Technical Specifications

Uniflair™ LE

Uniflair LE Chilled Water Air Conditioners

20–130 kW
208–230/460 V, 3 Ph, 60 Hz

Schneider Electric

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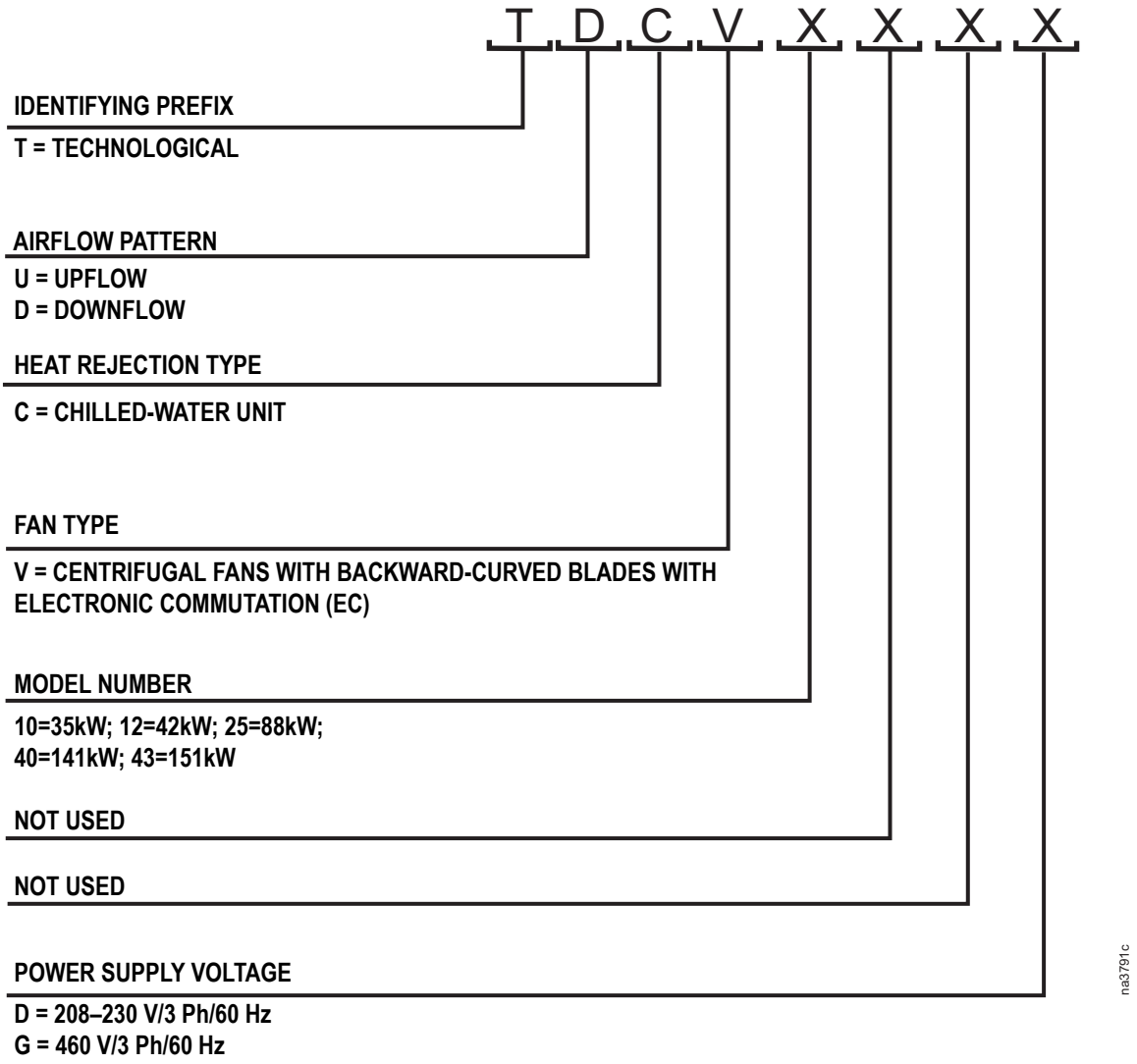
Technical Data

Model Nomenclature



Overview

Standard features

Double-skinned panels	The external panels are double skin lined internally with fiberglass heat-insulating material 15 mm (0.59 in.) thick and 20 kg/m^3 (0.000723 lbs/$in.^3$) of density. Panels are coated on the external side with RAL 5013 epoxy-polyester paint which ensures long-term durability.
Electronically commutated fans	Uniflair LE Chilled Water (CW) units come standard with highly efficient and reliable electronically commutated (EC) fans. EC fans are controlled via a signal from the controller that constantly adjusts airflow to match the heat load in the data center without the need of a VFD (Variable Frequency Drive). They are quiet, low maintenance, and produce very low vibration.
Full front service access	Uniflair LE CW units were designed for all service to be available through the front of the unit.
Group control	Allows up to 10 units to communicate with each other for redundancy, demand fighting prevention, mode assist, and global sharing of certain settings.
Compact design	The Uniflair LE CW 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.
2-/3-way valve	A fully modulating valve is microprocessor controlled to automatically direct the proper amount of chilled water in the cooling coil to maintain desired conditions.
Merv 8 filters	Uniflair LE CW units use Merv 8 filters to maintain clean, particle-free environment required in the data center space.
Hydrophilic coated coil	Hydrophilic coating on the coil allows condensate water to more efficiently flow to the pan at the bottom.
Interior panels	Uniflair LE CW units are equipped with internal panels for shutting off the compartments affected by the airflow produced. Interior panels ensure reduction in noise as well as the ability to operate the unit with the doors open during servicing.
Non-fused main power disconnect switch	A non-fused main power disconnect switch disconnects all high voltage power to the unit if necessary. The disconnect switch is accessible from the exterior of the unit.

Optional features

- Upflow and downflow configurations
- Colors:
  - Schneider white—standard
  - Raven black—optional
- Dampers
- Adjustable floor stands
- Plenums
- Sub-bases
- Humidity control
  - Humidification—steam generating humidifier
  - Dehumidification—SCR controlled electric reheat
- Water leak detection (see “Accessories” on this page)
- Remote display interface (see “Accessories” on this page)
- Serial adapters (see “Accessories” on this page)
- Condensate pumps (see “Accessories” on this page)
- Firestat (see “Accessories” on this page)
- Smoke (see “Accessories” on this page)

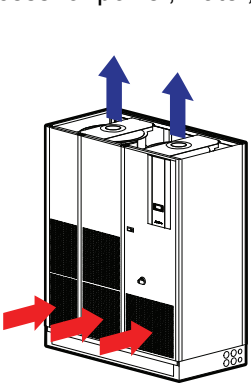
Accessories

SKU	Description
ACAC76115	Uniflair smoke sensor
ACAC76116	Uniflair fire sensor
ACAC76117	Uniflair 24-V relay for remote smoke/fire sensor
ACAC76118	Uniflair water leak detector – tape
ACAC76119	Uniflair water leak detector – spot
ACAC76120	Uniflair water leak detector – additional tape
ACAC76121	Uniflair water leak detector – additional spot
ACAC76122	Uniflair serial adaptor TCP/IP
ACAC76123	Uniflair serial adaptor RS485
ACAC76124	Uniflair serial adaptor LON
ACAC76125	Uniflair serial adaptor RS232 (modem use)
ACAC76127	Uniflair remote user terminal
ACAC76129	Uniflair condensate pump 230-V high-temperature
ACAC76130	Uniflair condensate pump 115 V

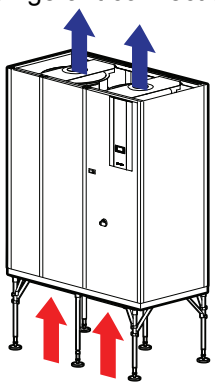
Airflow Configurations

Upflow

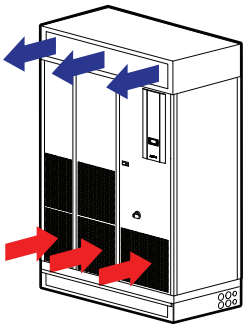
Upflow units distribute air through a supply plenum, pre-engineered duct system, or drop ceiling. Return air can enter the unit via the front, rear, or bottom of the unit based on configuration. A sub-base is required to allow access for power, water, and refrigerant connections on non-raised floor installations.



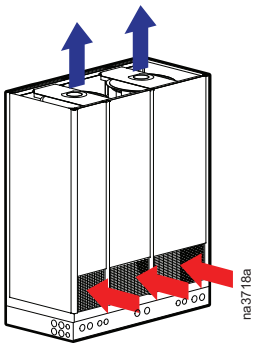
FRONT RETURN
WITH TOP SUPPLY



BOTTOM RETURN
WITH TOP SUPPLY



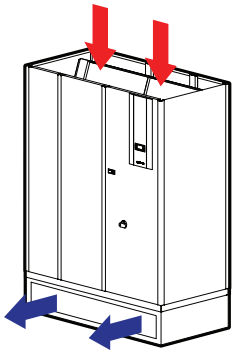
FRONT RETURN
WITH TOP FRONT SUPPLY
(PLENUM AND GRILLE)



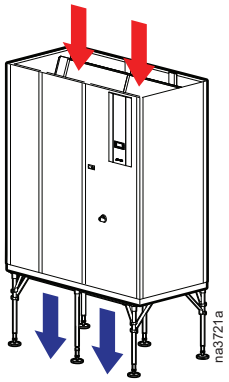
REAR RETURN
WITH TOP SUPPLY

Downflow

Downflow units distribute air through a front supply sub-base plenum. Return air enters the top of the unit directly from the environment or through a duct system.



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



TOP RETURN
WITH BOTTOM SUPPLY
(FLOOR STAND)

Performance Specifications

Net cooling capacity—7.2°C (45°F) EWT, 0% Glycol

Delta T	Model	1000	1200	2500	4000	4300*
26.6°C (80°F) DB, 19.2°C (66.6°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	40.3 (138,000)	48.4 (165,000)	88.0 (300,000)	126.6 (432,000)	159.2 (543,000)
	Sensible – kW (BTU/Hr)	32.9 (112,000)	39.6 (135,000)	76.4 (261,000)	113.3 (387,000)	142.7 (487,000)
	Flow Rate – L/s (GPM)	1.8 (28)	2.1 (33.6)	3.8 (60.9)	5.5 (87.8)	7.0 (110.5)
	Pressure Drop – kPa (psig)	48.37 (7.02)	66.9 (9.71)	56.77 (8.24)	82.47 (11.97)	106.11 (15.40)
6.6°C 12°F	Total – kW (BTU/Hr)	37.8 (129,000)	45.8 (156,000)	84.1 (287,000)	121.8 (416,000)	154.3 (527,000)
	Sensible – kW (BTU/Hr)	31.1 (106,000)	37.6 (128,000)	73.1 (250,000)	109.1 (372,000)	138.4 (472,000)
	Flow Rate – L/s (GPM)	1.4 (22)	1.7 (26.6)	3.1 (48.7)	4.5 (70.7)	5.7 (89.6)
	Pressure Drop – kPa (psig)	30.73 (4.46)	43.27 (6.28)	37.34 (5.42)	54.98 (7.98)	71.66 (10.40)
7.7°C 14°F	Total – kW (BTU/Hr)	35.2 (120,000)	43.1 (147,000)	80.0 (273,000)	116.9 (399,000)	149.2 (509,000)
	Sensible – kW (BTU/Hr)	29.2 (100,000)	35.6 (122,000)	69.8 (238,000)	104.8 (357,000)	133.8 (457,000)
	Flow Rate – L/s (GPM)	1.1 (17.6)	1.4 (21.6)	2.5 (39.8)	3.7 (58.4)	4.7 (74.5)
	Pressure Drop – kPa (psig)	20.33 (2.95)	29.21 (4.24)	25.70 (3.73)	37.90 (5.50)	50.50 (7.33)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.9°C (62.7°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	30.8 (105,000)	37.5 (128,000)	69.8 (238,000)	102.4 (349,000)	132.1 (451,000)
	Sensible – kW (BTU/Hr)	27.2 (93,000)	32.9 (112,000)	64.2 (219,000)	95.4 (325,000)	121.0 (413,000)
	Flow Rate – L/s (GPM)	1.4 (21.6)	1.7 (26.3)	3.1 (48.9)	4.5 (71.7)	5.8 (91.2)
	Pressure Drop – kPa (psig)	29.56 (4.29)	43.85 (6.36)	37.96 (5.51)	5643 (8.19)	74.07 (10.75)
6.6°C 12°F	Total – kW (BTU/Hr)	28.4 (97,000)	35.0 (120,000)	66.4 (226,000)	97.8 (334,000)	125.4 (473,000)
	Sensible – kW (BTU/Hr)	25.4 (87,000)	30.9 (106,000)	60.9 (208,000)	91.1 (311,000)	116.6 (398,000)
	Flow Rate – L/s (GPM)	1.1 (16.7)	1.3 (20.5)	2.4 (38.7)	3.6 (57.2)	4.6 (73.4)
	Pressure Drop – kPa (psig)	18.47 (2.68)	27.44 (3.98)	24.46 (3.55)	37.00 (5.37)	49.26 (7.15)
7.7°C 14°F	Total – kW (BTU/Hr)	25.8 (88,000)	32.5 (111,000)	642 (212,000)	92.9 (314,000)	120.2 (410,000)
	Sensible – kW (BTU/Hr)	23.3 (79,000)	28.9 (99,000)	57.4 (196,000)	86.6 (295,000)	111.7 (381,000)
	Flow Rate – L/s (GPM)	0.8 (13)	1.0 (16.4)	2.0 (31.3)	2.9 (46.7)	3.8 (60.5)
	Pressure Drop – kPa (psig)	11.64 (1.69)	18.19 (2.64)	16.40 (2.38)	25.08 (3.64)	33.90 (4.92)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.1°C (61°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	29.3 (100,000)	35.8 (122,000)	67.9 (232,000)	100.3 (342,000)	128.0 (437,000)
	Sensible – kW (BTU/Hr)	27.6 (94,000)	33.4 (114,000)	65.1 (222,000)	96.5 (329,000)	122.5 (418,000)
	Flow Rate – L/s (GPM)	1.3 (20.5)	1.6 (25.1)	3.0 (47.6)	4.4 (70.3)	5.7 (89.7)
	Pressure Drop – kPa (psig)	28.04 (4.07)	38.86 (5.64)	36.10 (5.24)	54.36 (7.89)	63.83 (9.26)
6.6°C 12°F	Total – kW (BTU/Hr)	27.2 (88,000)	33.6 (115,000)	64.4 (212,000)	95.9 (327,000)	123.4 (421,000)
	Sensible – kW (BTU/Hr)	25.8 (88,000)	31.5 (107,000)	61.8 (210,000)	92.3 (314,000)	118.2 (403,000)
	Flow Rate – L/s (GPM)	1.0 (15.9)	1.2 (19.7)	2.4 (37.7)	3.5 (56.1)	4.6 (72.3)
	Pressure Drop – kPa (psig)	17.02 (2.47)	24.75 (3.59)	23.29 (3.38)	32.51 (4.72)	42.35 (6.15)
7.7°C 14°F	Total – kW (BTU/Hr)	24.5 (80,000)	31.1 (106,000)	60.6 (207,000)	91.2 (311,000)	118.4 (404,000)
	Sensible – kW (BTU/Hr)	23.5 (80,000)	29.4 (100,000)	58.4 (199,000)	87.9 (300,000)	113.5 (387,000)
	Flow Rate – L/s (GPM)	0.8 (12.3)	1.0 (15.7)	1.9 (30.5)	2.9 (45.9)	3.8 (59.6)
	Pressure Drop – kPa (psig)	10.47 (1.52)	16.12 (2.34)	15.85 (2.30)	24.18 (3.51)	29.53 (4.29)

