Technical Specifications

Uniflair™ LE

Uniflair LE DX Air-Cooled, Water-Cooled, and Energy-Saving Air Conditioners

15–76 kW
208–230/460/575 V, 3 Ph, 60 Hz

Schneider Electric

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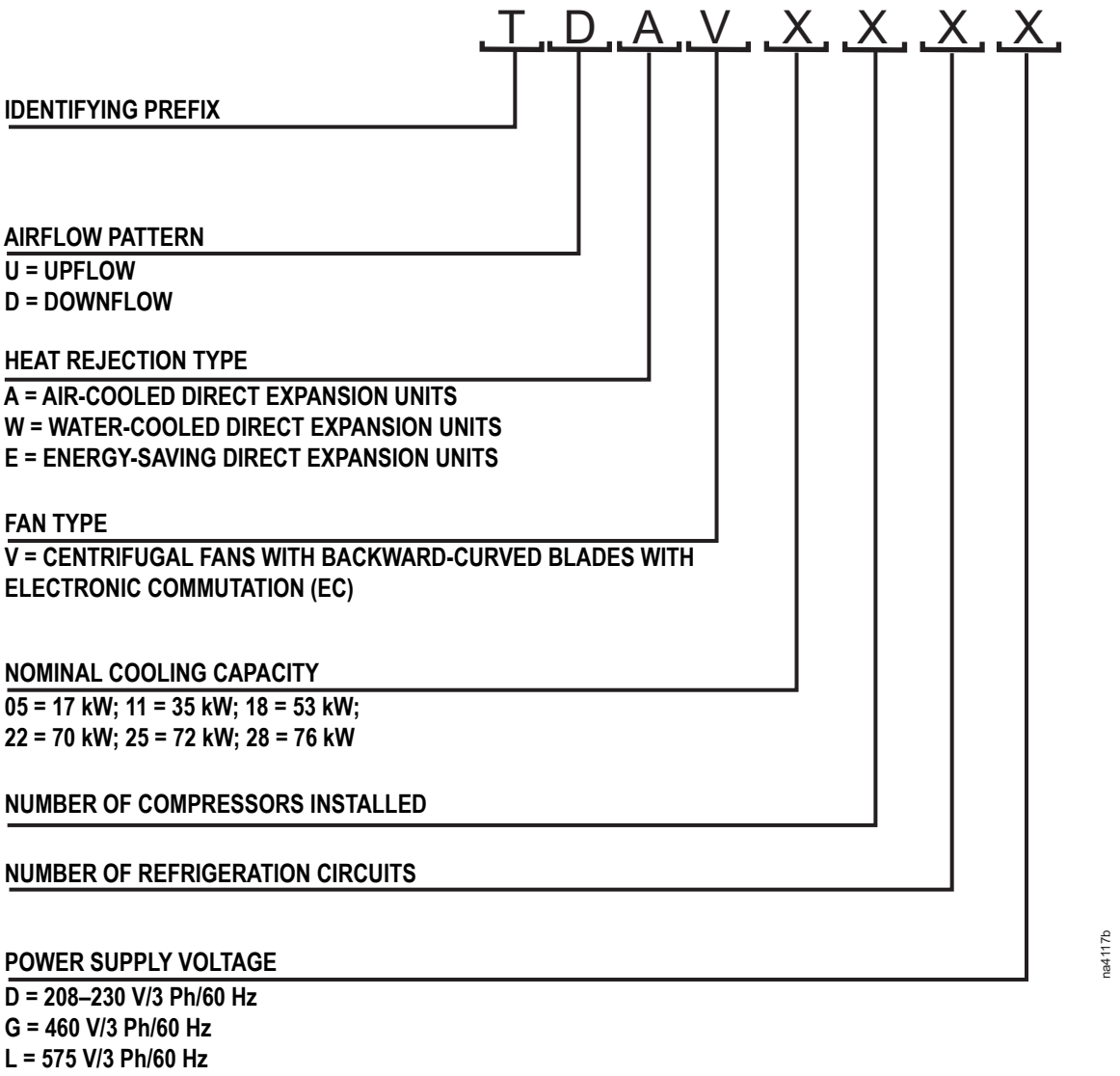
Model Number Nomenclature



Overview

Standard features

Compact design	The Uniflair LE DX line delivers a high capacity of cooling in a small *overall* footprint. Since the system requires only front service access, the units can be placed side by side and valuable floor space is not wasted.
Double-walled panels	The external panels are double-wall-lined internally with fiberglass heat-insulating material 15-mm (0.59-in.) thick and 20 kg/m^3 (0.000723 lb/$in.^3$) of density. Panels are externally coated with epoxy-polyester paint, which ensures long-term durability.
Electronic expansion valve (EEV)	The EEV provides accurate control of the refrigerant superheat in order to ensure an increase in efficiency at low external temperatures because it enables the unit to operate at much lower condensing pressures than would be possible with a traditional mechanical valve.
Electronically commutated fans	Uniflair LE DX units come standard with highly efficient and reliable electronically commutated (EC) fans, which are quiet, low maintenance, and produce very low vibration.
Full front service access	Uniflair LE DX units were designed for all service to be available through the front of the unit (914 mm (36 in.) service clearance recommended).
Group control	Up to 10 Uniflair LE DX units are able to communicate with each other for redundancy, demand-fighting prevention, mode assist, and global sharing of certain settings.
Hydrophilic coated coil	Hydrophilic coating on the coil allows condensate water to more efficiently flow to the pan at the bottom and provides anti-microbial and corrosion protection.
Interior panels	Uniflair LE DX units are equipped with internal panels for isolation of the compartments with hazardous rotating fans. Interior panels ensure reduction in noise as well as the ability to operate the unit with the doors open during servicing.
MERV 8 filters	Uniflair LE DX units use MERV 8 filters to maintain a clean, particle-free environment required in the data center space.
Main power disconnect	A non-fused main power switch disconnects all high voltage power to the unit if necessary. The disconnect switch is accessible from the exterior of the unit.
Tandem scroll compressors	Tandem compressors (for dual circuits only) increase efficiency by utilizing an oversized coil for one compressor during part load operation and allow for multiple stages of cooling capacity when heat loads are increasing or decreasing. Crankcase heaters come standard with all compressors.
Network management card (NMC)	Standard Ethernet connection for SNMP, Modbus, or Web.

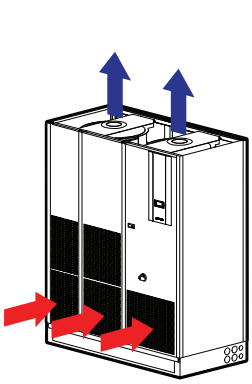
Optional features

- Heat rejection
  - Remote air-cooled condenser
  - Fluid cooler
- Colors:
  - Schneider white—standard
  - Raven black—optional
- Condensate pump
- Dual-pump packages
- Firestat (factory installed)
- Floorstands
- Gravity and motorized dampers
- Humidity control
  - Humidification—steam-generating humidifier
  - Dehumidification—electric reheat
- Low-ambient condenser kits
- MERV 13 filters
- Plenums and sub-bases
- Communication adapters
  - RS232
  - LON
  - BACNET IP (pCOWeb)
  - BACNET MS/TP
  - MODBUS RTU (RS485)
- Smoke detection (factory installed)
- Upflow and downflow configurations
- Water leak detection
  - Spot leak detectors
  - Tape leak detectors
- 65 kA SCCR

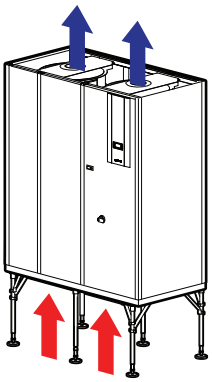
Airflow Configurations

Upflow

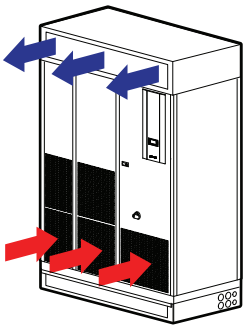
Upflow units distribute air directly to the environment, into a drop ceiling or through an optional supply air plenum. Return air can enter the unit via the front, rear, or bottom of the unit based on configuration. A sub-base is required to allow access for power, water, and refrigerant connections on non-raised floor installations.



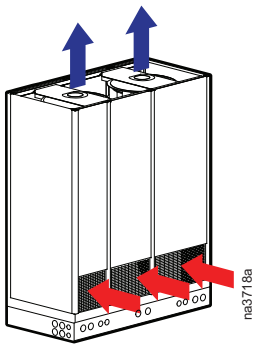
FRONT RETURN WITH TOP SUPPLY



BOTTOM RETURN WITH TOP SUPPLY



FRONT RETURN WITH TOP FRONT SUPPLY (PLENUM AND GRILLE)

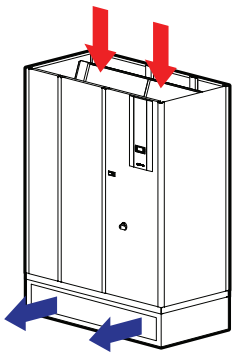


*REAR RETURN WITH TOP SUPPLY

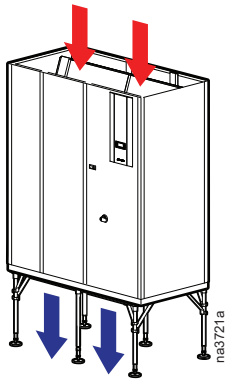
***Units 2242, 2542, and 2842 are not available in upflow rear return.**

Downflow

Downflow units distribute air through a void under a raised access floor or a front supply sub-base plenum when a raised floor is not available. Return air enters the top of the unit directly from the environment.



TOP RETURN WITH BOTTOM SUPPLY (SUB-BASE AND GRILLE)

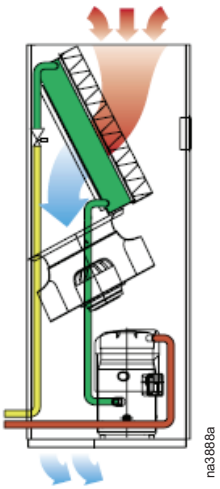


TOP RETURN WITH BOTTOM SUPPLY (FLOORSTAND)

Operating Descriptions

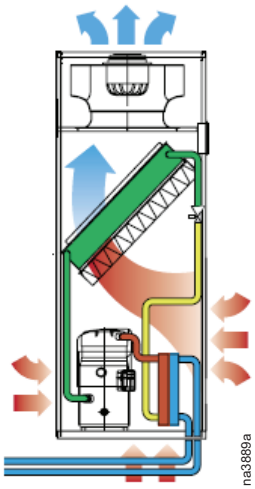
Air-cooled direct expansion units

Air-cooled DX units extract heat from the room and transfer it to the outside using air-cooled refrigerant heat exchangers (condensers). The room unit and external condenser form an autonomous sealed circuit once installed. Each refrigeration circuit must be connected to its remote air-cooled condenser with copper pipe for the discharge of gas and one for the liquid return.



Water-cooled direct expansion units

Water-cooled DX units transfer extracted heat from the room to water via a stainless steel brazed plate heat exchanger within the unit. The cooling water may be fed from the main supply, a cooling tower or a well (open circuit), or recycled in a closed loop cooled by external coolers. Water-cooled units have the advantage that the refrigerant circuits are charged and sealed in the factory. This makes installation extremely simple, eliminating the need for any site-installed refrigerant piping.

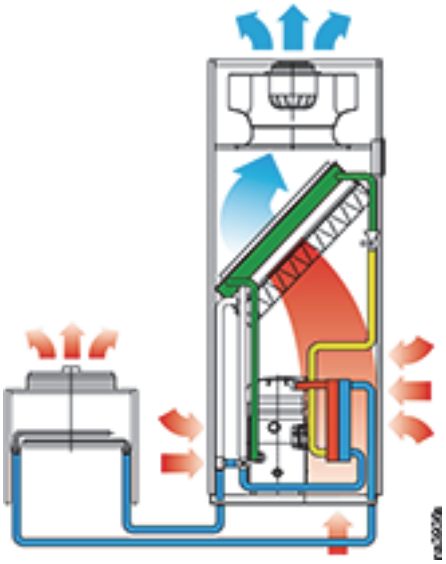


Energy-saving units

Energy-saving units represent an energy-efficient solution in cool or temperate climates. The operating principle exploits the free-cooling effect available when the outside air temperature is lower than that in the conditioned space: the lower the outside temperature, the greater the energy saving.

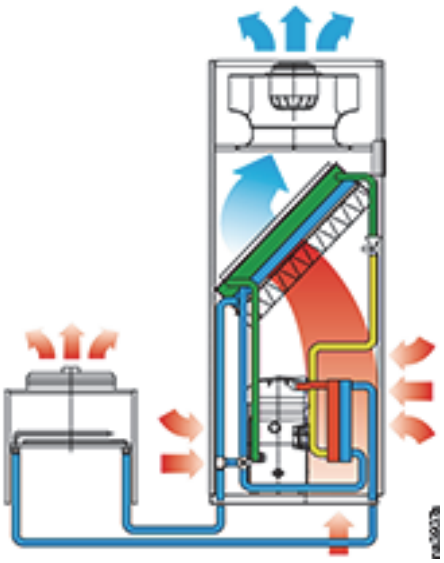
The sophisticated microprocessor controls manage the operation of the unit automatically in three different situations.

In the summer, the unit operates as a normal closed-circuit water-cooled system.



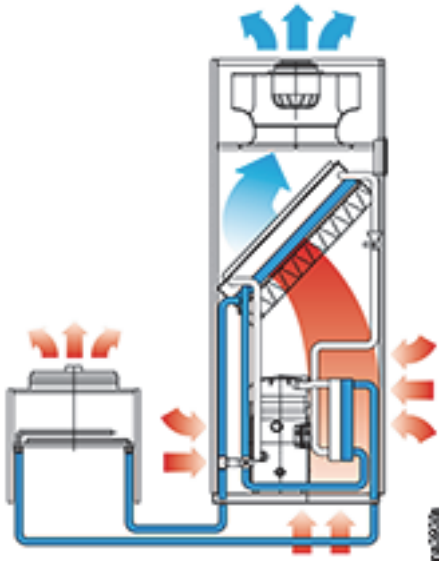
As the external temperature falls, the water can be used directly for the free-cooling of the air.

In this case, the water is circulated in the coil inside the unit, and both the refrigerant circuit and the water circuit contribute to cooling, thus reducing the energy used by the compressor.



If the outside temperature falls further to where the water circuit can dissipate the entire heat load from the room, the refrigerant circuit is shut down completely and the unit functions as a traditional chilled water unit with a modulating valve.

With this technology, energy-saving units provide significant reductions in operating costs and payback periods.



