

Superior Wall-Mount HVAC and Heat Pump Systems





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.





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.



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 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, ERV or CRV features available (Excluding 2T Model)

Engineered Performance

Designed to Meet Demanding Customer Requirements

Energy Efficient

Engineered performance with highstatic 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 right hand sides



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.



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 buildings such as job site construction buildings or modular school buildings require adequate climate control solutions to create environments condusive 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.



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.



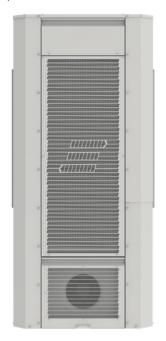






PrecisionAir® WS

Technical Specifications







PrecisionAir® WS 3T



PrecisionAir® WS 3.5/4/5T



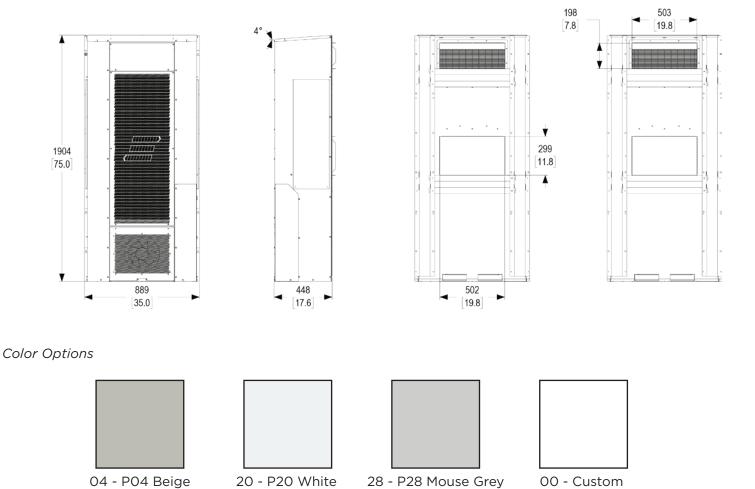
PrecisionAir® WS

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, ERV or CRV features available
- Air conditioner or heat pump model configurations
- Optional safe mount installation bracket



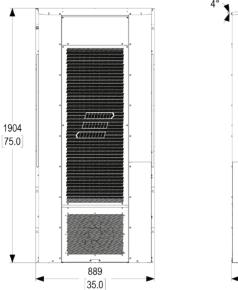


PrecisionAir® WS 2T

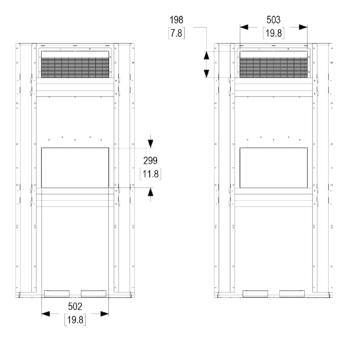
Dimensional Drawings



- 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

	UNITS				
MODEL NUMBER		PA-WS-24			
MOUNTING TYPE		Vertical, Outdoor, NEMA/UL 3R, 4			
UNIT DIMENSIONS [HxWxD]	Inches [mm]	75x35x17.6 [1905x889x447]			
WEIGHT	Lbs [kg]	325 [148]			
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]	24,000 [7.5kW]			
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]	1,800 [3,060]			
MAX EXTERNAL AIRFLOW	CFM [m³/h]	1,800 [3,060]			
REFRIGERANT	Туре	R134a or R513a [GWP=573]			
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]			
NOISE 1.5M DISTANCE	dB	<65			
HEATER	kWatts	5/10kW Options			
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 1Ø 60Hz			
COMPRESSOR RLA	Amps	10.7			
COMPRESSOR LRA	Amps	72			
CONDENSER HP	HP	0.1			
EVAPORATOR FAN HP	HP	0.1			
COOLING CURRENT MIN	Amps	15			
COOLING CURRENT PROTECTION	Amps	20			
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0			
COP [HEAT PUMP MODE]		3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
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 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

NOTES:

• Economizer feature available (Excluding 2T Model)

1)UNITS = MM [IN] 2)STEP FILE AVAILABLE UPON REQUEST 708 [27.9] 1902 [7.9] 353 [13.9] 464 [64.7] [64.7] [7.9] 975



PrecisionAir® WS 3T

	UNITS				
MODEL NUMBER		PA-WS-AC-36, PA-WS-HP-36			
MOUNTING TYPE		Vertical, Outdoor, NEMA/UL 3R, 4			
UNIT DIMENSIONS [HxWxD]	Inches [mm]		75x40x17.8 [1905x1016x452	2]	
WEIGHT	Lbs [kg]		350 [159]		
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		36,000 [11kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		1,300 [2,200]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		1,800 [3,060]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
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	480 VAC, 3Ø 60Hz		
COMPRESSOR RLA	Amps	19.8 14.1		6.4	
COMPRESSOR LRA	Amps	115	95	45	
CONDENSER HP	HP	0.1 (x2)	0.1 (x2)	0.1 (x2)	
EVAPORATOR FAN HP	НР	.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 [HEAT PUMP MODE]		3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			

