CEILING-MOUNT SERIES
Self-Contained Air- and Water-Cooled Units

Electronic Features
- Millivolt Thermostat (Not Included)
- Wall Mounted Controller

Electrical Characteristics
- Voltage Requirement: 115V, 1 Phase, 60 Hz
- Min. - Max. Voltage: 105-125
- Recommended Fuse Size: 15 amps

Cooling Capacity and Power Consumption
- Evaporator: 80 °F, 50% RH
  - Total Cooling Capacity: 10,500 Btu/h
- Condenser: 95 °F, 50% RH
  - Sensible Cooling Capacity: 7,200 Btu/h
- Water-cooled model:
  - Power Consumption: 1.23 kW
  - Current Consumption: 11.2 amps

- Evaporator: 72 °F, 50% RH
  - Total Cooling Capacity: 9,200 Btu/h
- Condenser: 95 °F, 50% RH
  - Sensible Cooling Capacity: 7,000 Btu/h
- Water-cooled model:
  - Power Consumption: 1.23 kW
  - Current Consumption: 11.2 amps

MOVINCOOL TECHNICAL SPECIFICATIONS CM12 CM25* CMW30*
Self-Contained Air- and Water-Cooled Units

MOVINCOOL
THE #1 SPOT COOLING SOLUTION
CM SERIES

Breakthrough High-capacity Cooling for Computer Rooms and Offices

The latest addition to the award-winning MovinCool line of spot coolers is the CM Series of ceiling-mount packaged air conditioners, including the air-cooled CM12 and CM25 models, as well as the new CMW30 water-cooled model.

Featuring the lowest top-to-bottom profile in the industry, the CM Series fits into virtually any drop ceiling, making it the perfect cooling solution for server rooms, which have limited floor space.

“The health-care center has no more shutdowns due to overheating. The CM12 is perfectly designed for this type of application. It has the usual MovinCool quality, it’s easy to install in tight spaces, and it has an affordable price tag.”

Joe Dotson, Service Account Manager
Scarborough Medical Services, Inc.

CM12 KEY FEATURES
- 10,500 Btu/h at 80°F 50% RH (Evaporator)
  95°F 50% RH (Condenser)
- 13,000 Btu/h at 95°F 60% RH
- 115V, 15 amps – no special electric required
- No floor space needed
- Can fit into tight ceiling spaces
- Compact, self-contained unit is easy to install
- Environmentally friendly design – R-410A refrigerant and RoHS compliant

CM25 KEY FEATURES
- 25,000 Btu/h at 80°F 50% RH (Evaporator)
  95°F 50% RH (Condenser)
- High sensible cooling at 18,900 Btu/h
- Environmentally-friendly design – 14 SEER, variable-speed compressor, R-410A refrigerant and RoHS compliant
- Compact, self-contained unit is easy to install
- Wall mount controller offers advanced programmability and settings

CMW30 KEY FEATURES
- 29,400 Btu/h total cooling capacity
- 22,000 Btu/h sensible cooling for computer rooms
- Wide condenser EWT range – 45°F to 115°F
- Environmentally-friendly design – 17 IEER, variable-speed compressor, R-410A refrigerant and RoHS compliant
- Compact, self-contained unit is easy to install
- Wall mount controller offers advanced programmability and settings
**Application**

“For an office, especially on a corner with windows facing the sun and equipment which give off heat, the MovinCool CM25 is definitely the way to go.”

Nick Best, Director, Cam Op & Editor
New Creation Video Productions

“The flexibility of the CM25’s control options made it very easy for us to integrate the unit into our automation system. It allows us to remotely monitor, schedule, trend and alarm the points we want, so we have greater control over the unit.”

Matt Steding, Division Maintenance Manager
Allina Hospitals and Clinics

**Accessories**

**CONDENSER AIR REMOVAL**
If removing the exhaust is needed, MovinCool makes it easy. The flange can be used to attach a 10-inch (CM12) or 12-inch (CM25) diameter duct for more air exhaust options (duct not included).

<table>
<thead>
<tr>
<th>#</th>
<th>PART NAME</th>
<th>CM12</th>
<th>CM25</th>
<th>CMW30</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Exhaust Air Flange</td>
<td>481170-0440</td>
<td>481170-0191</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**CONDENSER AIR INTAKE**
The air plenum can be used to prevent negative air pressure in the ceiling space when using the exhaust air-flange and duct to remove exhaust from the ceiling space. Simply attach a 10-inch (CM12) or 14-inch (CM25) diameter duct to the air plenum to bring in air from outside of the ceiling space (duct not included).

