

UNIVERSAL[®]

CHILLING SYSTEMS

AIR COOLED GLYCOL CHILLER

Low Temperature Series

LTS-30HP

PHYSICAL DATA

| | | | |
|-----------------------------|-----------------------|-------|--|
| Cooling Capacity | kcal/h | | 30200 |
| | BTU/h | | 120100 |
| | Nominal Tonnage. | RT | 10 |
| | Outlet Water Temp. | °F | 5 |
| | Condensation Temp. | °F | 122 |
| Power Supply | | | 3PH-460V-60HZ |
| Max Amp | | A | 77 |
| Total Power Input | | HP | 52 |
| Power Supply Cable Diameter | | | AWG 4 |
| Safety Protection Device | | | Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection |
| Refrigerant | Type | | R404A |
| | Charge | Lbs | 33.1 |
| Compressor | Start Mode | | Direct start |
| | Type | | Scroll Type |
| | Qty | | 2 |
| | HP | | 15x2 |
| | RLA (Rated Load Amp) | | 23x2 |
| | LRA(Locked Rotor Amp) | | 187x2 |
| Fan | Qty | | 2 |
| | Type | | External Rotar Axial Fan |
| | Power | HP | 1.5x2 |
| | Current | A | 1.8x2 |
| | LRA | A | 10.8x2 |
| | Volume Air Flow | CFM | 17647 |
| Condenser | Type | | fin-tubed |
| | Subcooling | °F | 9 |
| | Heat Rejection | BTU/h | 212939 |
| Evaporator | Type | | plate |
| | Superheat | °F | 9 |
| | Heat Rejection | BTU/h | 120,119 |
| | Chilled Water Flow | GPM | 68 |
| | Water Pressure Drop | PSI | 7 |

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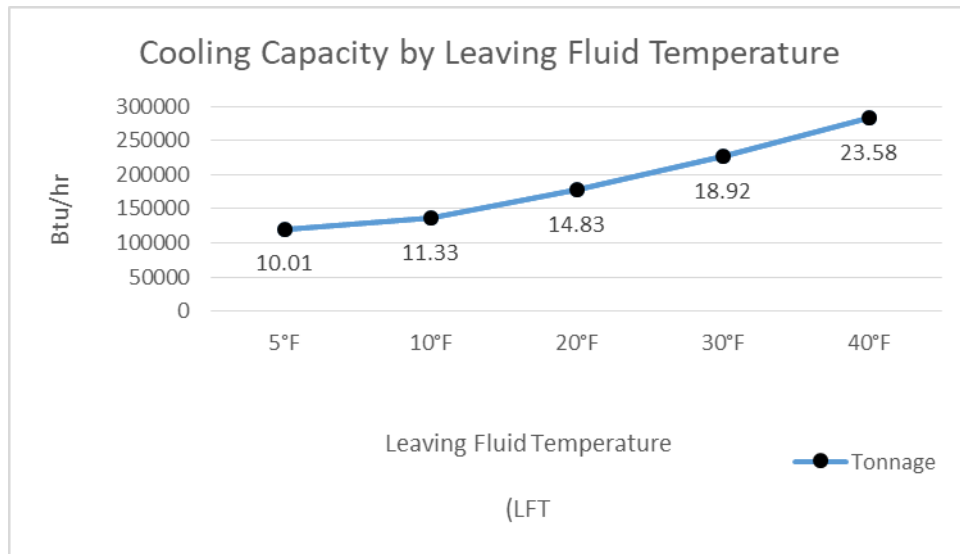
| | | | |
|---------------------------|--------------------------------|-------------|--------------------------|
| Energy Adjust Mode | | 100%-50%-0% | |
| Throttling Device | Mode | | thermal expansion valve |
| Pipe | Water Outlet | | MNPT 2" |
| | Water Inlet | | MNPT 2" |
| Water Pump | Flow | GPM | 68 |
| | Head | PSI | 72.5 |
| | LRA | A | 37.68 |
| | Power | HP | 5.3 |
| Water Tank | Capacity | GAL | 53 |
| Sound Pressure at 1 meter | DBA | | 75 |
| Programming Controller | Display | | LCD display |
| | Controller | | microcomputer controller |
| | Temp Control Range °F | | -4°F ~95°F |
| | Temp Control Accuracy °F | | ±3.6°F |
| Dimensions | inches (LxWxH) (For Reference) | | 107x44x91 |
| Weight | lbs (For Reference) | | 2,471 |

NOTES:

- 1 Cooling tons based on -15°C (5°F) chilled water outlet and 35°C (95°F) ambient air.
Chilled water work allowed temperature range: -20°C~35°C (-4°F ~95°F).
- 2 Chilled water in and out temperature difference: 3°C~8°C (5.4°F~14.4°F);
Allowed ambient temperature range: -20°C~40°C (-4°F~104°F).
- 3 Power supply: 3PH-460V-60HZ, Allowing the voltage fluctuate ±10%,
allow phase voltage difference ±2%, Allow the frequency range ±0.2Hz.

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Cooling Capacity by Leaving Fluid Temperature

| Model | LFT | Btu/H | kW | Tonnage |
|----------|------|--------|------|---------|
| LTS-30HP | 5°F | 120100 | 35.2 | 10.01 |
| | 10°F | 136000 | 40 | 11.33 |
| | 20°F | 178000 | 52.2 | 14.83 |
| | 30°F | 227000 | 66.4 | 18.92 |
| | 40°F | 283000 | 83 | 23.58 |

NOTE: All capacities at 95 °F ambient.

Third. Schematic Diagram

