

STULZ

CLIMATE. CUSTOMIZED.

Row Mounted Cooling

STULZ CyberRow™



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

- State-of-the-art E^2 Microprocessor with a range of BMS interface options
- Split, Self-Contained, Ducted and Ductless Spot Cooling Systems
- Two rack sizes available: 12" and 24" (300mm and 600 mm)
- Used with racks from any manufacturer
- Chilled Water and Direct Expansion (Water, Air, Glycol)
- Two air flow options are available: front discharge and front diverted plenum discharge
- Targeted hot spot reduction

Technical Data

		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

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° FDB/66.1° FWB Entering Air Temperature										
Total	MBH (kW)	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)		450	520	520	480	550	550	480	550	550
Dimensions (H"xW"xD")		77.8 x 11.6 x 42.1 (without side diverter panel option)								

Chilled Water (CW)				
MODEL	12" CRS-090-C	24" CRS-180-C		
90° FDB/66.1° FWB Entering Air Temperature				
45° F EWT				
Total Capacity	BTU/H	10° F ΔT	91,692	183,826
		12° F ΔT	87,216	176,252
	kW	10° F ΔT	26.9	53.9
		12° F ΔT	25.6	51.7
Sensible Capacity	BTU/H	10° F ΔT	91,692	183,826
		12° F ΔT	87,216	176,252
	kW	10° F ΔT	26.9	53.9
		12° F ΔT	25.6	51.7
Flow Rate	GPM	10° F ΔT	18.7	38.5
		12° F ΔT	14.8	31.0
Total System Pressure Drop	Ft. H ₂ O	10° F ΔT	12.8	27.1
		12° F ΔT	8.3	18.1
Chilled Water Coil - Aluminum Fin, Copper Tube				
Rows/Face Area (ft ²)		4/5.8	4/11.6	
Face Velocity, fpm		500	500	
Blower/Motor - Backward Curved 3-Direct Driven EC				
Horsepower - Each		1/4 H.P.	1 1/4	
CFM		2,900*	5,800	
Physical Data				
Approx. Weight (Lbs)		380	550	
Dimensions: (H"xW"xD")		84x22x48	84x32x48	

*Note: When 110v/1Ph/60Hz Power Input is selected, unit airflow is decreased by 200 CFM, which will result in capacity reduction of 3.5% or less.

Sound Data (DX & CW)					
MODEL	CRS-042-AR/W/G	CRS-084-AR/W/G	CRS-090-AR/W/G	CRS-090-C	CRS-180-C*
Sound Data (DX & CW) - Sound Pressure - LpA, free field (dBA) in a 121.13 ft ³ (3.43m ³) room at 3.28 (1.0m) distance					
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 ft³ (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 | QC-ROW0069 Rev F