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

Delta T	Model	1000	1200	2500	4000	4300*
22.2°C (72°F) DB, 14.8°C (58.7°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	24.7 (84,000)	30.3 (103,000)	58.4 (199,000)	87.0 (297,000)	111.9 (382,000)
	Sensible – kW (BTU/Hr)	25.3 (86,000)	29.2 (100,000)	57.3 (195,000)	85.1 (290,000)	108.8 (371,000)
	Flow Rate – L/s (GPM)	1.1 (17.3)	1.3 (21.2)	2.6 (40.9)	3.8 (61)	4.9 (78.3)
	Pressure Drop – kPa (psig)	19.71 (2.86)	28.32 (4.11)	27.22 (3.95)	41.55 (6.03)	55.53 (8.06)
6.6°C 12°F	Total – kW (BTU/Hr)	22.4 (76,000)	28.2 (96,000)	54.9 (187,000)	82.6 (282,000)	107.1 (365,000)
	Sensible – kW (BTU/Hr)	22.0 (75,000)	27.3 (93,000)	53.9 (184,000)	80.8 (276,000)	104.2 (356,000)
	Flow Rate – L/s (GPM)	0.8 (13.1)	1.0 (16.5)	2.0 (32.1)	3.1 (48.4)	4.0 (62.7)
	Pressure Drop – kPa (psig)	11.64 (1.69)	17.91 (2.60)	17.29 (2.51)	26.87 (3.90)	36.45 (5.29)
7.7°C 14°F	Total – kW (BTU/Hr)	12.9 (44,000)	24.2 (83,000)	51.1 (174,000)	77.0 (263,000)	101.8 (347,000)
	Sensible – kW (BTU/Hr)	12.1 (41,000)	23.5 (80,000)	50.4 (172,000)	75.4 (257,000)	99.1 (338,000)
	Flow Rate – L/s (GPM)	0.4 (6.5)	0.8 (12.2)	1.6 (25.7)	2.4 (38.7)	3.2 (51.2)
	Pressure Drop – kPa (psig)	3.28 (0.48)	10.13 (1.47)	11.30 (1.64)	17.64 (2.56)	24.74 (3.59)

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

Delta T	Model	1000	1200	2500	4000	4300*
21.1°C (70°F) DB, 13.9°C (57.1°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	21.9 (75,000)	27.0 (92,000)	52.4 (179,000)	78.7 (268,000)	101.5 (346,000)
	Sensible – kW (BTU/Hr)	21.5 (73,000)	26.4 (90,000)	52.0 (178,000)	77.6 (265,000)	99.6 (340,000)
	Flow Rate – L/s (GPM)	1.0 (15.3)	1.2 (18.9)	2.3 (36.7)	3.5 (55.1)	4.5 (71.1)
	Pressure Drop – kPa (psig)	15.78 (2.29)	22.94 (3.33)	22.39 (3.25)	34.38 (4.99)	46.30 (6.72)
6.6°C 12°F	Total – kW (BTU/Hr)	18.8 (64,000)	24.3 (83,000)	48.9 (167,000)	74.1 (253,000)	96.7 (330,000)
	Sensible – kW (BTU/Hr)	18.3 (62,000)	23.6 (81,000)	48.6 (166,000)	73.0 (249,000)	94.8 (323,000)
	Flow Rate – L/s (GPM)	0.7 (11)	0.9 (14.2)	1.8 (28.6)	2.7 (43.4)	3.6 (56.69)
	Pressure Drop – kPa (psig)	8.61 (1.25)	13.44 (1.95)	13.99 (2.03)	22.05 (3.20)	30.18 (4.38)
7.7°C 14°F	Total – kW (BTU/Hr)	11.4 (39,000)	15.0 (51,000)	44.1 (151,000)	66.6 (227,000)	91.1 (311,000)
	Sensible – kW (BTU/Hr)	10.6 (36,000)	13.9 (47,000)	43.6 (149,000)	65.4 (223,000)	89.3 (305,000)
	Flow Rate – L/s (GPM)	0.4 (5.8)	0.5 (7.5)	1.4 (22.2)	2.1 (33.5)	2.9 (45.8)
	Pressure Drop – kPa (psig)	2.68 (0.39)	4.55 (0.66)	8.61 (1.25)	13.44 (1.95)	19.98 (2.90)

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

Delta T	Model	1000	1200	2500	4000	4300*
26.6°C (80°F) DB, 14.7°C (58.5°F) WB, 36% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	34.7 (119,000)	42.2 (144,000)	80.2 (274,000)	118.2 (403,000)	150.1 (512,000)
	Sensible – kW (BTU/Hr)	34.0 (116,000)	41.0 (140,000)	79.1 (270,000)	116.6 (398,000)	147.3 (502,000)
	Flow Rate – L/s (GPM)	1.5 (24.3)	1.9 (29.6)	3.5 (56.2)	5.2 (82.8)	6.6 (105.1)
	Pressure Drop – kPa (psig)	37.32 (5.42)	52.95 (7.68)	49.39 (7.17)	73.82 (10.71)	96.54 (14.01)
6.6°C 12°F	Total – kW (BTU/Hr)	32.8 (112,000)	40.2 (137,000)	78.7 (269,000)	114.2 (390,000)	146.1 (498,000)
	Sensible – kW (BTU/Hr)	32.3 (110,000)	39.2 (134,000)	77.7 (265,000)	112.8 (385,000)	143.4 (489,000)
	Flow Rate – L/s (GPM)	1.2 (19.2)	1.5 (23.5)	3.2 (50.6)	4.2 (66.9)	5.4 (85.5)
	Pressure Drop – kPa (psig)	24.01 (3.49)	34.43 (5.00)	32.67 (4.74)	49.54 (7.19)	65.14 (9.45)
7.7°C 14°F	Total – kW (BTU/Hr)	30.9 (106,000)	38.1 (130,000)	73.6 (251,000)	110.1 (376,000)	141.7 (483,000)
	Sensible – kW (BTU/Hr)	30.6 (104,000)	37.3 (127,000)	72.9 (249,000)	108.7 (371,000)	139.2 (475,000)
	Flow Rate – L/s (GPM)	1.0 (15.6)	1.2 (19.2)	2.3 (37)	3.5 (55.4)	4.5 (71.3)
	Pressure Drop – kPa (psig)	16.20 (2.35)	23.43 (3.40)	22.50 (3.27)	34.78 (5.05)	46.10 (6.69)

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

Delta T	Model	1000	1200	2500	4000	4300*
29.4°C (85°F) DB,000 14.8°C (58.7°F) WB, 30% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	40.2 (137,000)	48.6 (166,000)	92.2 (315000)	135.6 (462,000)	171.4 (584,000)
	Sensible – kW (BTU/Hr)	40.0 (136,000)	48.0 (164,000)	92.2 (315,000)	135.3 (462,000)	170.1 (581,000)
	Flow Rate – L/s (GPM)	1.8 (28.2)	2.2 (34.1)	4.1 (64.6)	6.0 (95)	7.6 (120.1)
	Pressure Drop – kPa (psig)	48.90 (7.10)	68.86 (9.99)	64.21 (9.32)	95.48 (13.86)	123.94 (17.99)
6.6°C 12°F	Total – kW (BTU/Hr)	38.4 (131,000)	46.7 (159,000)	89.3 (305,000)	131.9 (450,000)	167.7 (572,000)
	Sensible – kW (BTU/Hr)	38.3 (131,000)	46.3 (158,000)	89.3 (305,000)	131.7 (449,000)	166.6 (568,000)
	Flow Rate – L/s (GPM)	1.4 (22.5)	1.7 (27.4)	3.3 (52.2)	4.9 (77.2)	6.2 (98.2)
	Pressure Drop – kPa (psig)	32.11 (4.66)	45.71 (6.63)	43.08 (6.25)	64.63 (9.38)	84.52 (12.27)
7.7°C 14°F	Total – kW (BTU/Hr)	36.6 (125,000)	44.8 (153,000)	86.1 (294,000)	128.0 (437,000)	163.8 (559,000)
	Sensible – kW (BTU/Hr)	36.7 (125,000)	44.5 (152,000)	86.3 (294,000)	127.9 (436,000)	162.8 (555,000)
	Flow Rate – L/s (GPM)	1.2 (18.4)	1.4 (22.5)	2.7 (43.3)	4.1 (64.4)	5.2 (82.4)
	Pressure Drop – kPa (psig)	22.28 (3.23)	31.83 (4.62)	30.18 (4.38)	45.93 (6.67)	60.80 (8.82)

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

Delta T	Model	1000	1200	2500	4000	4300*
32.2°C (90°F) DB, 15°C (59°F) WB, 24% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	46.1 (157,000)	55.2 (188,000)	105.4 (360,000)	154.3 (527,000)	193.3 (660,000)
	Sensible – kW (BTU/Hr)	46.1 (157,000)	55.1 (188,000)	104.6 (357,000)	153.4 (524,000)	193.3 (660,000)
	Flow Rate – L/s (GPM)	2.0 (32.1)	2.4 (38.7)	4.6 (73.2)	6.8 (107.5)	8.5 (135.2)
	Pressure Drop – kPa (psig)	61.63 (8.94)	87.37 (12.68)	81.22 (11.79)	120.08 (17.43)	155.00 (22.50)
6.6°C 12°F	Total – kW (BTU/Hr)	44.4 (152,000)	53.4 (182,000)	102.6 (350,000)	150.8 (515,000)	190.0 (648,000)
	Sensible – kW (BTU/Hr)	44.4 (152,000)	53.4 (182,000)	101.7 (347,000)	149.9 (512,000)	190.0 (648,000)
	Flow Rate – L/s (GPM)	1.6 (25.8)	2.0 (31.3)	3.8 (59.6)	5.5 (87.8)	7.0 (111.1)
	Pressure Drop – kPa (psig)	41.66 (6.05)	58.73 (8.52)	44.14 (6.41)	82.02 (11.9)	106.57 (15.47)
7.7°C 14°F	Total – kW (BTU/Hr)	42.8 (146,000)	51.7 (176,000)	99.7 (340,000)	147.2 (502,000)	204.1 (696,000)
	Sensible – kW (BTU/Hr)	42.8 (146,000)	51.7 (176,000)	98.8 (337,000)	146.3 (499,000)	186.1 (635,000)
	Flow Rate – L/s (GPM)	1.3 (21.3)	1.6 (26)	3.1 (49.7)	4.6 (73.6)	5.9 (93.6)
	Pressure Drop – kPa (psig)	29.22 (4.24)	41.37 (6.00)	39.24 (5.70)	59.06 (8.57)	77.17 (11.20)

