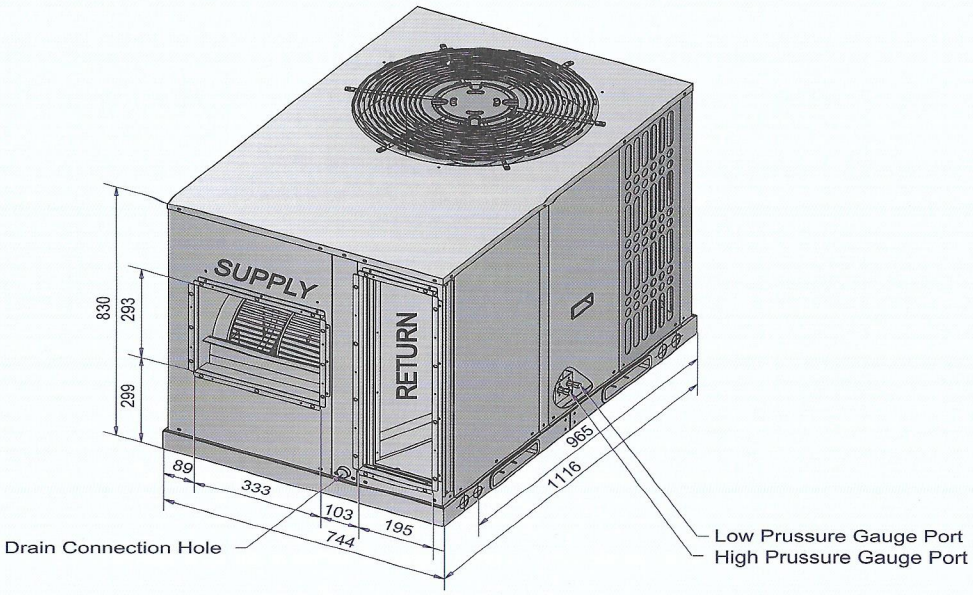
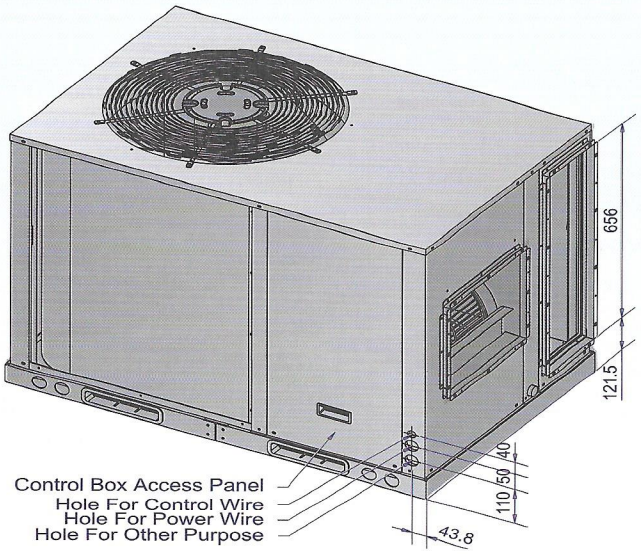
# T1 Condition-R410A

