

# UNIVERSAL<sup>®</sup>

## CHILLING SYSTEMS

### UCS-10AR3-B AIR COOLED PHYSICAL DATA

|                             |                       |                 |  |
|-----------------------------|-----------------------|-----------------|--|
| Cooling Capacity            | kcal/h                |                 | 30200  |
|                             | BTU/h                 |                 | 120000   |
|                             | Nominal Capacity      | RT              | 10   |
|                             | Outlet Water Temp.    | °F              | 50   |
|                             | Condensation Temp.    | °F              | 122  |
| Power Supply                |                       |                 | 3PH-460V-60HZ  |
| Max Amp                     |                       | A               | 25   |
| Total Power Input           |                       | HP              | 18   |
| Power Supply Cable Diameter |                       | mm <sup>2</sup> | AWG 11   |
| Safety Protection Device    |                       |                 | Overload, Inverse Phase, High/Low Pressure, Water Flow, Water Level & Anti-Freeze Protection |
| Refrigerant                 | Type                  |                 | R454B  |
|                             | Charge                | Lbs             | 8.8  |
| Compressor                  | Start Mode            |                 | Direct start   |
|                             | Type                  |                 | Scroll Type  |
|                             | Qty                   |                 | 1  |
|                             | HP                    |                 | 15   |
|                             | RLA (Rated Load Amp)  |                 | 21.4   |
|                             | LRA(Locked Rotor Amp) |                 | 147  |
| Fan                         | Qty                   |                 | 1  |
|                             | Type                  |                 | External Rotar Axial Fan   |
|                             | Power                 | HP              | 1.5x1  |
|                             | Current               | A               | 1.7x1  |
|                             | LRA                   | A               | 10x1   |
|                             | Volume Air Flow       | CFM             | 7059   |
| Condenser                   | Type                  |                 | MCHE   |
|                             | Subcooling            | °F              | 9  |
|                             | Heat Rejection        | BTU/h           | 158134   |
| Evaporator                  | Type                  |                 | SS304 Shell and Tubes  |
|                             | Superheat             | °F              | 9  |
|                             | Heat Rejection        | BTU/h           | 120,017  |
|                             | Cooled Water Flow     | GPM             | 26   |
|                             | Water Pressure Drop   | PSI             | ≤12  |
| Energy Adjust Mode          |                       |                 | 100%-0%  |
| Throttling Device           | Mode                  |                 | thermal expansion valve  |
| Pipe                        | Water Outlet          |                 | MNPT 2"  |
|                             | Water Inlet           |                 | MNPT 2"  |

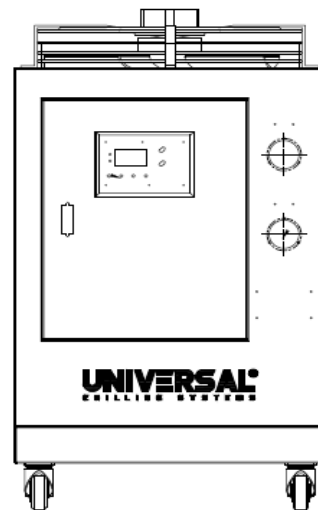
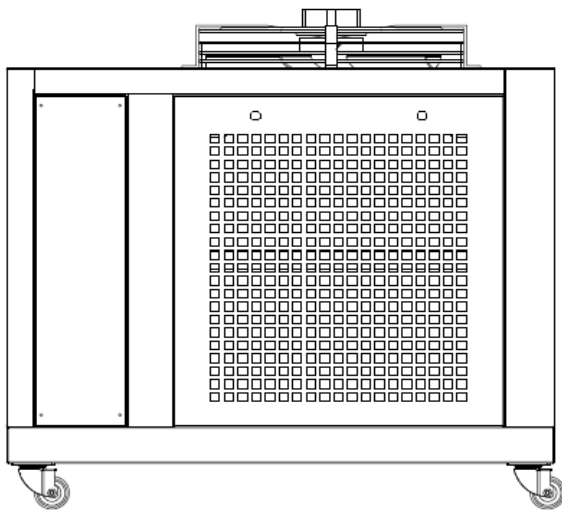
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|                           |                          |     |                          |
|---------------------------|--------------------------|-----|--------------------------|
| Water Pump                | Flow                     | GPM | 26.0                     |
|                           | Head                     | PSI | 49.3                     |
|                           | LRA                      | A   | 12.6                     |
|                           | Power                    | HP  | 1.50                     |
| Water Tank                | Capacity                 | GAL | 32                       |
| Sound Pressure at 1 meter | DBA                      |     | 72                       |
| Programming Controller    | Display                  |     | LCD display              |
|                           | Controller               |     | microcomputer controller |
|                           | Temp Control Range °F    |     | +41 ~+95                 |
|                           | Temp Control Accuracy °F |     | ±3.6                     |
| Dimensions                | inches (LxWxH)           |     | 59x37x67                 |
| Weight                    | lbs                      |     | 816(For Reference)       |

**NOTES:**

- 1 Cooling capacity based on 5°C(41°F) leaving coolant and 35°C(95°F) ambient air.  
Chilled water work allowed temperature range: 5°C~35°C (41°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).  
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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