings require adequate climate control solutions to create environments conducive to learning and work. Dantherm's cooling solutions offer energy efficient, powerful cooling and are designed to operate quietly making them an ideal choice for these environments.



Electric Grid T&D Control Houses

Demanding electric grid relay switching T&D control houses require sufficient thermal control to keep equipment running smoothly. PrecisionAir WS & SL are designed to operate efficiently in extreme conditions, weather and the wide-range of outdoor environments energy professionals must operate in.



Telecom

Dantherm Cooling units offer improved design techniques and high quality components to optimize cooling performance and energy efficiency while requiring little maintenance. This makes PrecisionAir units ideally suited for telecom buildings which require energy efficient cooling for the valuable electronic equipment held inside.

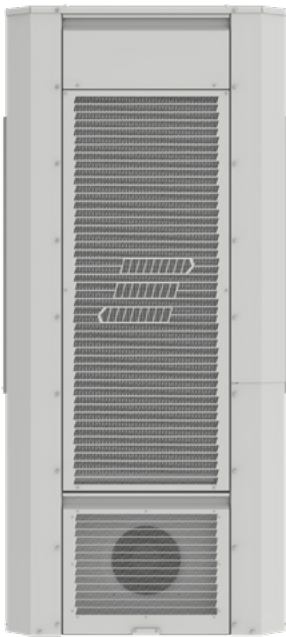


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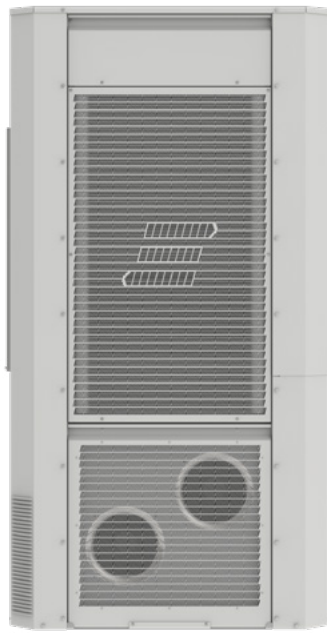
COOLING

