

WATER COOLED CONDENSING UNITS
GENERAL SPECIFICATIONS OF WATER COOLED CONDENSING UNITS

| MODEL NUMBER | WCU010DZW | | WCU015DZW | | WCU020DZW | | WCU025DZW | | WCU030DZW | | WCU040DZW | | WCU050DZW | | WCU070DZW | |
|--|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Nominal Capacity (tons) ¹ | 10 | | 15 | | 20 | | 25 | | 30 | | 40 | | 50 | | 70 | |
| Refrigeration Circuits | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| Refrigerant Type | R407C | | R407C | | R407C | | R407C | | R407C | | R407C | | R407C | | R407C | |
| Refrigerant Charge (equipment only) ⁴ | 2.7 | | 4.1 | | 5.3 | | 6.8 | | 8.3 | | 10.6 | | 12.1 | | 17.0 | |
| Receiver Capacity (lbs) | 19 | | 19 | | 19 | | 19 | | 19 | | 19 | | 19 | | 19 | |
| COMPRESSOR | ZR61KCE | | ZR94KCE | | ZR125KCE | | ZR160KCE | | ZR190KCE | | ZR250KCE | | ZR300KCE | | ZR380KCE | |
| Type | Scroll | | Scroll | | Scroll | | Scroll | | Scroll | | Scroll | | Scroll | | Scroll | |
| Quantity | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| Weight (lbs) | 105 | | 150 | | 158 | | 165 | | 170 | | 370 | | 415 | | 445 | |
| Nominal Hp | 5.0 | | 8.0 | | 10.0 | | 13.0 | | 15.0 | | 20.0 | | 25.0 | | 30.0 | |
| Power (kW) | 3.8 | | 6.0 | | 8.0 | | 10.0 | | 12.4 | | 15.8 | | 19.1 | | 24.0 | |
| CONDENSER | B3-113-42-3.0 | | B3-113-62-3.0 | | B3-113-86-3.0 | | B3-113-108-3.0 | | B3-113-130-3.0 | | B3-113-166-3.0 | | B3-113-202-3.0 | | B3-210-130-3.0 | |
| Heat Exchanger (type) | Braze Plate | | Braze Plate | | Braze Plate | | Braze Plate | | Braze Plate | | Braze Plate | | Braze Plate | | Braze Plate | |
| Quantity | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| Weight (lbs) | 50 | | 67 | | 87 | | 105 | | 124 | | 154 | | 184 | | 258 | |
| Max. Working Refrigeration Pressure (PSI) | 435 | | 435 | | 435 | | 435 | | 435 | | 435 | | 435 | | 435 | |
| Max. Water Refrigeration Pressure (PSI) | 300 | | 300 | | 300 | | 300 | | 300 | | 300 | | 300 | | 300 | |
| Water Storage Volume (gal) | 0.89 | | 1.31 | | 1.81 | | 2.28 | | 2.74 | | 3.50 | | 4.26 | | 6.86 | |
| Water Storage Volume in 6" Headers (gal) | 6.00 | | 6.00 | | 6.00 | | 6.00 | | 6.00 | | 6.00 | | 6.00 | | 6.00 | |
| Flow Rate (GPM) | 26.8 | | 40.62 | | 57.3 | | 72.2 | | 87.0 | | 113.4 | | 137.0 | | 177.4 | |
| Water dP (PSI) | 2.4 | | 2.57 | | 2.72 | | 2.85 | | 2.98 | | 3.38 | | 3.69 | | 3.49 | |
| Header Water Connections (inch) ² | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| Interconnecting Refrigerant Piping ³ | 50' | 100' | 50' | 100' | 50' | 100' | 50' | 100' | 50' | 100' | 50' | 100' | 50' | 100' | 50' | 100' |
| Suction Line Size | 1 1/8 | 1 1/8 | 1 1/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 3/8 | 1 5/8 | 1 5/8 | 2 1/8 | 1 5/8 | 2 1/8 | 2 1/8 | 2 1/8 | 2 1/8 | 2 5/8 |
| Liquid Line Size | 5/8 | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 | 1 1/8 | 1 1/8 | 1 3/8 | 1 1/8 | 1 3/8 |
| DIMENSIONS (inch) | 48½ x 24½ x 60 | | 48½ x 24½ x 60 | | 48½ x 24½ x 60 | | 48½ x 24½ x 60 | | 48½ x 24½ x 60 | | 48½ x 24½ x 72 | | 48½ x 24½ x 72 | | 48½ x 24½ x 72 | |
| WEIGHT (lbs) ⁶ | 930 | | 1,030 | | 1,070 | | 1,100 | | 1,130 | | 1,560 | | 1,740 | | 1,910 | |

Notes:

1. Tonnage rating conditions: 85 °F entering condenser water temperature, flow rates are 3.0GPM per ton through the condenser with a fouling factor of 0.00025.
2. Main water header connections are Ø6"with grooved connections for SCH 40 steel pipe, recommended flow rates in 450 to 650 GPM.
3. Pipe sized based on 50' run length and 100' run length.
4. Field refrigerant charge: equipment charge + receiver charge + piping charge.
5. Condensing unit shipped with holding charge of nitrogen, will require field charging with freon.
6. Unit shipping weight includes refrigerant charge and packaging.