

Castle Chillers

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In modern manufacturing process, precise temperature control and a well balanced cooling system is now the answer to increasing productivity and lower production cost. For example: cooling time accounts for 80% or more of total plastics injection molding cycle time, the ability of chilled water to remove heat is one of the most important factors in the productivity and profitability of many plastic processing plants.

Excellent cooling capacity and durability - The top quality hermetic reciprocating compressor together with unique batch processing and best material enable a remarkable cooling capacity and outstanding durability. Minimum water temperature can be set to 3°C.

Precision temperature control - Water temperature can be precisely maintained within 3°C - 50°C.

Easy operation - Push button to start automatic operation.

Compact design - Compact styling requires little installation space. All chillers equipped with casters for ease of moving units.

Electrical control - All electrical components and switches are housed in one box panel as an integral part of the unit for easy control and maintenance.

Capacity regulator - Larger units are equipped with this feature to match compressor capacity to plant load to achieve the most economic operation.

Safety device - HP/LP pressure switch, low water level warning, water shortage warning, current overload indication and auto-cut ensure a safe operation.

Low energy consumption - High efficiency compressor with suitable



Water Cooled

Air Cooled

| | Specs | Water Cooled | | | | | | Air Cooled | | | | | | |
|----------------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | W-05N | W-08N | W-10N | W-15N | W-20N | W-24N | A-02N | A-05N | A-08N | A-10N | A-15N | A-20N | A-24N |
| Cooling Capacity | KCAL/h | 10272 | 12838 | 20620 | 25675 | 41030 | 51376 | 4670 | 9372 | 11700 | 18700 | 23370 | 37490 | 46860 |
| | BTU/h | 40762 | 50940 | 81816 | 101878 | 162480 | 203858 | 18526 | 37190 | 46500 | 74210 | 92735 | 148458 | 185570 |
| Chiller | Power KW | 3.4 | 4.5 | 6.75 | 9 | 13.5 | 17.2 | 2.1 | 3.7 | 4.9 | 7.25 | 9.5 | 14.7 | 19.2 |
| | Power A | 7.5 | 10 | 15 | 20 | 30 | 38 | 11 | 8.2 | 11 | 16 | 21 | 32.5 | 43 |
| Compressor | KW | 3 | 3.75 | 6 | 7.5 | 6x2 | 7.5x2 | 1.5 | 3 | 3.75 | 6 | 7.5 | 6x2 | 7.5x2 |
| | HP | 4 | 5 | 6 | 7 | 16 | 20 | 2 | 4 | 5 | 8 | 10 | 16 | 20 |
| | V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V | 3 Phase 415V |
| Tons of Ice | Ton/Hr | 3.4 | 4.2 | 6.8 | 8.5 | 13.5 | 17.0 | 1.5 | 3.0 | 3.9 | 6.2 | 7.7 | 12.3 | 15.5 |
| Pump Flow Rate | L/min | 20-90 | 50-250 | 50-250 | 250-600 | 250-600 | 1000 | 20-90 | 20-90 | 50-250 | 250-600 | 250-600 | 250-600 | 1000 |
| Pump Power | KW | 0.4 | 0.75 | 0.75 | 1.5 | 1.5 | 2.2 | 0.4 | 0.4 | 0.75 | 0.75 | 1.5 | 1.5 | 2.2 |
| Water Tank | L | 48 | 68 | 140 | 162 | 300 | 330 | 28 | 55 | 100 | 142 | 202 | 328 | 328 |
| Inlet Pipe Diameter | Inch | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | | | | | | | |
| Outlet Pipe Diameter | Inch | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | | | | | | | |
| Condenser Flow Rate | L/min | 45 | 60 | 90 | 120 | 200 | 250 | | | | | | | |
| Fan Power | KW | | | | | | | 0.15 | 0.48 | 0.45 | 0.93 | 0.92 | 1.86 | 1.65 |
| Fan Diameter | Inch | | | | | | | 12x2 | 14x2 | 16x2 | 18x2 | 20x2 | 22x2 | 28x2 |
| Unit Height | Mm | 890 | 1060 | 1400 | 1430 | 1475 | 1560 | 1305 | 1435 | 1485 | 1645 | 1735 | 1880 | 1880 |
| Unit Width | Mm | 510 | 550 | 580 | 580 | 800 | 800 | 570 | 570 | 620 | 700 | 750 | 850 | 1000 |
| Length | Mm | 800 | 850 | 1250 | 1335 | 1550 | 1650 | 850 | 920 | 1000 | 1420 | 1500 | 1900 | 1950 |
| Weight | Kg | 130 | 140 | 200 | 260 | 400 | 500 | 140 | 170 | 190 | 310 | 390 | 560 | 750 |
| Mold Lock Capacity | T | -300 | -450 | -600 | -850 | -1650 | -2200 | -50 | -300 | -450 | -600 | -850 | -1650 | -2200 |

Note: ONE Kcal = 3.927 Btu's One KW = 3411 Btu's