| Nominal ton | | | 3 | 4 | 5 | 5 |
|---|---|---|---|---|---|---|
| Model | | | MRC-36CWN1-V10 | MRC-48CWN1-V10 | MRC-60CWN1-V10 | MRC-60CWN1-X10 |
| Power supply | | V,Ph,Hz | 208~230V,1Ph,60Hz | 208~230V,1Ph,60Hz | 208~230V,1Ph,60Hz | 208~230V,3Ph,60Hz |
| Cooling | Capacity | Btu/h | 36000 | 48000 | 60000 | 60000 |
| | | kW | 10.5 | 14 | 17.6 | 17.6 |
| | Input | kW | 4 | 5.1 | 5.9 | 6 |
| Heating | Heating Capacity | Btu/h | - | - | - | - |
| | | kW | - | - | - | - |
| | Power Input | kW | - | - | - | - |
| Max. input consumption | | kW | 5 | 5 | 6.2 | 7.7 |
| Max. current | | A | 24 | 24 | 31 | 40 |
| Performance | Indoor fan air flow | CFM | 1200 | 1500 | 1700 | 1700 |
| | ESP | Pa | 40 | 50 | 50 | 50 |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Quantity | | 1 | 1 | 1 | 1 |
| | Brand | | Copeland | Copeland | Copeland | Copeland |
| | Capacity | Btu/h | 36000 | 50498 | 57000 | 58000 |
| | Refrigerant oil | ml | 1240 | 1240 | 1660 | 1656 |
| Indoor fan | Type | | Centrifugal Blower | Centrifugal Blower | Centrifugal Blower | Centrifugal Blower |
| | Quantity | | 1 | 1 | 1 | 1 |
| | Drive type | | Direct | Direct | Direct | Direct |
| | Motor quantity | | 1 | 1 | 1 | 1 |
| Indoor coil | Number of rows | | 3 | 4 | 4 | 4 |
| | Fin spacing | mm | 1.7 | 1.7 | 1.7 | 1.7 |
| | | Inch | 1/16 | 1/16 | 1/16 | 1/16 |
| | Tube outside diameter | mm | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 |
| | | Inch | 3/8 | 3/8 | 3/8 | 3/8 |
| Outdoor fan | Type | | Axile | Axile | Axile | Axile |
| | Quantity | | 1 | 1 | 1 | 1 |
| | Drive type | | Direct | Direct | Direct | Direct |
| | Motor quantity | | 1 | 1 | 1 | 1 |
| Outdoor coil | Number of rows | | 1 | 2 | 2 | 2 |
| | Fin spacing | mm | 1.7 | 1.7 | 1.7 | 1.7 |
| | | Inch | 1/16 | 1/16 | 1/16 | 1/16 |
| | Tube outside diameter and type | mm | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 |
| | | Inch | 3/8 | 3/8 | 3/8 | 3/8 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Refrigerant volume | kg | 2 | 3.1 | 3.1 | 3.3 |
| | Refrigerant Control | | Capillary | Capillary | Capillary | Capillary |
| Filter | Quantity | | 1 | 1 | 1 | 1 |
| | Size (W×H×D) | mm | 197x670x10 | 197x670x10 | 197x670x10 | 197x670x10 |
| Shipping | Qty'Per 20'/40'/40'HQ | Pieces | 30/62/91 | 30/62/91 | 30/62/91 | 30/62/91 |

Notes:
The data is based on the following conditions:
Cooling :Indoor temperature: 26.7°C(80°F) DB, 19.4°C(66.9°F) WB; Outdoor temperature: 35°C(95°F).
Heating :Indoor temperature: 20°C(68°F) DB, 15°C(59°F) WB; Outdoor temperature: 7°C(44.6°F) DB, 6°C(42.8°F) WB.

## MRC(Air outlet:side air supply)




| Model | Net size(WxHxD:mm) | Packing size(WxHxD:mm) | Net weight(Kg) | Gross weight(Kg) |
|---|---|---|---|---|
| MRC-36CW-V | 1116×830×744 | 1152x855x1152 | 144 | 147 |
| MRC-48CW-V | 1116×830×744 | 1152x855x1152 | 167 | 170 |
| MRC-60CW-V | 1116×830×744 | 1152x855x1152 | 166 | 169 |
| MRC-60CW-X | 1116×830×744 | 1152x855x1152 | 167 | 170 |
| MRC-36CWN1-V10 | 1116x830x744 | 1152×855×765 | 149 | 152 |
| MRC-48CWN1-V10 | 1116x830x744 | 1152×855×765 | 161 | 164 |
| MRC-60CWN1-V10 | 1116x830x744 | 1152×855×765 | 170 | 173 |
| MRC-60CWN1-X10 | 1116x830x744 | 1152×855×765 | 169 | 172 |

