

## DX/Chilled Water Ceiling Cassettes

VRF ALTERNATIVE PRODUCT FOR SPOT HEATING AND COOLING

### PRODUCT DESCRIPTION

Modine Ductless Mini-Split Ceiling Cassette units effectively create independently-controlled temperature zones, cassettes are ideal for classrooms, offices, laboratories, conference rooms or any environment where space is at a premium and low noise is essential.

This versatility eliminates compromising architecture or design, and cost savings are often realized during building updates, as existing piping and/or wiring can be frequently be reused.



- DX Cooling: 18, 24, 30, 36 and 42 Nominal MBH
- Chilled Water Cooling: 8, 12, 18, 20, 33 and 36 Nominal MBH
- Thermostatic control operations to vary conditions for diverse requirements and activities
- Low blower speeds, rigid panel and cabinet construction, and sound-absorbant insulation reduces noise to a minimum
- Zoned control flexibility, which greatly reduces energy costs
- Units fit easily into new or existing buildings
- Branch duct knock-outs built-in to connect to remote outlets
- Fresh air knock-outs for ducted outside air connections
- Built-in condensate pump to transport all moisture to local drain
- Up to MERV-10 filtration

## CHILLED WATER COOLING MODELS

MODEL NO.	Filter	Total Cooling (Btu/hr) <sup>1</sup>	Hot Water Heat (Btu/hr) <sup>2</sup>	Electric Heat (kW)	Dimensions - H x W x D (inches)		Weight (lbs)
					Chassis	Fascia	
CCW 08	STD.	7,800	17,100	1.5	10 1 <sup>1</sup> / <sub>16</sub> x 22 1 <sup>1</sup> / <sub>2</sub> x 22 1 <sup>1</sup> / <sub>2</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 25 3 <sup>1</sup> / <sub>16</sub> x 25 3 <sup>1</sup> / <sub>16</sub>	45
	MERV 10	5,400	13,400				
CCW 12	STD.	11,200	N/A	1.5	10 1 <sup>1</sup> / <sub>16</sub> x 22 1 <sup>1</sup> / <sub>2</sub> x 22 1 <sup>1</sup> / <sub>2</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 25 3 <sup>1</sup> / <sub>16</sub> x 25 3 <sup>1</sup> / <sub>16</sub>	45
	MERV 10	6,800	N/A				
CCW 18	STD.	18,200	27,300	3.0	9 1 <sup>1</sup> / <sub>2</sub> x 32 5 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 37 x 37	82
	MERV 10	16,500	24,800				
CCW 20	STD.	18,600	27,900	3.0	9 1 <sup>1</sup> / <sub>2</sub> x 32 5 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 37 x 37	82
	MERV 10	16,500	24,800				
CCW 33	STD.	31,100	41,200	5.0	11 1 <sup>1</sup> / <sub>2</sub> x 44 x 7 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 49 3 <sup>1</sup> / <sub>16</sub> x 37	118
	MERV 10	29,700	42,300				
CCW 36	STD.	34,300	45,200	5.0	11 1 <sup>1</sup> / <sub>2</sub> x 44 x 7 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 49 3 <sup>1</sup> / <sub>16</sub> x 37	118
	MERV 10	29,700	42,300				

1. Nominal chilled water cooling capacity based on air 80/67°F DB/WB, 45°F inlet / 55°F outlet water temperatures, high fan speed.

2. Nominal hot water heating capacity based on air 70°F, 180°F inlet / 160°F outlet water temperatures, high fan speed.

## DIRECT EXPANSION (DX) AIR CONDITIONING MODEL

MODEL NO.	Total Cooling (Btu/hr) <sup>1</sup>	SEER	Hot Water Heat (Btu/hr) <sup>2</sup>	Electric Heat (kW)	Dimensions - H x W x D (inches)		Weight (lbs)
					Chassis	Fascia	
CSD 18	19,200	14	38,746	1.5	11 5 <sup>8</sup> / <sub>16</sub> x 32 5 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 37 x 37	84
CSD 24	23,000	14	41,993	1.5	11 5 <sup>8</sup> / <sub>16</sub> x 32 5 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 37 x 37	84
CSD 30	31,400	14	56,603	3.0	11 1 <sup>1</sup> / <sub>2</sub> x 44 7 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 49 3 <sup>1</sup> / <sub>16</sub> x 37	118
CSD 36	38,200	14	59,600	3.0	11 1 <sup>1</sup> / <sub>2</sub> x 44 7 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 49 3 <sup>1</sup> / <sub>16</sub> x 37	118
CSD 42	42,500	14	64,268	5.0	11 1 <sup>1</sup> / <sub>2</sub> x 44 7 <sup>1</sup> / <sub>16</sub> x 32 3 <sup>8</sup> / <sub>16</sub>	2 5 <sup>8</sup> / <sub>16</sub> x 49 3 <sup>1</sup> / <sub>16</sub> x 37	118

1. Cooling capacities based on 80/67°F DB/WB indoor, 95/75°F DB/WB outdoor ambient, high fan speed.

2. Nominal hot water heating capacity based on air 70°F, 180°F inlet / 160°F outlet water temperatures, high fan speed.



As Modine Manufacturing Company has a continuous product improvement program, it reserves the right to change design and specifications without notice.



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