

# STULZ

CLIMATE. CUSTOMIZED.

## Perimeter Mounted Cooling

### CyberAir DX



STULZ offers the broadest range of precision cooling capacities in the market. This portfolio, along with extensive precision cooling experience, allows STULZ the flexibility to successfully meet the needs of any mission critical application.

STULZ perimeter air conditioners are available in down-flow and up-flow configurations.

- State-of-the-art  $E^2$  Controller with a range of BMS interface options
- DX systems provided with highly efficient and reliable low noise scroll compressors
- Single or multi-stage compressor arrangement including tandem configurations
- Micro Plate Heat Exchangers offer major improvements in heat transfer
- Optimized AWS/Free-cooling coils to match DX cooling capacities, increasing energy savings
- Multiple EC Fan options
- All EC Fans mounted in the cabinet meet full performance without being dropped into raised floor
- Refrigeration-based dehumidification system effectively removes excess moisture
- Dehumidification efficiently achieved through reduced air volume at maximum cooling
- Standard and seismic rated floor stands available

# Technical Data

CyberAir DX		
Dual Circuit DX Systems (CRAC)		
Capacity	kW	21 - 105
	MBH	72 - 358
	Tons	6 - 30
Air Flow	CFM	6,000 - 15,750

Air Cooled								
Model: CFD/U-	021-D2A	028-D2A	035-D2A	042-D2A	053-D2A	070-D2A	088-D2A	105-D2A
NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM & ESP)								
80°FDB/62.9°FWB, 38% RH, 52.3°FDP								
Total, kW (MBH)	27.1 (92)	31.4 (107)	34.4 (117)	40.1 (136)	51.6 (176)	65.6 (224)	89.7 (306)	99.1 (338)
Sensible, kW (MBH)	27.1 (92)	31.4 (107)	34.4 (117)	40.1 (136)	51.6 (176)	64.1 (218)	89.7 (306)	99.1 (338)
72°FDB/60.0°FWB, 50% RH, 52.3°FDP								
Total, kW (MBH)	24.0 (82)	28.5 (97)	31.8 (108)	35.1 (120)	46.4 (158)	62.1 (212)	80.9 (276)	92.4 (315)
Sensible, kW (MBH)	23.2 (79)	27.8 (95)	30.2 (103)	33.6 (114)	42.0 (143)	58.3 (199)	77.3 (263)	88.1 (300)
Evaporator Blower / Motor - Backward Inclined Direct Driven EC								
Rated Air Flow, CFM @ .2 in. H <sub>2</sub> O ESP	6,000	6,000	6,000	8,000	9,000	10,000	15,750	15,750
Unit Dimensions, H" x W" x D"								
Down-Flow	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.2 x 89.1 x 40.3	76.2 x 89.1 x 40.3	76.0 x 87.3 x 38.4	76.0 x 118.4 x 40.3	76.0 x 118.4 x 40.3
Up-Flow	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 88.2 x 40.3	88.1 x 88.2 x 40.3	88.1 x 88.2 x 40.3	88.1 x 118.4 x 40.3	88.1 x 118.4 x 40.3
Up-Flow with Hot Gas/Water Reheat	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 88.2 x 10.3	91.1 x 88.2 x 40.3	91.1 x 88.2 x 40.3	91.1 x 118.4 x 40.3	91.1 x 118.4 x 40.3

Water Cooled								
Model: CFD/U-	021-D2W	028-D2W	035-D2W	042-D2W	053-D2W	070-D2W	088-D2W	105-D2W
NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM & ESP)								
80°FDB/62.9°FWB, 38% RH, 52.3°FDP								
Total, kW (MBH)	29.9 (102)	34.7 (118)	38.1 (130)	44.5 (152)	56.8 (194)	74.1 (252)	98.9 (337)	110.4 (376)
Sensible, kW (MBH)	29.9 (102)	34.7 (118)	38.1 (130)	44.5 (152)	56.8 (194)	73.5 (250)	98.9 (337)	110.4 (376)
72°FDB/60.0°FWB, 50% RH, 52.3°FDP								
Total, kW (MBH)	26.9 (91)	32.3 (110)	35.8 (122)	39.9 (136)	52.9 (180)	69.7 (237)	92.2 (314)	104.8 (357)
Sensible, kW (MBH)	26.9 (91)	30.5 (104)	30.4 (103)	39.0 (133)	50.2 (171)	54.1 (184)	87.9 (299)	93.1 (317)
Evaporator Blower / Motor - Backward Inclined Direct Driven EC								
Rated Air Flow, CFM @ .2 in. H <sub>2</sub> O ESP	6,000	6,000	6,000	8,000	9,000	10,000	15,750	15,750
Unit Dimensions, H" x W" x D"								
Down-Flow	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.2 x 89.1 x 40.3	76.2 x 89.1 x 40.3	76.2 x 89.1 x 40.3	76.2 x 118.4 x 40.3	76.2 x 118.4 x 40.3
Up-Flow	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 88.2 x 40.3	88.1 x 88.2 x 40.3	88.1 x 88.2 x 40.3	88.1 x 118.4 x 40.3	88.0 x 118.4 x 40.3
Up-Flow with Hot Gas/Water Reheat	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 88.2 x 40.3	91.1 x 88.2 x 40.3	91.1 x 88.2 x 40.3	91.1 x 118.4 x 40.3	91.0 x 118.4 x 40.3

Glycol Cooled								
Model: CFD/U-	021-D2G	028-D2G	035-D2G	042-D2G	053-D2G	070-D2G	088-D2G	105-D2G
NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM & ESP)								
80°FDB/62.9°FWB, 38% RH, 52.3°FDP								
Total, kW (MBH)	26.3 (89)	30.5 (104)	33.4 (114)	38.8 (132)	50.1 (171)	63.9 (218)	87.1 (297)	96.2 (328)
Sensible, kW (MBH)	26.3 (89)	30.5 (104)	33.4 (114)	38.8 (132)	50.1 (171)	63.9 (218)	87.1 (297)	96.2 (328)
72°FDB/60.0°FWB, 50% RH, 52.3°FDP								
Total, kW (MBH)	23.2 (79)	27.4 (93)	30.7 (104)	34.0 (116)	44.9 (153)	59.8 (204)	78.3 (267)	89.0 (303)
Sensible, kW (MBH)	23.2 (79)	27.2 (92)	29.5 (100)	34.0 (116)	44.3 (151)	57.0 (194)	78.3 (267)	85.9 (293)
Evaporator Blower / Motor - Backward Inclined Direct Driven EC								
Rated Air Flow, CFM @ .2 in. H <sub>2</sub> O ESP	6,000	6,000	6,000	8,000	9,000	10,000	15,750	15,750
Unit Dimensions, H" x W" x D"								
Down-Flow	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.2 x 77.4 x 40.3	76.0 x 89.1 x 38.4	76.2 x 89.1 x 40.3	76.2 x 89.1 x 40.3	76.2 x 118.4 x 40.3	76.2 x 118.4 x 40.3
Up-Flow	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 77.4 x 40.3	88.1 x 89.1 x 40.3	88.1 x 89.1 x 40.3	88.1 x 89.1 x 40.3	88.1 x 118.4 x 40.3	88.1 x 118.4 x 40.3
Up-Flow with Hot Gas/Water Reheat	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 77.4 x 40.3	91.1 x 89.1 x 40.3	91.1 x 88.2 x 40.3	91.1 x 89.1 x 40.3	91.1 x 118.4 x 40.3	91.1 x 118.4 x 40.3

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