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# MRC-36CWN1-V10

| | | Air Flow | | CFM | 1200 | | | | 1075 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ent (DB) | | (°F) | 75 | 80 | 85 | 90 | 75 | 80 | 85 | 90 |
| Ambient Temperature (°F) | 75 | Entering Wet Bulb( °F) | 61 | TGC | 36.5 | 38.3 | 41.7 | 43.0 | 35.2 | 37.0 | 40.3 | 41.5 |
| | | | | SHC | 28.4 | 29.8 | 32.2 | 33.0 | 27.4 | 28.8 | 31.0 | 31.9 |
| | | | 67 | TGC | 37.7 | 39.6 | 42.7 | 44.0 | 36.4 | 38.2 | 41.2 | 42.4 |
| | | | | SHC | 28.1 | 29.1 | 31.4 | 32.3 | 27.1 | 28.1 | 30.3 | 31.2 |
| | | | 73 | TGC | 38.6 | 40.5 | 43.8 | 44.9 | 37.3 | 39.1 | 42.3 | 43.3 |
| | | | | SHC | 27.8 | 28.5 | 30.7 | 31.6 | 26.8 | 27.5 | 29.6 | 30.5 |
| | 85 | | 61 | TGC | 34.2 | 35.9 | 39.1 | 40.3 | 33.0 | 34.6 | 37.7 | 38.9 |
| | | | | SHC | 26.9 | 28.3 | 30.5 | 31.3 | 26.0 | 27.3 | 29.5 | 30.2 |
| | | | 67 | TGC | 35.3 | 37.0 | 40.0 | 41.2 | 34.0 | 35.7 | 38.6 | 39.7 |
| | | | | SHC | 26.3 | 27.6 | 29.8 | 30.7 | 25.4 | 26.6 | 28.8 | 29.6 |
| | | | 73 | TGC | 36.1 | 38.0 | 41.0 | 42.0 | 34.9 | 36.6 | 39.6 | 40.6 |
| | | | | SHC | 25.4 | 26.8 | 29.1 | 30.0 | 24.6 | 25.8 | 28.1 | 29.0 |
| | 95 | | 61 | TGC | 31.8 | 33.4 | 36.1 | 37.2 | 30.7 | 32.3 | 34.9 | 35.9 |
| | | | | SHC | 25.4 | 26.7 | 28.8 | 29.5 | 24.6 | 25.8 | 27.8 | 28.5 |
| | | | 67 | TGC | 32.7 | 34.4 | 37.3 | 38.4 | 31.6 | 33.2 | 36.0 | 37.0 |
| | | | | SHC | 24.7 | 26.1 | 28.0 | 28.9 | 23.9 | 25.2 | 27.0 | 27.9 |
| | | | 73 | TGC | 33.7 | 35.4 | 38.2 | 39.2 | 32.5 | 34.1 | 36.9 | 37.8 |
| | | | | SHC | 24.4 | 25.6 | 27.6 | 28.5 | 23.5 | 24.7 | 26.7 | 27.5 |
| | 105 | | 61 | TGC | 29.6 | 31.1 | 33.8 | 34.9 | 28.6 | 30.0 | 32.6 | 33.6 |
| | | | | SHC | 24.3 | 25.5 | 27.5 | 28.2 | 23.4 | 24.6 | 26.6 | 27.3 |
| | | | 67 | TGC | 30.5 | 32.0 | 34.6 | 35.7 | 29.4 | 30.9 | 33.4 | 34.4 |
| | | | | SHC | 24.0 | 25.2 | 27.2 | 28.0 | 23.1 | 24.3 | 26.3 | 27.0 |
| | | | 73 | TGC | 31.3 | 32.9 | 35.5 | 36.3 | 30.2 | 31.7 | 34.3 | 35.1 |
| | | | | SHC | 23.5 | 24.7 | 27.0 | 27.8 | 22.7 | 23.9 | 26.1 | 26.8 |
| | 115 | | 61 | TGC | 27.2 | 28.5 | 31.1 | 32.0 | 26.2 | 27.5 | 30.0 | 30.9 |
| | | | | SHC | 23.4 | 24.6 | 26.8 | 27.4 | 22.6 | 23.7 | 25.8 | 26.5 |
| | | | 67 | TGC | 28.0 | 35.1 | 31.9 | 32.9 | 27.0 | 33.9 | 30.8 | 31.8 |
| | | | | SHC | 23.1 | 23.6 | 25.9 | 26.9 | 22.3 | 22.8 | 25.0 | 26.0 |
| | | | 73 | TGC | 28.6 | 30.0 | 32.7 | 33.6 | 27.6 | 29.0 | 31.6 | 32.4 |
| | | | | SHC | 23.0 | 23.3 | 25.4 | 26.2 | 22.2 | 22.5 | 24.5 | 25.3 |