PrecisionAir® WS

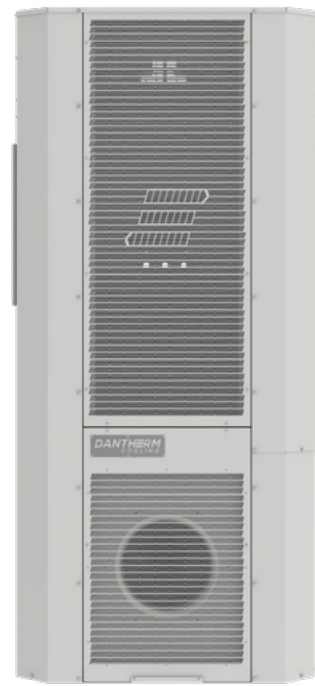
Technical Specifications



PrecisionAir® WS 2T



PrecisionAir® WS 3T



PrecisionAir® WS 3.5/4/5T

PrecisionAir® WS

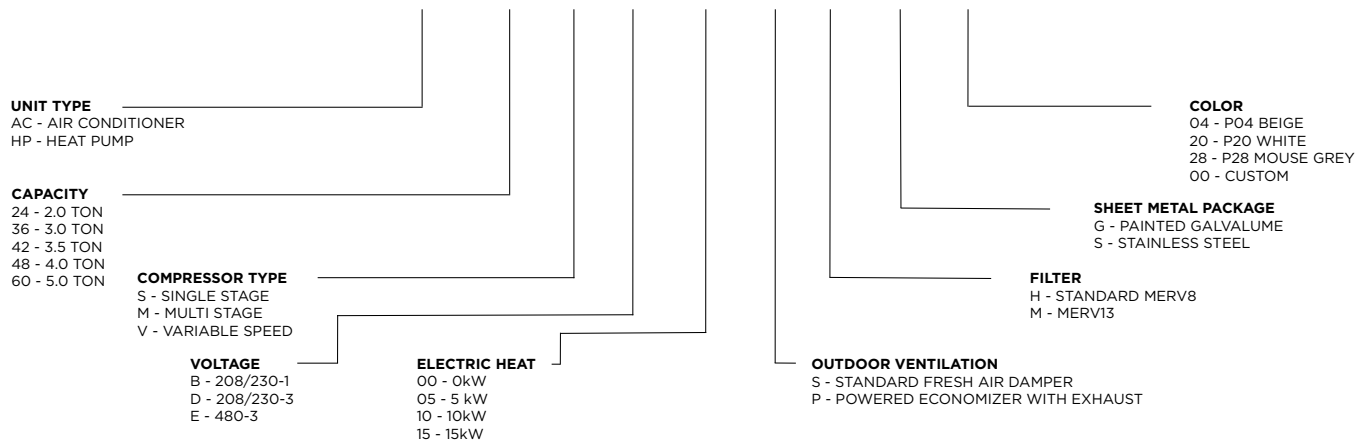
Configure Your Own PrecisionAir WS

The WS series products offering is designed with a wide variety of application and conditions in mind. A number of product options are available allowing each unit to be tailored specifically for the application in which it will be applied.

All of our products are manufactured to exacting tolerances and thoroughly tested before they leave our factory. With over 300,000 units installed in mission critical applications, Dantherm products are proven performers.

- Top mounted lifting points for safe handling
- Integral bottom fork lift pockets for easy lifting
- Exterior filter access from both LH and RH sides of the unit
- Economizer feature available
- Available in air conditioner or heat pump models
- Optional safe mount installation bracket

PA-WS-AC-60-S-B-05-S-H-G-03



Color Options

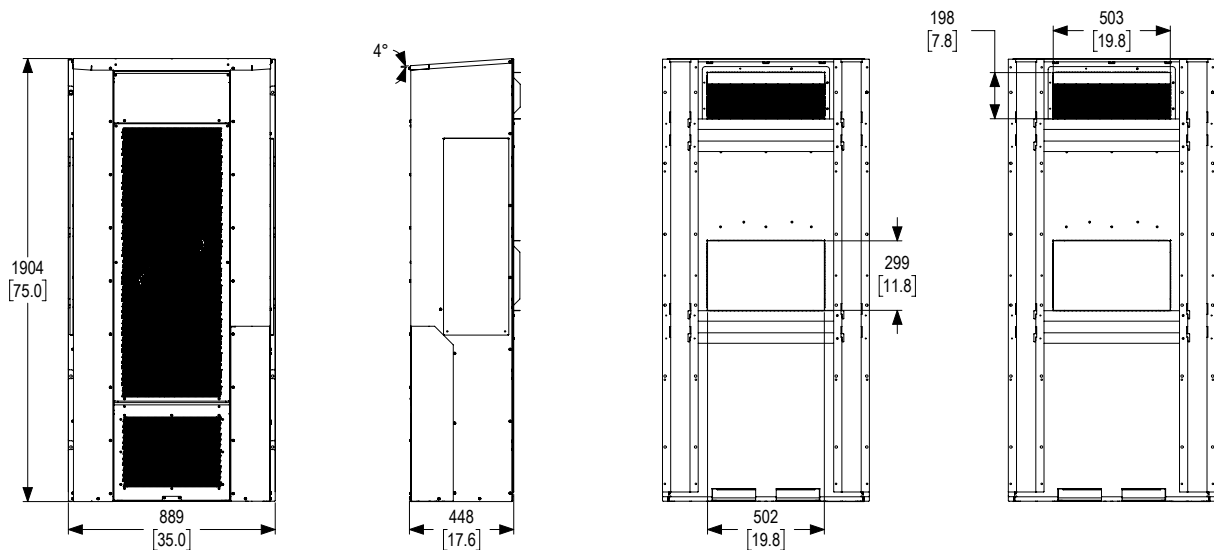


PrecisionAir® WS 2T

Dimensional Drawings



- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condensor coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- Easy access to critical components for simplified serviceability
- Integrated ACG7 controller available with ethernet featuring SNMP Ver2 or Modbus with web-based GUI
- Economizer feature available (Excluding 2T Model)



NOTES:

1) UNITS = MM [IN]