Performance Specifications

Net cooling capacity—air-cooled units (TDAV, TUAV)

Model		0511	1121	1822	2242	2542
23.9°C DB, 16.1°C WB, 11.1°C DP (75°F DB, 61°F WB, 52°F DP) 44.6% RH						
Total	BTU/hr	54,000	109,000	171,000	217,000	220,000
	kW	15.9	32.0	44.9	63.6	64.4
Sensible	BTU/hr	54,000	109,000	171,000	217,000	220,000
	kW	15.9	32.0	50.2	63.6	64.4
26.7°C DB, 17.1°C WB, 11.1°C DP (80°F DB, 63°F WB, 52°F DP) 37.8% RH						
Total	BTU/hr	57,000	115,000	161,000	229,000	231,000
	kW	16.7	33.6	47.3	67.2	67.7
Sensible	BTU/hr	57,000	115,000	161,000	229,000	231,000
	kW	16.7	33.6	47.3	67.2	67.7
26.7°C DB, 18°C WB, 11.1°C DP (85°F DB, 64°F WB, 52°F DP) 32.2% RH						
Total	BTU/hr	60,000	120,000	169,000	242,000	242,000
	kW	17.5	35.1	49.6	70.9	71.0
Sensible	BTU/hr	60,000	120,000	169,000	242,000	242,000
	kW	17.5	35.1	49.6	70.9	71.0

Note: All values are accurate to +/– 5% and based on nominal fan speed with standard filter.
Note: Contact the local sales representative for special conditions.
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542
Electric Reheat—Staged Aluminum Finned, Low Watt Density					
Capacity* – kW @ 460 V	6	12	12	18	18
Number of Elements	2	4	4	6	6
Number of Stages	1	3	3	3	3
Capacity* – kW @ 230 V	6	15	15	18	18
Number of Elements	2	5	5	6	6
Number of Stages	1	3	3	3	3
Capacity* – kW @ 575 V	6	15	15	18	18
Number of Elements	2	5	5	6	6
Number of Stages	1	3	3	3	3
Hot Gas Reheat at 24ºC (75°F) EAT**					
Capacity* – kW (BTU/hr)	9.5 (32,400)	18.8 (64,000)	13.5 (46,090)	N/A	N/A
Humidification—Steam Canister Immersed Electrode					
Capacity – kg/hr (lb/hr)	5 (11)	8 (18)	8 (18)	8 (18)	8 (18)
Power Input – kW	3.7	6	6	6	6
Flush Cycle	Automatic	Automatic	Automatic	Automatic	Automatic
Evaporator Blower/Motor—Direct Drive Electronic Commutation (EC) Backward Curved Fans					
Nominal Horsepower	3.8	4	4	4	4
CFM @ m^3h @ 50 Pa (0.20 in. WC ESP)	5,946.5 (3500)	12,063.0 (7100)	15,800.8 (9300)	21,407.5 (12 600)	21,407.5 (12 600)
Quantity	1	2	2	3	3
Evaporator Coil—Slab, Copper Tube/Aluminum Fin, Hydrophilic Coated					
Face Area – m^2 (ft^2)	0.67 (7.5)	1.3 (14.0)	1.6 (17.2)	2.3 (24.8)	2.3 (24.8)
Rows	3	3	3	4	4
Face Velocity – m/min. (FPM)	142.3 (467)	154.5 (507)	164.9 (541)	154.8 (508)	154.8 (508)

*Includes motor heat, with equal loading on each phase.
**Per circuit
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542
Compressors—Tandem Scroll (24°C (75°F) RAT / 50% RH)					
Quantity	1	2	2	4	4
Power Input – kW	5500	11 100	16 900	23 600	25 000
Refrigerant	R410A	R410A	R410A	R410A	R410A
Connection Sizes (Not Recommended Piping Sizes)					
Refrigerant					
Liquid Line – in. (OD)	5/8	5/8	5/8	5/8	5/8
Hot Gas Line – in. (OD)	5/8	7/8	7/8	7/8	7/8
Condensate					
Drain Line with humidification – in. (ID hose)	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Drain Line without humidification – in. (ID hose)	1	1	1	1	1
Humidifier					
Supply Line – in. (NPT male)	3/4	3/4	3/4	3/4	3/4

*Includes motor heat, with equal loading on each phase.
**Per circuit
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542
Filters—Pleated Disposable					
Downflow					
Filter 1					
Quantity	2	4	5	5	5
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)	785 × 486 (30.9 x 19.1)	785 × 486 (30.9 x 19.1)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Upflow—Bottom or Front Return					
Filter 1					
Quantity	2	4	5	3	3
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)	1020 × 423 (40.2 x 16.7)	1020 × 423 (40.2 x 16.7)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Filter 2					
Quantity	N/A	N/A	N/A	2	2
Size – mm (in.)				970 × 555 (38.2 x 21.9)	970 × 555 (38.2 x 21.9)
Depth – mm (in.)				95 (3.7)	95 (3.7)
Upflow—Rear Return					
Filter 1					
Quantity	2	4	5	N/A	N/A
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)		
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)		
Approximate Weight					
kg	430	548	714	910	930
lb	618	1209	1575	2006	2051

Net cooling capacity—water-cooled DX units (TDWV, TUWV)

Model		0511	1121	1822	2242	2542	2842
23.9°C DB, 16.1°C WB, 11.1°C DP (75°F DB, 61°F WB, 52°F DP) 44.6% RH							
Total	BTU/hr	55,000	117,000	156,000	229,000	235,000	254,000
	kW	16.0	34.3	45.7	67.1	69.0	74.4
Sensible	BTU/hr	55,000	117,000	156,000	210,000	235,000	254,000
	kW	16.0	34.3	45.7	61.6	69.0	74.4
26.7°C DB, 17.1°C WB, 11.1°C DP (80°F DB, 63°F WB, 52°F DP) 37.8% RH							
Total	BTU/hr	57,000	123,000	164,000	233,000	247,000	269,000
	kW	16.8	36.0	48.0	68.4	72.5	78.8
Sensible	BTU/hr	57,000	123,000	164,000	233,000	247,000	269,000
	kW	16.8	36.0	48.0	68.4	72.5	78.8
26.7°C DB, 18°C WB, 11.1°C DP (85°F DB, 64°F WB, 52°F DP) 32.2% RH							
Total	BTU/hr	60,000	129,000	172,000	246,000	260,000	284,000
	kW	17.7	37.7	50.3	72.1	76.1	83.2
Sensible	BTU/hr	60,000	129,000	172,000	246,000	260,000	284,000
	kW	17.7	37.7	50.3	72.1	76.1	83.2

Note: All values are accurate to +/– 5% and based on nominal fan speed with standard filter.
Note: Contact the local sales representative for special conditions.
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542	2842
Electric Reheat—Staged Aluminum Finned, Low Watt Density						
Capacity* – kW @ 460 V	6	12	12	18	18	18
Number of Elements	2	4	4	6	6	6
Number of Stages	1	3	3	3	3	3
Capacity* – kW @ 230 V	6	15	15	18	18	18
Number of Elements	2	5	5	6	6	6
Number of Stages	1	3	3	3	3	3
Capacity* – kW @ 575 V	6	15	15	18	18	18
Number of Elements	2	5	5	6	6	6
Number of Stages	1	3	3	3	3	3
Hot Gas Reheat with water 35°C (95°F) LWT, 30°C (86°F) EWT, 24°C (75°F) EAT						
Capacity* – kW (BTU/hr)	9.1 (31200)	18.1 (61700)	12.7 (43300)	N/A	N/A	N/A
Humidification—Steam Canister Immersed Electrode						
Capacity – kg/Hr (lb/hr)	5 (11)	8 (18)	8 (18)	8 (18)	8 (18)	8 (18)
Power Input – kW	3.7	6	6	6	6	6
Flush Cycle	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Evaporator Blower/Motor—Direct Drive Electronic Commutation (EC) Backward Curved Fans						
Nominal Horsepower	3.8	4	4	4	4	4
CFM @ m^3h @ 50 Pa (0.20 in. WC ESP)	5946.5 (3500)	12063.0 (7100)	15800.8 (9300)	21407.5 (12600)	21407.5 (12600)	21407.5 (12600)
Quantity	1	2	2	3	3	3

*Includes motor heat, with equal loading on each phase.
**Per circuit
***One valve per refrigerant circuit
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542	2842
Evaporator Coil—Slab, Copper Tube/Aluminum Fin, Hydrophilic Coated						
Face Area – m^2 (ft^2)	0.7 (7.5)	1.3 (14.0)	1.6 (17.2)	2.3 (24.8)	2.3 (24.8)	2.3 (24.8)
Rows	3	3	3	4	4	5
Face Velocity – m/min. (FPM)	142.3 (467)	154.5 (507)	164.9 (541)	154.8 (508)	154.8 (508)	154.8 (508)
Compressors—Tandem Scroll (24°C (75°F) RAT / 50% RH)						
Quantity	1	2	2	4	4	4
Power Input – Watts	4700	9700	14 300	16 100	18 500	18 100
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A
Water Cooled Condenser Data						
Flow – LPM @ 29°C EWT/ 35°C LWT (GPM @ 85°F EWT/95°F LWT)	72.7 (16.0)	147.3 (32.4)	217.3 (47.8)	318.7 (70.1)	338.7 (74.5)	364.1 (80.1)
Brazed Plate Pressure Drop – ft H_2O**	4.3	4.2	3.6	14.5	16.2	13.0
Valve Pressure Drop – ft H_2O	3.0	6.0	3.3	7.0	8.0	9.2
Optional Head Pressure Control—Water Regulating Valves, 350 PSIG (Factory Installed)* **						
Optional	2-Way	2-Way	2-Way	2-Way	2-Way	2-Way
Optional	3-Way	3-Way	3-Way	3-Way	3-Way	3-Way
Connection Sizes (Not Recommended Piping Sizes)						
Condenser						
In/Out – in. (OD)	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8
Condensate						
Drain Line w/ humidification – in. (ID hose)	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Drain Line w/o humidification – in. (ID hose)	1	1	1	1	1	1
Humidifier						
Supply Line – in. (NPT male)	3/4	3/4	3/4	3/4	3/4	3/4

*Includes motor heat, with equal loading on each phase.
**Per circuit
***One valve per refrigerant circuit
Note: All data tested in accordance with ASHRAE 127.

Filters (MERV 8)—Pleated Disposable						
Downflow						
Filter 1						
Quantity	2	4	5	5	5	5
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)	785 × 486 (30.9 x 19.1)	785 × 486 (30.9 x 19.1)	785 × 486 (30.9 x 19.1)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Upflow—Bottom or Front Return						
Filter 1						
Quantity	2	4	5	3	3	3
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)	1020 × 423 (40.2 x 16.7)	1020 × 423 (40.2 x 16.7)	1020 × 423 (40.2 x 16.7)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Filter 2						
Quantity	N/A	N/A	N/A	2	2	2
Size – mm (in.)				970 × 555 (38.2 x 21.9)	970 × 555 (38.2 x 21.9)	970 × 555 (38.2 x 21.9)
Depth – mm (in.)				95 (3.7)	95 (3.7)	95 (3.7)
Upflow—Rear Return						
Filter 1						
Quantity	2	4	5	N/A	N/A	N/A
Size – mm (in.)	830 × 445 (32.7 x 17.5)	845 × 397 (33.3 x 15.6)	845 × 410 (33.3 x 16.1)			
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)			
Approximate Weight						
kg	280	548	714	910	930	1098
lb	618	1209	1575	2006	2051	2421

Net cooling capacity—energy-saving units (TDEV, TUEV)

DX mode

Model			0511	1121	1822	2242	2542	2842
23.9°C DB, 16.1°C WB, 11.1°C DP (75°F DB, 61°F WB, 52°F DP) 44.6% RH								
Upflow	Total	BTU/hr	58,000	118,000	169,000	240,000	254,000	272,000
		kW	17	34.5	49.5	70.2	74.3	79.7
	Sensible	BTU/hr	58,000	118,000	169,000	235,000	236,000	245,000
		kW	17	34.5	49.5	68.8	69.1	71.7
Downflow	Total	BTU/hr	58,000	118,000	169,000	232,000	249,000	260,000
		kW	16.9	34.5	49.5	68	73	76.2
	Sensible	BTU/hr	58,000	118,000	169,000	223,000	239,000	236,000
		kW	16.9	34.5	49.5	65.3	70.1	69.3
26.7°C DB, 17.1°C WB, 11.1°C DP (80°F DB, 63°F WB, 52°F DP) 37.8% RH								
Upflow	Total	BTU/hr	61,000	124,000	179,000	246,000	261,000	279,000
		kW	17.9	36.3	52.4	72.2	76.6	81.7
	Sensible	BTU/hr	61,000	124,000	179,000	246,000	261,000	279,000
		kW	17.9	36.3	52.4	72.2	76.6	81.7
Downflow	Total	BTU/hr	61,000	124,000	179,000	239,000	258,000	268,000
		kW	17.8	36.3	52.4	70	75.6	78.5
	Sensible	BTU/hr	61,000	124,000	179,000	239,000	258,000	268,000
		kW	17.8	36.3	52.4	70	75.6	78.5
26.7°C DB, 18°C WB, 11.1°C DP (85°F DB, 64°F WB, 52°F DP) 32.2% RH								
Upflow	Total	BTU/hr	64,000	130,000	189,000	259,000	274,000	294,000
		kW	18.7	38	55.2	75.9	80.4	86.2
	Sensible	BTU/hr	64,000	130,000	188,000	259,000	274,000	294,000
		kW	18.7	38	55.2	75.9	80.4	86.2
Downflow	Total	BTU/hr	63,000	130,000	188,000	251,000	271,000	283,000
		kW	18.6	38	55.2	73.6	79.4	82.8
	Sensible	BTU/hr	63,000	130,000	188,000	251,000	271,000	283,000
		kW	18.6	38	55.2	73.6	79.4	82.8

Note: All values are accurate to +/– 5% and based on nominal fan speed with standard filter.
Note: Contact the local sales representative for special conditions.
Note: All data tested in accordance with ASHRAE 127.

Free-cooling mode

Model			0511	1121	1822	2242	2542	2842
23.9°C DB, 16.1°C WB, 11.1°C DP (75°F DB, 61°F WB, 52°F DP) 44.6% RH								
Upflow	Total	BTU/hr	47,000	87,000	136,000	289,000	285,000	292,000
		kW	13.8	25.6	40	84.7	83.5	85.7
	Sensible	BTU/hr	47,000	87,000	136,000	289,000	285,000	292,000
		kW	13.8	25.6	40	84.7	83.5	85.7
Downflow	Total	BTU/hr	44,000	87,000	136,000	279,000	278,000	251,000
		kW	13	25.6	40	81.9	81.5	73.7
	Sensible	BTU/hr	44,000	87,000	136,000	279,000	278,000	226,000
		kW	13	25.6	40	81.9	81.5	66.3
26.7°C DB, 17.1°C WB, 11.1°C DP (80°F DB, 63°F WB, 52°F DP) 37.8% RH								
Upflow	Total	BTU/hr	58,000	109,000	168,000	349,000	344,000	353,000
		kW	17	31.8	49.3	102.2	100.8	103.6
	Sensible	BTU/hr	58,000	109,000	168,000	349,000	344,000	353,000
		kW	17	31.8	49.3	102.2	100.8	103.6
Downflow	Total	BTU/hr	55,000	109,000	168,000	338,000	337,000	274,000
		kW	16.1	31.8	49.3	99.1	98.7	80.3
	Sensible	BTU/hr	55,000	109,000	168,000	338,000	337,000	274,000
		kW	16.1	31.8	49.3	99.1	98.7	80.3
26.7°C DB, 18°C WB, 11.1°C DP (85°F DB, 64°F WB, 52°F DP) 32.2% RH								
Upflow	Total	BTU/hr	69,000	128,000	198,000	405,000	399,000	411,000
		kW	20.1	37.6	58.1	118.7	117	120.4
	Sensible	BTU/hr	69,000	128,000	198,000	405,000	399,000	411,000
		kW	20.1	37.6	58.1	118.7	117	120.4
Downflow	Total	BTU/hr	65,000	128,000	198,000	393,000	392,000	321,000
		kW	19.1	37.6	58.1	115.3	114.9	94.1
	Sensible	BTU/hr	65,000	128,000	198,000	393,000	392,000	321,000
		kW	19.1	37.6	58.1	115.3	114.9	94.1

Note: All values are accurate to +/– 5% and based on nominal fan speed with standard filter.
Note: Contact the local sales representative for special conditions.
Note: All data tested in accordance with ASHRAE 127.