<table>
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<th>CM25</th>
<th>CMW30</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Condenser Intake Air Plenum</td>
<td>481769-0220</td>
<td>481769-0240</td>
<td>N/A</td>
</tr>
<tr>
<td>2A</td>
<td>Condenser Filter Kit (not shown)</td>
<td>N/A</td>
<td>484409-0130</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**WALL THERMOSTAT**
Weekday & weekend programmable digital millivolt thermostat.

<table>
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<th>CM25</th>
<th>CMW30</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Wall Thermostat</td>
<td>LA484500-3430</td>
<td>Included*</td>
<td>Included*</td>
</tr>
</tbody>
</table>

**AUTO CONDENSATE REMOVAL**
Condensate pump with 4-foot lift capacity is included with all the units. If more than 4-foot lift capacity is needed, simply use this optional condensate pump kit to boost lift capacity to 17-feet.

<table>
<thead>
<tr>
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<th>PART NAME</th>
<th>CM12</th>
<th>CM25</th>
<th>CMW30</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Condensate Pump Kit</td>
<td>N/A</td>
<td>GX484789-0180</td>
<td>GX484789-0190</td>
</tr>
</tbody>
</table>

*Wall Mounted Controller with LCD Display

**INDIVIDUAL PART DESCRIPTIONS**
MOVINCOOL CM12, CM25 and CMW30

1. **Exhaust Air Flange**: 10” or 12” diameter gray metal flange with mounting screws.
2. **Condenser Intake Air Plenum**: Gray metal plenum with 10” or 14” diameter return air flange. Includes mounting screws.
2A. **Condenser Filter Kit (not shown)**: Optional filter kit for condenser air intake for use in heavily dusty environments.
3. **Wall Thermostat**: Weekday & weekend programmable digital millivolt thermostat.
4. **Condensate Pump Kit**: 230V pump kit to boost lift capacity to 17-feet. Includes installation hardware.

* N/A for CMW30 model
## CM Series Specifications

### Electronic Features
- **Operation**: Millivolt Thermostat (Not Included)
- **Control**: Electronic
- **Wall Mounted Controller**

### Electrical Characteristics
- **Voltage Requirement**: 115V, 1 Phase, 60 Hz
- **Min. - Max. Voltage**: 105-125
- **Recommended Fuse Size**: 15 amps

### Cooling Capacity and Power Consumption
#### Evaporator: 80 °F, 50% RH
- **Total Cooling Capacity**: 10,500 Btu/h
- **Sensible Cooling Capacity**: 7,200 Btu/h
- **Power Consumption**: 1.23 kW
- **Current Consumption**: 11.2 amps

#### Condenser: 95 °F, 50% RH
- **Sensible Cooling Capacity**: 29,400 Btu/h
- **Power Consumption**: 2.9 kW
- **Current Consumption**: 20 amps

### Water-cooled model:
- **EWT/LWT: 85 °F/95 °F**
- **Power Consumption**: 1.23 kW
- **Current Consumption**: 11 amps

### Evaporator: 72 °F, 50% RH
- **Total Cooling Capacity**: 9,200 Btu/h
- **Sensible Cooling Capacity**: 7,000 Btu/h
- **Power Consumption**: 1.23 kW
- **Current Consumption**: 11 amps

### Condenser: 95 °F, 50% RH
- **Sensible Cooling Capacity**: 20,800 Btu/h
- **Power Consumption**: 1.99 kW
- **Current Consumption**: 8.9 amps

### Water-cooled model:
- **EWT/LWT: 85 °F/95 °F**
- **Power Consumption**: 3.20 kW
- **Current Consumption**: 15 amps

### Compressor and Refrigerant
- **Type**: Hermetic Rotary
- **Refrigerant**: R-410A

### Dimensions
- **W x D x H (without flange)**: 32 x 20 x 15.2 in
- **W x D x H (with flange)**: 35 x 23 x 16 in

### Net Weight/Shipping Weight
- **Net Weight**: 123/137 lbs
- **Shipping Weight**: 310/353 lbs

### Condensate Pump Capacity (Internal pump included)
- **Pump Rate**: 5 gal/h
- **Head**: 4 ft

### Operating Conditions
- **Evaporator**: 65° - 95°F, 50% RH
- **Condenser**: 65° - 113°F

### Max. Duct Length
- **Cold Duct Hose**: 20 ft
- **Hot Duct Hose**: 10 ft

### Max. Sound Level
- **Under ceiling tile with evaporator duct**: 52 dB(A)

### All specifications subject to change without notice. Standard warranty includes 12 months on entire unit and 36 months on the compressor. Visit www.movincool.com for details on MovinCool’s industry-best free Extended Warranty Program which includes both parts and labor on units. All models feature compressor overload relay and fan motor protection. All models also feature compressor short-cycle protection, return air thermostat, automatic restart and built-in condensate pump. Only the CM12 is 50 Hertz (Hz) compatible with a slight performance decrease from specifications listed above.

For more information visit www.movincool.com

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