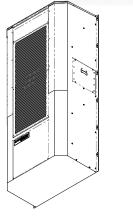


PrecisionAir® WS 3.5/4/5T

Dimensional Drawings

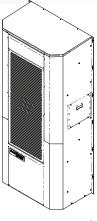


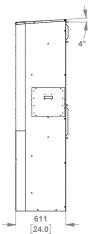
- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condensor coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- 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)

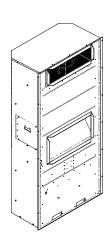


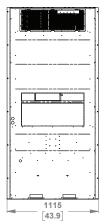
2338

92.0

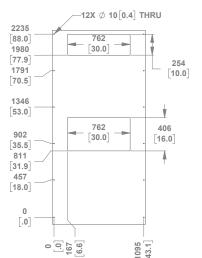








NOTES: 1)UNITS = MM [IN] 2)STEP FILE AVAILABLE UPON REQUEST





PrecisionAir® WS 3.5T

	UNITS				
MODEL NUMBER		PA-WS-AC-42, PA-WS-HP-42			
MOUNTING TYPE		Vertica	al, Outdoor, NEMA/UI	_ 3R, 4	
UNIT DIMENSIONS [HxWxD]	Inches [mm]		92x43.9x24.5 [2337x1115x622]		
WEIGHT	Lbs [kg]		475 [215.5]		
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		42,000 [14kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		1,600 [2,700]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		3,600 [6,100]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
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, 208/230 VAC, 480 VAC, 100 60Hz 300 60Hz 300 60Hz			
COMPRESSOR RLA	Amps	21.1	14.1	6.4	
COMPRESSOR LRA	Amps	105	95	45	
CONDENSER HP	HP	1.5	1.5	1.5	
EVAPORATOR FAN HP	HP	1.3	1.3	1.3	
COOLING CURRENT MIN	Amps	35	20	10	
COOLING CURRENT PROTECTION	Amps	40	25	15	
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0			
COP [HEAT PUMP MODE]		3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvanized Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			



PrecisionAir® WS 4T

	UNITS				
MODEL NUMBER		PA-WS-AC-48, PA-WS-HP-48			
MOUNTING TYPE		Vertical, Outdoor, NEMA/UL 3R, 4			
UNIT DIMENSIONS [HxWxD]	Inches [mm]	92x43.9x24.5 [2337x1115x622]			
WEIGHT	Lbs [kg]	475 [215.5]			
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		48,000 [16kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		1,800 [3,100]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		3,600 [6,100]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
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	480 VAC, 3Ø 60Hz		
COMPRESSOR RLA	Amps	20.5	16.0	7.7	
COMPRESSOR LRA	Amps	115	115	50	
CONDENSER HP	HP	1.5	1.5	1.5	
EVAPORATOR FAN HP	HP	1.3	1.3	1.3	
COOLING CURRENT MIN	Amps	35	20	10	
COOLING CURRENT PROTECTION	Amps	40	25	15	
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0			
COP [HEAT PUMP MODE]		3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvanized Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			



PrecisionAir® WS 5T

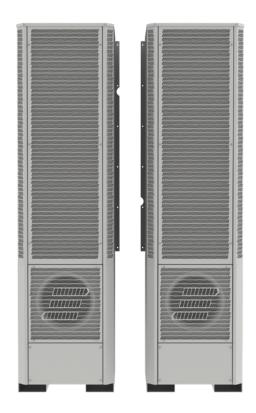
	UNITS				
MODEL NUMBER		PA-WS-AC-60, PA-WS-HP-60			
MOUNTING TYPE		Vertical, Outdoor, NEMA/UL 3R, 4			
UNIT DIMENSIONS [HxWxD]	Inches [mm]	92x43.9x24.5 [2337x1115x622]			
WEIGHT	Lbs [kg]	475 [215.5]			
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		60,000 [20kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		2,200 [3,800]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		3,600 [6,100]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
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	480 VAC, 3Ø 60Hz		
COMPRESSOR RLA	Amps	28.8	17.6	9.6	
COMPRESSOR LRA	Amps	145	123	70	
CONDENSER HP	HP	1.5	1.5	1.5	
EVAPORATOR FAN HP	HP	1.3	1.3	1.3	
COOLING CURRENT MIN	Amps	35	20	10	
COOLING CURRENT PROTECTION	Amps	40	15	15	
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 12.0			
COP [HEAT PUMP MODE]		3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvanized Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			