All modes

Model	0511	1121	1822	2242	2542	2842
Electric Reheat—Staged Aluminum Finned, Low Watt Density						
Capacity* – kW @ 460 V	6	12	12	18	18	18
Number of Elements	2	4	4	6	6	6
Number of Stages	1	3	3	3	3	3
Capacity* – kW @ 230 V	6	15	15	18	18	18
Number of Elements	2	5	5	6	6	6
Number of Stages	1	3	3	3	3	3
Capacity* – kW @ 575 V	6	15	15	18	18	18
Number of Elements	2	5	5	6	6	6
Number of Stages	1	3	3	3	3	3
Hot Gas Reheat with water 35°C (95°F) LWT, 30°C (86°F) EWT, 24°C (75°F) EAT						
Capacity* – kW(BTU/hr)	32,900 (9.6)	60,500 (17.7)	40,800 (12.0)	N/A	N/A	N/A
Humidification—Steam Canister Immersed Electrode						
Capacity – kg/Hr (lb/hr)	5 (11)	8 (18)	8 (18)	8 (18)	8 (18)	8 (18)
Power Input – kW	3.7	6.0	6.0	6.0	6.0	6.0
Flush Cycle	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Evaporator Blower/Motor—Direct Drive Electronic Commutation (EC) Backward Curved Fans						
Nominal Horsepower	3.8	4.0	4.0	4.0	4.0	4.0
CFM @ m^3h @ 50 Pa (0.20 in. WC ESP)	5946.5 (3,500)	12063.0 (7,100)	15800.8 (9,300)	21407.5 (12,600)	21407.5 (12,600)	21407.5 (12,600)
Quantity	1	2	2	3	3	3
Evaporator/Free Cooling Coil—Interlaced, Slab, Copper Tube/Aluminum Fin, Hydrophilic Coated						
Face Area – $m^2(ft^2)$	7.5 (0.7)	14.0 (1.3)	17.2 (1.6)	24.8 (2.3)	24.8 (2.3)	24.8 (2.3)
Rows	3	3	3	4	4	5
Face Velocity – m/min. (FPM)	142.3 (467)	154.5 (507)	164.9 (541)	154.8 (508)	154.8 (508)	154.8 (508)
Compressors—Tandem Scroll (24°C (75°F) RAT / 50% RH)						
Quantity	1	2	2	4	4	4
Power Input – Watts	4800	9700	14 300	18 800	28 900	21 200
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A
Water Cooled Condenser Data						
Flow (GPM @ 30°C (86°F) EWT / 35°C (95°F) LWT)	17.7	36.6	53.5	72.8	79.1	83.2
Brazed Plate Pressure Drop – ft of H_2O	5.6	5.6	4.8	17.7	9.4	15.4
Valve Pressure Drop – ft of H_2O**	3.7	7.3	4.1	8.8	10.1	11.2
Econ Coil Pressure Drop – ft of H_2O	6.2	8.1	5.1	9.2	9.2	9.2
Water Circuit Capacity – l (gal)	5 (1.3)	14 (3.7)	17 (4.5)	22 (5.8)	22 (5.8)	22 (5.8)
Connection Sizes (not recommended piping sizes)						
Condenser						
In/Out – in. (OD)	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8
Condensate						
Drain Line w/ humidification – in. (ID hose)	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Drain Line w/o humidification – in. (ID hose)	1	1	1	1	1	1
Humidifier						
Supply Line – in. (NPT male)	3/4	3/4	3/4	3/4	3/4	3/4

*Includes Motor Heat, with equal loading on each phase
**Per circuit
***One valve per refrigerant circuit
Note: All data tested in accordance with ASHRAE 127.

Model	0511	1121	1822	2242	2542	2842
Filters (MERV 8)—Pleated Disposable						
Downflow						
Filter 1						
Quantity	2	3	2	3	3	3
Size – mm (in.)	830 x 421 (32.7 x 16.6)	845 x 375 (33.3 x 14.8)	845 x 375 (33.3 x 14.8)	1020 x 410 (40.2 x 16.1)	1020 x 410 (40.2 x 16.1)	1020 x 410 (40.2 x 16.1)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Filter 2						
Quantity	N/A	1	3	2	2	2
Size – mm (in.)		845 x 397 (33.3 x 15.6)	845 x 410 (33.3 x 16.1)	970 x 555 (38.1 x 21.9)	970 x 555 (38.1 x 21.9)	970 x 555 (38.1 x 21.9)
Depth – mm (in.)		95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Upflow—Bottom or Front Return						
Filter 1						
Quantity	2	3	2	3	3	3
Size – mm (in.)	830 x 421 (32.7 x 16.6)	845 x 375 (33.3 x 14.8)	845 x 375 (33.3 x 14.8)	1020 x 410 (40.2 x 16.1)	1020 x 410 (40.2 x 16.1)	1020 x 410 (40.2 x 16.1)
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Filter 2						
Quantity	N/A	1	3	2	2	2
Size – mm (in.)		845 x 397 (33.3 x 15.6)	845 x 410 (33.3 x 16.1)	970 x 555 (38.1 x 21.9)	970 x 555 (38.1 x 21.9)	970 x 555 (38.1 x 21.9)
Depth – mm (in.)		95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Upflow—Rear Return						
Filter 1						
Quantity	2	3	2	N/A	N/A	N/A
Size – mm (in.)	830 x 421 (32.7 x 16.6)	845 x 375 (33.3 x 14.8)	845 x 375 (33.3 x 14.8)			
Depth – mm (in.)	45 (1.7)	95 (3.7)	95 (3.7)			
Filter 2						
Quantity	N/A	1	3	N/A	N/A	N/A
Size – mm (in.)		845 x 397 (33.3 x 15.6)	845 x 410 (33.3 x 16.1)			
Depth – mm (in.)		95 (3.7)	95 (3.7)			
Approximate Weight						
kg	280	548	714	910	930	1098
lb	618	1209	1575	2006	2051	2421

Glycol correction factors

The units with brazed-plate heat exchangers are designed to operate with a pure-water condensing loop. If glycol is added to this loop for freeze protection, refer to the following tables.

Performance Criteria	Glycol Solution	Percent Volume of Solution					
		0	10%	20%	30%	40%	50%
Capacity*	Ethylene	1.00	0.96	0.94	0.91	0.87	0.84
	Propylene	1.00	0.98	0.97	0.94	0.91	0.88
Pressure Drop**	Ethylene	1.00	1.04	1.14	1.24	1.36	1.50
	Propylene	1.00	1.10	1.23	1.43	1.67	1.92

Values are derived using the Darcy-Weisbach pressure drop equation at 50°F and 1 atmosphere and Type L copper pipe.
All correction factors are based on the unit entering the following conditions:
29.4°C (85°F) DB/18.1°C (64.5°F) WB, 2832 l/s (6000 CFM), 1.72 l/s (27.3 GPM), and 7.2°C (45°F) EFT.
*Multiply capacity of device or system by factor above for % solution.
**Multiply pressure drop of system by factor above for % solution.

Electrical Specifications

DX models with condensate pump

Reheat Option		Electric Reheat			None			Electric Reheat			None		
Humidifier Option		Humidifier			Humidifier			None			None		
Model	Voltage	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP
0511	208	42.6	54.2	70	39.4	47.6	60	42.6	54.2	70	29.0	37.2	50
	230	43.8	55.8	70	38.2	46.4	60	43.8	55.8	70	28.8	37.0	50
	460	27.2	34.9	40	18.8	23.3	30	27.2	34.9	40	14.1	18.6	25
	575	18.3	20.6	25	16.1	16.8	20	18.3	20.6	25	12.3	13.1	20
1121	208	90.1	110.3	125	72.7	84.4	100	89.7	109.8	110	55.6	67.3	80
	230	93.4	114.4	125	70.8	82.4	100	93.0	114.0	125	55.3	66.9	80
	460	49.8	61.9	70	34.7	41.2	50	49.6	61.7	70	27.0	33.5	40
	575	38.8	44.9	45	29.8	32.1	35	38.6	43.8	45	23.6	25.0	30
1822	208	88.7	101.1	125	88.7	101.1	125	82.2	99.9	110	71.6	83.9	110
	230	86.8	104.5	125	86.8	99.1	125	85.5	104.1	110	71.3	83.6	110
	460	46.7	55.6	60	43.3	47.1	50	46.5	55.4	60	35.6	39.3	50
	575	36.4	41.2	50	36.4	39.3	50	35.0	40.1	45	30.2	32.2	40
2242	208	113.5	132.0	150	113.5	132.0	150	106.1	127.5	150	96.3	114.9	125
	230	111.6	133.1	150	111.6	130.0	150	110.1	132.6	150	96.1	114.5	125
	460	54.9	66.7	70	54.6	65.2	70	54.7	66.5	70	46.9	57.5	60
	575	47.7	52.5	60	47.7	51.3	60	45.7	51.4	60	41.5	44.2	50
2542	208	117.9	148.2	150	117.9	148.2	150	108.3	136.1	150	100.7	131.0	150
	230	116.0	146.2	150	116.0	146.2	150	112.3	141.2	150	100.5	130.7	150
	460	58.4	76.3	80	58.4	76.3	80	56.6	72.4	80	50.7	68.5	80
	575	46.8	55.1	60	46.8	55.1	60	45.3	53.5	60	40.6	48.1	50
2842	208	129.0	145.6	150	129.0	145.6	150	113.8	134.7	150	111.9	128.5	150
	230	127.1	143.6	150	127.1	143.6	150	117.9	139.8	150	111.7	128.1	150
	460	59.9	76.3	80	59.9	76.3	80	57.3	72.4	80	52.2	68.5	80
	575	48.3	59.4	60	48.3	59.4	60	46.1	55.7	60	42.1	52.3	60

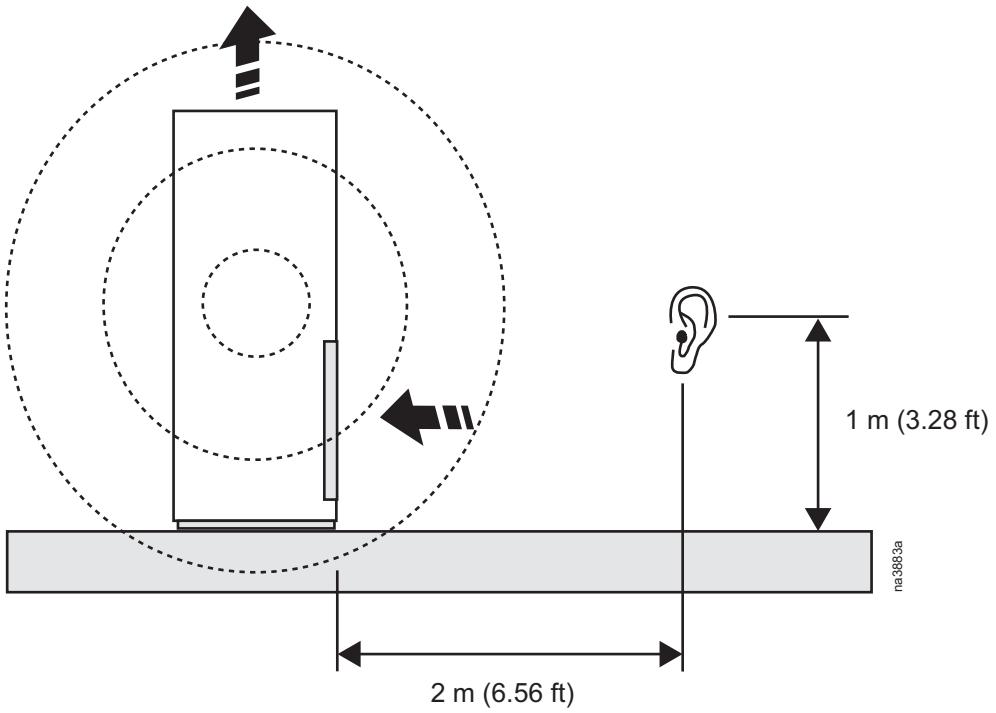
NOTE: 5 kA SCCR is standard for all units; 65 kA SCCR options are available. SCCR is the maximum short circuit a component, assembly, or equipment can safely withstand when protected by a specific overcurrent protective device or for a specified time interval.

DX models without condensate pump

Reheat Option		Electric Reheat			None			Electric Reheat			None		
Humidifier Option		Humidifier			Humidifier			None			None		
Model	Voltage	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP
0511	208	40.3	51.9	60	37.1	45.3	60	40.3	51.9	60	26.7	34.9	50
	230	41.5	53.5	60	35.9	44.1	60	41.5	53.5	60	26.5	34.7	50
	460	26.0	33.7	40	17.6	22.1	30	26.0	33.7	40	12.9	17.4	25
	575	17.4	20.6	25	15.1	16.8	20	17.4	20.6	25	11.3	13.1	20
1121	208	87.8	108.0	110	70.4	82.1	100	87.4	107.5	110	53.3	65.0	80
	230	91.1	112.1	125	68.5	80.1	90	90.7	111.7	125	53.0	64.6	80
	460	48.6	60.7	70	33.5	40.0	45	48.4	60.5	70	25.8	32.3	40
	575	37.8	44.9	45	28.8	32.1	35	37.7	43.8	45	22.6	25.0	30
1822	208	86.4	98.8	125	86.4	98.8	125	79.9	97.6	110	69.3	81.6	100
	230	84.5	102.2	110	84.5	96.8	110	83.2	101.8	110	69.0	81.3	100
	460	45.5	54.4	60	42.1	45.9	50	45.3	54.2	60	34.4	38.1	50
	575	35.5	41.2	50	35.5	39.3	50	34.1	40.1	45	29.3	32.2	40
2242	208	111.2	129.7	150	111.2	129.7	150	103.8	125.2	150	94.0	112.6	125
	230	109.3	130.8	150	109.3	127.7	150	107.8	130.3	150	93.8	112.2	125
	460	53.7	65.5	70	53.4	64.0	70	53.5	65.3	70	45.7	56.3	60
	575	46.7	52.5	60	46.7	51.3	60	44.8	51.4	60	40.5	44.2	50
2542	208	115.6	145.9	150	115.6	145.9	150	106.0	133.8	150	98.4	128.7	150
	230	113.7	143.9	150	113.7	143.9	150	110.0	138.9	150	98.2	128.4	150
	460	57.2	75.1	80	57.2	75.1	80	55.4	71.2	80	49.5	67.3	70
	575	45.9	55.1	60	45.9	55.1	60	44.4	53.5	60	39.7	48.1	50
2842	208	126.7	143.3	150	126.7	143.3	150	111.5	132.4	150	109.6	126.2	150
	230	124.8	141.3	150	124.8	141.3	150	115.6	137.5	150	109.4	125.8	150
	460	58.7	75.1	80	58.7	75.1	80	56.1	71.2	80	51.0	67.3	70
	575	47.4	59.4	60	47.4	59.4	60	45.1	55.7	60	41.2	52.3	60

Sound Data

Sound pressure measurement positioning



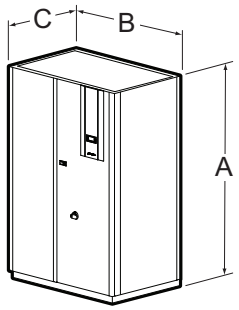
Test results

Model	Airflow	Hz Linear Frequency – dB							dB(A)
		63	125	250	500	1000	2000	4000	
Upflow No Raised Floor									
TU*V0511	**5740 m^3/h @ 20 Pa (3378 CFM @ 0.08 in. WC)**	27.7	47.5	42.8	39.0	37.7	29.4	24.5	49.6
TU*V1121	**12 230 m^3/h @ 20 Pa (7198 CFM @ 0.08 in. WC)**	64.1	69.7	58.2	51.1	43.1	38.0	31.3	56.2
TU*V1822	**16 030 m^3/h @ 20 Pa (9435 CFM @ 0.08 in. WC)**	65.6	71.2	59.7	52.6	44.6	39.5	32.8	57.7
Upflow Raised Floor									
TU*V0511	**5940 m^3/h @ 20 Pa (3496 CFM @ 0.08 in. WC)**	24.7	44.5	39.8	36.0	34.7	26.4	21.5	46.6
TU*V1121	**12 230 m^3/h @ 20 Pa (7198 CFM @ 0.08 in. WC)**	64.1	69.7	58.2	51.1	43.1	38.0	31.3	56.2
TU*V1822	**18 880 m^3/h @ 20 Pa (11,112.35 CFM @ 0.08 in. WC)**	65.6	71.2	59.7	52.6	44.6	39.5	32.8	57.7
TU*V2242	**22 000 m^3/h @ 20 Pa (12,949 CFM @ 0.08 in. WC)**	67.7	76.3	62.	53.3	47.5	43.3	39.9	61.7
TU*V2542	**23 000 m^3/h @ 20 Pa (13,537 CFM @ 0.08 in. WC)**	68.0	76.6	62.2	53.7	47.9	43.7	40.3	62.0
TU*V2842	**23 500 m^3/h @ 20 Pa (13,832 CFM @ 0.08 in. WC)**	68.4	77.3	62.8	54.1	48.8	44.3	41.3	62.7
Downflow									
TD*V0511	**5740 m^3/h @ 20 Pa (3378 CFM @ 0.08 in. WC)**	24.7	44.5	39.8	36.0	34.7	26.4	21.5	46.6
TD*V1121	**12 230 m^3/h @ 20 Pa (17,198 CFM @ 0.08 in. WC)**	62.3	67.9	56.4	49.3	41.3	36.2	29.5	54.4
TD*V1822	**16 030 m^3/h @ 20 Pa (9435 CFM @ 0.08 in. WC)**	63.8	69.4	57.9	50.8	42.8	37.7	31.0	55.9
TD*V2242	**22 000 m^3/h @ 20 Pa (12,949 CFM @ 0.08 in. WC)**	65.2	73.3	59.3	50.8	44.5	40.8	38.1	58.8
TD*V2542	**23 000 m^3/h @ 20 Pa (13,537 CFM @ 0.08 in. WC)**	65.5	73.6	59.5	51.2	44.9	41.2	38.5	59.8
TD*V2842	**23 500 m^3/h @ 20 Pa (13,832 CFM @ 0.08 in. WC)**	65.9	74.3	60.1	51.6	45.4	41.8	39.5	59.8