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

Delta T	Model	1000	1200	2500	4000	4300*
35°C (95°F) DB, 15.1°C (59.3°F) WB, 20% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	51.43 (175,000)	61.78 (211,000)	117.4 (401,000)	171.5 (585,000)	215.67 (736,000)
	Sensible – kW (BTU/Hr)	51.4 (175,000)	61.8 (211,000)	117.1 (400,000)	171.1 (584,000)	214.8 (733,000)
	Flow Rate – L/s (GPM)	2.3 (35.9)	2.7 (43)	5.1 (81.5)	7.5 (119.4)	9.4 (149.7)
	Pressure Drop – kPa (psig)	176.38 (25.60)	244.60 (35.50)	225.30 (32.70)	339.68 (49.30)	438.20 (63.60)
6.6°C 12°F	Total – kW (BTU/Hr)	49.75 (170,000)	60.03 (205,000)	114.6 (390,000)	168.1 (574,000)	212.44 (725,000)
	Sensible – kW (BTU/Hr)	49.7 (170,000)	60.0 (205,000)	114.4 (390,000)	167.8 (572,000)	211.7 (722,000)
	Flow Rate – L/s (GPM)	1.8 (29.1)	2.2 (35)	4.2 (66.6)	6.2 (97.9)	7.8 (123.4)
	Pressure Drop – kPa (psig)	119.20 (17.30)	166.05 (24.10)	154.34 (22.40)	233.57 (33.90)	303.16 (44.00)
7.7°C 14°F	Total – kW (BTU/Hr)	48.06 (164,000)	58.27 (199,000)	111.7 (381,000)	164.6 (561,000)	209.02 (713,000)
	Sensible – kW (BTU/Hr)	48.1 (164,000)	58.3 (199,000)	111.7 (381,000)	164.6 (561,000)	208.4 (711,000)
	Flow Rate – L/s (GPM)	1.5 (24.1)	1.8 (29.2)	3.5 (55.8)	5.2 (82.4)	6.6 (104.3)
	Pressure Drop – kPa (psig)	84.06 (12.20)	118.51 (17.20)	110.93 (16.10)	168.12 (24.40)	219.79 (31.90)

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

Net cooling capacity—10°C (50°F) EWT, 0% Glycol

Delta T	Model	1000	1200	2500	4000	4300*
27°C (80°F) DB, 19°C (66.7°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	31.0 (106,000)	37.7 (129,000)	69.9 (239,000)	102.2 (349,000)	129.8 (443,000)
	Sensible – kW (BTU/Hr)	27.1 (93,000)	32.7 (112,000)	63.7 (217,000)	94.5 (323,000)	119.8 (409,000)
	Flow Rate – L/s (GPM)	1.4 (21.7)	1.7 (26.4)	3.1 (49)	4.5 (71.7)	5.7 (91)
	Pressure Drop – kPa (psig)	29.80 (4.33)	42.53 (6.17)	37.87 (5.50)	55.78 (8.10)	72.83 (10.57)
6.6°C 12°F	Total – kW (BTU/Hr)	28.6 (98,000)	35.2 (120,000)	66.2 (226,000)	97.6 (333,000)	125.0 (427,000)
	Sensible – kW (BTU/Hr)	25.3 (86,000)	30.8 (105,000)	60.5 (206,000)	90.4 (308,000)	115.4 (394,000)
	Flow Rate – L/s (GPM)	1.1 (16.8)	1.3 (20.6)	2.4 (38.8)	3.6 (57.2)	4.6 (73.3)
	Pressure Drop – kPa (psig)	18.52 (2.69)	26.62 (3.86)	24.42 (3.54)	36.42 (5.29)	48.44 (7.03)
7.7°C 14°F	Total – kW (BTU/Hr)	26.3 (90,000)	32.7 (11,000)	62.3 (212,000)	92.8 (316,000)	119.8 (409,000)
	Sensible – kW (BTU/Hr)	23.5 (80,000)	28.8 (98,000)	57.1 (195,000)	85.9 (293,000)	110.7 (378,000)
	Flow Rate – L/s (GPM)	0.8 (13.2)	1.0 (16.4)	2.0 (31.3)	2.9 (46.7)	3.8 (60.3)
	Pressure Drop – kPa (psig)	11.86 (1.72)	17.36 (2.52)	16.46 (2.39)	24.94 (3.62)	33.41 (4.85)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.1°C (62.5°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	22.5 (77,000)	27.7 (95,000)	53.3 (182,000)	79.5 (271,000)	102.4 (349,000)
	Sensible – kW (BTU/Hr)	21.4 (73,000)	26.1 (89,000)	51.3 (175,000)	76.3 (261,000)	97.7 (333,000)
	Flow Rate – L/s (GPM)	1.0 (15.8)	1.2 (19.4)	2.4 (37.4)	3.35 (55.7)	4.5 (71.8)
	Pressure Drop – kPa (psig)	16.49 (2.39)	24.01 (3.49)	22.78 (3.31)	34.78 (5.05)	46.43 (6.74)
6.6°C 12°F	Total – kW (BTU/Hr)	19.9 (68,000)	25.4 (87,000)	49.6 (169,000)	74.8 (271,000)	97.3 (332,000)
	Sensible – kW (BTU/Hr)	19.4 (66,000)	24.0 (82,000)	47.9 (163,000)	71.9 (245,000)	93.0 (317,000)
	Flow Rate – L/s (GPM)	0.7 (11.7)	0.9 (14.9)	1.8 (29.1)	2.8 (43.8)	3.6 (57)
	Pressure Drop – kPa (psig)	9.26 (1.34)	14.47 (2.10)	14.27 (2.07)	22.31 (3.24)	30.07 (4.36)
7.7°C 14°F	Total – kW (BTU/Hr)	11.0 (38,000)	20.5 (70,000)	45.6 (156,000)	68.5 (234,000)	91.7 (313,000)
	Sensible – kW (BTU/Hr)	10.2 (35,000)	19.7 (67,000)	44.2 (150,000)	66.0 (225,000)	87.7 (299,000)
	Flow Rate – L/s (GPM)	0.3 (5.5)	0.6 (10.3)	1.5 (23)	2.2 (34.5)	2.9 (46.1)
	Pressure Drop – kPa (psig)	2.31 (0.34)	7.23 (1.05)	9.33 (1.35)	14.11 (2.05)	20.38 (2.96)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.1°C (61°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	21.8 (74,000)	26.9 (92,000)	52.2 (178,000)	78.2 (267,000)	100.8 (344,000)
	Sensible – kW (BTU/Hr)	21.4 (73,000)	26.3 (90,000)	51.9 (177,000)	77.2 (263,000)	99.0 (338,000)
	Flow Rate – L/s (GPM)	1.0 (15.3)	1.2 (18.9)	2.3 (36.6)	3.5 (54.8)	4.5 (70.7)
	Pressure Drop – kPa (psig)	15.62 (2.27)	22.57 (3.28)	21.95 (3.19)	33.79 (4.90)	45.10 (6.55)
6.6°C 12°F	Total – kW (BTU/Hr)	19.4 (66,000)	24.7 (84,000)	48.7 (166,000)	73.7 (252,000)	96.1 (328,000)
	Sensible – kW (BTU/Hr)	18.9 (65,000)	24.0 (82,000)	48.4 (165,000)	72.8 (248,000)	94.3 (322,000)
	Flow Rate – L/s (GPM)	0.7 (11.4)	0.9 (14.5)	1.8 (28.6)	2.7 (43.2)	3.6 (56.3)
	Pressure Drop – kPa (psig)	8.97 (1.30)	13.89 (2.02)	13.72 (1.99)	21.65 (3.14)	29.40 (4.27)
7.7°C 14°F	Total – kW (BTU/Hr)	11.4 (39,000)	20.2 (69,000)	44.9 (153,000)	67.6 (231,000)	90.7 (309,000)
	Sensible – kW (BTU/Hr)	10.5 (36,000)	19.4 (66,000)	44.4 (151,000)	66.5 (227,000)	89.0 (304,000)
	Flow Rate – L/s (GPM)	0.4 (5.7)	0.6 (10.2)	1.4 (22.6)	2.1 (34)	2.9 (45.6)
	Pressure Drop – kPa (psig)	2.60 (0.38)	7.23 (1.05)	8.78 (1.27)	13.78 (2.00)	19.71 (2.86)

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

Delta T	Model	1000	1200	2500	4000	4300*
22.2°C (72°F) DB, 14.8°C (58.7°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	18.4 (63,000)	22.9 (78,000)	44.88 (153,000)	67.81 (231,000)	88.6 (302,000)
	Sensible – kW (BTU/Hr)	17.8 (61,000)	22.2 (76,000)	44.4 (151,000)	66.7 (228,000)	87.0 (297,000)
	Flow Rate – L/s (GPM)	0.8 (12.9)	1.0 (16.1)	2.0 (31.5)	3.0 (47.5)	3.9 (62.1)
	Pressure Drop – kPa (psig)	11.28 (1.64)	16.78 (2.44)	16.46 (2.39)	25.92 (3.76)	35.41 (5.14)
6.6°C 12°F	Total – kW (BTU/Hr)	10.7 (37,000)	19.4 (66,000)	41.15 (140,000)	62.32 (213,000)	83.1 (284,000)
	Sensible – kW (BTU/Hr)	9.9 (34,000)	18.5 (63,000)	40.5 (138,000)	61.0 (208,000)	81.3 (277,000)
	Flow Rate – L/s (GPM)	0.4 (6.3)	0.7 (11.4)	1.5 (24.1)	2.3 (36.5)	3.1 (48.7)
	Pressure Drop – kPa (psig)	2.89 (0.42)	8.97 (1.30)	10.15 (1.47)	15.75 (2.29)	22.38 (3.25)
7.7°C 14°F	Total – kW (BTU/Hr)	7.83 (27,000)	12.2 (42,000)	33.85 (115,000)	51.31 (175,000)	76.0 (259,000)
	Sensible – kW (BTU/Hr)	7.8 (27,000)	11.1 (38,000)	32.9 (112,000)	49.6 (169,000)	73.9 (252,000)
	Flow Rate – L/s (GPM)	0.3 (4.8)	0.4 (6.2)	1.1 (17)	1.6 (25.8)	2.4 (38.3)
	Pressure Drop – kPa (psig)	1.79 (0.26)	2.89 (0.42)	5.21 (0.76)	8.20 (1.19)	14.36 (2.08)

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

Delta T	Model	1000	1200	2500	4000	4300*
21.1°C (70°F) DB, 13.9°C (57.1°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	15.22 (52,000)	19.56 (67,000)	39.27 (134,000)	59.68 (204,000)	78.5 (268,000)
	Sensible – kW (BTU/Hr)	14.5 (50,000)	18.7 (64,000)	38.5 (131,000)	58.3 (199,000)	76.4 (261,000)
	Flow Rate – L/s (GPM)	0.7 (10.7)	0.9 (13.7)	1.7 (27.5)	2.6 (41.8)	3.5 (55)
	Pressure Drop – kPa (psig)	8.10 (1.18)	12.44 (1.81)	12.90 (1.87)	20.34 (2.95)	28.40 (4.12)
6.6°C 12°F	Total – kW (BTU/Hr)	9.03 (31,000)	11.78 (40,000)	34.12 (116,000)	51.75 (177,000)	72.5 (247,000)
	Sensible – kW (BTU/Hr)	8.1 (28,000)	10.6 (36,000)	33.2 (113,000)	50.0 (171,000)	70.2 (239,000)
	Flow Rate – L/s (GPM)	0.3 (5.3)	0.4 (6.9)	1.3 (20)	1.9 (30.3)	2.7 (42.5)
	Pressure Drop – kPa (psig)	2.31 (0.34)	3.47 (0.50)	7.13 (1.04)	11.16 (1.62)	17.37 (2.52)
7.7°C 14°F	Total – kW (BTU/Hr)	7.10 (24,000)	8.75 (30,000)	15.87 (54,000)	27.71 (95,000)	58.32 (199,000)
	Sensible – kW (BTU/Hr)	6.6 (22,000)	8.7 (30,000)	15.9 (54,000)	27.7 (95,000)	58.3 (199,000)
	Flow Rate – L/s (GPM)	0.3 (5)	0.4 (5.7)	0.6 (8.8)	1.0 (15.2)	1.9 (30.6)
	Pressure Drop – kPa (psig)	2.07 (0.3)	2.41 (0.35)	12.40 (1.8)	24.80 (3.6)	0.76 (0.11)

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

Delta T	Model	1000	1200	2500	4000	4300*
26.6°C (80°F) DB, 14.7°C (58.5°F) WB, 36% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	27.82 (95,000)	33.92 (116,000)	65.6 (224,000)	97.02 (331,000)	123.9 (423,000)
	Sensible – kW (BTU/Hr)	27.7 (94,000)	33.6 (115,000)	65.6 (224,000)	97.1 (331,000)	123.7 (422,000)
	Flow Rate – L/s (GPM)	1.2 (19.5)	1.5 (23.8)	2.9 (45.8)	4.3 (68)	5.5 (86.9)
	Pressure Drop – kPa (psig)	24.59 (3.57)	35.01 (5.08)	33.48 (4.86)	50.53 (7.33)	66.81 (9.7)
6.6°C 12°F	Total – kW (BTU/Hr)	26.13 (89,000)	32.11 (110,000)	62.4 (213,000)	93.14 (318,000)	119.9 (409,000)
	Sensible – kW (BTU/Hr)	25.9 (88,000)	31.7 (108,000)	62.4 (213,000)	93.1 (317,000)	119.5 (408,000)
	Flow Rate – L/s (GPM)	1.0 (15.3)	1.2 (18.8)	2.3 (36.5)	3.4 (54.6)	4.4 (70.3)
	Pressure Drop – kPa (psig)	15.62 (2.27)	22.57 (3.28)	21.68 (3.15)	33.47 (4.86)	44.76 (6.50)
7.7°C 14°F	Total – kW (BTU/Hr)	24.16 (82,000)	30.21 (103,000)	58.98 (201,000)	88.94 (303,000)	115.5 (394,000)
	Sensible – kW (BTU/Hr)	23.8 (81,000)	29.7 (101,000)	59.0 (201,000)	88.7 (302,000)	114.9 (392,000)
	Flow Rate – L/s (GPM)	0.8 (12.2)	1.0 (15.2)	1.9 (29.7)	2.8 (44.8)	3.7 (58.1)
	Pressure Drop – kPa (psig)	10.13 (1.47)	15.04 (2.18)	14.82 (2.15)	22.97 (3.33)	31.4 (4.56)