2) STEP FILE AVAILABLE UPON REQUEST

PrecisionAir® WS 2T

Technical Data

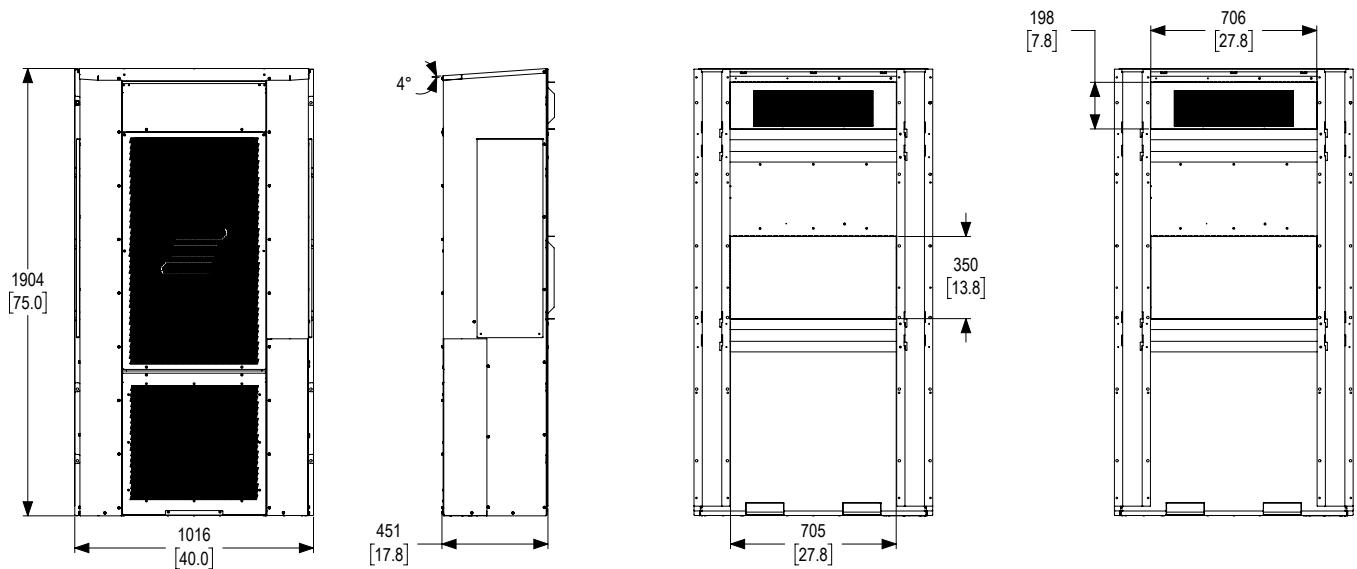
	UNITS	
MODEL NUMBER		PA-WS-24
MOUNTING METHOD		Outdoor
UNIT DIMENSIONS [HxWxD]	Inches	75x35x17.6
WEIGHT	Lbs	325
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]	24,000 [7.5kW]
MAX INTERNAL AIRFLOW @ .5 IN H ₂ O	CFM [m ³ /h]	1,800 [3,060]
MAX EXTERNAL AIRFLOW	CFM [m ³ /h]	1,800 [3,060]
REFRIGERANT	Type	R410a
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]
NOISE 1.5M DISTANCE	dB	<65
HEATER	kWatts	5/10/15kW Options
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 1Ø 60Hz
COMPRESSOR RLA		10.7
COMPRESSOR LRA		72
CONDENSER HP		0.1
EVAPORATOR FAN HP		0.1
COOLING CURRENT MIN		15
COOLING CURRENT PROTECTION		20
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0
COP [HEATING MODE]		3.3
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021 (In Process)
CONSTRUCTION		Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available

PrecisionAir® WS 3T

Dimensional Drawings



- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condenser coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- Easy access to critical components for simplified serviceability
- Integrated ACG7 controller available with ethernet featuring SNMP Ver2 or Modbus with web-based GUI
- Economizer feature available (Excluding 2T Model)



NOTES:

- 1) UNITS = MM [IN]
- 2) STEP FILE AVAILABLE UPON REQUEST

PrecisionAir® WS 3T

Technical Data

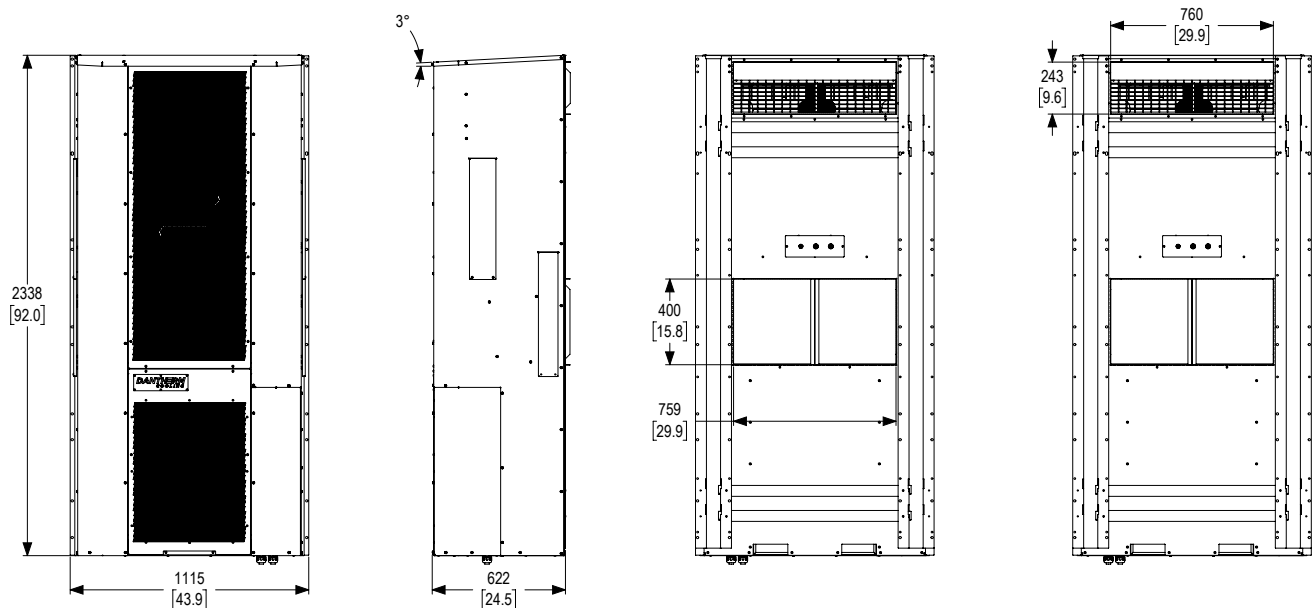
	UNITS			
MODEL NUMBER	--	PA-WS-36		
MOUNTING METHOD	--	Outdoor		
UNIT DIMENSIONS [HxWxD]	Inches	75x40x17.8		
WEIGHT	Lbs	350		
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]	36,000 [11kW]		
MAX INTERNAL AIRFLOW @ .5 IN H ₂ O	CFM [m ³ /h]	1,800 [3,060]		
MAX EXTERNAL AIRFLOW	CFM [m ³ /h]	1,800 [3,060]		
REFRIGERANT	Type	R410a		
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]		
NOISE 1.5M DISTANCE	dB	<65		
HEATER	kWatts	5/10/15kW Options		
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 1Ø 60Hz	208/230 VAC, 3Ø 60Hz	480 VAC, 3Ø 60Hz
COMPRESSOR RLA	Amps	20	12.8	6.4
COMPRESSOR LRA	Amps	115	95	45
CONDENSER HP	HP	0.1 (x2)	0.1 (x2)	0.1 (x2)
EVAPORATOR FAN HP	HP	.3	.3	.3
COOLING CURRENT MIN	Amps	25	15	10
COOLING CURRENT PROTECTION	Amps	30	20	15
EER [SP=0.1] / EER2 [SP=0.5]	--	11.0 / 12.0		
COP [HEATING MODE]	--	3.3		
APPROVALS	--	UL/Intertek ANSI/AHRI Standard 390-2021 (In Process)		
CONSTRUCTION	--	Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available		