*Designates type of heat rejection.|

Dimensional Data

Overall Unit



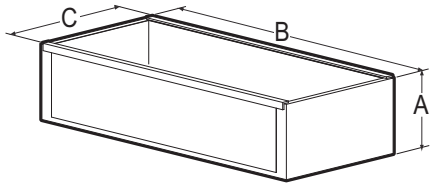
SERVICE CLEARANCE
(ONLY FRONT ACCESS NEEDED)

Model	Airflow	Dimensions – mm (in.)			Net Weight – kg (lb)
		A	B	C	
0511	Upflow and Downflow	1960 (77.17)	1010 (39.76)	750 (29.53)	280 (617) 430 (948)*
1121		1960 (77.17)	1720 (67.72)	865 (34.06)	548 (1208)
1822		1960 (77.17)	2159 (85.00)	865 (34.06)	714 (1574)
2242	Upflow	1960 (77.17)	2580 (101.57)	865 (34.06)	910 (2006)
	Downflow	2175 (85.63)			
2542	Upflow	1960 (77.17)	2580 (101.57)	865 (34.06)	930 (2050)
	Downflow	2175 (85.63)			
2842	Upflow	1960 (77.17)	2580 (101.57)	865 (34.06)	1098 (2421)
	Downflow	2175 (85.63)			

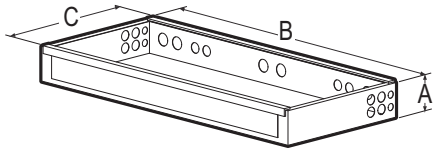
*TDAV0511, TUAV0511
Note: Motorized damper option adds 152 mm (6 in.) in height.

Plenums/Sub-Bases

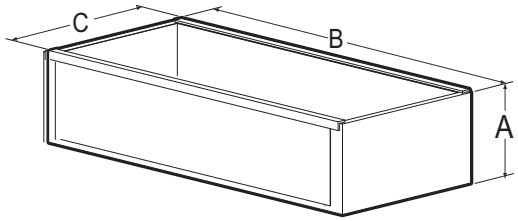
For upflow installations where piping and wiring connections are not coming up from the bottom, a sub-base is required to access piping and electrical connections.



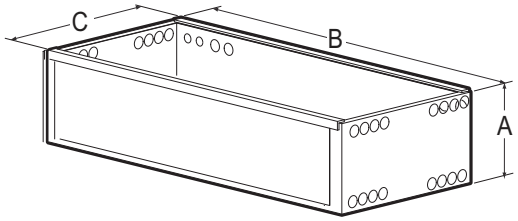
TOP AIR DISCHARGE PLENUM 500 mm (20 in.)



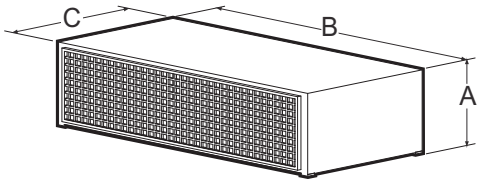
SUB-BASE 200 mm (8 in.)



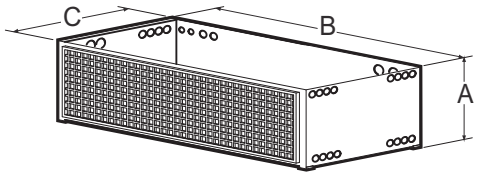
TOP AIR DISCHARGE PLENUM 305 mm (12 in.)*



SUB-BASE 500 mm (20 in.) NO GRILLE



FRONT DISCHARGE PLENUM 500 mm (20 in.)



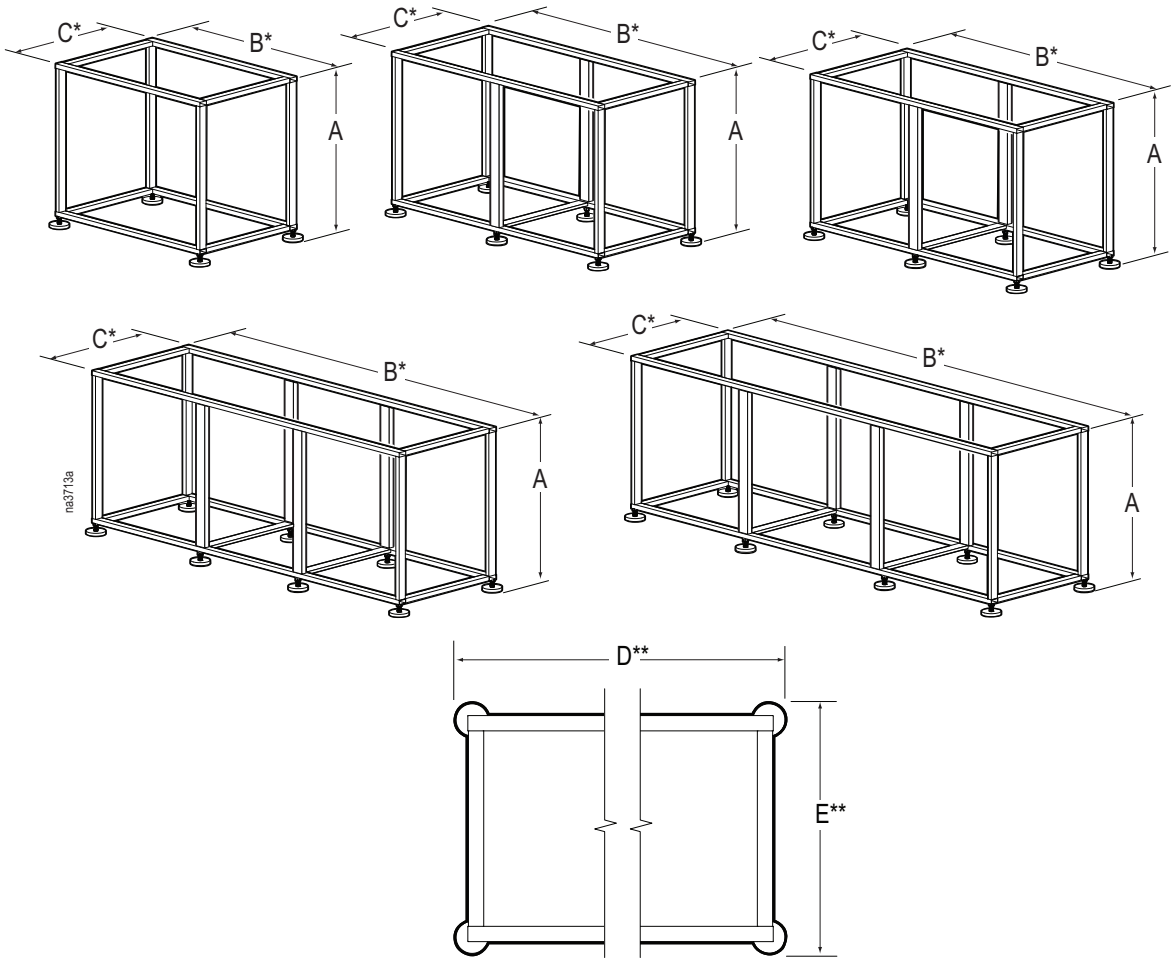
SUB-BASE 500 mm (20 in.) FRONT DISCHARGE

***Stackable up to 1220 mm (48 in.)**

Type of Plenum/Sub-Base	Model	Color	Dimensions – mm (in.)			Net Weight – kg (lb)
			A	B	C	
Top discharge or return plenum 500 mm (20 in.)	ACPL75130 ACPL75132	White Black	500 (19.69)	1010 (39.76)	750 (29.53)	37.00 (81.57)
	ACPL75133 ACPL75135	White Black	500 (19.69)	1310 (51.57)	865 (34.06)	45.00 (99.21)
	ACPL75136 ACPL75138	White Black	500 (19.69)	1720 (67.72)	865 (34.06)	53.50 (117.95)
	ACPL75139 ACPL75141	White Black	500 (19.69)	2170 (85.43)	865 (34.06)	62.00 (136.70)
	ACPL75142 ACPL75144	White Black	500 (19.69)	2582 (101.65)	865 (34.06)	70.00 (154.30)
Top discharge or return plenum 305 mm (12 in.)	ACPL75151 ACPL75153	White Black	305 (12.00)	1010 (39.76)	750 (29.53)	20.00 (44.10)
	ACPL75155 ACPL75157	White Black	305 (12.00)	1310 (51.57)	865 (34.06)	23.00 (50.70)
	ACPL75159 ACPL75161	White Black	305 (12.00)	1720 (67.72)	865 (34.06)	27.00 (59.53)
	ACPL75163 ACPL75165	White Black	305 (12.00)	2170 (85.43)	865 (34.06)	32.00 (70.54)
	ACPL75167 ACPL75169	White Black	305 (12.00)	2582 (101.65)	865 (34.06)	36.00 (79.36)

Type of Plenum/Sub-Base	Model	Color	Dimensions – mm (in.)			Net Weight – kg (lb)
			A	B	C	
Front discharge plenum 500 mm (20 in.)	ACPL75115 ACPL7517	White Black	500 (19.69)	1000 (39.37)	740 (29.13)	38.00 (83.78)
	ACPL75118 ACPL75120	White Black	500 (19.69)	1300 (51.18)	855 (33.66)	50.00 110.20)
	ACPL75121 ACPL75123	White Black	500 (19.69)	1710 (67.32)	855 (33.66)	59.00 (130.10)
	ACPL75124 ACPL75126	White Black	500 (19.69)	2160 (85.04)	855 (33.66)	74.00 (163.10)
	ACPL75127 ACPL75129	White Black	500 (19.69)	2572 (101.26)	855 (33.66)	87.00 (191.80)
Sub-base 200 mm (8 in.)	ACSB76150 ACSB76152	White Black	200 (7.87)	1000 (39.37)	740 (29.13)	17.70 (39.02)
	ACSB76153 ACSB76155	White Black	200 (7.87)	1300 (51.18)	855 (33.66)	21.80 (48.06)
	ACSB76156 ACSB76158	White Black	200 (7.87)	1710 (67.32)	855 (33.66)	27.20 (59.97)
	ACSB76159 ACSB76161	White Black	200 (7.87)	2160 (85.04)	855 (33.66)	31.60 (69.67)
	ACSB76162 ACSB76164	White Black	200 (7.87)	2572 (101.26)	855 (33.66)	35.60 (74.49)
Sub-base 500 mm (20 in.) no grille	ACSB76181 ACSB76183	White Black	500 (19.69)	1000 (39.37)	740 (29.13)	41.00 (90.38)
	ACSB76185 ACSB76167	White Black	500 (19.69)	1300 (51.18)	855 (33.66)	53.00 (116.86)
	ACSB76189 ACSB76191	White Black	500 (19.69)	1710 (67.32)	855 (33.66)	62.00 (136.69)
	ACSB76193 ACSB76195	White Black	500 (19.69)	2160 (85.04)	855 (33.66	77.00 (169.76)
	ACSB76197 ACSB76199	White Black	500 (19.69)	2572 (101.26)	855 (33.66)	90.00 (198.42)
Plenum/Sub-base 500 mm (20 in.) front discharge	ACSB76165 ACSB76167	White Black	500 (19.69)	1000 (39.37)	740 (29.13)	38.00 (183.78)
	ACSB76168 ACSB76170	White Black	500 (19.69)	1300 (51.18)	855 (33.66)	50.00 (110.20)
	ACSB76171 ACSB76173	White Black	500 (19.69)	1710 (67.32)	855 (33.66)	59.00 (130.10)
	ACSB76174 ACSB76176	White Black	500 (19.69)	2160 (85.04)	855 (33.66	74.00 (163.10)
	ACSB76177 ACSB76179	White Black	500 (19.69)	2572 (101.26)	855 (33.66)	87.00 (191.80)

Fixed Floor Stands

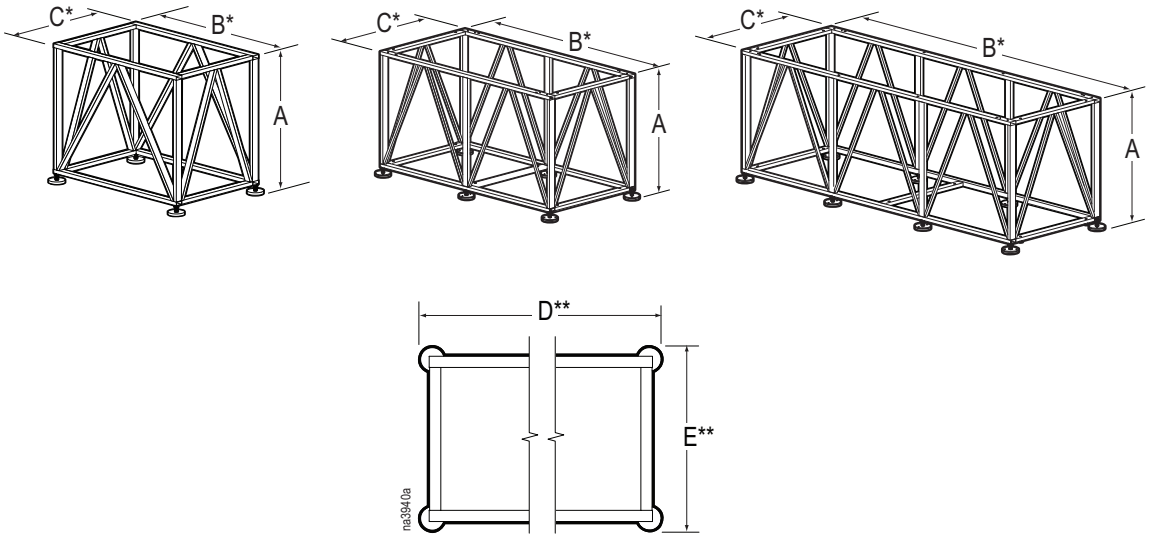


NOTE: Rubber, vibration isolation pads are field supplied.

Model	Weight – kg (lb)	Dimensions – mm (in.)				
		A	B*	C*	D**	E**
ACFS76084	25 (54)	305 (12)				
ACFS76089	26 (58)	457 (18)	1000	740	1077	817
ACFS76094	28 (61)	610 (24)	(39.37)	(29.13)	(42.40)	(32.17)
ACFS76055	25.8 (56.9)	914 (36)				
ACFS76085	35 (77)	305 (12)				
ACFS76090	37 (82)	457 (18)	1300	855	1377	932
ACFS76095	40 (87)	610 (24)	(51.18)	(33.66)	(54.21)	(36.73)
ACFS76056	36.5 (80.4)	914 (36)				
ACFS76086	39 (86)	305 (12)				
ACFS76091	41 (90)	457 (18)	1710	855	1786	932
ACFS76096	43 (95)	610 (24)	(67.32)	(33.66)	(70.35)	(36.73)
ACFS76057	40.0 (88.8)	914 (36)				
ACFS76087	48 (105)	305 (12)				
ACFS76092	50 (111)	457 (18)	2160	855	2221	932
ACFS76097	53 (117)	610 (24)	(85.04)	(33.66)	(88.11)	(36.73)
ACFS76058	49.6 (109.1)	914 (36)				
ACFS76088	51 (113)	305 (12)				
ACFS76093	55 (120)	457 (18)	2572	855	2631	932
ACFS76098	57 (126)	610 (24)	(101.26)	(33.66)	(104.25)	(36.73)
ACFS76059	53.5 (117.6)	914 (36)				

* Measured center to center.
** Measured edge to edge.

