

# Precision Cooling

## STULZ CyberOne EC CW

**STULZ**

CLIMATE. CUSTOMIZED.

STULZ CyberOne Chilled Water 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.



### STULZ CyberOne (COS)

kW	12 - 35
MBH	42 - 120
Tons	3 - 10
CFM	2,700 - 4,800

### Features and Benefits

- STULZ' state-of-the-art  $E^2$  Microprocessor with a range of BMS interface options
- Optimized air distribution for raised floor configurations, to avoid hot spots
- 100% front service access
- Front and rear return, up-flow and down-flow air patterns
- Specialized designs available for agricultural grow facilities
- 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 / quiet operation

# Technical data

## STULZ CyberOne EC

Model :		COS-042-CW-()-EC	COS-060-CW-()-EC	COS-096-CW-()-EC	COS-120-CW-()-EC
<b>NET COOLING CAPACITY - kW(MBH) @ 45 °F EWT, 0% Glycol Solution (Includes motor heat @ rated ft<sup>3</sup>/min &amp; esp)</b>					
<b>85 °F DB/65.9 °F WB, 36% RH, 55 °F DP</b>					
High Flow (10 °F ΔTw)	Total	22 (74.9)	28.1 (95.8)	42.1 (143.8)	54.2 (185.1)
	Sensible	21.3 (72.7)	25.1 (85.5)	39.6 (135.2)	46.6 (159)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	15.9 (22.0)	20.3 (29.0)	30.4 (40.8)	38.8 (43.6)
Med. Flow (12 °F ΔTw)	Total	19.1 (65)	27.1 (92.5)	40.7 (138.9)	52.7 (179.9)
	Sensible	19.1 (65)	24.6 (83.8)	38.6 (131.6)	45.8 (156.4)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	11.6 (13.4)	16.4 (20.2)	24.5 (28.2)	31.5 (30.3)
Low Flow (14 °F ΔTw)	Total	17.6 (60)	26.3 (89.7)	39.1 (133.4)	51.4 (175.2)
	Sensible	17.6 (60)	24.1 (82.2)	37.3 (127.2)	45.1 (153.9)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	9.2 (9.7)	13.6 (15.0)	20.2 (20.7)	26.3 (22.4)
<b>75 °F DB/62.5 °F WB, 50% RH, 55 °F DP</b>					
High Flow (10 °F ΔTw)	Total	15.1 (51.6)	20.3 (69.4)	30.2 (103.2)	40.5 (138.2)
	Sensible	14.2 (48.3)	17.2 (58.8)	27 (92.3)	32.7 (111.7)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	11.2 (12.8)	14.9 (17.3)	22.2 (24.0)	29.3 (26.9)
Med. Flow (12 °F ΔTw)	Total	11.8 (40.2)	19.2 (65.6)	28.2 (96.3)	38.6 (131.7)
	Sensible	11.8 (40.2)	16.6 (56.7)	25.6 (87.5)	31.8 (108.4)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	7.4 (7.4)	11.8 (12.1)	17.3 (16.3)	23.4 (18.6)
Low Flow (14 °F ΔTw)	Total	10.1 (34.5)	18.2 (62.1)	26.1 (89.2)	36.9 (125.8)
	Sensible	10.1 (34.5)	16 (54.6)	24.1 (82.1)	30.8 (105)
	Flow Rate, gpm (Pressure Drop, ftH <sub>2</sub> O)	5.5 (5.6)	9.6 (9.1)	13.8 (11.8)	19.1 (13.8)
<b>Chilled Water Coil - Aluminum Fin, Copper Tube</b>					
	Rows (Face Area, ft <sup>2</sup> )	4 (5.5)	6 (5.5)	4 (9.75)	6 (9.75)
	Face Velocity, ft/min	491	491	492	492
<b>Evaporator Blower / Motor - Backward Curved EC</b>					
	Nominal Motor Power, hp	3.6	3.6	4.1	4.1
	Rated Air Flow, ft <sup>3</sup> /min @0.5 inH <sub>2</sub> O esp	2700	2700	4800	4800
	Quantity of Blowers	1	1	1	1
<b>Physical Data *</b>					
	Approximate Unit Weight, lb	400	410	560	570
	Unit Dimensions, H in. x W in. x D in. **	76.0 × 30.6 × 30.6	76.0 × 30.6 × 30.6	76.0 × 47.6 × 33.6	76.0 × 47.6 × 33.6
	Approximate Shipping Dimensions, H in. x W in. x D in.**	82.0 X 37.0 X 37.0	82.0 X 37.0 X 37.0	82.0 X 54.0 X 40.0	82.0 X 54.0 X 40.0
	Upflow Plenum Box Dimensions, H in. x W in. x D in.	18.0 × 28.8 × 28.8	18.0 × 28.8 × 28.8	18.5 × 46.0 × 32.0	18.5 × 46.0 × 32.0

\* Unit dimensions do not include plenum. Add plenum height to height dimension when selecting a plenum. Note that plenum ships loose on a separate pallet.

\*\* Add 17.6 inches to unit depth dimensions for rear-return units.

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