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

Delta T	Model	1000	1200	2500	4000	4300*
29.4°C (85°F) DB, 14.8°C (58.7°F) WB, 30% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	33.58 (115,000)	40.67 (139,000)	78.6 (268,000)	115.8 (395,000)	146.6 (500,000)
	Sensible – kW (BTU/Hr)	33.6 (115,000)	40.6 (139,000)	77.8 (266,000)	115.8 (395,000)	145.9 (498000)
	Flow Rate – L/s (GPM)	1.5 (23.5)	1.8 (28.5)	3.4 (54.5)	5.1 (80.6)	6.5 (102.3)
	Pressure Drop – kPa (psig)	34.72 (5.04)	48.90 (7.10)	46.37 (6.73)	69.56 (10.10)	90.53 (13.14)
6.6°C 12°F	Total – kW (BTU/Hr)	31.96 (109,000)	38.96 (133,000)	78.0 (266,000)	112.1 (382,000)	142.9 (487,000)
	Sensible – kW (BTU/Hr)	32.0 (109,000)	38.8 (133,000)	74.97 (256,000)	111.4 (380,000)	142.9 (487,000)
	Flow Rate – L/s (GPM)	1.2 (18.7)	1.4 (22.8)	2.8 (43.9)	4.1 (65.3)	5.3 (83.4)
	Pressure Drop – kPa (psig)	22.57 (3.28)	32.40 (4.70)	30.73 (4.46)	46.92 (6.81)	61.80 (8.97)
7.7°C 14°F	Total – kW (BTU/Hr)	30.31 (103,000)	37.19 (127,000)	72.5 (247,000)	108.1 (369,000)	138.8 (474,000)
	Sensible – kW (BTU/Hr)	30.2 (103,000)	37.0 (126,000)	72.5 (247,000)	107.6 (367,000)	138.4 (472,000)
	Flow Rate – L/s (GPM)	1.0 (15.3)	1.2 (18.7)	2.3 (36.2)	3.4 (54.2)	4.4 (69.7)
	Pressure Drop – kPa (psig)	15.33 (2.23)	22.28 (3.23)	21.40 (3.11)	32.81 (4.76)	43.76 (6.35)

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

Delta T	Model	1000	1200	2500	4000	4300*
32.2°C (90°F) DB, 15°C (59°F) WB, 24% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	40.6 (139,000)	49.1 (167,000)	94.7 (323,000)	139.3 (475,000)	176.6 (602,000)
	Sensible – kW (BTU/Hr)	40.3 (137,000)	49.1 (167,000)	93.26 (318,000)	137.6 (470,000)	174.7 (596,000)
	Flow Rate – L/s (GPM)	1.8 (28.2)	2.2 (34.2)	4.1 (65.4)	6.1 (96.5)	7.7 (122.5)
	Pressure Drop – kPa (psig)	48.61 (7.05)	68.57 (9.95)	65.03 (9.44)	97.12 (14.10)	127.28 (18.47)
6.6°C 12°F	Total – kW (BTU/Hr)	38.66 (132,000)	47.06 (161,000)	91.7 (313,000)	135.6 (463,000)	172.9 (590,000)
	Sensible – kW (BTU/Hr)	38.9 (133,000)	47.3 (161,000)	90.39 (308,000)	134 (457,000)	171.2 (584,000)
	Flow Rate – L/s (GPM)	1.4 (22.7)	1.7 (27.6)	3.3 (53)	5.0 (78.5)	6.3 (100.3)
	Pressure Drop – kPa (psig)	32.11 (4.66)	46.00 (6.68)	43.63 (6.33)	65.95 (9.57)	87.19 (12.65)
7.7°C 14°F	Total – kW (BTU/Hr)	37.00 (126,000)	45.29 (155,000)	88.6 (302,000)	131.7 (449,000)	168.9 (576,000)
	Sensible – kW (BTU/Hr)	37.2 (127,000)	45.4 (155,000)	87.41 (298,000)	130.2 (444,000)	167.3 (571,000)
	Flow Rate – L/s (GPM)	1.2 (18.6)	1.4 (22.8)	2.8 (44)	4.1 (65.6)	5.3 (84.3)
	Pressure Drop – kPa (psig)	22.28 (3.23)	32.11 (4.66)	31.01 (4.50)	46.92 (6.81)	62.80 (9.12)

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

Delta T	Model	1000	1200	2500	4000	4300*
35°C (95°F) DB, 15.1°C (59.3°F) WB, 20% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	46.24 (158,000)	55.87 (191,000)	106.9 (365,000)	156.9 (535,000)	198.96 (679,000)
	Sensible – kW (BTU/Hr)	46.2 (158,000)	55.9 (191,000)	106.9 (365,000)	156.9 (535,000)	199.0 (679,000)
	Flow Rate – L/s (GPM)	2.0 (32.4)	2.5 (39.1)	4.7 (74.5)	6.9 (109.6)	8.7 (138.6)
	Pressure Drop – kPa (psig)	144.69 (21.00)	201.88 (29.30)	188.79 (27.40)	286.62 (41.60)	375.51 (54.50)
6.6°C 12°F	Total – kW (BTU/Hr)	44.58 (152,000)	54.13 (185,000)	104 (355,000)	153.3 (523,000)	195.5 (667,000)
	Sensible – kW (BTU/Hr)	44.6 (152,000)	54.1 (185,000)	104.0 (355,000)	153.3 (523,000)	195.5 (667,000)
	Flow Rate – L/s (GPM)	1.7 (26.2)	2.0 (31.7)	3.8 (60.7)	5.7 (89.6)	7.2 (113.9)
	Pressure Drop – kPa (psig)	98.46 (14.00)	136.42 (19.80)	128.84 (18.70)	195.68 (28.40)	258.38 (37.50)
7.7°C 14°F	Total – kW (BTU/Hr)	42.9 (146,000)	52.35 (179,000)	101.1 (345,000)	149.50 (510,000)	198.96 (679,000)
	Sensible – kW (BTU/Hr)	42.9 (146,000)	52.4 (179,000)	101.1 (345,000)	149.5 (510,000)	199.0 (679,000)
	Flow Rate – L/s (GPM)	1.4 (21.7)	1.7 (26.4)	3.2 (50.7)	4.7 (75.2)	8.7 (138.6)
	Pressure Drop – kPa (psig)	68.21 (9.90)	96.46 (14.00)	91.64 (13.30)	140.56 (20.40)	375.51 (54.50)

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

Net cooling capacity—12.8°C (55°F) EWT, 0% Glycol

Delta T	Model	1000	1200	2500	4000	4300*
27°C (80°F) DB, 19°C (66.7°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	22.6 (77,000)	27.8 (95,000)	53.4 (182,000)	79.5 (271,000)	102.1 (348,000)
	Sensible – kW (BTU/Hr)	21.5 (73,000)	26.2 (89,000)	51.3 (175,000)	76.2 (260,000)	97.3 (332,000)
	Flow Rate – L/s (GPM)	1.0 (16.1)	8.8 (139.9)	2.4 (38.1)	3.6 (56.8)	4.6 (72.9)
	Pressure Drop – kPa (psig)	17.07 (2.48)	24.99 (3.57)	23.60 (3.43)	35.76 (5.19)	47.44 (6.88)
6.6°C 12°F	Total – kW (BTU/Hr)	20.53 (70,000)	25.58 (87,000)	49.76 (170,000)	74.87 (255,000)	97.22 (332,000)
	Sensible – kW (BTU/Hr)	19.8 (68,000)	24.3 (83,000)	48.0 (164,000)	71.9 (245,000)	92.8 (317,000)
	Flow Rate – L/s (GPM)	0.8 (12.2)	1.0 (15.2)	1.9 (29.6)	2.8 (44.6)	3.7 (57.9)
	Pressure Drop – kPa (psig)	10.13 (1.47)	15.04 (2.18)	14.54 (2.11)	22.64 (3.29)	30.73 (4.46)
7.7°C 14°F	Total – kW (BTU/Hr)	10.82 (37,000)	21.63 (74,000)	45.49 (155,000)	69.09 (236,000)	91.15 (311,000)
	Sensible – kW (BTU/Hr)	10.0 (34,000)	20.8 (71,000)	44.1 (151,000)	66.5 (227,000)	87.1 (297,000)
	Flow Rate – L/s (GPM)	0.3 (5.4)	0.7 (10.9)	1.4 (22.9)	2.2 (34.8)	2.9 (45.9)
	Pressure Drop – kPa (psig)	2.31 (0.34)	8.10 (1.18)	9.06 (1.31)	14.44 (2.10)	19.71 (2.86)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.1°C (62.5°F) WB, 50% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	16.1 (55,000)	19.6 (67,000)	38.4 (131,000)	58.1 (198,000)	75.8 (259,000)
	Sensible – kW (BTU/Hr)	15.5 (53,000)	18.7 (64,000)	37.7 (128,000)	56.7 (193,000)	73.7 (251,000)
	Flow Rate – L/s (GPM)	0.7 (11.1)	0.9 (14)	1.7 (27.5)	2.6 (41.5)	3.4 (54.1)
	Pressure Drop – kPa (psig)	8.39 (1.22)	12.73 (1.85)	12.62 (1.83)	20.01 (2.90)	27.06 (3.93)
6.6°C 12°F	Total – kW (BTU/Hr)	8.97 (31,000)	11.66 (40,000)	34.35 (118,000)	51.85 (177,000)	70.35 (240,000)
	Sensible – kW (BTU/Hr)	8.0 (27,000)	10.5 (36,000)	33.4 (114,000)	50.1 (171,000)	68.0 (232,000)
	Flow Rate – L/s (GPM)	0.3 (5.3)	0.4 (6.9)	1.3 (20.4)	1.9 (30.9)	2.6 (41.9)
	Pressure Drop – kPa (psig)	2.31 (0.34)	3.47 (0.50)	7.41 (1.08)	11.48 (1.67)	16.70 (2.42)
7.7°C 14°F	Total – kW (BTU/Hr)	6.67 (23,000)	8.18 (28,000)	14.01 (48,000)	24.94 (85,000)	54.97 (188,000)
	Sensible – kW (BTU/Hr)	6.7 (23,000)	8.2 (28,000)	14.0 (48,000)	24.9 (85,000)	55.0 (188,000)
	Flow Rate – L/s (GPM)	0.3 (4.6)	0.3 (5.2)	0.5 (8.6)	0.9 (14.9)	1.9 (30.3)
	Pressure Drop – kPa (psig)	1.79 (0.26)	2.07 (0.3)	1.52 (0.22)	2.96 (0.43)	8.96 (1.3)

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

Delta T	Model	1000	1200	2500	4000	4300*
23.8°C (75°F) DB, 16.1°C (61°F) WB, 45% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	15.93 (54,000)	20.14 (69,000)	39.52 (135,000)	59.87 (204,000)	78.52 (268,000)
	Sensible – kW (BTU/Hr)	45.3 (52,000)	19.3 (66,000)	38.8 (132,000)	58.5 (200,000)	76.5 (261,000)
	Flow Rate – L/s (GPM)	0.7 (11.4)	0.9 (14.4)	1.8 (28.2)	2.7 (42.8)	3.5 (56.1)
	Pressure Drop – kPa (psig)	8.97 (1.30)	13.60 (1.97)	13.45 (1.95)	21.00 (3.05)	29.06 (4.22)
6.6°C 12°F	Total – kW (BTU/Hr)	9.12 (31,000)	15.89 (54,000)	35.48 (121,000)	53.66 (183,000)	72.74 (248,000)
	Sensible – kW (BTU/Hr)	8.2 (28,000)	14.9 (51,000)	34.6 (118,000)	52.0 (177,000)	70.5 (240,000)
	Flow Rate – L/s (GPM)	0.3 (5.4)	0.6 (9.5)	1.3 (21.1)	2.0 (31.9)	2.7 (43.3)
	Pressure Drop – kPa (psig)	2.31 (0.34)	6.08 (0.88)	7.68 (1.12)	12.14 (1.76)	17.71 (2.57)
7.7°C 14°F	Total – kW (BTU/Hr)	6.68 (23,000)	8.36 (29,000)	17.46 (60,000)	30.11 (103,000)	62.67 (214,000)
	Sensible – kW (BTU/Hr)	6.7 (23,000)	8.4 (29,000)	15.8 (54,000)	27.5 (94,000)	60.0 (205,000)
	Flow Rate – L/s (GPM)	0.3 (4.6)	0.3 (5.3)	0.6 (8.8)	1.0 (15.2)	2.0 (31.6)
	Pressure Drop – kPa (psig)	1.52 (0.22)	2.07 (0.3)	1.65 (0.24)	2.95 (0.43)	9.69 (1.41)

