

AIR COOLED MODULAR CHILLERS
GENERAL SPECIFICATIONS OF AIR COOLED STANDARD MODELS

| MODEL NUMBER | V010TZW ⁴ | V010DZW ⁴ | V015TZW | V015DZW | V020TZW | V020DZW | V025DZW | V030DZW |
|--|----------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal Capacity (tons) ¹ | 10 | 10 | 15 | 15 | 20 | 20 | 25 | 30 |
| Refrigeration Circuits | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 |
| Refrigerant Type | R407C | R407C | R407C | R407C | R407C | R407C | R407C | R407C |
| COMPRESSOR | ZR61KCE | | ZR94KCE | | ZR125KCE | | ZR160KCE | ZR190KCE |
| Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Quantity | Tandem | 2 | Tandem | 2 | Tandem | 2 | 2 | 2 |
| Weight (each)(lbs) | 105 | 105 | 150 | 150 | 158 | 158 | 165 | 170 |
| Nominal HP (per compressor) (hp) | 5.0 | 5.0 | 8.0 | 8.0 | 10.0 | 10.0 | 13.0 | 15.0 |
| Power (kW) | 4.6 | 4.6 | 7.3 | 7.3 | 9.6 | 9.6 | 12.2 | 14.7 |
| EVAPORATOR | B3-113-22-3.0 | | B3-113-30-3.0 | | B3-113-42-3.0 | | B3-113-50-3.0 | B3-113-58-3.0 |
| Heat Exchanger (type) | Brazed Plate | Brazed Plate | Brazed Plate | Brazed Plate | Brazed Plate | Brazed Plate | Brazed Plate | Brazed Plate |
| Quantity | Dual | 1 | Dual | 1 | Dual | 1 | 1 | 1 |
| Weight (each) (lbs) | 33 | 33 | 40 | 40 | 50 | 50 | 57 | 63 |
| Max. Working Refrigeration Pressure (PSI) | 435 | 435 | 435 | 435 | 435 | 435 | 435 | 435 |
| Max. Working Water Pressure (PSI) | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Water Storage Volume (gal) | 0.46 | 0.46 | 0.63 | 0.63 | 0.89 | 0.89 | 1.06 | 1.22 |
| Water Storage Volume in 4" Headers (gal) | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 |
| Flow Rate (GPM) | 21.5 | 21.5 | 32.5 | 32.5 | 46.1 | 46.1 | 58.1 | 70.1 |
| Water dP (PSI) | 5.77 | 5.77 | 7.04 | 7.04 | 7.25 | 7.25 | 8.04 | 8.83 |
| Header Water Connections (inch) ² | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| CONDENSER COILS | | | | | | | | |
| Quantity | Dual | 1 | Dual | 1 | Dual | 1 | 2 | 2 |
| Max. Working Refrigeration Pressure (PSI) | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| Fin Material | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum |
| Tube Material | Copper | Copper | Copper | Copper | Copper | Copper | Copper | Copper |
| Tube Diameter (inch) | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| Number of Rows | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 |
| CONDENSER FANS | | | | | | | | |
| Fan Type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| Motor Type | Totally Enclosed | Totally Enclosed | Totally Enclosed | Totally Enclosed | Totally Enclosed | Totally Enclosed | Totally Enclosed | Totally Enclosed |
| Quantity | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| HP (hp) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow (CFM) | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 10,000 | 10,000 |
| Fan Speed (RPM) | 850 | 850 | 850 | 850 | 850 | 850 | 1140 | 1140 |
| DIMENSIONS (inch) | 84 x 34 ½ x 51 ½ | 84 x 34 ½ x 51 ½ | 84 x 34 ½ x 51 ½ | 84 x 34 ½ x 51 ½ | 84 x 34 ½ x 87 | 84 x 34 ½ x 87 | 84 x 34 ½ x 87 | 84 x 34 ½ x 87 |
| WEIGHT (lbs) | 1,500 | 1,500 | 1,600 | 1,600 | 2,020 | 2,020 | 2,040 | 2,170 |

Notes:

1. Tonnage rating conditions: 44 °F leaving chilled water temperature, 2.4 GPM per ton through the evaporator with a fouling factor of 0.0001, 95 °F entering condenser air temperature, 120°F condenser temperature.
2. Main water header connections are Ø4" with grooved connections for SCH 40 steel pipe, Ø6" available.
3. Unit shipping weight includes refrigerant charge and packaging.
4. TZW-Tandem Scrolls, DZW-Dual Scrolls chillers.