Seismic Floorstands



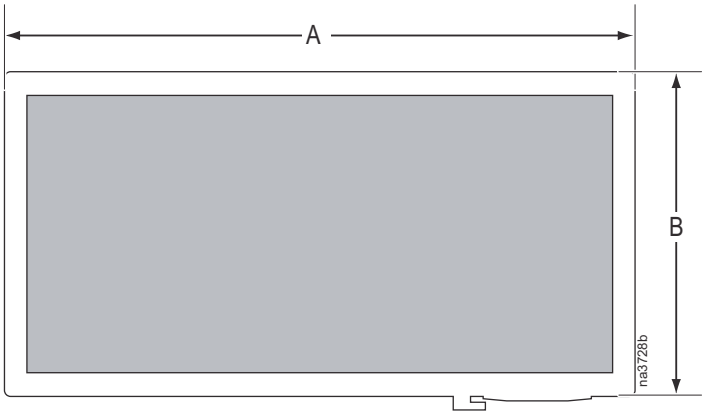
NOTE: Rubber, vibration isolation pads are field supplied.

Model	Weight kg (lb)	Dimensions – mm (in.)				
		A	B*	C*	D**	E**
ACFS76060	27.3 (60.2)	305 (12)				
ACFS76065	29.6 (65.3)	457 (18)	1000	740	1060	800
ACFS76070	31.8 (70.1)	610 (24)	(39.37)	(29.13)	(41.73)	(31.50)
ACFS76075	34.1 (75.2)	914 (36)				
ACFS76061	38.6 (80.1)	305 (12)				
ACFS76066	40.9 (90.2)	457 (18)	1300	855	1360	916
ACFS76071	43.2 (95.2)	610 (24)	(51.18)	(33.66)	(53.54)	(36.06)
ACFS76076	45.5 (100.3)	914 (36)				
ACFS76062	43.1 (95.0)	305 (12)				
ACFS76067	45.5 (100.3)	457 (18)	1710	855	1770	916
ACFS76072	47.7 (105.2)	610 (24)	(67.32)	(33.66)	(69.69)	(36.06)
ACFS76077	50.0 (110.2)	914 (36)				
ACFS76063	52.3 (115.3)	305 (12)				
ACFS76068	54.5 (120.2)	457 (18)	2160	855	2221	916
ACFS76073	56.8 (125.2)	610 (24)	(85.04)	(33.66)	(87.44)	(36.06)
ACFS76078	59.1 (130.3)	914 (36)				
ACFS76064	56.8 (125.2)	305 (12)				
ACFS76069	56.8 (125.2)	457 (18)	2572	855	2631	916
ACFS76074	61.4 (135.4)	610 (24)	(101.26)	(33.66)	(103.58)	(36.06)
ACFS76079	63.6 (140.2)	914 (36)				

* Measured center to center.
** Measured edge to edge.

Plumbing and Electrical Access

Floor cutout dimensions

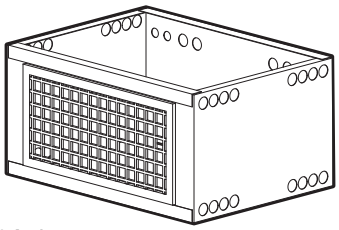


Model	Dimensions – mm (in.)	
	A	B
0511*	1010 (39.76)	750 (29.53)
1121*	1720 (67.72)	865 (34.06)
1822*	2159 (85.00)	
2242*	2580 (101.57)	
2542*		
2842*		

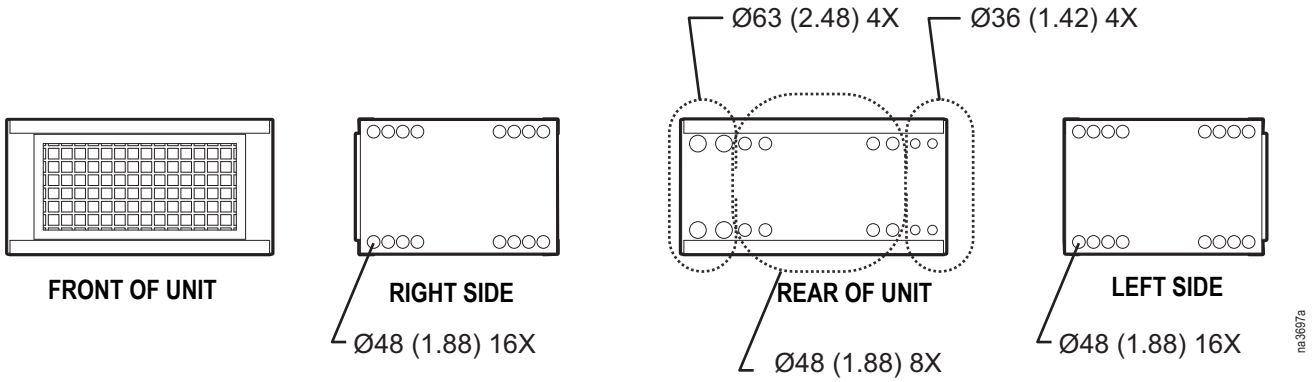
*Asterisk represents “D”, “G”, “L” in model number.

Optional utility access options (sub-bases)

500 mm —ACSB76165, ACSB76168, ACSB76171, ACSB76174, ACSB76177 (White)
ACSB76167, ACSB76170, ACSB76173, ACSB76176, ACSB76179 (Black)

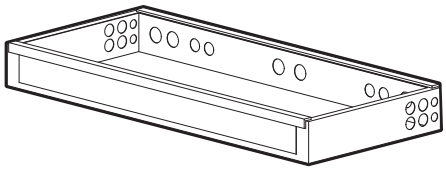


500 mm (20 in.)
FRONT SUPPLY SUB-BASE PLENUM (WITH GRILLE)

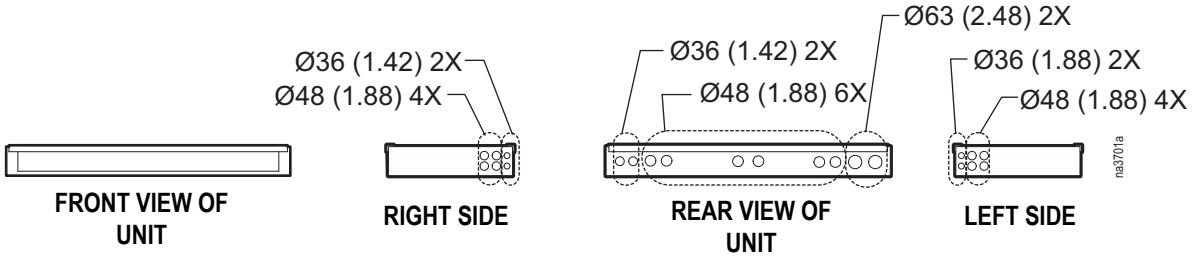


NOTE: All dimensions shown in millimeters (inches).

200 mm—ACSB76150, ACSB76153, ACSB76156, ACSB76159, ACSB76162 (White)
ACSB76152, ACSB76155, ACSB76158, ACSB76161, ACSB76164 (Black)



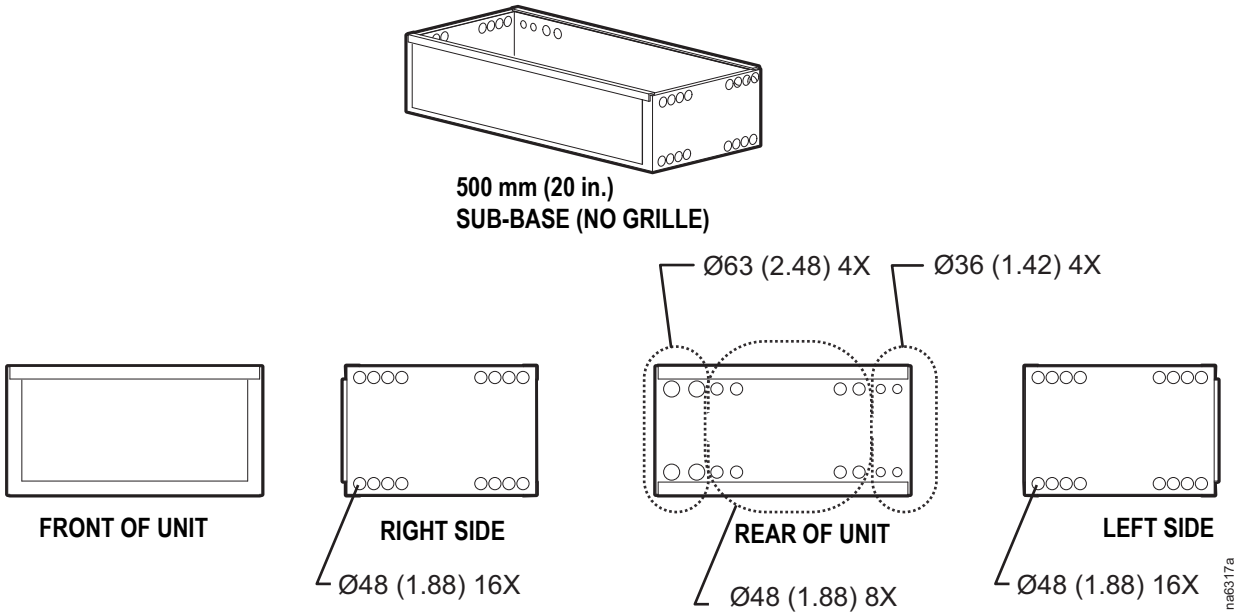
200 mm (8 in.) SUB-BASE



NOTE: All dimensions shown in millimeters (inches).

NOTE: For upflow installations where piping and wiring connections are not coming up from the bottom, a sub-base is required to access piping and electrical connections.

500 mm—ACSB76181, ACSB76185, ACSB76189, ACSB76193, ACSB76197 (White)
ACSB76183, ACSB76167, ACSB76191, ACSB76195, ACSB76199 (Black)



NOTE: All dimensions shown in millimeters (inches).

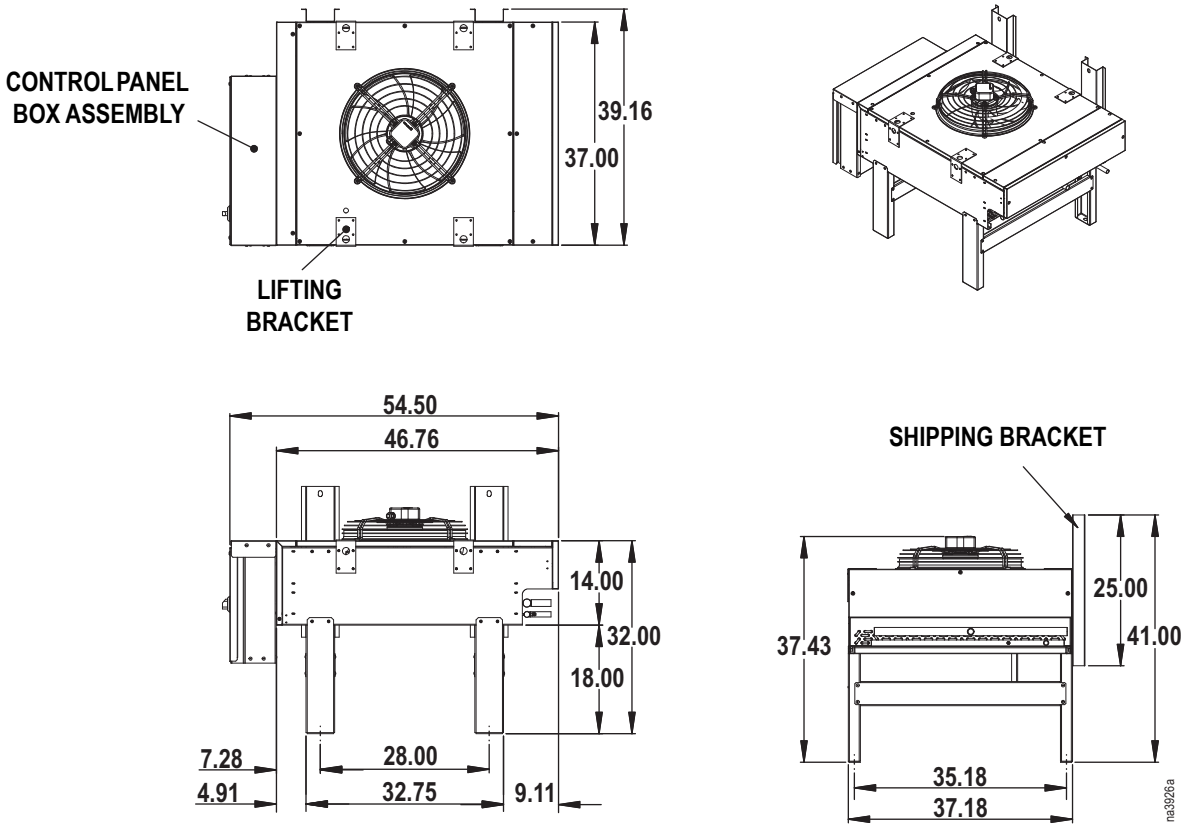
NOTE: The 500 mm (20 in.) sub-base with closed front has the same access as the sub-base with grille.

Outdoor Heat Exchanger

Dimensional data

One-fan (500 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

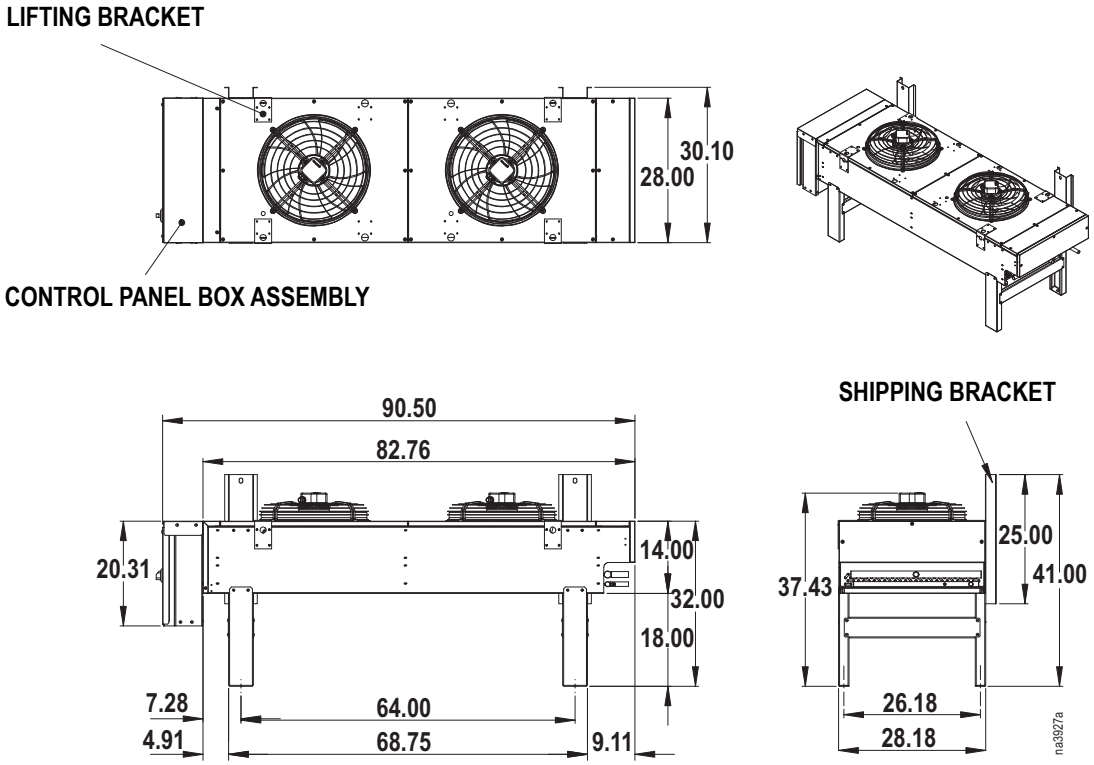


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76050	Single	208 V–230 V/3 ph/60 Hz
	ACCD76051	Single	208 V–230 V/3 ph/60 Hz
	ACCD76052	Single	208 V–230 V/3 ph/60 Hz
	ACCD76061	Single	460 V/3 ph/60 Hz
	ACCD76062	Single	460 V/3 ph/60 Hz
	ACCD76063	Single	460 V/3 ph/60 Hz
	ACCD76072	Single	575 V/3 ph/60 Hz
	ACCD76073	Single	575 V/3 ph/60 Hz
	ACCD76074	Single	575 V/3 ph/60 Hz

