FLUIDICS

It's All about Building a Better Product for Our Clients!

J&M Fluidics, Inc.
851 Tech Drive
Telford, PA 18969

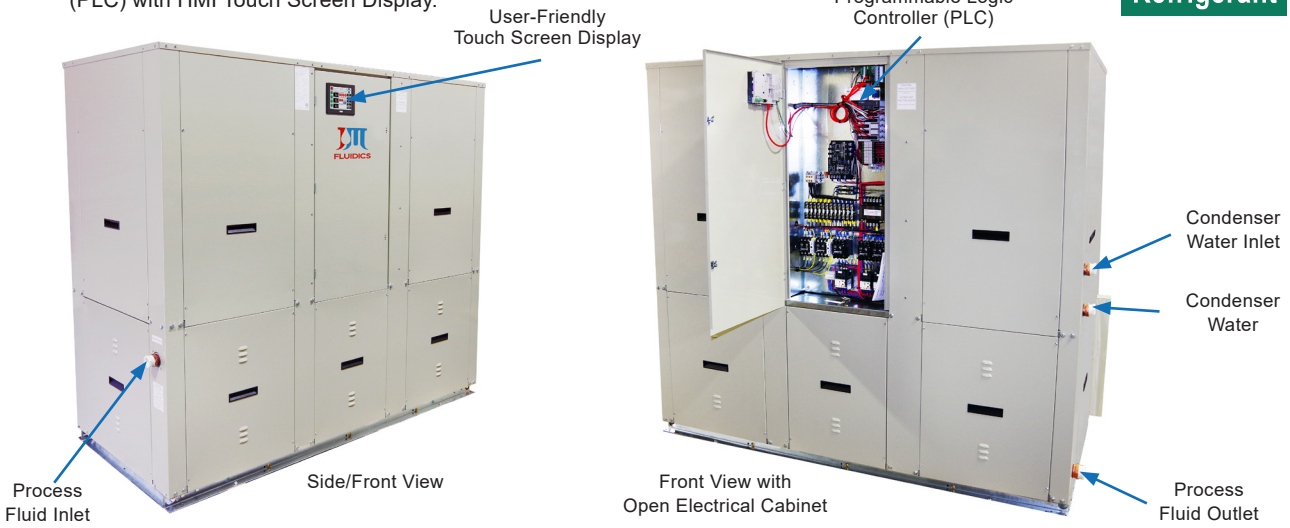
Toll-Free: (888) 539-1731
Fax: 267-203-8786

# Model: PZWT10S

## Packaged Water-Cooled 10 Ton Chiller *with* Stainless Steel Tank

**R454A Refrigerant**

**STANDARD ON ALL J&M MODELS:**
Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display.




## Standard Features:

- Conforms to UL 60335-2-40:2022 Ed.4
  UL 60335-1:2016 Ed.6
- CSA C22.2 # 60335-1:2016 Ed.2
- CSA C22.2 # 60335-2-40:2022 Ed.4
- Single Point Power Connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- STAINLESS STEEL, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction Accumulator
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- Water flow switch
- Hot Gas Bypass Capacity Control
- 24V control transformer
- Control circuit fusing
- Condenser(s): Coaxial up to PZWT21D
- Condenser(s): Shell and Tube on models larger than 21 ton
- Compressor motor contactor
- Painted - Powder Coated (Most Models), galvanized sheet metal cabinet
- 1/2" insulation on all water and refrigerant lines
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment

### Tank

- STAINLESS STEEL storage tank with 1/2 inch insulation
- Fused, STAINLESS STEEL re-circulation pump for tank operation with ball valve and cleanable strainer
- Tank pressure relief valve, vent and drain hose bibs

## Options:

- **VFD Compressor Control**
- **Copeland Digital Scroll Compressor**
- **Remote Idec touchscreen control panel**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Process Pump VFD Controller**
- 4 year extended compressor warranty
- Casters (factory mounted)
- Condenser water regulating valve
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and hi/lo voltage
- Compressor fusing
- Compressor Sound Cover
- Factory installed evaporator heat tape freeze protection
- Low flow by-pass valve
- Fused, STAINLESS STEEL process pump
- Dual system pump with manual changeover (some models)
- Dual system pump with auto changeover (some models)
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Auto city water changeover panel with filter
- Tank City Water Makeup
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI weather proof cover

