

Row Cooling

STULZ CyberRow

STULZ

CLIMATE. CUSTOMIZED.

STULZ CyberRow provides intelligent air flow control for more efficient rack cooling, with or without containment.



		STULZ CyberRow						
		CRS-090 (12")	CRS-180 (24")	CRS-042 (12")	CRS-084 (12")	CRS-090 (12")*	CRS-085 (24")	
		CW		DX			DX Mode	Free Cooling Mode
Capacity	kW	13 - 37	31 - 75	16	31	33	31	13 - 37
	MBH	44 - 126	106 - 256	55	106	112	106	44 - 126
	Tons	4 - 11	9 - 21	5	9	9.3	9	4 - 11
Air Flow	CFM	2,900	5,800	1,500	2,900	2,900	2,900	2,900

* VFD Compressor

STULZ CyberRow provides innovative technology and high-quality components for minimal energy consumption. Maximum reliability is achieved through the complete system separation between the rack and A/C unit.

- STULZ' state-of-the-art *E²* Microprocessor with a range of BMS interface options
- Two rack sizes available: 12" and 24" (300m and 600 mm)
- Used with racks from any manufacturer
- Chilled water and DX (Water, Air, Glycol)
- Two air flow options are available: front discharge and front diverted plenum discharge
- Targeted hot spot reduction

CyberRow Technical Data



Direct Expansion (DX)

MODEL	CRS-042-AR	CRS-042-W	CRS-042-G	CRS-084-AR	CRS-084-W	CRS-084-G	CRS-090-AR	CRS-090-W	CRS-090-G
NET DX COOLING CAPACITY - MBH (Includes Motor Heat @ Rated CFM & ESP)									
90°F DB/66.1°F WB Entering Air Temperature									
Total	46 (13.5)	50 (14.7)	45 (13.2)	88 (25.8)	97 (28.5)	88 (25.7)	93 (27)	102 (30)	91 (27)
Sensible	46 (13.5)	50 (14.7)	45 (13.2)	88 (25.8)	97 (28.5)	88 (25.7)	93 (27)	102 (30)	91 (27)
Blower/Motor - Backward Inclined, Plenum Style Fan, with an EC Motor 1/4 H.P. ea, 3 direct drive fans									
CFM	1,500	1,500	1,500	2,900	2,900	2,900	2,900	2,900	2,900
Physical Data									
Approx. Weight (lbs)	520	520	520	550	550	550	550	550	550
Dimensions (H"xW"xD") (without side diverter panel option)	77.8 x 11.6 x 42.1								

Chilled Water (CW)

MODEL	12" CRS-090-C	24" CRS-180-C		
90°F DB/66.1°F WB Entering Air Temperature				
45°F EWT				
Total Capacity	BTU/H	10°F ΔT	96,139	177,357
		12°F ΔT	91,959	167,355
	kW	10°F ΔT	28.2	51.9
		12°F ΔT	26.9	49.0
Sensible Capacity	BTU/H	10°F ΔT	96,139	177,357
		12°F ΔT	91,959	167,355
	kW	10°F ΔT	28.2	51.9
		12°F ΔT	26.9	49.0
Flow Rate	GPM	10°F ΔT	19.5	37.4
		12°F ΔT	15.6	29.5
Total System Pressure Drop	Ft. H ₂ O	10°F ΔT	11.5	20.3
		12°F ΔT	8.2	14.0
Chilled Water Coil - Aluminum Fin, Copper Tube				
Rows/Face Area (ft ²)	10°F ΔT	177,357		
Face Velocity, fpm	12°F ΔT	167,355		
Blower/Motor - Backward Curved 3-Direct Driven EC				
Horsepower - Each	51.9	177,357		
CFM	49.0	167,355		
Physical Data				
Approx. Weight (Lbs)	384	550		
Dimensions: (H"xW"xD")	78.5x11.6x42.1	78.5x23.4x42.1		

Sound Data (DX & CW)

Sound Data (DX & CW) - Sound Pressure - LpA, free field (dBA) in a 121.13 ft ² (3.43m ³) room at 3.28 (1.0m) distance					
	CRS-042-AR/W/G	CRS-084-AR/W/G	CRS-090-AR/W/G	CRS-090-C	CRS-180-C*
Airflow (SCFM)	1,500	2,900	2,900	2,900	5,800
63	17.4	21.5	33.7	19.6	43.0
125	22.1	49.1	45.1	47.2	52.6
250	29.0	52.4	53.4	49.8	61.5
500	37.1	55.7	48.1	51.4	64.0
1000	41.9	54.7	46.9	53.6	67.0
2000	37.0	53.6	47.6	51.7	64.2
4000	28.7	49.7	40.9	45.0	59.6
8000	14.2	31.4	35.6	30.6	45.8
Total dBA	42.0	65.9	58.4	58.4	71.1
NR Value	42.0	55.0	54.0	54.0	67.0

*Sound Pressure - LpA, free field (dBA) in a 146.91 ft² (4.16m³) room at 3.28 ft (1.0m) distance

(Note: All sound testing is performed in accordance to ISO 9614-2 Determination of Sound Power Levels. ISO 9614- specifies a method for measuring the component of sound intensity that is normal to a measurement surface. The measurement surface is chosen to enclose the noise source(s) so that the sound power level can be determined.)

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Technical documentation subject to change without notice
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