

# STULZ

CLIMATE. CUSTOMIZED.

## Perimeter Mounted Cooling

### CyberOne EC DX



STULZ CyberOne Direct Expansion (DX) Systems are a compact solution for efficient cooling in small spaces. They can be easily tucked into a corner, between cabinetry, or side-by-side. CyberOne units are especially adaptable to raised floors and are available in up-flow and down-flow air pattern configurations.

- State-of-the-art  $E^2$  Controller with a range of BMS interface options
- Optimized air distribution for raised floor configurations
- 100% front service access
- Up-flow and down-flow air patterns
- Adjustable air volume
- Power correction included
- EC Fan
  - Fan speed is continuously adjustable via a signal from the system controller without the use of VFD's
  - Direct drive - no belt abrasion/dust, maintenance free operation
  - Less vibration / quieter operation

# Technical Data

CyberOne		
COS		
Capacity	kW	7 - 35
	MBH	24 - 120
	Tons	2 - 10
Air Flow	CFM	1,000 - 4,800

Air Cooled					
Model: COS-	024	042	060	096	120
NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM & e.s.p. ratings)					
75 °FDB/62.5 °FWB, 50% RH					
Total	21,795	39,553	52,337	82,367	105,473
Sensible	18,915	35,900	47,191	81,492	95,913
70 °FDB/58.5 °FWB, 50% RH					
Total	19,997	36,196	47,191	78,379	96,609
Sensible	18,190	34,496	45,092	76,072	92,143
Evaporator Blower / Motor - DWDI Centrifugal - Belt Driven, Variable Pitch Pulleys					
Horsepower	1/2 Hp	1.0 Hp	1-1/2 Hp	3.0 Hp	3.0 Hp
CFM @ ext. st. press.	900 @ 0.5"	1,800 @ 0.5"	2,500 @ 0.5"	4,200 @ 0.5"	4,800 @ 0.5"
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft2)	3/ 2.1	4/ 5.3	4/ 5.3	4/ 9.7	4/ 9.7
Face Velocity, fpm	428	338	469	434	495
Glycol Cooled					
Model: COS-	024	042	060	096	120
NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM & e.s.p. ratings)					
75 °FDB/62.5 °FWB, 50% RH					
Total	21,130	38,393	50,684	79,514	102,253
Sensible	18,709	35,531	46,720	79,235	95,052
70 °FDB/58.5 °FWB, 50% RH					
Total	19,369	35,058	45,582	72,853	93,600
Sensible	17,953	34,108	44,562	74,375	91,298
Evaporator Blower / Motor - DWDI Centrifugal - Belt Driven, Variable Pitch Pulleys					
Horsepower	1/2 Hp	1.0 Hp	1-1/2 Hp	3.0 Hp	3.0 Hp
CFM @ ext. st. press.	900 @ 0.5"	1,800 @ 0.5"	2,500 @ 0.5"	4,200 @ 0.5"	4,800 @ 0.5"
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft2)	3/ 2.1	4/ 5.3	4/ 5.3	4/ 9.7	4/ 9.7
Face Velocity, fpm	428	338	469	434	495
Water Cooled					
Model: COS-	024	042	060	096	120
NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM & e.s.p. ratings)					
75 °FDB/62.5 °FWB, 50% RH					
Total	24,066	43,484	58,128	91,952	117,560
Sensible	19,309	37,001	48,858	84,826	99,162
70 °FDB/58.5 °FWB, 50% RH					
Total	22,260	39,841	52,671	84,282	107,781
Sensible	18,996	35,730	46,946	81,551	95,757
Evaporator Blower / Motor - DWDI Centrifugal - Belt Driven, Variable Pitch Pulleys					
Horsepower	1/2 Hp	1.0 Hp	1-1/2 Hp	3.0 Hp	3.0 Hp
CFM @ ext. st. press.	900 @ 0.5"	1,800 @ 0.5"	2,500 @ 0.5"	4,200 @ 0.5"	4,800 @ 0.5"
Evaporator Coil - Aluminum Fin, Copper Tube					
Rows/Face Area (ft2)	3/ 2.1	4/ 5.3	4/ 5.3	4/ 9.7	4/ 9.7
Face Velocity, fpm	428	338	469	434	495
Unit Dimensions (Includes access panels, w/o Plenum Box Option)					
Model: COS Air/Glycol/Water	024	042	060	096	120
H" x W" x D"	76.0 x 30.6 x 30.6	76.0 x 30.6 x 30.6	76.0 x 30.6 x 30.6	76.0 x 47.6 x 33.6	76.0 x 47.6 x 33.6

## STULZ AIR TECHNOLOGY SYSTEMS (STULZ USA), INC.

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Technical documentation subject to change without notice | QC-CDX-0111 Rev C