Two-fan (500 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

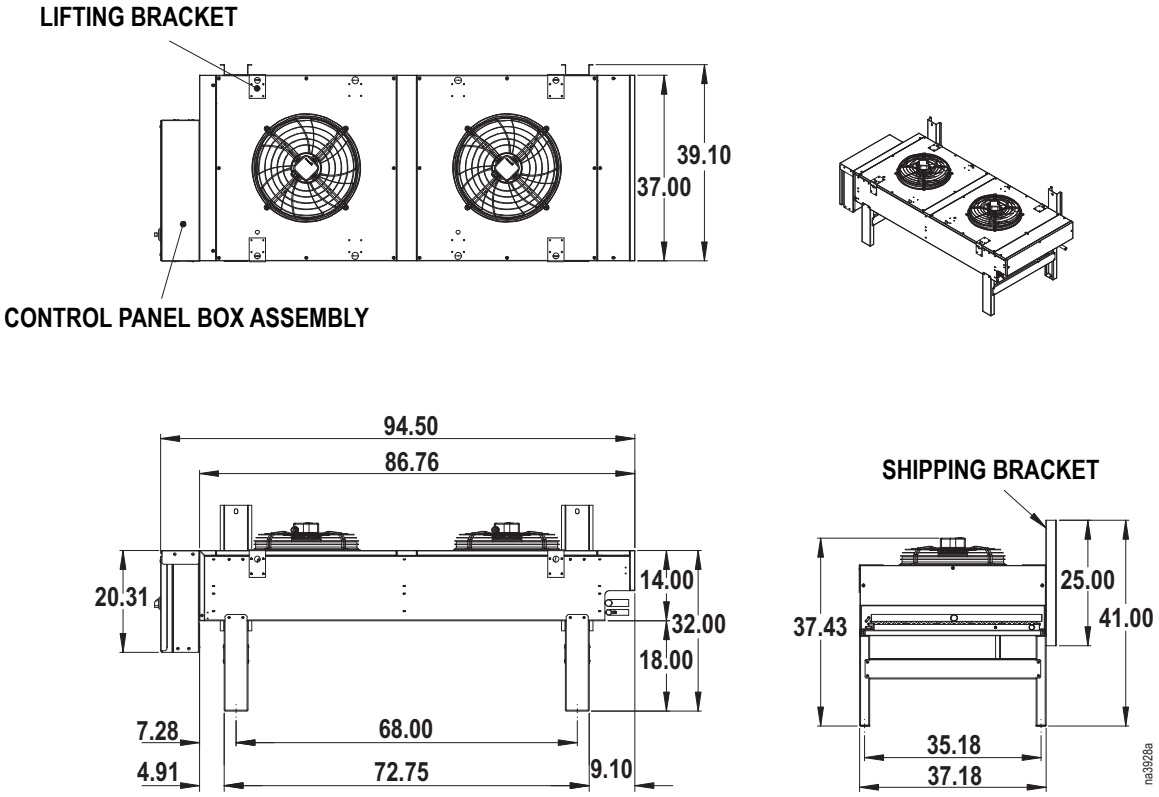


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76053	Single	208 V–230 V/3 ph/60 Hz
	ACCD76064	Single	460 V/3 ph/60 Hz
	ACCD76075	Single	575 V/3 ph/60 Hz

Two-fan (500 mm) outdoor heat exchanger—extended

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

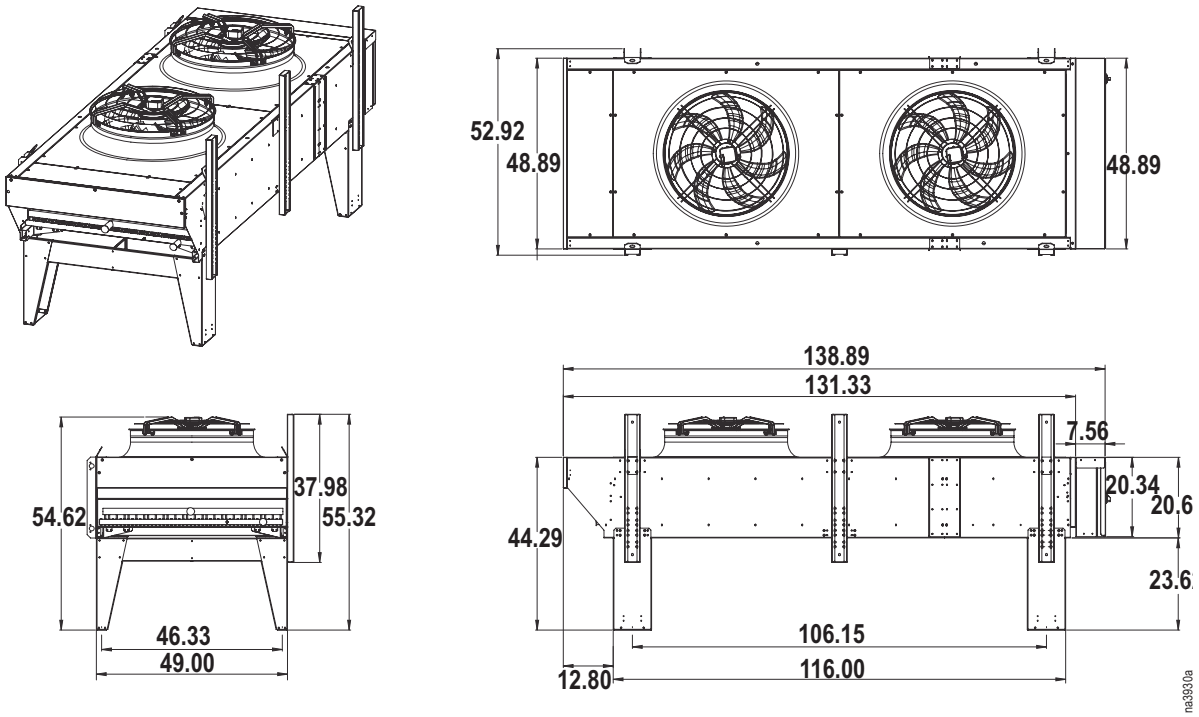


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76054	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76055	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76065	Dual	460 V/3 ph/60 Hz
	ACCD76066	Dual	460 V/3 ph/60 Hz
	ACCD76076	Dual	575 V/3 ph/60 Hz
	ACCD76077	Dual	575 V/3 ph/60 Hz
Fluid Cooler	ACFC75264	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75272	N/A	460 V/3 ph/60 Hz
	ACFC75280	N/A	575 V/3 ph/60 Hz

Two-fan (800 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

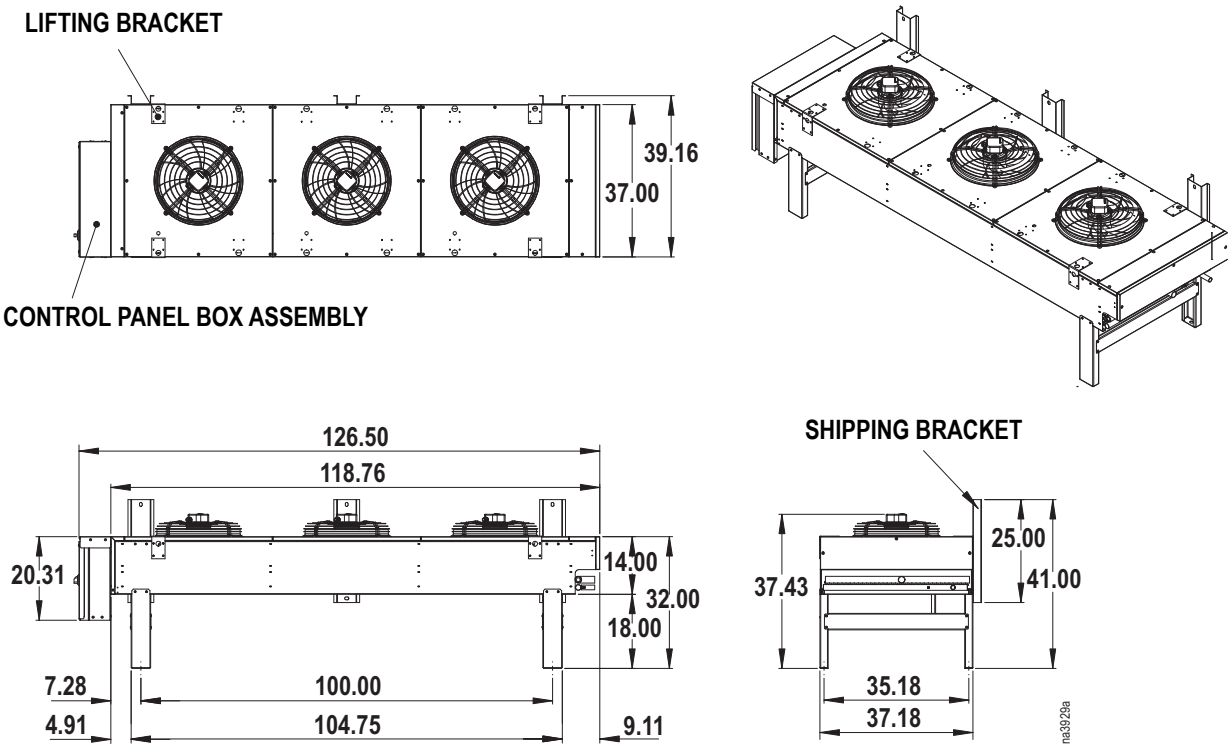


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76058	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76059	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76069	Dual	460 V/3 ph/60 Hz
	ACCD76070	Dual	460 V/3 ph/60 Hz
	ACCD76080	Dual	575 V/3 ph/60 Hz
	ACCD76081	Dual	575 V/3 ph/60 Hz
Fluid Cooler	ACFC75261	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75266	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75269	N/A	460 V/3 ph/60 Hz
	ACFC75274	N/A	460 V/3 ph/60 Hz
	ACFC75277	N/A	575 V/3 ph/60 Hz
	ACFC75282	N/A	575 V/3 ph/60 Hz

Three-fan (500 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

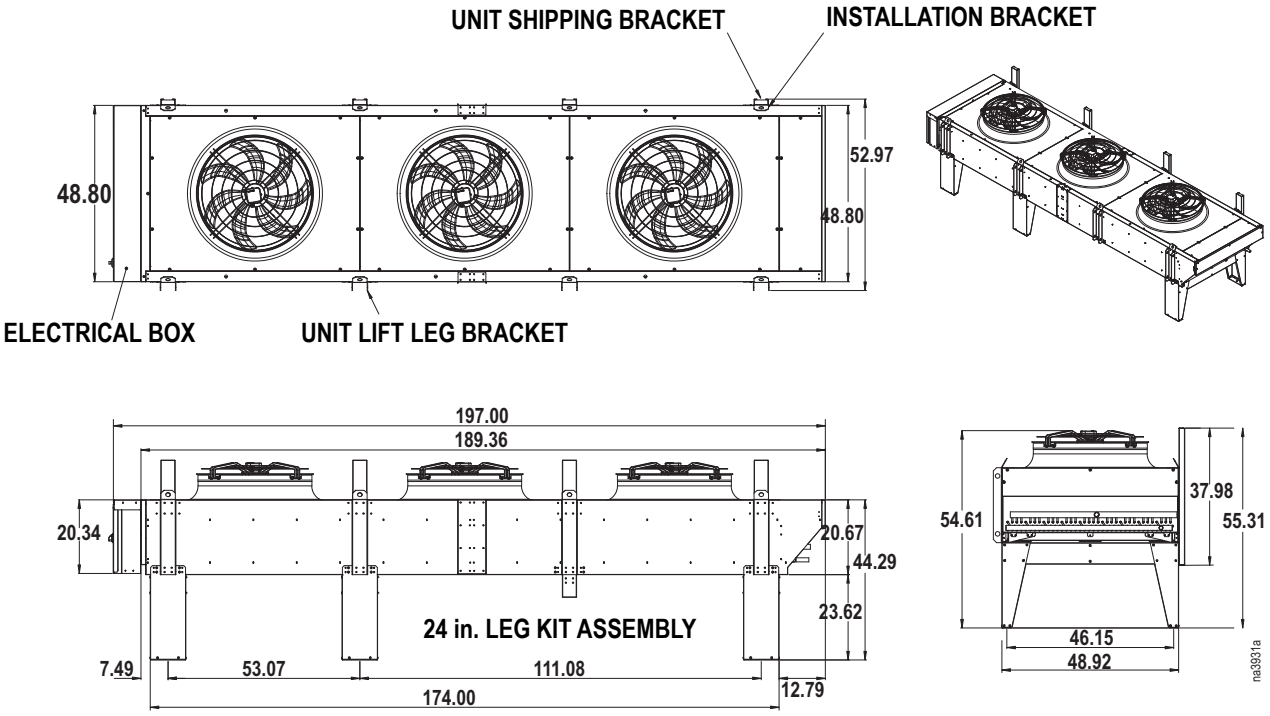


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76056	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76057	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76067	Dual	460 V/3 ph/60 Hz
	ACCD76068	Dual	460 V/3 ph/60 Hz
	ACCD76078	Dual	575 V/3 ph/60 Hz
	ACCD76079	Dual	575 V/3 ph/60 Hz
Fluid Cooler	ACFC75260	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75265	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75268	N/A	460 V/3 ph/60 Hz
	ACFC75273	N/A	460 V/3 ph/60 Hz
	ACFC75276	N/A	575 V/3 ph/60 Hz
	ACFC75281	N/A	575 V/3 ph/60 Hz

Three-fan (800 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

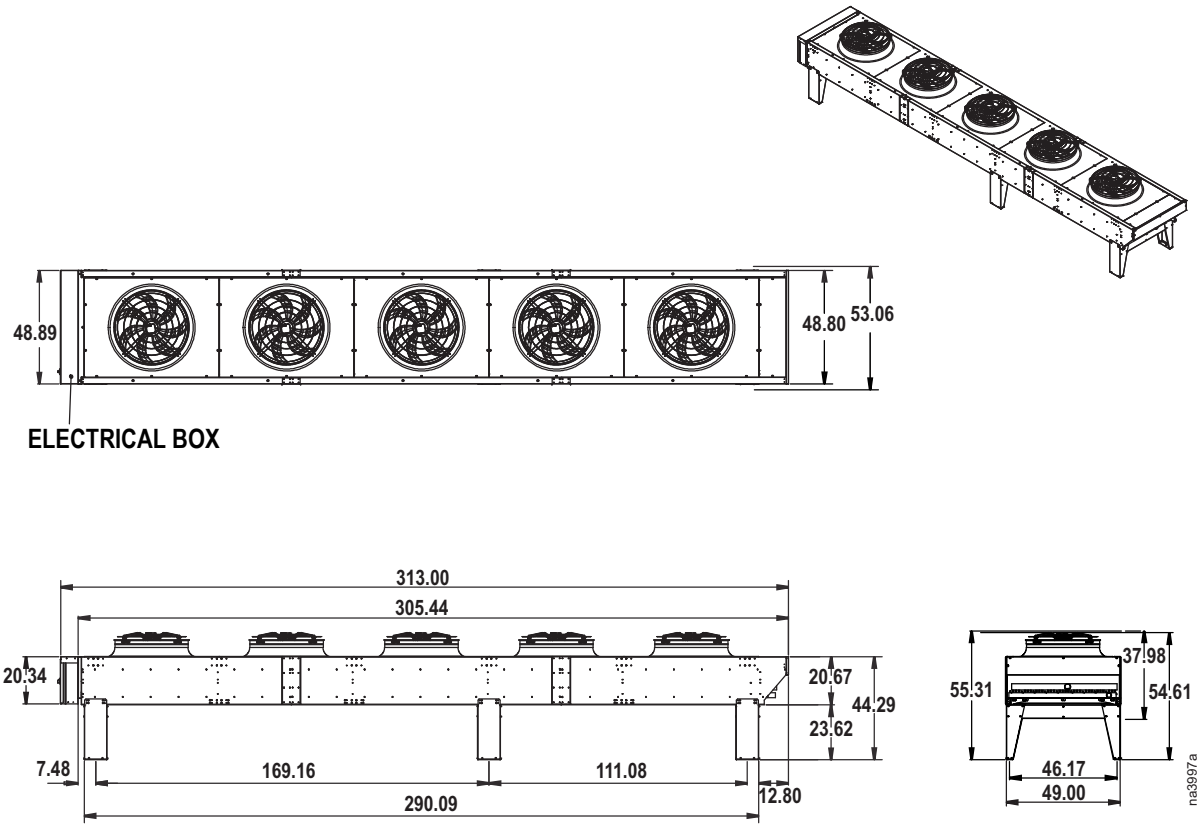


NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Condenser	ACCD76060	Dual	208 V–230 V/3 ph/60 Hz
	ACCD76071	Dual	460 V/3 ph/60 Hz
	ACCD76082	Dual	575 V/3 ph/60 Hz
Fluid Cooler	ACFC75262	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75270	N/A	460 V/3 ph/60 Hz
	ACFC75278	N/A	575 V/3 ph/60 Hz

Five-fan (800 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.