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

Delta T	Model	1000	1200	2500	4000	4300*
26.6°C (80°F) DB, 14.7°C (58.5°F) WB, 36% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	22.47 (77,000)	27.65 (94,000)	53.64 (183,000)	80.31 (274,000)	108.1 (369,000)
	Sensible – kW (BTU/Hr)	22.1 (75,000)	27.1 (92,000)	53.5 (182,000)	79.7 (272,000)	103.91 (355,000)
	Flow Rate – L/s (GPM)	1.0 (16)	1.2 (19.8)	2.4 (38.30	3.6 (57.4)	4.7 (74.2)
	Pressure Drop – kPa (psig)	16.78 (2.44)	24.59 (3.57)	23.60 (3.43)	36.42 (5.29)	49.11 (7.13)
6.6°C 12°F	Total – kW (BTU/Hr)	20.69 (71,000)	25.7 (88,000)	50.28 (172,000)	75.93 (259,000)	99.22 339,000
	Sensible – kW (BTU/Hr)	20.2 (69,000)	25.1 (85,000)	50.0 (171,000)	75.2 (256,000)	98.0 (334,000)
	Flow Rate – L/s (GPM)	0.8 (12.3)	1.0 (15.3)	1.9 (29.9)	2.9 (45.2)	3.7 (59.1)
	Pressure Drop – kPa (psig)	10.13 (1.47)	15.04 (2.18)	14.82 (2.15)	23.29 (3.38)	32.07 (4.65)
7.7°C 14°F	Total – kW (BTU/Hr)	16.91 (58,000)	22.43 (77,000)	46.25 (158,000)	70.55 (241,000)	93.32 (318,000)
	Sensible – kW (BTU/Hr)	16.3 (56,000)	21.6 (74,000)	45.8 (156,000)	69.6 (237,000)	91.9 (313,000)
	Flow Rate – L/s (GPM)	0.5 (8.5)	0.7 (11.3)	1.5 (23.3)	2.2 (35.5)	3.0 (47)
	Pressure Drop – kPa (psig)	5.21 (0.76)	8.68 (1.26)	9.33 (1.35)	14.76 (2.14)	20.71 (3.01)

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

Delta T	Model	1000	1200	2500	4000	4300*
29.4°C (85°F) DB, 14.8°C (58.7°F) WB, 30% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	28.4 (97,000)	34.7 (118,000)	67.2 (229,000)	99.5 (339,000)	127.4 (435,000)
	Sensible – kW (BTU/Hr)	28.3 (96,000)	34.4 (117,000)	66.8 (228,000)	99.3 (339,000)	127.3 (434,000)
	Flow Rate – L/s (GPM)	1.3 (20.3)	1.6 (24.8)	3.0 (47.7)	4.5 (70.9)	5.7 (91)
	Pressure Drop – kPa (psig)	26.04 (3.78)	37.32 (5.42)	35.67 (5.18)	54.14 (7.86)	72.16 (10.47)
6.6°C 12°F	Total – kW (BTU/Hr)	26.71 (91,000)	32.85 (112,000)	63.9 (218,000)	95.34 (325,000)	123.26 (421,000)
	Sensible – kW (BTU/Hr)	26.5 (90,000)	32.5 (111,000)	63.9 (218,000)	95.4 (325,000)	123.0 (420,000)
	Flow Rate – L/s (GPM)	1.0 (15.9)	1.2 (19.6)	2.4 (37.9)	3.6 (56.8)	4.6 (73.4)
	Pressure Drop – kPa (psig)	16.49 (2.39)	24.01 (3.49)	23.32 (3.39)	35.76 (5.19)	48.10 (6.98)
7.7°C 14°F	Total – kW (BTU/Hr)	24.79 (85,000)	30.76 (105,000)	60.09 (205,000)	90.64 (309,000)	118.25 (403,000)
	Sensible – kW (BTU/Hr)	24.5 (84,000)	30.3 (103,000)	60.2 (205,000)	90.5 (309,000)	117.8 (402,000)
	Flow Rate – L/s (GPM)	0.8 (12.5)	1.0 (15.5)	1.9 (30.3)	2.9 (45.7)	3.8 (59.6)
	Pressure Drop – kPa (psig)	10.42 (1.51)	15.62 (2.27)	15.09 (2.19)	23.62 (3.43)	32.40 (4.70)

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

Delta T	Model	1000	1200	2500	4000	4300*
32.2°C (90°F) DB, 15°C (59°F) WB, 24% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	34.45 (118,000)	41.82 (143,000)	81.0 (277,000)	119.5 (408,000)	151.9 (518,000)
	Sensible – kW (BTU/Hr)	34.5 (118,000)	41.8 (143,000)	80.15 (273,000)	118.6 (405,000)	151.03 (515,000)
	Flow Rate – L/s (GPM)	1.6 (24.6)	1.9 (29.9)	3.6 (57.3)	5.3 (84.7)	6.8 (107.9)
	Pressure Drop – kPa (psig)	37.32 (5.42)	52.95 (7.68)	50.22 (7.29)	75.46 (10.95)	99.22 (14.40)
6.6°C 12°F	Total – kW (BTU/Hr)	32.82 (112,000)	40.08 (137,000)	78.0 (267,000)	115.7 (395,000)	148.0 (505,000)
	Sensible – kW (BTU/Hr)	32.8 (112,000)	40.0 (137,000)	77.23 (264,000)	114.9 (392,000)	147.32 (503,000)
	Flow Rate – L/s (GPM)	1.2 (19.5)	1.5 (23.9)	2.9 (46)	4.3 (68.34)	5.5 (87.7)
	Pressure Drop – kPa (psig)	24.30 (3.53)	34.72 (5.04)	33.20 (4.82)	50.53 (7.33)	67.15 (9.75)
7.7°C 14°F	Total – kW (BTU/Hr)	31.0 (106,000)	38.1 (130,000)	74.5 (254,000)	111.2 (379,000)	143.4 (489,000)
	Sensible – kW (BTU/Hr)	30.9 (106,000)	38.0 (130,000)	73.9 (252,000)	110.5 (377,000)	142.9 (487,000)
	Flow Rate – L/s (GPM)	1.0 (15.6)	1.2 (19.2)	2.3 (37.2)	3.5 (55.7)	4.5 (72)
	Pressure Drop – kPa (psig)	15.91 (2.31)	23.15 (3.36)	22.23 (3.23)	34.45 (5.00)	46.10 (6.69)

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

Delta T	Model	1000	1200	2500	4000	4300*
35°C (95°F) DB, 15.1°C (59.3°F) WB, 20% RH						
5.5°C 10°F	Total – kW (BTU/Hr)	39.91 (136,000)	48.69 (166,000)	93.38 (319,000)	137.2 (468,000)	174.6 (596,000)
	Sensible – kW (BTU/Hr)	40.2 (137,000)	48.7 (166,000)	93.4 (319,000)	137.2 (468,000)	174.6 (596,000)
	Flow Rate – L/s (GPM)	1.8 (28.9)	2.2 (34.9)	4.2 (66.7)	6.2 (98.2)	7.9 (124.5)
	Pressure Drop – kPa (psig)	115.06 (16.7)	161.92 (23.5)	151.58 (22)	230.82 (33.5)	303.85 (44.1)
6.6°C 12°F	Total – kW (BTU/Hr)	38.55 (132,000)	46.95 (160,000)	90.49 (309,000)	133.5 (456,000)	171 (583,000)‘
	Sensible – kW (BTU/Hr)	38.6 (132,000)	46.9 (160,000)	90.5 (309,000)	133.5 (456,000)	171.0 (583,000)
	Flow Rate – L/s (GPM)	1.5 (23.1)	1.8 (28.1)	3.4 (53.9)	5.0 (79.8)	6.4 (101.7)
	Pressure Drop – kPa (psig)	76.48 (11.1)	108.17 (15.7)	101.97 (14.8)	155.71 (22.6)	206.70 (30)
7.7°C 14°F	Total – kW (BTU/Hr)	36.72 (125,000)	467 (159,000)	87.19 (298,000)	129.4 (441,000)	166.78 (569,000)
	Sensible – kW (BTU/Hr)	36.7 (125,000)	467 (159,000)	87.2 (298,000)	129.4 (441,000)	166.78 (569,000)
	Flow Rate – L/s (GPM)	1.2 (18.7)	1.4 (22.8)	2.8 (44)	4.1 (65.5)	5.3 (84)
	Pressure Drop – kPa (psig)	50.99 (7.4)	73.03 (10.6)	70.28 (10.2)	107.48 (15.6)	143.31 (20.8)

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

Performance Data

Model	TD/UCV1000	TD/UCV1200	TD/UCV2500	TD/UCV4000	TDCV4300***
Air System—Direct Drive Electronic Commutation (EC) Backward Curved Blades Fans					
Air Volume – m3h @ 50 Pa (CFM @ 0.20 in. WC ESP)	10245 (6030)	10737 (6320)	18689 (11,000)	25994 (15,300)	29477 (17,350)
Horsepower (Nominal – HP)	4	4	4	4	4
Number of Fans	1	1	2	3	3
Cooling Coil—Slab, Copper Tube/Aluminum Fin/Hydrophilic Coated					
Face Area – m^2 (ft^2)	1.23 (13.31)	1.23 (13.31)	2.18 (23.53)	3.01 (32.5)	3.50 (37.53)
Rows Deep	3	4	4	6	6
Face Velocity – m/s (FPM)	2.30 (453)	2.41 (474)	2.30 (467)	2.39 (470)	2.35 (462)
Chilled Water Circuit Capacity – l (gal)	12.8 (3.4)	15.9 (4.2)	28.8 (7.6)	58.2 (15.4)	67.2 (17.7)
Chilled Water Control Valve—150 PSI Maximum Water Pressure (1034 KPA)					
Actuator Type	Modulating	Modulating	Modulating	Modulating	Modulating
2-Way Valve (Cv)	1 1/4 (14)	1 1/4 (14)	2 (26)	2 (34)	2 (34)
3-Way Valve (Cv)	1 1/4 (14)	1 1/4 (14)	2 (26)	2 (34)	2 (34)
Humidifier—Canister Immersed Electrode					
Flush Cycle	Automatic	Automatic	Automatic	Automatic	Automatic
Capacity – kg/hr (lb/hr)	8 (17.6)	8 (17.6)	8 (17.6)	15 (33.0)	15 (33.0)
kW	6.00	6.00	6.00	11.25	11.25
Filters—Disposable Pleated MERV 8					
Downflow					
Quantity	3	3	5	5	5
Size – mm (in.)	1120 × 398 (44 × 15.50)	1120 × 398 (44 × 15.50)	1120 × 398 (44 × 15.50)	785 × 486 (30.9 × 19.13)	785 × 486 (30.9 × 19.13)
Nominal Depth – mm (in.)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)
Upflow With Front or Bottom Return					
Quantity	3	3	5	6	N/A
Size – mm (in.)	1120 × 398 (44 × 15.5)	1120 × 398 (44 × 15.5)	1120 × 398 (44 × 15.5)	1320 × 396 (51.9 × 15.5)	N/A
Nominal Depth – mm (in.)	95 (3.7)	95 (3.7)	95 (3.7)	95 (3.7)	N/A

*Includes motor heat, with equal loading on each phase, rated at 208-230 V/3-phase and 480 V/3-phase
**Connections sizes, not recommended piping sizes
***Only available in downflow configuration

Model	TD/UCV1000	TD/UCV1200	TD/UCV2500	TD/UCV4000	TDCV4300***
Upflow With Rear Return					
Quantity	3	3	2+3	N/A	N/A
Size – mm (in.)	845 × 376 (33.2 × 14.8)	845 × 376 (33.2 × 14.8)	845 × 376 (33.2 × 14.8)	N/A	N/A
Depth – mm (in.)	95 (3.7)	95 (3.7)	95 (3.7)	N/A	N/A
Reheat					
Electric Reheat—Staged Aluminum Finned, Low Watt Density					
Capacity* – kw (BTU/HR) 460 V	12.0 (41,000)	12.0 (41,000)	12.0 (41,000)	18.0 (61,000)	18.0 (61,000)
Capacity* – kw (BTU/HR) 230 V	9.0 (31,000)	9.0 (31,000)	15.0 (51,000)	18.0 (61,000)	18.0 (61,000)
Number of Stages	3	3	3	3	3
Hot Water Reheat 82.2°C (180°F) EWT, 23.8°C (75°F) EAT					
Capacity* – kw (BTU/HR)	49.0 (167,000)	50.2 (171,000)	76.2 (260,000)	87.2 (298,000)	85.5 (292,000)
L/s (GPM)	1.9 (30.6)	1.9 (31.4)	3.0 (47.6)	3.4 (54.5)	3.3 (53.5)
Pressure Drop – kPA (psi)	4.1 (0.6)	4.1 (0.6)	4.1 (0.6)	3.4 (0.5)	3.4 (0.5)
Physical Data					
Weight – kg (lb)	344 (758)	352 (776)	457 (1009)	805 (1778)	885 (1951)
Height – mm (in.)	1960 (77.16)	1960 (77.16)	1960 (77.16)	1960 (77.16)	2170 (85.43)
Length – mm (in.)	1310 (51.6)	1310 (51.6)	2170 (85.4)	2580 (101.6)	2580 (101.6)
Depth – mm (in.)	865 (34.0)	865 (34.0)	865 (34.0)	865 (34.0)	865 (34.0)
Connection Sizes					
Chilled Water In/Out – in.**	1 1/4	1 1/4	2	2	2
Hot Water					
Supply Line – in.**	3/4	3/4	1 1/4	1 1/4	1 1/4
Return Line – in.**	3/4	3/4	1 1/4	1 1/4	1 1/4
Humidifier					
Supply Line – in.**	3/4	3/4	3/4	3/4	3/4
Condensate Drain					
Drain Line – in.	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

*Includes motor heat, with equal loading on each phase, rated at 208-230 V/3-phase and 480 V/3-phase
**Connections sizes, not recommended piping sizes
***Only available in downflow configuration

Glycol Correction Factors

Performance Criteria	Glycol Solution	Percent Weight of Solution ***					
		0	10%	20%	30%	40%	50%
Capacity*	Ethylene	1.00	0.97	0.93	0.88	0.81	0.75
	Propylene	1.00	0.96	0.90	0.82	0.77	0.74
Pressure Drop**	Ethylene	1.00	1.04	1.13	1.21	1.31	1.41
	Propylene	1.00	1.09	1.20	1.35	1.52	1.67

All correction factors are based on unit entering the following conditions:
29.4°C (85°F) DB, 18.1°C (64.5°F) WB, 1368.6 L/S (6950 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.
***Glycol concentrations over 50% are not recommended.