PrecisionAir® WS 3.5/4/5T

Dimensional Drawings



- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condensor coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- Easy access to critical components for simplified serviceability
- Integrated ACG7 controller available with ethernet featuring SNMP Ver2 or Modbus with web-based GUI
- Economizer feature available (Excluding 2T Model)



NOTES:
 1) UNITS = MM [IN]
 2) STEP FILE AVAILABLE UPON REQUEST

PrecisionAir® WS 3.5/4/5T

Technical Data

	UNITS		
MODEL NUMBER		PA-WS-42/48/60	
MOUNTING METHOD		Outdoor	
UNIT DIMENSIONS [HxWxD]	Inches	92x43.9x24.5	
WEIGHT	Lbs	475	
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]	42,000 - 60,000 [12kW - 18kW]	
MAX INTERNAL AIRFLOW @ .5 IN H ₂ O	CFM [m ³ /h]	2,200 [3,800]	
MAX EXTERNAL AIRFLOW	CFM [m ³ /h]	3,600 [6,100]	
REFRIGERANT	Type	R410a	
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]	
NOISE 1.5M DISTANCE	29 x 17.3 x 11.3 (737 x 439 x 286)	<65	
HEATER	kWatts	5/10/15kW Options	
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 3Ø 60Hz	480 VAC, 3Ø 60Hz
COMPRESSOR RLA	Amps	23	8.3
COMPRESSOR LRA	Amps	115	70
CONDENSOR FAN FLA	Amps	3.3	1.9
CONDENSER HP	HP	1.5	1.5
EVAPORATOR FAN FLA	Amps	2.6	1.6
EVAPORATOR FAN HP	HP	1.3	1.3
COOLING CURRENT MIN	Amps	25	15
COOLING CURRENT PROTECTION	Amps	30	20
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0	
COP [HEATING MODE]		3.3	
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021 (In Process)	
CONSTRUCTION		Galvanized & Galvanized Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available	

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PrecisionAir® SL

Technical Specifications



PrecisionAir® SL 4/5T



PrecisionAir® SL Dual 8/10T

PrecisionAir® SL

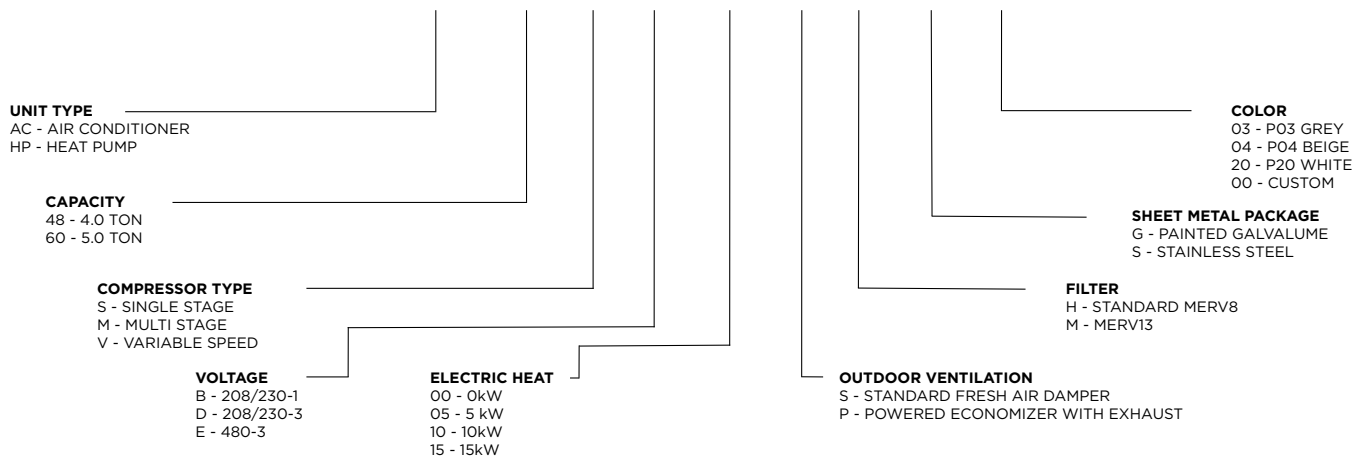
Configure Your Own PrecisionAir SL

Our SL series products offer a wide range of configurable options so each unit can be tailored to the precise needs of our customers.