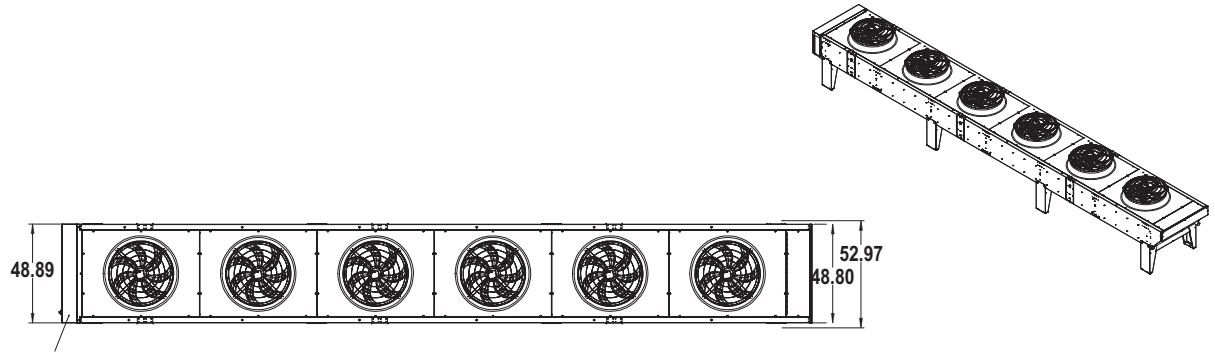


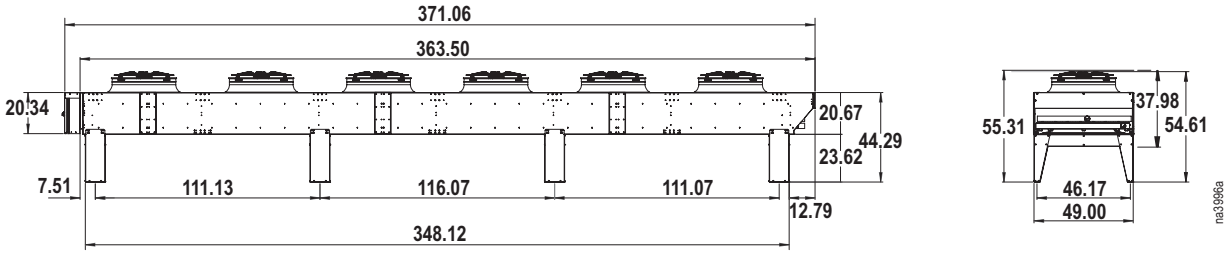
NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Fluid Cooler	ACFC75267	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75275	N/A	460 V/3 ph/60 Hz
	ACFC75283	N/A	575 V/3 ph/60 Hz

Six-fan (800 mm) outdoor heat exchanger

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides and 2.4 m (8 ft) overhead clearance for servicing.





NOTE: All dimensions shown in inches.

Type	SKU	Circuits	Voltage
Fluid Cooler	ACFC75263	N/A	208 V–230 V/3 ph/60 Hz
	ACFC75271	N/A	460 V/3 ph/60 Hz
	ACFC75279	N/A	575 V/3 ph/60 Hz

Air-cooled condenser performance data

SKU	Voltage (V/ph/Hz)	Air Flow		Fans	Circuits	Connections		Refrigerant Charge	Additional Flooded Charge Per Circuit* (lbs)					Receiver Kit
		CFM	l/s	Quantity		Hot Gas	Liquid	lb/circuit	–4°C (25°F)	–7°C (20°F)	–18°C (0°F)	–29°C (–20°F)	–40°C (–40°F)	
ACCD76050	208–230/3/60	5,879	2774	1	1	1 1/8	7/8	3.1	1.7	1.7	2.1	2.2	2.4	1 x A
ACCD76051	208–230/3/60	5,659	2671	1	1	1 1/8	7/8	4.5	2.8	2.8	3.2	3.3	3.6	1 x A
ACCD76052	208–230/3/60	5,450	2572	1	1	1 1/8	7/8	6.1	1.9	1.9	2.1	2.2	2.4	1 x A
ACCD76053	208–230/3/60	10,447	4930	2	1	1 1/8	7/8	6.6	2.2	2.2	2.6	2.6	2.8	1 x B
ACCD76054	208–230/3/60	11,441	5399	2	2	2 x 1 1/8	2 x 7/8	4.7	2.9	2.9	3.4	3.4	3.7	2 x A**
ACCD76055	208–230/3/60	11,049	5214	2	2	2 x 1 1/8	2 x 7/8	6.3	3.8	3.8	4.4	4.5	4.9	2 x A**
ACCD76056	208–230/3/60	16,621	7844	3	2	2 x 1 1/8	2 x 7/8	6.7	4.1	4.1	4.7	4.8	5.3	2 x B
ACCD76057	208–230/3/60	15,995	7549	3	2	2 x 1 1/8	2 x 7/8	9.0	5.4	5.4	6.3	6.4	7.0	2 x B
ACCD76058	208–230/3/60	22,751	10 737	2	2	2 x 1 3/8	2 x 1 1/8	9.3	5.7	5.7	6.7	6.7	7.2	2 x B
ACCD76059	208–230/3/60	22,539	10 637	2	2	2 x 1 3/8	2 x 1 1/8	11.8	8.2	8.2	9.3	9.3	10.3	2 x C
ACCD76060	208–230/3/60	34,389	16 230	3	2	2 x 1 3/8	2 x 1 1/8	16.4	18.0	18.0	20.0	21.1	23.1	2 x C
ACCD76061	460/3/60	5,879	2774	1	1	1 1/8	7/8	3.1	1.7	1.7	2.1	2.2	2.4	1 x A
ACCD76062	460/3/60	5,659	2671	1	1	1 1/8	7/8	4.5	2.8	2.8	3.2	3.3	3.6	1 x A
ACCD76063	460/3/60	5,450	2572	1	1	1 1/8	7/8	6.1	3.7	3.7	4.2	4.3	4.7	1 x A
ACCD76064	460/3/60	10,447	4930	2	1	1 1/8	7/8	6.6	4.4	4.4	5.1	5.1	5.6	1 x B
ACCD76065	460/3/60	11,441	5399	2	2	2 x 1 1/8	2 x 7/8	4.7	2.9	2.9	3.4	3.4	3.7	2 x A**
ACCD76066	460/3/60	11,049	5214	2	2	2 x 1 1/8	2 x 7/8	6.3	3.8	3.8	4.4	4.5	4.9	2 x A**
ACCD76067	460/3/60	16,621	7844	3	2	2 x 1 1/8	2 x 7/8	6.7	4.1	4.1	4.7	4.8	5.3	2 x B
ACCD76068	460/3/60	15,995	7549	3	2	2 x 1 1/8	2 x 7/8	9.0	5.4	5.4	6.3	6.4	7.0	2 x B
ACCD76069	460/3/60	22,751	10 737	2	2	2 x 1 3/8	2 x 1 1/8	9.3	5.7	5.7	6.7	6.7	7.2	2 x B
ACCD76070	460/3/60	22,539	10 637	2	2	2 x 1 3/8	2 x 1 1/8	11.8	8.2	8.2	9.3	9.3	10.3	2 x C
ACCD76071	460/3/60	34,389	16 230	3	2	2 x 1 3/8	2 x 1 1/8	16.4	18.0	18.0	20.0	21.1	23.1	2 x C
ACCD76072	575/3/60	5,879	2774	1	1	1 1/8	7/8	3.1	1.7	1.7	2.1	2.2	2.4	1 x A
ACCD76073	575/3/60	5,659	2671	1	1	1 1/8	7/8	4.5	2.8	2.8	3.2	3.3	3.6	1 x A
ACCD76074	575/3/60	5,450	2572	1	1	1 1/8	7/8	6.1	3.7	3.7	4.2	4.3	4.7	1 x A
ACCD76075	575/3/60	10,447	4930	2	1	1 1/8	7/8	6.6	4.4	4.4	5.1	5.1	5.6	1 x B
ACCD76076	575/3/60	11,441	5399	2	2	2 x 1 1/8	2 x 7/8	4.7	2.9	2.9	3.4	3.4	3.7	2 x A**
ACCD76077	575/3/60	11,049	5214	2	2	2 x 1 1/8	2 x 7/8	6.3	3.8	3.8	4.4	4.5	4.9	2 x A**
ACCD76078	575/3/60	16,621	7844	3	2	2 x 1 1/8	2 x 7/8	6.7	4.1	4.1	4.7	4.8	5.3	2 x B**
ACCD76079	575/3/60	15,995	7549	3	2	2 x 1 1/8	2 x 7/8	9.0	5.4	5.4	6.3	6.4	7.0	2 x B
ACCD76080	575/3/60	22,751	10 737	2	2	2 x 1 3/8	2 x 1 1/8	9.3	5.7	5.7	6.7	6.7	7.2	2 x B
ACCD76081	575/3/60	22,539	10 637	2	2	2 x 1 3/8	2 x 1 1/8	11.8	8.2	8.2	9.3	9.3	10.3	2 x C
ACCD76082	575/3/60	34,389	16 230	3	2	2 x 1 3/8	2 x 1 1/8	16.4	18.0	18.0	20.0	21.1	23.1	2 x C

*For different minimum ambient temperatures if low ambient kit is installed
**Will be 1 x B when paired with single-circuit cooling units.

Low ambient kit performance data

NOTE: Low ambient kit recommended if ambient temperature reaches below 0°F (–18°C).

NOTE: Head pressure control valve is shipped loose.

SKU	Reference Letter	Description	Capacity* (lb of R-410A)	Receiver Connection – in.		Diameter – in.	Length – in.
				In	Out		
ACAC76131	A	FLOODED RECEIVER 18 lb	17.2	5/8	5/8	6	24
ACAC76132	B	FLOODED RECEIVER 26 lb	26.6	1 3/8	7/8	6	38
ACAC76134	C	FLOODED RECEIVER 60 lb	60	1 3/8	1 1/8	8 5/8	36
*80% full at 90°F (32.2°C)							

Air-cooled condenser electrical data

SKU	Voltage	Net Weight		Electrical Data			
		lb	kg	FLA	MCA	MOP	SCCR
ACCD76050	208 V–230 V/3 ph/60 Hz	236	107	3.3	5.0	15.0	10 kA
ACCD76051	208 V–230 V/3 ph/60 Hz	242	110	3.3	5.0	15.0	10 kA
ACCD76052	208 V–230 V/3 ph/60 Hz	253	115	3.3	5.0	15.0	10 kA
ACCD76053	208 V–230 V/3 ph/60 Hz	315	143	6.6	9.0	15.0	10 kA
ACCD76054	208 V–230 V/3 ph/60 Hz	392	178	6.6	9.0	15.0	10 kA
ACCD76055	208 V–230 V/3 ph/60 Hz	390	177	6.6	9.0	15.0	10 kA
ACCD76056	208 V–230 V/3 ph/60 Hz	509	231	9.9	12.0	15.0	10 kA
ACCD76057	208 V–230 V/3 ph/60 Hz	540	245	9.9	12.0	15.0	10 kA
ACCD76058	208 V–230 V/3 ph/60 Hz	879	399	13.6	16.8	20.0	10 kA
ACCD76059	208 V–230 V/3 ph/60 Hz	870	395	13.6	16.8	20.0	10 kA
ACCD76060	208 V–230 V/3 ph/60 Hz	1187	539	20.4	23.6	25.0	10 kA
ACCD76061	460 V/3 ph/60 Hz	236	107	2.0	4.0	15.0	10 kA
ACCD76062	460 V/3 ph/60 Hz	242	110	2.0	4.0	15.0	10 kA
ACCD76063	460 V/3 ph/60 Hz	253	115	2.0	4.0	15.0	10 kA
ACCD76064	460 V/3 ph/60 Hz	315	143	4.0	6.0	15.0	10 kA
ACCD76065	460 V/3 ph/60 Hz	392	178	4.0	6.0	15.0	10 kA
ACCD76066	460 V/3 ph/60 Hz	390	177	4.0	6.0	15.0	10 kA
ACCD76067	460 V/3 ph/60 Hz	509	231	6.0	8.0	15.0	10 kA
ACCD76068	460 V/3 ph/60 Hz	540	245	6.0	8.0	15.0	10 kA
ACCD76069	460 V/3 ph/60 Hz	879	399	7.2	9.0	15.0	10 kA
ACCD76070	460 V/3 ph/60 Hz	870	395	7.2	9.0	15.0	10 kA
ACCD76071	460 V/3 ph/60 Hz	1187	539	10.8	13	15.0	10 kA
ACCD76072	575 V/3 ph/60 Hz	476	216	2.0	4.0	15.0	5 kA
ACCD76073	575 V/3 ph/60 Hz	483	219	2.0	4.0	15.0	5 kA
ACCD76074	575 V/3 ph/60 Hz	493	224	2.0	4.0	15.0	5 kA
ACCD76075	575 V/3 ph/60 Hz	555	252	4.0	6.0	15.0	5 kA
ACCD76076	575 V/3 ph/60 Hz	609	276	4.0	6.0	15.0	5 kA
ACCD76077	575 V/3 ph/60 Hz	630	286	4.0	6.0	15.0	5 kA
ACCD76078	575 V/3 ph/60 Hz	720	327	6.0	8.0	15.0	5 kA
ACCD76079	575 V/3 ph/60 Hz	749	340	6.0	8.0	15.0	5 kA
ACCD76080	575 V/3 ph/60 Hz	1069	485	7.2	9.0	15.0	5 kA
ACCD76081	575 V/3 ph/60 Hz	1109	503	7.2	9.0	15.0	5 kA
ACCD76082	575 V/3 ph/60 Hz	1471	667	10.8	13.0	15.0	5 kA

