

CMW30

MovinCool: the number 1 spot cooling solution



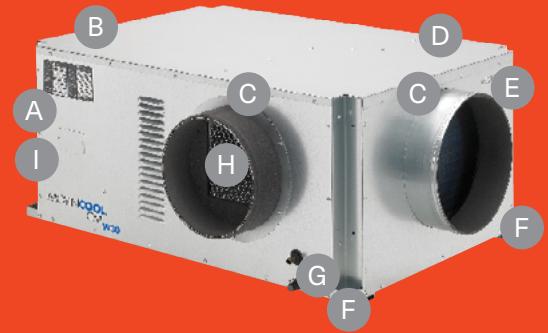
CMW30 ceiling-mount, water-cooled air conditioner

Having set the industry standard with ceiling-mount spot cooling technology, MovinCool designed its CMW30 watercooled model for applications where an air-cooled unit cannot be used because there is no available space for hot exhaust air. With a cooling capacity of 29,400 Btu/h total and 22,000 Btu/h sensible for computer rooms, the CMW30 is ideal for server rooms and other applications with dense heat loads.

The CMW30 comes standard with a state-of-the-art, wallmount controller that offers advanced communications, monitoring, self-diagnostic and troubleshooting capabilities. The CMW30 also features a high integrated-energy-efficiency ratio (IEER) of 17.0, made possible by an energy-saving, variable-speed inverter compressor and inverter fan motor.

With its compact design of 45 x 32 x 20" (W x D x H), the CMW30 can fit into virtually any drop-ceiling space. Built-in flanges, mounting brackets and vibration isolators enable easy, low-cost installation using standard off-the-shelf hardware. As with all MovinCool spot air conditioners, no refrigerant connections or outside condensing units are required, further reducing installation and maintenance costs.

- 29,400 Btu/h total cooling capacity
- High sensible cooling—ideal for server rooms
- Environmentally friendly design—17 IEER, R-410A refrigerant and RoHS compliant
- Low-cost installation using standard off-the-shelf hardware
- Maximum sound level of only 55 dB(A)—5 decibels lower than a normal conversation
- Wide condenser EWT range—45°F to 115°F



- A Works with fire alarm control for safety shut-off
- B 17 IEER R-410A RoHS compliance
- C Built-in flanges enable easy installation
- D Inverter compressor
- E 22,000 Btu/h sensible cooling (for computer rooms)
- F Built-in mounting bracket vibration isolator included
- G Standard internal pump
- H Inverter fan motor
- I Signal output connects to building control system

Technical specifications	CMW30	
Electronic features	Operation control	Wall mounted controller with LCD electronic display
Electrical characteristics	Voltage requirement	208/230V, 1 Phase, 60Hz
	Minimum—maximum voltage	198-253V
	Recommended fuse size	20 amps
Cooling capacity and power consumption Evaporator: 80°F, 50% RH Condenser: 95°F, 50% RH	Total cooling capacity	29,400 Btu/h ¹
	Sensible cooling capacity	20,800 Btu/h ¹
	Power consumption	1.99 kW ¹
	Current consumption	8.9 amps ¹
Evaporator: 72°F, 50% RH Condenser: 95°F, 50% RH	Total cooling capacity	25,200 Btu/h ¹
	Sensible cooling capacity	22,000 Btu/h ¹
	Power consumption	2.00 kW ¹
	Current consumption	9 amps ¹
IEER		17.0
Evaporator	Fan type	Centrifugal
	Maximum air flow—high/low	1060/840 CFM ¹
	Maximum external static pressure	0.66 IWG
Condenser	Fan type	Water cooled condenser
	Water connections	¾ in NPT female
Compressor	Type	Hermetic swing inverter
Refrigerant	Type	R-410A
Dimensions	W x D x H (without flange)	45 x 32 x 20 in
	W x D x H (with flange)	49 x 35 x 20 in
Net weight/shipping weight		236/271 lbs
Condensate pump capacity	Pump rate	5 gal/h
	Head	4 ft
Operating conditions	Evaporator	55°F-95°F, 50% RH
	Condenser	45°F-115°F (condenser water)
Maximum duct length	Cold duct hose	120 ft ²
	Hot duct hose	N/A
Maximum sound level	Under ceiling tile with evaporator duct	55 dB(A)

1. Measured with two 20 ft ducts with one 90° bend each, supply grill and return grill with filter (0.30 IWg external static pressure) (ducts not included).

2. Confirm pressure drop of duct, grills and filter with manufacturer specifications.



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