Notes: 1. All capacities are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat.
2. TGC=Total Gross Capacity. (Unit: MBtu/h).
3. SHC=Sensible Heat Capacity. (Unit: MBtu/h).
4. Different air volume in the above table,need to adjust in the field.

# MRC-48CWN1-V10

| | | Air Flow | CFM | 1500 | | | | 1200 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ent (DB) | | 75 | 80 | 85 | 90 | 75 | 80 | 85 | 90 |
| Ambient Temperature (°F) | Entering Wet Bulb( °F) | | | | | | | | | | |
| 75 | 61 | | TGC | 48.5 | 51.0 | 55.6 | 57.3 | 46.6 | 49.0 | 53.4 | 55.0 |
| | | | SHC | 34.2 | 35.9 | 38.8 | 39.9 | 32.9 | 34.6 | 37.3 | 38.4 |
| | 67 | | TGC | 50.2 | 52.7 | 56.9 | 58.5 | 48.2 | 50.6 | 54.6 | 56.2 |
| | | | SHC | 33.9 | 35.1 | 37.9 | 39.0 | 32.6 | 33.7 | 36.4 | 37.5 |
| | 73 | | TGC | 51.4 | 54.0 | 58.3 | 59.8 | 49.4 | 51.8 | 56.0 | 57.4 |
| | | | SHC | 33.5 | 34.4 | 37.0 | 38.1 | 32.2 | 33.1 | 35.6 | 36.6 |
| 85 | 61 | | TGC | 45.5 | 47.8 | 52.1 | 53.7 | 43.7 | 45.9 | 50.0 | 51.6 |
| | | | SHC | 32.5 | 34.1 | 36.9 | 37.8 | 31.3 | 32.8 | 35.5 | 36.4 |
| | 67 | | TGC | 46.9 | 49.3 | 53.2 | 54.8 | 45.1 | 47.4 | 51.1 | 52.7 |
| | | | SHC | 31.7 | 33.3 | 35.9 | 37.0 | 30.5 | 32.0 | 34.6 | 35.6 |
| | 73 | | TGC | 48.1 | 50.5 | 54.6 | 56.0 | 46.2 | 48.5 | 52.4 | 53.8 |
| | | | SHC | 30.7 | 32.3 | 35.2 | 36.2 | 29.5 | 31.1 | 33.8 | 34.8 |
| 95 | 61 | | TGC | 42.4 | 44.5 | 48.1 | 49.5 | 40.7 | 42.8 | 46.2 | 47.5 |
| | | | SHC | 30.7 | 32.2 | 34.8 | 35.7 | 29.5 | 31.0 | 33.5 | 34.3 |
| | 67 | | TGC | 43.6 | 45.8 | 49.6 | 51.1 | 41.9 | 44.0 | 47.7 | 49.1 |
| | | | SHC | 29.9 | 31.5 | 33.8 | 34.9 | 28.7 | 30.3 | 32.5 | 33.6 |
| | 73 | | TGC | 44.8 | 47.1 | 50.8 | 52.1 | 43.0 | 45.2 | 48.8 | 50.1 |
| | | | SHC | 29.4 | 30.9 | 33.4 | 34.4 | 28.3 | 29.7 | 32.1 | 33.1 |
| 105 | 61 | | TGC | 39.4 | 41.4 | 45.0 | 46.4 | 37.8 | 39.7 | 43.3 | 44.6 |
| | | | SHC | 29.3 | 30.8 | 33.2 | 34.1 | 28.2 | 29.6 | 32.0 | 32.8 |
| | 67 | | TGC | 40.6 | 42.7 | 46.0 | 47.5 | 39.0 | 41.0 | 44.2 | 45.6 |
| | | | SHC | 28.9 | 30.4 | 32.9 | 33.8 | 27.8 | 29.3 | 31.6 | 32.5 |
| | 73 | | TGC | 41.7 | 43.7 | 47.3 | 48.4 | 40.0 | 42.0 | 45.4 | 46.5 |
| | | | SHC | 28.4 | 29.9 | 32.6 | 33.5 | 27.3 | 28.7 | 31.3 | 32.2 |
| 115 | 61 | | TGC | 36.2 | 37.9 | 41.4 | 42.6 | 34.8 | 36.4 | 39.7 | 40.9 |
| | | | SHC | 28.2 | 29.6 | 32.3 | 33.1 | 27.1 | 28.5 | 31.1 | 31.8 |
| | 67 | | TGC | 37.3 | 46.7 | 42.5 | 43.8 | 35.8 | 44.9 | 40.8 | 42.1 |
| | | | SHC | 27.9 | 28.5 | 31.3 | 32.5 | 26.9 | 27.4 | 30.1 | 31.3 |
| | 73 | | TGC | 38.1 | 40.0 | 43.6 | 44.7 | 36.6 | 38.4 | 41.9 | 43.0 |
| | | | SHC | 27.8 | 28.1 | 30.6 | 31.6 | 26.7 | 27.1 | 29.5 | 30.4 |

