

# CyberONE-EC

Computer Room Air Conditioners



## 2 to 10 Tons - Single Circuit - DX

Air / Water / Glycol

Free Cooling / Alternate Water Source

Precision Air Conditioners Utilizing EC Fan Technology  
(60 Hz Data)



- Largest capacity / Smallest footprint in the industry
- 2-year standard parts warranty
- 100% front service access
- 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 / Quiet operation
- Optimized air distribution into raised floor to avoid hot spots
- Adjustable air volume
- Power correction included



# CyberONE EC

High Capacity Floor Mounted Chilled Water Systems

COS" Model	COS-024-AR-EC	COS-042-AR-EC	COS-060-AR-EC	COS-096-AR-EC	COS-120-AR-EC
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					
Air Cooled					
Total	23,537	43,843	57,583	90,537	113,915
Sensible	20,059	39,565	50,938	82,801	94,319
Water Cooled					
Total	26,153	48,125	63,855	100,580	126,423
Sensible	20,886	40,980	53,049	86,188	98,966
Glycol Cooled					
Total	22,810	42,599	55,799	87,721	110,524
Sensible	19,809	39,069	50,347	81,663	93,220
Reheat/Heat - Performance Capacities Do Not Include Motor Heat					
ELECTRIC REHEAT / HEAT - Finned Tubular Heaters, (Standard)					
Htr Kw Rating (# of Stages)	6 Kw (1-stg)	9 Kw (1-stg)	9 Kw (1-stg)	9 Kw (1-stg)	9 Kw (1-stg)
Humidification - Electrode Steam Canister Humidifier with Adjustable Output, (Standard)					
Steam Output, Lbs/Hour	2-5 lbs/hr	4-10 lbs/hr	4-10 lbs/hr	4-15 lbs/hr	4-15 lbs/hr
Evaporator Blower / Motor - Backward Curved, Direct-Drive, EC Plug Fan					
Horsepower	3.6 Hp, (1)	3.6 Hp, (1)	4.1 Hp, (1)	4.1 Hp, (2)	4.1 Hp, (2)
CFM @ ext. st. press.	1,000 @ 0.5"	2,000 @ 0.5"	2,700 @ 0.5"	4,400 @ 0.5"	4,800 @ 0.5"
Drive Method	Direct Driven	Direct Driven	Direct Driven	Direct Driven	Direct Driven
Qty. of Fans	1	1	1	1	1
Dimensions ( H" x W" x D" )	76x30.63x30.61	76x30.63x30.61	76x30.63x30.61	76x47.63x33.61	76x47.63x33.61
Approx. Weight	495 lbs	520 lbs	520 lbs	800 lbs	810 lbs

## Controller

The *E*<sup>2</sup> Series advanced microprocessor based controller continually monitors outside air conditions and maintains proper compressor and reheat operation, utilizing STULZ-ATS' unique control method.



The controller logically examines both temperature and relative humidity and determines the proper control of cooling, heating, and dehumidification. The controller can be fine-tuned for each specific application, resulting in higher operational efficiency and shorter component run-times.

## Features

### Steam Humidification

The electrode steam canister humidifier is available with all systems. Manually adjusted On/Off and optional proportional steam humidifiers are available.



### Capacity Modulation Options

- Hot Gas Bypass Systems
- Modulating (0-10 Vdc) CW Valves

### Compact Design

The compact footprints allow for ease of rigging and can be easily tucked into a corner or between cabinetry.

### Dehumidification Mode

Dehumidification mode with electric reheat is standard.

Optional Methods of Dehumidification:

- Hot Gas Reheat
- Hot water or Steam Reheat/Heat
- SCR Fired Electric Reheat/Heat

### High Efficiency/Quiet Operation

Low sound power Scroll compressors coupled with low RPM blower design and acoustically lined cabinets provide the optimum in quiet operation.



### Year Round Operation

Option offerings available CyberONE A/Cs allow for year round, 24/7 A/C operation in any environment in the world.