### Tank Options

- Storage tank sight glass
- Tank low liquid level indicator with dry contacts

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**R454A Refrigerant**

C ETL US LISTED Intertek

## Product Dimensional Drawing

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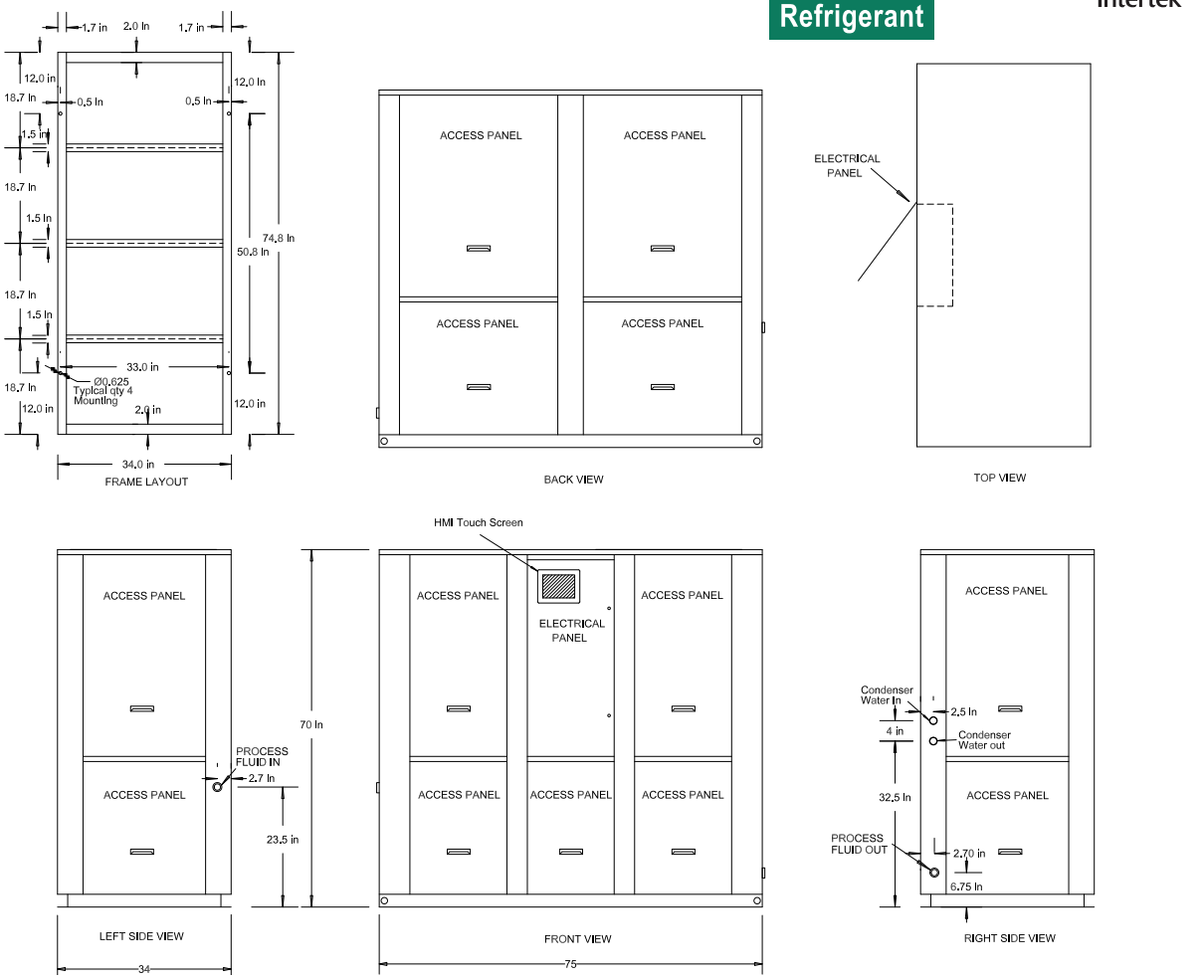


## Dimensional & Electrical Table (Single Circuit)

| Chiller Model | Nominal BTUH | Length Inches | Width Inches | Height Inches | Power | | | Compressor Qty. | RLA ea. | LRA ea. | Recirculation Pump FLA | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn | Weight Pounds |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Voltage | Phase | Freq. | | | | | | | | | |
| PZWT10SF7 | 120000 | 75 | 34 | 70 | 208/230 | 3 | 60 | 1 | 38.6 | 239 | 4.66 | 53 | 90 | 80 | 1.25 "FPT | 1050 |
| PZWT10SH7 | | | | | 460 | 3 | 60 | | 18.6 | 125 | 2.11 | 25 | 40 | | | |
| PZWT10SI7 | | | | | 575 | 3 | 60 | | 13.1 | 80 | 1.69 | 18 | 30 | | | |

## Capacity Table (Refrigerant R454A)

| Model | COMPRESSOR | COND(°F) | 105 | | |
|---|---|---|---|---|---|
| | | LWT (°F) | TONS | KW | EER |
| 10S | YB68KAE | 42 | 9.4 | 9.2 | 12.2 |
| | | 44 | 9.8 | 9.3 | 12.7 |
| | | 45 | 10.0 | 9.3 | 12.9 |
| | | 50 | 10.6 | 9.3 | 13.7 |

1. Capacities on this chart are based on refrigerant R454A. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.
2. KW input is for compressor(s) only.
3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.

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