Notes: 1. All capacities are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat.

2. TGC=Total Gross Capacity. (Unit: MBtu/h).

3. SHC=Sensible Heat Capacity. (Unit: MBtu/h).

4. Different air volume in the above table,need to adjust in the field.

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## MRC-60CWN1-V10

| Ambient Temperature (°F) | Entering Wet Bulb( °F) | Air Flow Ent (DB) | CFM | | | | |
|---|---|---|---|---|---|---|---|
| 75 | 61 | TGC | 60.5 | 63.6 | 69.3 | 71.4 |
| | | SHC | 41.3 | 43.4 | 46.8 | 48.1 |
| | 67 | TGC | 62.5 | 65.7 | 70.9 | 73.0 |
| | | SHC | 40.9 | 42.3 | 45.7 | 47.1 |
| | 73 | TGC | 64.1 | 67.3 | 72.7 | 74.5 |
| | | SHC | 40.4 | 41.5 | 44.7 | 45.9 |
| 85 | 61 | TGC | 56.7 | 59.6 | 64.9 | 66.9 |
| | | SHC | 39.2 | 41.2 | 44.5 | 45.6 |
| | 67 | TGC | 58.5 | 61.5 | 66.3 | 68.3 |
| | | SHC | 38.3 | 40.2 | 43.4 | 44.7 |
| | 73 | TGC | 60.0 | 63.0 | 68.0 | 69.8 |
| | | SHC | 37.1 | 39.0 | 42.4 | 43.7 |
| 95 | 61 | TGC | 52.8 | 55.5 | 60.0 | 61.7 |
| | | SHC | 37.1 | 38.9 | 42.0 | 43.0 |
| | 67 | TGC | 54.3 | 57.1 | 61.9 | 63.7 |
| | | SHC | 36.0 | 38.0 | 40.8 | 42.1 |
| | 73 | TGC | 55.9 | 58.7 | 63.4 | 65.0 |
| | | SHC | 35.5 | 37.2 | 40.2 | 41.5 |
| 105 | 61 | TGC | 49.1 | 51.6 | 56.1 | 57.9 |
| | | SHC | 35.3 | 37.1 | 40.1 | 41.1 |
| | 67 | TGC | 50.6 | 53.2 | 57.4 | 59.2 |
| | | SHC | 34.9 | 36.7 | 39.6 | 40.8 |
| | 73 | TGC | 52.0 | 54.5 | 58.9 | 60.3 |
| | | SHC | 34.3 | 36.0 | 39.3 | 40.4 |
| 115 | 61 | TGC | 45.1 | 47.3 | 51.6 | 53.1 |
| | | SHC | 34.0 | 35.8 | 39.0 | 39.9 |
| | 67 | TGC | 46.4 | 58.2 | 53.0 | 54.6 |
| | | SHC | 33.7 | 34.4 | 37.7 | 39.2 |
| | 73 | TGC | 47.5 | 49.9 | 54.3 | 55.8 |
| | | SHC | 33.5 | 33.9 | 37.0 | 38.1 |

