HARDWARE SPECIFICATIONS

Input Power

• 88-125 VAC 47-63 Hz

Environmental

- Operating Temperature -20°F to 140°F (-29°C to 60°C)
- Storage Temperature -40°F to 185°F (-40°C to 70°C)

Display

• Size 10.1" Diagonal – Wide Form

- Dot Format 1280 x 800 WVGA LED
- Backlight
- Touchscreen 5-Wire Resistive

CPU

ARM Processor, Running Linux Туре •

Certifications

UL 508A, cUL Agency Approvals

Digital Output Modules

٠	Continuous Operating Current	3 Amps Maximum
•	Voltage	12 to 140 VAC

Digital Input Modules

• Voltage 90 to 140 VAC

Analog Inputs

0-5 VDC, 0-10 VDC, 4-20 mA, ICTD, RTD • Type

Analog Outputs

• Type 4-20 mA

Motor Current Sensor

4-20 mA Transmitter Technology

External Communications Ports

- Ethernet 10/100 Mb/s Protocol MODBUS TCP
- USB USB-2.0 Compliant

DESIGN SPECIFICATIONS

PUMP AND LIQUID LEVEL CONTROL

Refrigerant pump and liquid level control shall be furnished with a UL/cUL listed control panel in a NEMA-4 enclosure fully factory wired and tested which shall provide the following functionality:

- 1. Single point power connection with disconnect.
- 2. Starters for pumps.
- 3. Pump differential pressure monitoring and safety cutouts.
- 4. Independent high level compressor cutout float and circuit.
- 5. Liquid level control, monitoring and alarming.
- 6. Ability to detect low pump flow and automatically open minimum flow bypass valve(s)
- 7. Automatically energize the other pump in the event one fails.
- 8. Read 4-20 mA signal from level probe and provides digital readout on panel.
- 9. Automatically controls (up to two) proportional liquid feed valve(s).
- 10. Utilize MODBUS over RS-485 or Ethernet to communicate with Refrigeration Control System.

Control shall be the Matrix II Microprocessor™ Control Panel as manufactured by Refrigeration Valves & Systems Corporation or approved equal.