All of our products are manufactured to tight tolerances and thoroughly tested before they leave our factory. Robust manufacturing processes backed by ISO 9001:2015 certification ensure the highest quality no matter the application.

- Compact, self-contained design for easy installation in indoor and outdoor applications
- Easy access components for low maintenance hassle
- Suitable for use in high ambient operating temperatures
- Closed loop design, all aluminum microchannel coil and weatherproof enclosure for the most challenging environments

PA-SL-AC-60-S-B-05-S-H-G-03



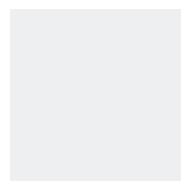
Color Options



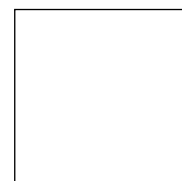
03 - P03 Grey



04 - P04 Beige



20 - P20 White



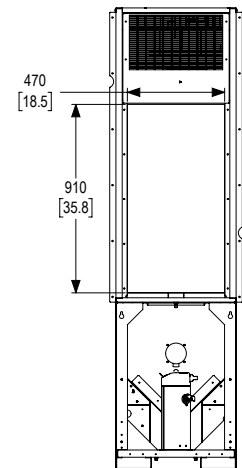
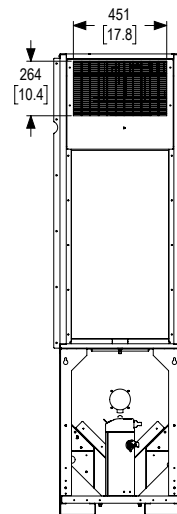
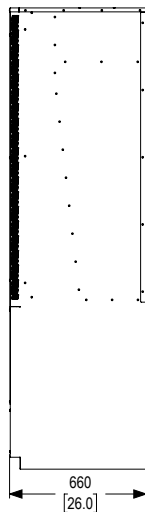
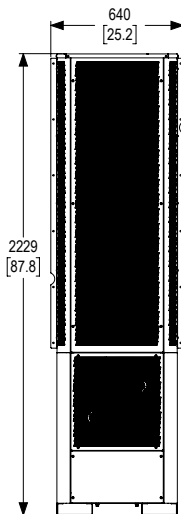
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PrecisionAir® SL 4T/5T

Dimensional Drawings



- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condenser coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- Easy access to critical components for simplified serviceability
- Integrated ACG7 controller available with ethernet featuring SNMP Ver2 or Modbus with web-based GUI
- Economizer feature available



NOTES:

1) UNITS = MM [IN]

2) STEP FILE AVAILABLE UPON REQUEST

PrecisionAir® SL 4T/5T

Technical Data

	UNITS		
MODEL NUMBER		PA-SL-48/60	
MOUNTING METHOD		Outdoor	
UNIT DIMENSIONS [HxWxD]	Inches	87.8x22.9x25.8	
WEIGHT	Lbs	450	
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]	48,000 - 60,000 [14kW - 21kW]	
MAX INTERNAL AIRFLOW @ .5 IN H ₂ O	CFM [m ³ /h]	2,160 [3,700]	
MAX EXTERNAL AIRFLOW	CFM [m ³ /h]	3,600 [6,100]	
REFRIGERANT	Type	R410a	
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]	
NOISE 1.5M DISTANCE	dB	72	
HEATER	kWatts	5/10/15 kW Options	
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 3Ø 60Hz	480 VAC, 3Ø 60Hz
COMPRESSOR RLA	Amps	23	8.3
COMPRESSOR LRA	Amps	115	70
CONDENSER FAN FLA	Amps	3.3	1.9
CONDENSER HP	HP	1.5	1.5
EVAPORATOR FAN FLA	Amps	2.6	1.6
EVAPORATOR FAN HP	HP	1.3	1.3
COOLING CURRENT MIN	Amps	25	15
COOLING CURRENT PROTECTION	Amps	30	20
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 11.0	
COP [HEATING MODE]		3.3 / 3.3	
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021 (In Process)	
CONSTRUCTION		Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available	

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