## MRC-60CWN1-X10

| Ambient Temperature(°F) | Enteing Wet Bulb(°F) | Air Flow Ent(DB) | CFM | | | | |
|---|---|---|---|---|---|---|---|
| 75 | 61 | TGC | 60.4 | 63.5 | 69.2 | 71.3 |
| | | SHC | 41.2 | 43.2 | 46.7 | 48.0 |
| | 67 | TGC | 62.4 | 65.6 | 70.8 | 72.9 |
| | | SHC | 40.7 | 42.2 | 45.6 | 46.9 |
| | 73 | TGC | 64.0 | 67.2 | 72.6 | 74.4 |
| | | SHC | 40.3 | 41.4 | 44.5 | 45.8 |
| 85 | 61 | TGC | 56.6 | 59.5 | 64.8 | 66.8 |
| | | SHC | 39.1 | 41.1 | 44.4 | 45.5 |
| | 67 | TGC | 58.4 | 61.4 | 66.2 | 68.2 |
| | | SHC | 38.2 | 40.1 | 43.2 | 44.5 |
| | 73 | TGC | 59.9 | 62.9 | 67.9 | 69.6 |
| | | SHC | 37.0 | 38.8 | 42.3 | 43.6 |
| 95 | 61 | TGC | 52.7 | 55.4 | 59.9 | 61.6 |
| | | SHC | 37.0 | 38.8 | 41.9 | 42.9 |
| | 67 | TGC | 54.2 | 57.0 | 61.8 | 63.6 |
| | | SHC | 35.9 | 37.9 | 40.7 | 42.0 |
| | 73 | TGC | 55.8 | 58.6 | 63.3 | 64.9 |
| | | SHC | 35.4 | 37.1 | 40.1 | 41.3 |
| 105 | 61 | TGC | 49.0 | 51.5 | 56.1 | 57.8 |
| | | SHC | 35.2 | 37.0 | 40.0 | 41.0 |
| | 67 | TGC | 50.5 | 53.1 | 57.3 | 59.1 |
| | | SHC | 34.8 | 36.6 | 39.5 | 40.7 |
| | 73 | TGC | 51.9 | 54.4 | 58.8 | 60.2 |
| | | SHC | 34.2 | 35.9 | 39.2 | 40.3 |
| 115 | 61 | TGC | 45.0 | 47.2 | 51.5 | 53.0 |
| | | SHC | 33.9 | 35.7 | 38.8 | 39.8 |
| | 67 | TGC | 46.4 | 58.1 | 52.9 | 54.5 |
| | | SHC | 33.6 | 34.3 | 37.6 | 39.1 |
| | 73 | TGC | 47.4 | 49.8 | 54.2 | 55.7 |
| | | SHC | 33.4 | 33.9 | 36.9 | 38.0 |

Notes: 1. All capacities are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat.

2. TGC=Total Gross Capacity. (Unit: MBtu/h).

3. SHC=Sensible Heat Capacity. (Unit: MBtu/h).

4. Different air volume in the above table,need to adjust in the field.