Electrical Specifications

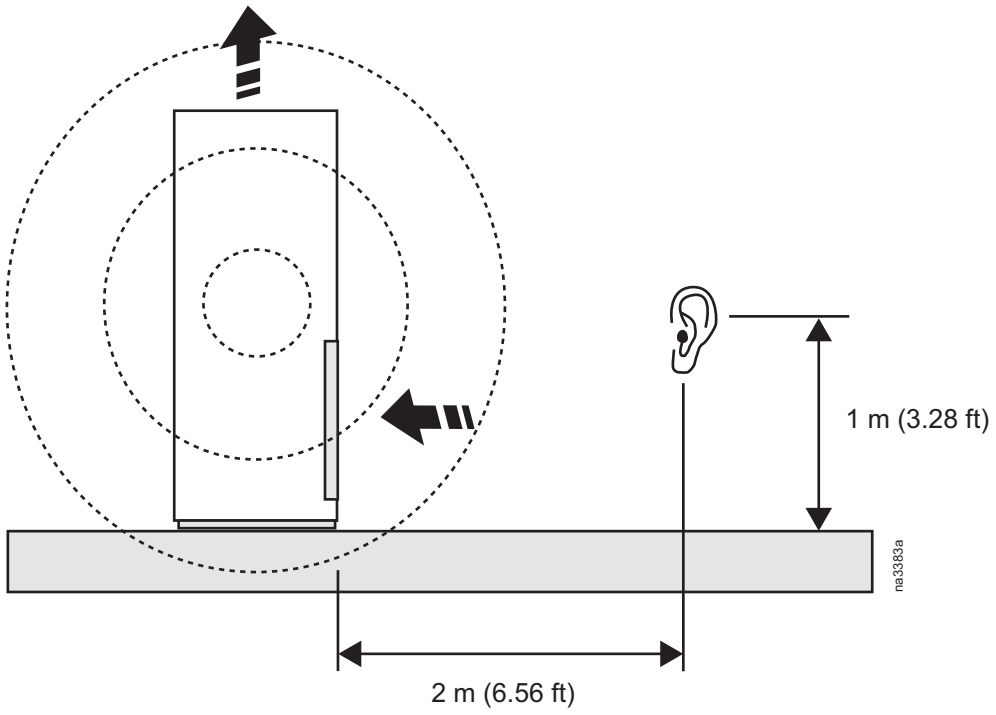
Reheat Option		Electric Reheat			None			Electric Reheat			None		
Humidifier Option		Humidifier			Humidifier			None			None		
Model	Voltage	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP
1000	208	47.5	59.4	60	27.1	33.8	35	30.8	38.5	40	10.4	13.0	20
	230	47.9	59.9	60	25.3	31.7	35	32.9	41.1	45	10.3	12.9	20
	460	35.5	43.7	45	12.9	15.4	20	27.9	34.2	35	5.3	6.0	15
1200	208	47.5	59.4	60	27.1	33.8	35	30.8	38.5	40	10.4	13.0	20
	230	47.9	59.9	60	25.3	31.7	35	32.9	41.1	45	10.3	12.9	20
	460	35.5	43.7	45	12.9	15.4	20	27.9	34.2	35	5.3	6.0	15
2500	208	70.3	87.9	90	36.3	45.3	50	53.7	67.1	70	19.6	24.5	30
	230	72.2	90.3	100	34.5	43.2	45	57.1	71.4	80	19.5	24.4	30
	460	40.3	49.7	50	17.7	21.4	25	32.7	40.2	45	10.1	12.0	15
4000	208	100.9	126.1	150	60.0	75.0	80	69.7	87.1	90	28.8	36.0	40
	230	102.1	127.6	150	56.9	71.2	80	73.9	92.3	100	28.7	35.9	40
	460	51.7	63.9	70	29.1	35.6	40	37.5	46.2	50	14.9	18.0	20
4300	208	100.9	126.1	150	60.0	75.0	80	69.7	87.1	90	28.8	36.0	40
	230	102.1	127.6	150	56.9	71.2	80	73.9	92.3	100	28.7	35.9	40
	460	51.7	63.9	70	29.1	35.6	40	37.5	46.2	50	14.9	18.0	20

FLA: Full Load Amps
MCA: Minimum Circuit Ampacity
MOP: Maximum Overload Protection

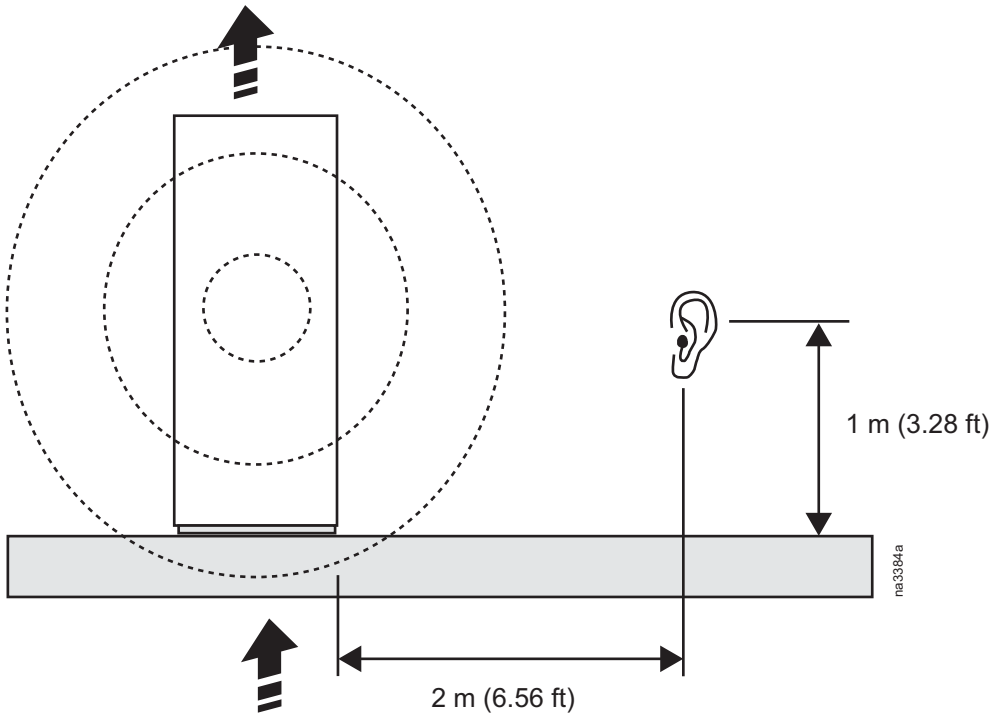
Sound Data

Sound pressure measurement positioning

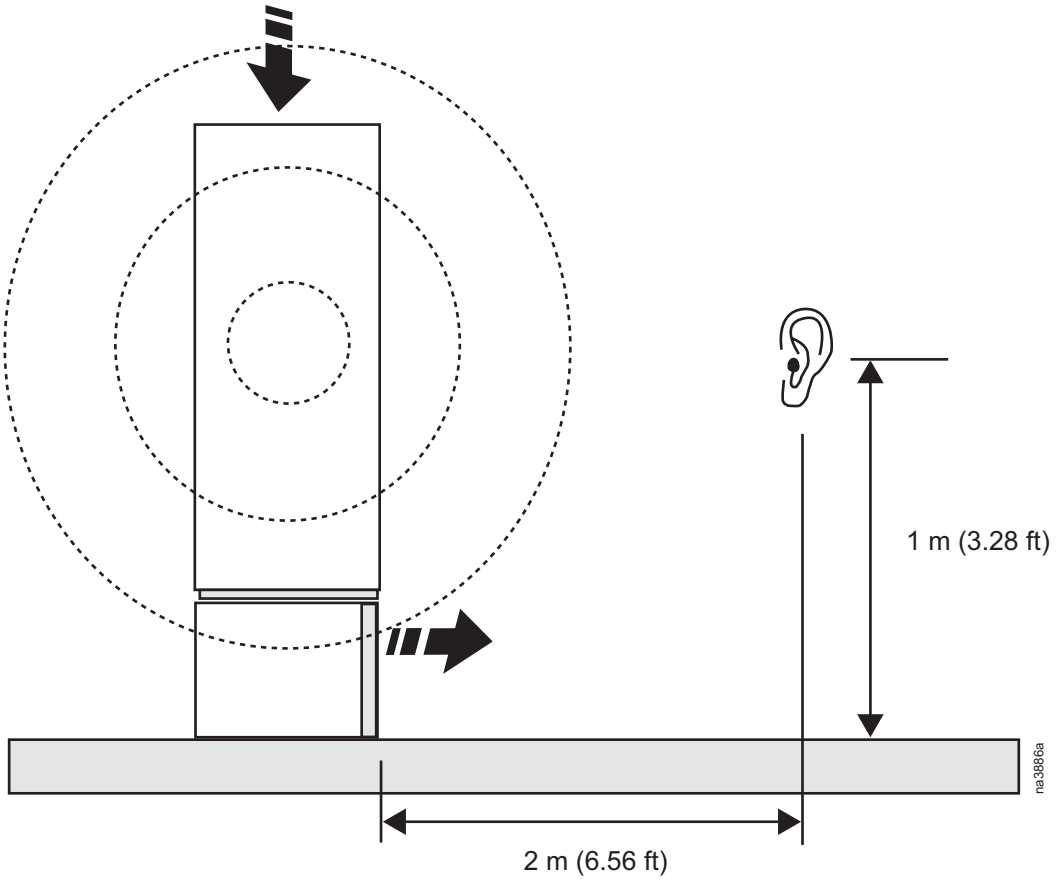
Upflow units no raised floor



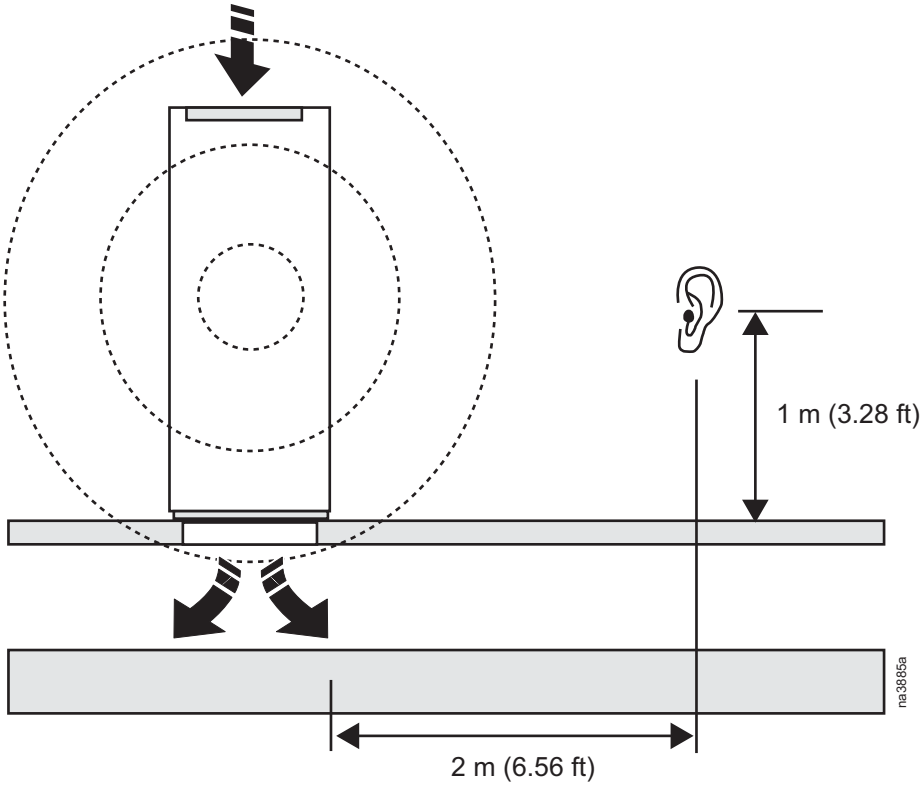
Upflow units raised floor



Downflow units no raised floor



Downflow units raised floor



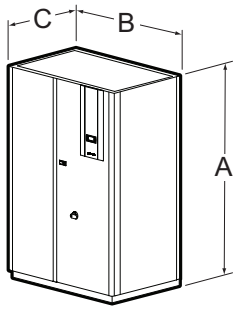
Test results

Model	Airflow	Hz Linear Frequency – dB							dB(A)
		63	125	250	500	1000	2000	4000	
Upflow No Raised Floor									
TUCV1000	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	62.5	72.3	60.6	50.8	46.5	37.2	32.3	49.8
	11 830 m^3/h @ 20 Pa (6963 CFM @ 0.08 in. WC)	67.1	76.9	65.2	55.4	51.1	41.8	36.9	63.0
TUCV1200	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	63.4	73.2	61.5	51.7	47.4	38.1	33.2	59.3
	11 700 m^3/h @ 20 Pa (6886 CFM @ 0.08 in. WC)	66.6	76.4	64.7	54.9	50.6	41.3	36.4	62.5
TUCV2500	18 880 m^3/h @ 20 Pa (11,112 CFM @ 0.08 in. WC)	61.7	71.5	59.8	50.0	45.7	36.4	31.5	62.8
	21 350 m^3/h @ 20 Pa (12,566 CFM @ 0.08 in. WC)	67.7	77.5	65.8	56.0	51.7	42.4	37.5	63.6
TUCV4000	25 218 m^3/h @ 20 Pa (14,843 CFM @ 0.08 in. WC)	73.9	82.8	68.3	59.6	53.9	49.8	46.8	68.2
	31 950 m^3/h @ 20 Pa (18,805 CFM @ 0.08 in. WC)	81.9	90.8	76.3	67.6	61.9	57.8	54.8	76.2
Upflow Raised Floor									
TUCV1000	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	59.5	69.3	57.6	47.8	43.5	34.2	29.3	55.4
	11 830 m^3/h @ 20 Pa (6963 CFM @ 0.08 in. WC)	64.1	73.9	62.2	52.4	48.1	38.8	33.8	60.0
TUCV1200	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	60.4	70.2	58.5	48.7	44.4	35.1	30.2	56.3
	11 700 m^3/h @ 20 Pa (6886 CFM @ 0.08 in. WC)	63.6	73.4	61.7	51.9	47.6	38.3	33.4	59.5
TUCV2500	18 880 m^3/h @ 20 Pa (11,112 CFM @ 0.08 in. WC)	58.7	68.5	56.8	47.0	42.7	33.4	28.5	59.8
	21 350 m^3/h @ 20 Pa (12566CFM @ 0.08 in. WC)	64.7	74.5	62.8	53.0	48.7	39.4	34.5	60.6
TUCV4000	25 218 m^3/h @ 20 Pa (14,843 CFM @ 0.08 in. WC)	69.9	78.8	64.3	55.6	49.9	45.8	42.8	64.2
	31 950 m^3/h @ 20 Pa (18,805 CFM @ 0.08 in. WC)	77.9	86.8	72.3	63.6	57.9	53.8	50.8	72.2