Fluid cooler performance data

SKU	Voltage (V/ph/Hz)	Air Flow		Fans	Circuits	Pressure Drop		Connection – in.	Net Weight		Volume		Electrical Data			
		CFM	l/s	Qty	Qty	kPa	ft H_20		lb	kg	Gal	L	FLA	MCA	MOP	SCCR
ACFC75260	208-230/3/60	14,340	6768	3	14	38.9	13.0	1.5	560	254	11.3	42.7	9.9	12.0	15.0	5 kA
ACFC75261	208-230/3/60	20,770	9800	2	15	25.4	8.5	2.0	1139	517	21.0	79.3	13.6	16.8	20.0	5 kA
ACFC75262	208-230/3/60	30,030	14 170	3	20	43.3	14.5	2.5	1436	651	30.6	115.7	20.4	23.6	25.0	5 kA
ACFC75263	208-230/3/60	60,620	28 610	6	38	29	9.7	4.0	2573	1167	74.9	283.4	40.8	44.0	45.0	5 kA
ACFC75264	208-230/3/60	9350	4410	2	14	38.9	13.0	1.5	443	201	8.3	31.5	6.6	9.0	15.0	5 kA
ACFC75265	208-230/3/60	13,930	6570	3	18	25.4	8.5	2.0	579	263	11.8	44.8	9.9	12.0	15.0	5 kA
ACFC75266	208-230/3/60	19,150	9040	2	23	43.3	14.5	2.5	1209	548	26.1	98.9	13.6	16.8	20.0	5 kA
ACFC75267	208-230/3/60	53,660	25 320	5	38	29	9.7	3.0	2126	964	49.5	187.5	34.0	37.2	40.0	5 kA
ACFC75268	460/3/60	14,340	6768	3	14	38.9	13.0	1.5	560	254	11.3	42.7	6.0	8.0	15.0	5 kA
ACFC75269	460/3/60	20,770	9800	2	15	25.4	8.5	2.0	1139	517	21.0	79.3	7.2	9.0	15.0	5 kA
ACFC75270	460/3/60	30,030	14170	3	20	43.3	14.5	2.5	1436	651	30.6	115.7	10.8	13.0	15.0	5 kA
ACFC75271	460/3/60	60,620	28 610	6	38	29	9.7	4.0	2573	1167	74.9	283.4	21.6	23.0	25.0	5 kA
ACFC75272	460/3/60	9350	4410	2	14	38.9	13.0	1.5	443	201	8.3	31.5	4.0	6.0	15.0	5 kA
ACFC75273	460/3/60	13,930	6570	3	18	25.4	8.5	2.0	579	263	11.8	44.8	6.0	8.0	15.0	5 kA
ACFC75274	460/3/60	19,150	9040	2	23	43.3	14.5	2.5	1209	548	26.1	98.9	7.2	9.0	15.0	5 kA
ACFC75275	460/3/60	53,660	25 320	5	38	29	9.7	3.0	2126	964	49.5	187.5	18.0	20.0	20.0	5 kA
ACFC75276	575/3/60	14,340	6768	3	14	38.9	13.0	1.5	771	350	11.3	42.7	6.0	8.0	15.0	5 kA
ACFC75277	575/3/60	20,770	9800	2	15	25.4	8.5	2.0	1389	630	21.0	79.3	6.4	9.0	15.0	5 kA
ACFC75278	575/3/60	30,030	14 170	3	20	43.3	14.5	2.5	1854	841	30.6	115.7	9.6	12.0	15.0	5 kA
ACFC75279	575/3/60	60,620	28 610	6	38	29	9.7	4.0	3040	1379	74.9	283.4	19.2	21.0	20.0	5 kA
ACFC75280	575/3/60	9350	4410	2	14	38.9	13.0	1.5	627	284	8.3	31.5	4.0	6.0	15.0	5 kA
ACFC75281	575/3/60	13,930	6570	3	18	25.4	8.5	2.0	771	350	11.8	44.8	6.0	8.0	15.0	5 kA
ACFC75282	575/3/60	19,150	9040	2	23	43.3	14.5	2.5	1389	630	26.1	98.9	6.4	9.0	15.0	5 kA
ACFC75283	575/3/60	53,660	25 320	5	38	29	9.7	3.0	2784	1263	49.5	187.5	16.0	18.0	15.0	5 kA

Outdoor heat exchanger selection data

Cooling unit models 0511

Type	Ambient Temperature – °C (°F)	Voltage		
		208–230	460	575
Air-Cooled Condenser	35 (95)	ACCD76052	ACCD76063	ACCD76074
	41 (105)	ACCD76052	ACCD76063	ACCD76074
	46 (115)	ACCD76053	ACCD76064	ACCD76075
Fluid Cooler	35 (95)	ACFC75260	ACFC75268	ACFC75276
	41 (105)	ACFC75260	ACFC75268	ACFC75276

Cooling unit models 1121

Type	Ambient Temperature – °C (°F)	Voltage		
		208–230	460	575
Air-Cooled Condenser	35 (95)	ACCD76055*	ACCD76066*	ACCD76077*
	41 (105)	ACCD76055*	ACCD76066*	ACCD76077*
	46 (115)	ACCD76056*	ACCD76067*	ACCD76078*
Fluid Cooler	35 (95)	ACFC75260	ACFC75268	ACFC75276
	41 (105)	ACFC75260	ACFC75268	ACFC75276

* These selections require a dual circuit air cooled condenser for a single refrigeration circuit indoor unit. These situations will require manifolding (field installed/supplied) the discharge and liquid lines at the condenser to make one refrigeration circuit.

Cooling unit models 1822

Type	Ambient Temperature – °C (°F)	Voltage		
		208–230	460	575
Air-Cooled Condenser	35 (95)	ACCD76059	ACCD76070	ACCD76081
	41 (105)	ACCD76059	ACCD76070	ACCD76081
	46 (115)	ACCD76059	ACCD76070	ACCD76081
Fluid Cooler	35 (95)	ACFC75261	ACFC75269	ACFC75277
	41 (105)	ACFC75261	ACFC75269	ACFC75277

Cooling unit models 2242

Type	Ambient Temperature – °C (°F)	Voltage		
		208–230	460	575
Air-Cooled Condenser	35 (95)	ACCD76059	ACCD76070	ACCD76081
	41 (105)	ACCD76059	ACCD76070	ACCD76081
	46 (115)	ACCD76060	ACCD76071	ACCD76082
Fluid Cooler	35 (95)	ACFC75262	ACFC75270	ACFC75278
	41 (105)	ACFC75262	ACFC75270	ACFC75278

Cooling unit models 2542, 2842

Type	Ambient Temperature – °C (°F)	Voltage		
		208–230	460	575
Air-Cooled Condenser	35 (95)	ACCD76060	ACCD76071	ACCD76082
	41 (105)	ACCD76060	ACCD76071	ACCD76082
	46 (115)	ACCD76060	ACCD76071	ACCD76082
Fluid Cooler	35 (95)	ACFC75262	ACFC75270	ACFC75278
	41 (105)	ACFC75262	ACFC75270	ACFC75278

Pumps

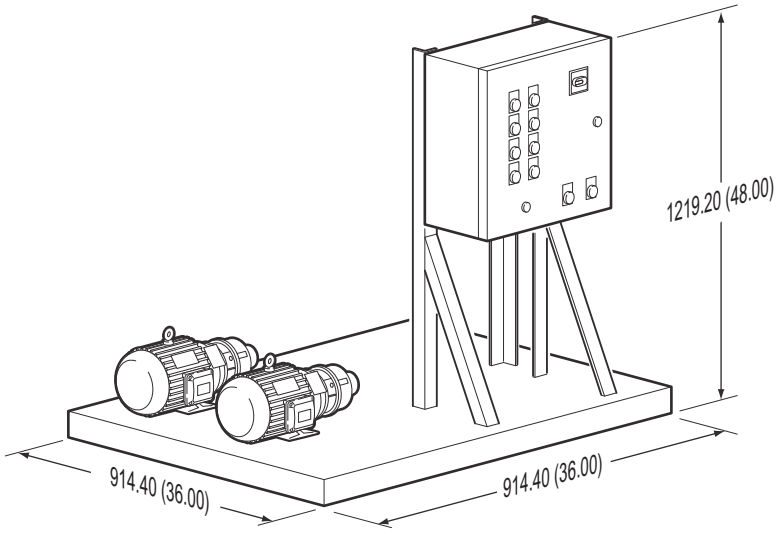
Pump package and enclosure SKUs

SKU	Item
ACAC76133	Uniflair Dual Pump Package Enclosure*
ACPP2320	Dual Pump Package 2 HP 208–230V/3/60Hz, Flow Rate 34 GPM
ACPP2321	Dual Pump Package 2 HP 208–230V/3/60Hz, Flow Rate 53 GPM
ACPP2322	Dual Pump Package 5 HP 208–230V/3/60Hz
ACPP2323	Dual Pump Package 7.5 HP 208–230V/3/60Hz
ACPP2324	Dual Pump Package 2 HP 460V/3/60Hz, Flow Rate 34 GPM
ACPP2325	Dual Pump Package 2 HP 460V/3/60Hz, Flow Rate 53 GPM
ACPP2326	Dual Pump Package 5 HP 460V/3/60Hz
ACPP2327	Dual Pump Package 7.5 HP 460V/3/60Hz
ACPP2328	Dual Pump Package 2 HP 575V/3/60Hz, Flow Rate 34 GPM
ACPP2329	Dual Pump Package 2 HP 575V/3/60Hz, Flow Rate 53 GPM
ACPP2330	Dual Pump Package 5 HP 575V/3/60Hz
ACPP2331	Dual Pump Package 7.5 HP 575V/3/60Hz

*Enclosure is optional and can be ordered separately.
Not pictured are ship-loose items:
- 15 Gallon Steel Expansion Compression Tank w/ Airtrol Fitting, Flow Switch
Does NOT include: - Piping, valves, and gauges

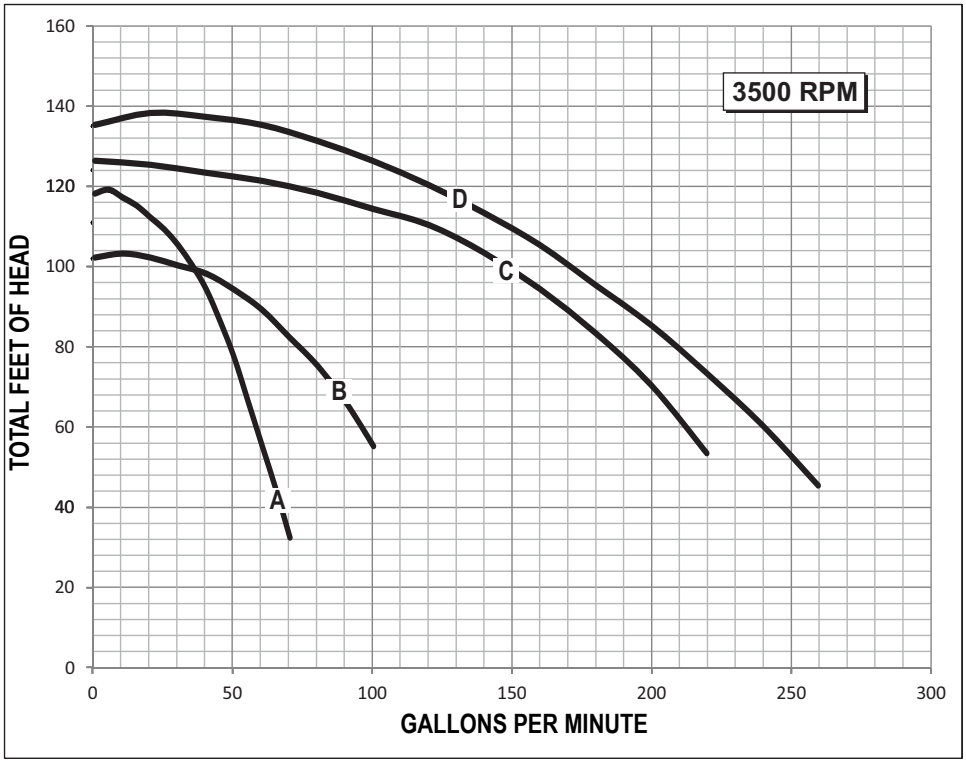
Pump dimensional data

NOTE: It is recommended to have 914 mm (36 in.) of clearance on all sides for servicing.



Pump performance data

Letter in Graph	SKU	HP	Voltage	FLA	MCA	MOP	Line/Size – in.
A	ACPP2320	2	208/3/60	7.5	10	20	Suction/1.5 Discharge/1.25
	ACPP2324		460/3/60	3.4	5	10	
	ACPP2328		575/3/60	2.7	5	10	
B	ACPP2321	2	208/3/60	7.5	10	20	Suction/2 Discharge/1.5
	ACPP2325		460/3/60	3.4	5	10	
	ACPP2329		575/3/60	2.7	5	10	
C	ACPP2322	5	208/3/60	16.7	21	40	Suction/2.5 Discharge/2
	ACPP2326		460/3/60	7.6	10	20	
	ACPP2330		575/3/60	6.1	10	20	
D	ACPP2323	7.5	208/3/60	24	30	55	Suction/2.5 Discharge/2
	ACPP2327		460/3/60	11	14	25	
	ACPP2331		575/3/60	8.8	14	25	

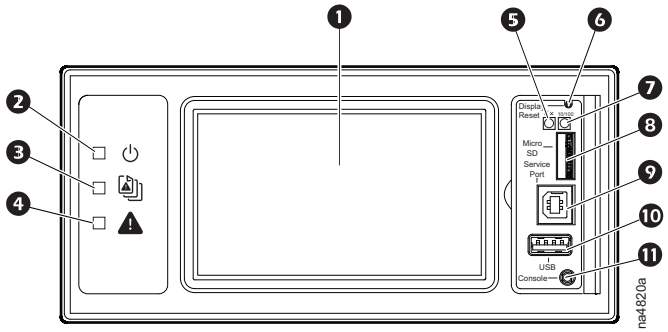


Main Components

Microprocessor Controller

The microprocessor controller display interface allows the unit to be turned on or off and displays the configuration and condition of the unit.

Display interface



Item	Description	Function
❶	LCD display	7-inch touch-screen color display.
❷	Power LED	The display is powered when the LED is illuminated.
❸	Check Log LED	When this LED is illuminated, a new entry has been made to the event log.
❹	Alarm LED	When illuminated, the system has an active alarm.
❺	Status LED	Displays current network management card status.
❻	Display Reset button	Resets the display microprocessor. This has no effect on the air conditioner controller.
❼	Link-RX/TX (10/100) LED	Displays current network link status.
❽	Micro SD card slot	Memory card expansion slot.
❾	Service port	USB-B port used only by service personnel.
❿	USB-A port	Supports firmware upgrades and data extraction.
⓫	Serial Configuration port	Connects the display to a local computer to configure initial network settings or access the command line interface (CLI).

Open architecture

The Uniflair LE DX protocol is open for integration with all building management systems. Communication interface on the system can be StruxureWare, MODBUS, LON FTT10, TREND, PCOWeb, or BACNET.

Control type

Controller utilizes proportional/integral/derivative (PID), a time-proven precision environmental control method. This allows for custom tuning of control variables to achieve desired system response.

Functions

- Input/output module programming
- Event logging
- Redundant unit group
- Static pressure adjustment
- Status report
- System control

Logging

The event log keeps a record of all alarms and events. Each event log contains a time/date stamp as well as operating conditions at the time of occurrence. The controller also displays run time, in hours, for major components (air filters, fans, compressors, heaters, and humidifier).

The data log displays temperature and other data measurements from the cooling unit.

Control

The touch-screen LCD display interface provided on Uniflair LE DX units is protected by a configurable password and provides access to information and settings for the unit.

- Fan speed setpoint
- High humidity alarm
- High temperature alarm
- Humidity setpoint
- Low humidity alarm
- Low temperature alarm
- Dual temperature setpoint
- Set date/time
- Remote unit switch on/off
- Compressor sequencing
- Alarms
- Operating time scheduling
- Manual control of components

Alarms

- High/Low Temperature Threshold Exceeded
- High/Low Humidity Threshold Exceeded
- Supply Air Temperature Threshold Exceeded
- Return Air Sensor Error Detected Alarm
- High/Low Airflow
- Humidifier
- Smoke Detected
- Electric Heater Over Temperature
- Electronic Expansion Valve Error
- High/Low Pressure
- Dual Circuit Expansion Board Error Detected
- Digital 2/4/6 Input Abnormal
- External Sensor Threshold Exceeded
- Supply Air Sensor Error Detected
- Air Filter Clogged
- Water Detected Fault
- Humidity Sensor Error Detected Alarm
- Hot Water Sensor Error Detected Alarm
- Outdoor Temperature Sensor Error Detected Alarm
- EEPROM Error Detected Alarm
- EXV Error Alarm

Worldwide Customer Support

Customer support for this or any other product is available at no charge in any of the following ways:

- Visit the Schneider Electric Web site to access documents in the Schneider Electric Knowledge Base and to submit customer support requests.
  - **www.schneiderelectric.com** (Corporate Headquarters)
    Connect to localized Schneider Electric Web sites for specific countries, each of which provides customer support information.
  - **www.schneiderelectric.com/support/**
    Global support searching Schneider Electric Knowledge Base and using e-support.
- Contact the Schneider Electric Customer Support Center by telephone or e-mail.
  - Local, country-specific centers: go to **www.schneiderelectric.com > Support > Operations around the world** for contact information.

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