Precision Air 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 **UNIT TYPE** COLOR AC - AIR CONDITIONER HP - HEAT PUMP 03 - P03 GREY 04 - P04 BEIGE 20 - P20 WHITE 00 - CUSTOM CAPACITY SHEET METAL PACKAGE 48 - 4.0 TON 60 - 5.0 TON G - PAINTED GALVALUME S - STAINLESS STEEL COMPRESSOR TYPE FILTER H - STANDARD 2" MERV8 S - SINGLE STAGE M - MULTI STAGE M - 2" MERV13 V- VARIABLE SPEED **ELECTRIC HEAT** VOLTAGE OUTDOOR VENTILATION B - 208/230-1 S - STANDARD FRESH AIR DAMPER 00 - 0kW D - 208/230-3 05 - 5kW P - POWERED ECONOMIZER WITH EXHAUST 10 - 10kW F - 480-3 15 - 15kW Color Options 03 - P03 Grey 04 - P04 Beige 20 - P20 White 00 - Custom

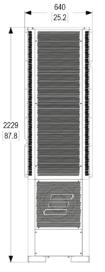


PrecisionAir® SL 4T/5T

Dimensional Drawings

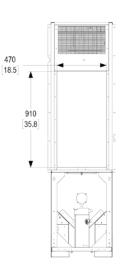


- High-performance BCI fans have high-static pressure capability for improved air flow while reducing noise and energy usage
- All aluminum microchannel condensor coils reduce weight and improve thermal performance
- Bottom outside air loop reduces noise and provides better protection from contaminants
- 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









NOTES:

1) UNITS = MM [IN]

2) STEP FILE AVAILABLE UPON REQUEST



PrecisionAir® SL 4T

	UNITS				
MODEL NUMBER		PA-SL-AC-48, PA-SL-HP-48			
MOUNTING TYPE		Vertica	l, Outdoor, NEMA/U	IL 3R, 4	
UNIT DIMENSIONS [HxWxD]	Inches [mm]		87.8x22.9x25.8 [2230x582x655]		
WEIGHT	Lbs [kg]		450 [204.1]		
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		48,000 [14kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		2,160 [3,700]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		3,600 [6,100]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]			
NOISE 1.5M DISTANCE	dB	72			
HEATER	kWatts	5/10/15kW Options			
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 208/230 VAC, 480 \ 10 60Hz 30 60Hz 30 60			
COMPRESSOR RLA	Amps	20.5	16.0	7.7	
COMPRESSOR LRA	Amps	115	115	50	
CONDENSER HP	HP	1.5	1.5	1.5	
EVAPORATOR FAN HP	HP	1.3	1.3	1.3	
COOLING CURRENT MIN	Amps	35	20	10	
COOLING CURRENT PROTECTION	Amps	40	25	15	
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 11.0			
COP [HEAT PUMP MODE]		3.3 / 3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			



PrecisionAir® SL 5T

	UNITS				
MODEL NUMBER		PA-SL-AC-60, PA-SL-HP-60			
MOUNTING TYPE		Vertica	l, Outdoor, NEMA/U	L 3R, 4	
UNIT DIMENSIONS [HxWxD]	Inches [mm]		87.8x22.9x25.8 [2230x582x655]		
WEIGHT	Lbs [kg]		450 [204.1]		
COOLING CAPACITY 80°F INTERNAL / 95°F AMBIENT	BTU/h [W]		60,000 [20kW]		
MAX INTERNAL AIRFLOW @ .5 IN H2O	CFM [m³/h]		2,160 [3,700]		
MAX EXTERNAL AIRFLOW	CFM [m³/h]		3,600 [6,100]		
REFRIGERANT	Туре	R410a or R454b [GWP=467]			
OPERATIONAL TEMPERATURE RANGE	°F [°C]	-40 to 113 [-40 to 45]			
NOISE 1.5M DISTANCE	dB	72			
HEATER	kWatts	5/10/15kW Options			
INPUT VOLTAGE /FREQUENCY	Volts/Hz	208/230 VAC, 1Ø 60Hz	480 VAC, 3Ø 60Hz		
COMPRESSOR RLA	Amps	28.8	17.6	8.3	
COMPRESSOR LRA	Amps	145	123	70	
CONDENSER HP	HP	1.5	1.5	1.5	
EVAPORATOR FAN HP	НР	1.3	1.3	1.3	
COOLING CURRENT MIN	Amps	35	20	10	
COOLING CURRENT PROTECTION	Amps	40	25	15	
EER [SP=0.1] / EER2 [SP=0.5]		11.0 / 11.0			
COP [HEAT PUMP MODE]		3.3 / 3.3			
APPROVALS		UL/Intertek ANSI/AHRI Standard 390-2021			
CONSTRUCTION		Galvanized & Galvalume Steel, Stainless Steel Optional Textured Powder Coat Standard, Color Options Available			



DANTHERMCOOLING.COM

TECHSUPPORT@DANTHERMCOOLING.COM 864-595-9800

671 SPRINGFIELD ROAD SPARTANBURG, SOUTH CAROLINA 29303