Downflow									
TDCV1000	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	59.5	69.3	57.6	47.8	43.5	34.2	29.3	55.4
	11 830 m^3/h @ 20 Pa (6963 CFM @ 0.08 in. WC)	64.1	73.9	62.2	52.4	48.1	38.8	33.9	60.0
TDCV1200	10 000 m^3/h @ 20 Pa (5886 CFM @ 0.08 in. WC)	60.4	70.2	58.5	48.7	44.4	35.1	30.2	56.3
	11700 m^3/h @ 20 Pa (6886 CFM @ 0.08 in. WC)	63.6	73.4	61.7	51.9	47.6	38.3	33.4	59.5
TDCV2500	18 880 m^3/h @ 20 Pa (11,112 CFM @ 0.08 in. WC)	58.7	68.5	56.8	47.0	42.7	33.4	28.5	59.8
	21 350 m^3/h @ 20 Pa (12,566 CFM @ 0.08 in. WC)	64.7	74.5	62.8	53.0	48.7	39.4	34.5	60.6
TDCV4000	25 218 m^3/h @ 20 Pa (14,843 CFM @ 0.08 in. WC)	67	76.9	60.5	51.6	45.9	41.8	38.8	61.8
	31 950 m^3/h @ 20 Pa (18,805 CFM @ 0.08 in. WC)	75.1	85.0	69.5	60.6	54.0	49.0	45.0	70.0
TDCV4300	25 598 m^3/h@ 20 Pa (15,066 CFM @ 0.08 in. WC)	72.3	82.0	65.5	57.0	51.0	46.4	50.0	67.0
	32 620 m^3/h @ 20 Pa (21,554 CFM @ 0.08 in. WC)	75.1	85.0	69.5	60.6	54.0	49.0	45.0	70.0

Dimensional Data

Overall Unit



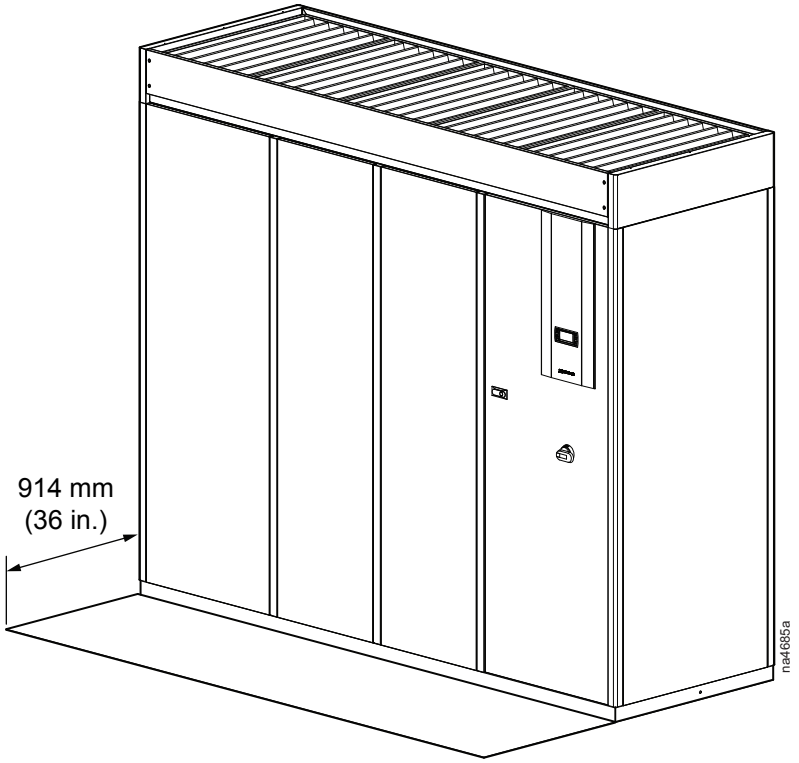
Model	Airflow	Dimensions – mm (in.)			Net Weight – kg (lb)
		A	B	C	
T*CV1000*	Upflow and Downflow	1960 (77.17)	1310 (51.57)	865 (34.06)	344 (758)
T*CV1200*		1960 (77.17)	1310 (51.57)	865 (34.06)	352 (776)
T*CV2500*		1960 (77.17)	2170 (85.43)	865 (34.06)	457 (1000)
T*CV4000*		1960 (77.17)	2580 (101.57)	865 (34.06)	805 (1778)
TDCV4300*	Downflow	2170 (85.43)	2580 (101.57)	865 (34.06)	885 (1951)

* The first asterisk represents “D” or “U” airflow configuration. The second asterisk represents “D” or “G” for voltage.

Access and clearance requirements

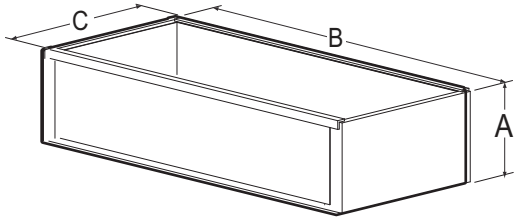
The area of installation must follow these requirements:

- Minimum floor stand height requirement is 203.2 mm (8 in.) for downflow units.
- Front of unit must have a minimum of 914.0 mm (36 in.) service clearance.
- Air intake and discharge connections must not be blocked.
- Unit must be installed on a flat, level surface.

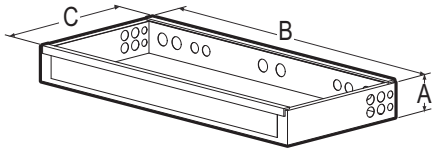


Plenums/Sub-Bases

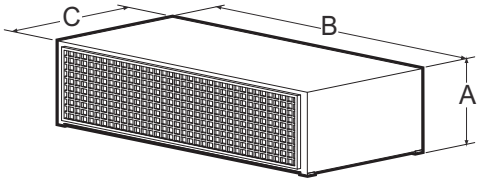
For upflow installations where piping and wiring connections are not coming up from the bottom, a sub-base is required to access piping and electrical connections.



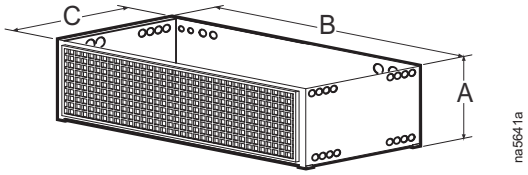
TOP AIR SUPPLY PLENUM 500 mm (20 in.)



SUB-BASE 200 mm (8 in.)



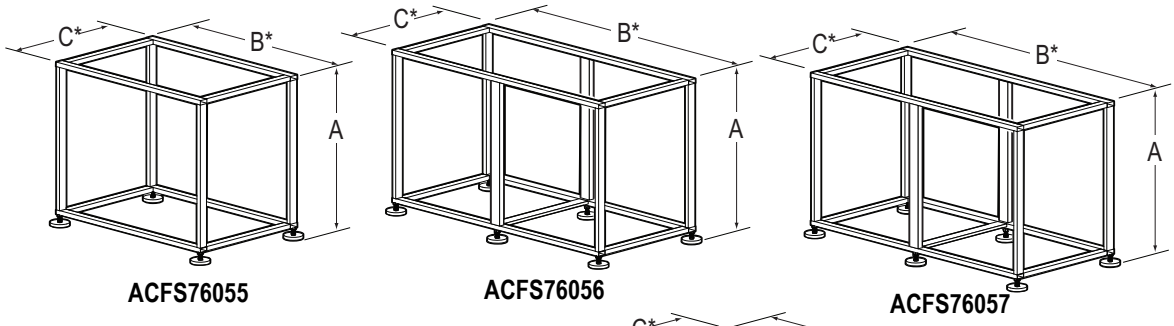
FRONT SUPPLY PLENUM 500 mm (20 in.)

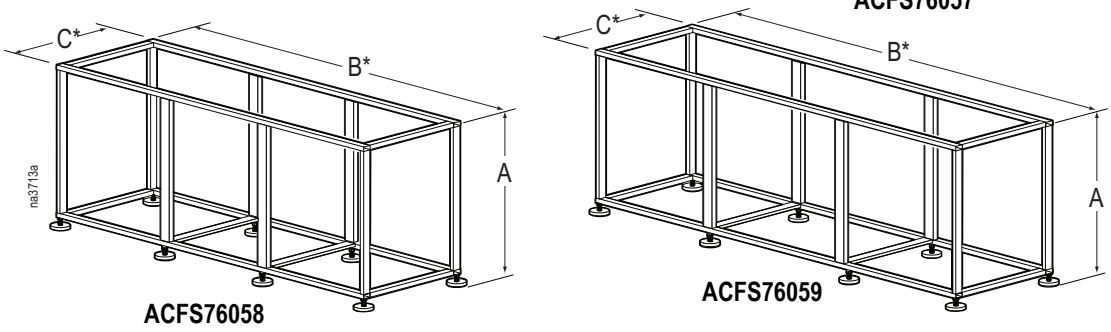


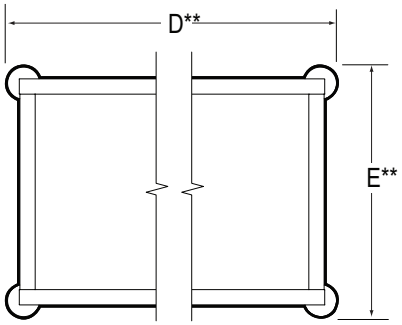
SUB-BASE 500 mm (20 in.) FRONT SUPPLY

Type of Plenum	Model	Dimensions – mm (in.)			Net Weight – kg (lb)
		A	B	C	
Top supply or return plenum – 500 mm (20 in.)	ACPL75133 ACPL75135	500 (19.69)	1310 (51.57)	865 (34.06)	45.00 (99.21)
	ACPL75139 ACPL75141	500 (19.69)	2170 (85.43)	865 (34.06)	62.00 (136.70)
	ACPL75142 ACPL75144	500 (19.69)	2582 (101.65)	865 (34.06)	70.00 (154.30)
Sub-base – 200 mm (8 in.)	ACSB76153 ACSB76155	200 (7.87)	1300 (51.18)	855 (33.66)	21.80 (48.06)
	ACSB76159 ACSB76161	200 (7.87)	2160 (85.04)	855 (33.66)	31.60 (69.67)
	ACSB76162 ACSB76164	200 (7.87)	2572 (101.26)	855 (33.66)	35.60 (74.49)
Front supply plenum – 500 mm (20 in.)	ACPL75118 ACPL75120	500 (19.69)	1300 (51.18)	855 (33.66)	50.00 (110.20)
	ACPL75124 ACPL75126	500 (19.69)	2160 (85.04)	855 (33.66)	74.00 (163.10)
	ACPL75127 ACPL75129	500 (19.69)	2572 (101.26)	855 (33.66)	87.00 (191.80)
Sub-base 500 mm (20 in.) – front supply	ACSB76168 ACSB76170	500 (19.69)	1300 (51.18)	855 (33.66)	50.00 (110.20)
	ACSB76174 ACSB76176	500 (19.69)	2160 (85.04)	855 (33.66)	74.00 (163.10)
	ACSB76177 ACSB76179	500 (19.69)	2572 (101.26)	855 (33.66)	87.00 (191.80)

