

# STULZ

CLIMATE. CUSTOMIZED.

# Precision Cooling

## STULZ 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 CyberAIR                 |
|----------|------|--------------------------------|
|          |      | CF (D/U) - D                   |
|          |      | Dual Circuit DX Systems (CRAC) |
| Capacity | kW   | 21 - 105                       |
|          | MBH  | 72 - 358                       |
|          | Tons | 6 - 30                         |
| Air Flow | CFM  | 6,000 - 15,750                 |

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

- STULZ' state-of-the-art  $E^2$  Microprocessor 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

| Model: CFD/U-  | 021-D2A            | 028-D2A            | 035-D2A            | 042-D2A            | 053-D2A            | 070-D2A            | 088-D2A             | 105-D2A             |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| <b>NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM &amp; ESP)</b> |                    |                    |                    |                    |                    |                    |                     |                     |
| <b>80°FDB/62.9°FWB, 38% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)          |
| <b>72°FDB/60.0°FWB, 50% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)          |
| <b>Evaporator Blower / Motor - Backward Inclined Direct Driven EC</b>        |                    |                    |                    |                    |                    |                    |                     |                     |
| 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              |
| <b>Unit Dimensions, H" x W" x D"</b>   |                    |                    |                    |                    |                    |                    |                     |                     |
| 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 |

| Model: CFD/U-  | 021-D2W            | 028-D2W            | 035-D2W            | 042-D2W            | 053-D2W            | 070-D2W            | 088-D2W             | 105-D2W             |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| <b>NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM &amp; ESP)</b> |                    |                    |                    |                    |                    |                    |                     |                     |
| <b>80°FDB/62.9°FWB, 38% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)         |
| <b>72°FDB/60.0°FWB, 50% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)          |
| <b>Evaporator Blower / Motor - Backward Inclined Direct Driven EC</b>        |                    |                    |                    |                    |                    |                    |                     |                     |
| 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              |
| <b>Unit Dimensions, H" x W" x D"</b>   |                    |                    |                    |                    |                    |                    |                     |                     |
| 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 |

| Model CFD/U-   | 021-D2G            | 028-D2G            | 035-D2G            | 042-D2G            | 053-D2G            | 070-D2G            | 088-D2G             | 105-D2G             |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| <b>NET DX COOLING CAPACITY - (Includes Motor Heat @ Rated CFM &amp; ESP)</b> |                    |                    |                    |                    |                    |                    |                     |                     |
| <b>80°FDB/62.9°FWB, 38% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)          |
| <b>72°FDB/60.0°FWB, 50% RH, 52.3°FDP</b>                                     |                    |                    |                    |                    |                    |                    |                     |                     |
| 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)          |
| <b>Evaporator Blower / Motor - Backward Inclined Direct Driven EC</b>        |                    |                    |                    |                    |                    |                    |                     |                     |
| 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              |
| <b>Unit Dimensions, H" x W" x D"</b>   |                    |                    |                    |                    |                    |                    |                     |                     |
| 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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