Fixed Floor Stands





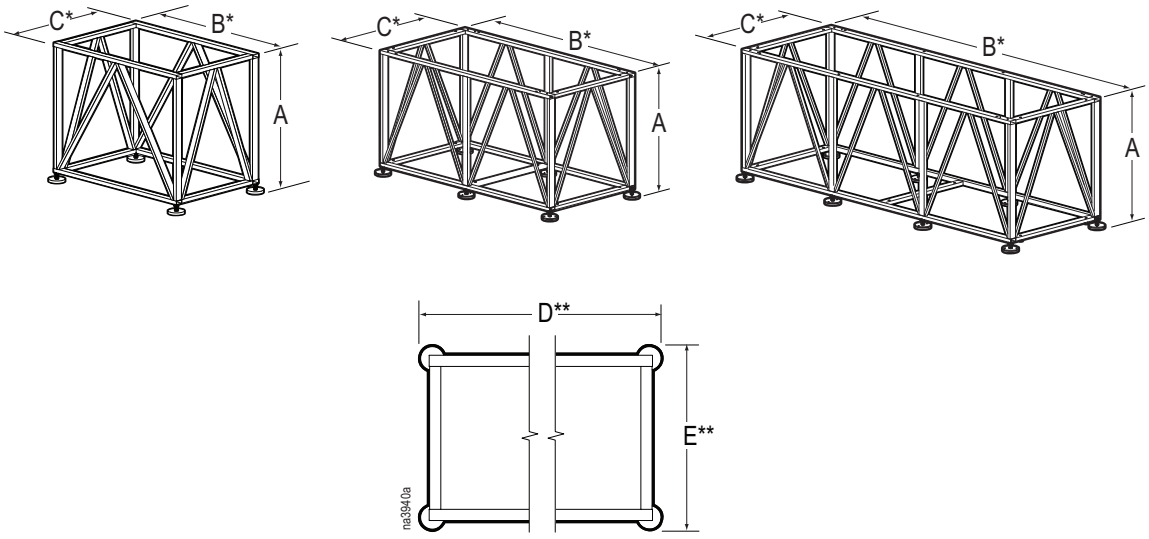


*** CENTER TO CENTER**
****EDGE TO EDGE**

Model	Weight – kg (lb)	Dimensions – mm (in.)				
		A	B*	C*	D**	E**
ACFS76085	35 (77.0)	305 (12)				
ACFS76090	37 (82.0)	457 (18)	1300	855	1377	932
ACFS76095	40 (87.0)	610 (24)	(51.18)	(33.66)	(54.21)	(36.73)
ACFS76056	36.5 (80.4)	914 (36)				
ACFS76087	48 (105.0)	305 (12)				
ACFS76092	50 (111.0)	457 (18)	2160	855	2221	932
ACFS76097	53 (117.0)	610 (24)	(85.04)	(33.66)	(88.11)	(36.73)
ACFS76058	49.6 (109.1)	914 (36)				
ACFS76088	51 (113.0)	305 (12)				
ACFS76093	55 (120.0)	457 (18)	2572	855	2631	932
ACFS76098	57 (126.0)	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 Floor Stands

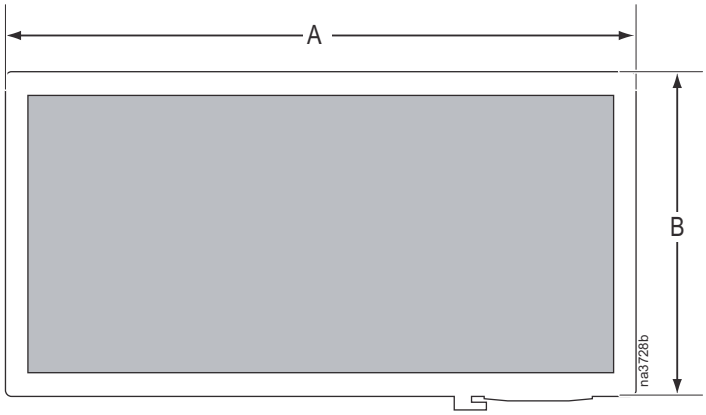


Model	Weight – kg (lb)	Dimensions – mm (in.)				
		A	B*	C*	D**	E**
ACFS76061	38.6 (80.1)	305 (12)				
ACFS76066	40.9 (90.2)	457 (18)	1300	855	1360	916
ACFS76071	43.2 (95.2)	610 (24)	(51.18)	(33.66)	(53.54)	(36.06)
ACFS76076	45.5 (100.3)	914 (36)				
ACFS76063	52.3 (115.3)	305 (12)				
ACFS76068	54.5 (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

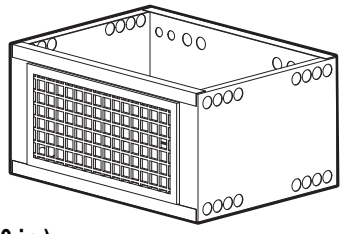


Model	Dimensions – mm (in.)	
	A	B
Downflow		
TDCV1000*	1310 (51.57)	865 (34.06)
TDCV1200*	1310 (51.57)	865 (34.06)
TDCV2500*	2170 (85.43)	865 (34.06)
TDCV4000*	2580 (101.57)	865 (34.06)
TDCV4300*	2580 (101.57)	865 (34.06)
Upflow Bottom Return		
TUCV1000*	1310 (51.57)	865 (34.06)
TUCV1200*	1310 (51.57)	865 (34.06)
TUCV2500*	2170 (85.43)	865 (34.06)
TUCV4000*	2580 (101.57)	865 (34.06)

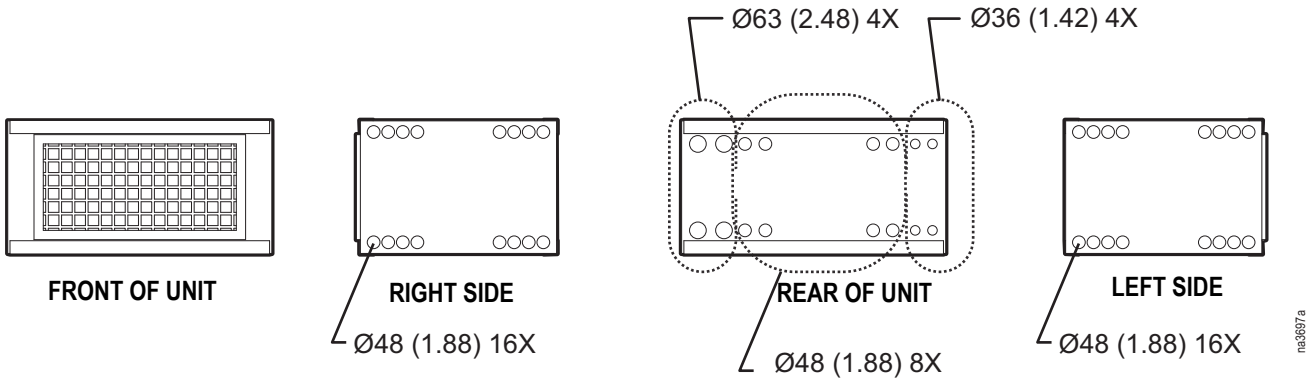
*Asterisk represents “D” or “G” in model number.

Optional utility access options (sub-bases)

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

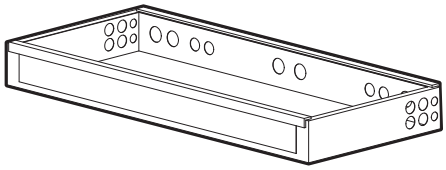


500 mm (20 in.)
FRONT SUPPLY SUB-BASE PLENUM (WITH GRILLE)

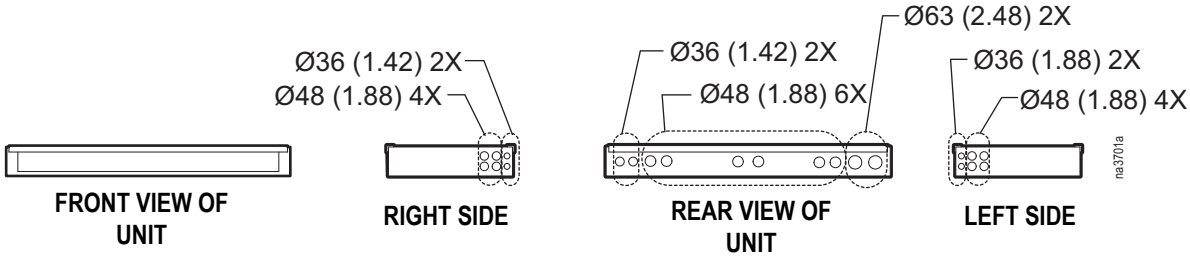


NOTE: All dimensions shown in millimeters (inches).

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



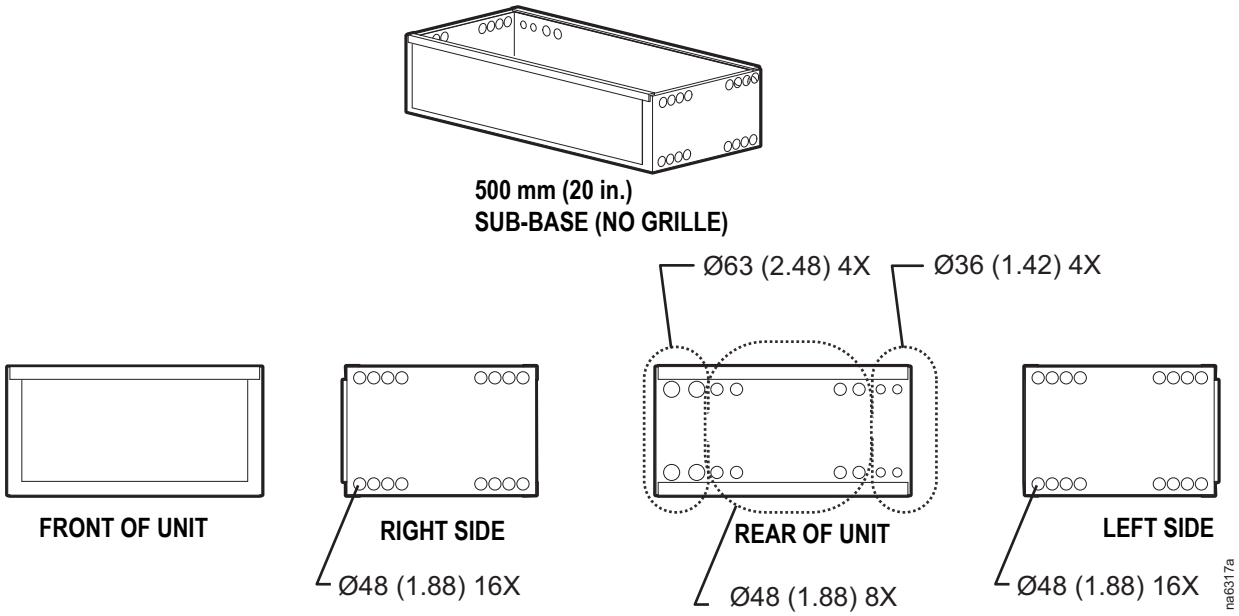
200 mm (8 in.) SUB-BASE



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).

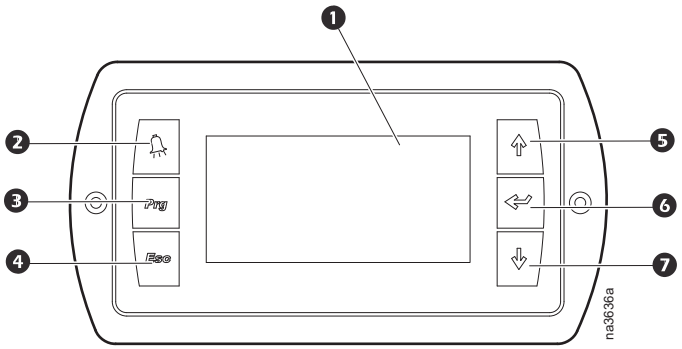
NOTE: The 500 mm (20 in.) sub-base with closed front has the same access as the sub-base with grille.

Standard 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 module



Item	Description	Function
❶	LCD Display	Flat, electronic visual display
❷	ALARM button	Views and resets alarms (flashes red when an alarm is activated)
❸	PRG button	Enters the Configuration menu
❹	ESC button	Exits the screen
❺	UP button	Moves up the menu
❻	ENTER button	Confirms
❼	DOWN button	Moves down the menu

The microprocessor controller is standard on each system. The controller provides precision control for the demanding requirements of:

- Data centers
- Control rooms
- Clean rooms
- Switch rooms
- UPS rooms

The easy-to-use display allows the operator to select options from the menu-driven interface to control and monitor the connected air conditioning system.

Open architecture

The Uniflair CW protocol is open for integration with all building management systems. Communication interface on the system can be RS485 serial board, LON FTT10, TREND, and PCOWeb.

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

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

Logging

The microprocessor logs the 100 most recent alarms. Each alarm 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.

Control

The backlit, 134 x 64 pixel LCD is password configurable.

- Temperature setpoint
- Humidity setpoint
- Airflow setpoint (Factory preset for model size and options)
- High temperature alarm
- Low temperature alarm
- High humidity alarm
- Low humidity alarm

Alarms

- High control temperature
- Low control temperature
- High control humidity
- Low control humidity
- Clogged filter
- Return sensor failure
- High supply temperature
- Low supply temperature
- Loss of airflow
- Loss of water flow
- Supply sensor failure
- Humidifier failure
- Replace humidifier canister
- Water detected (optional)
- Fire detected (optional)
- Smoke detected (optional)
- Condensate pump failure (optional)

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.schneider-electric.com** (Corporate Headquarters)
    Connect to localized Schneider Electric Web sites for specific countries, each of which provides customer support information.
  - **www.schneider-electric.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.schneider-electric.com > Support > Operations around the world** for contact information.

For information on how to obtain local customer support, contact the representative or other distributors from whom you purchased your product.

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