

## 3.0 INSTALLATION

### 3.3.4 Installation Of Driers Or Sight Glass

- 1.) Break vacuum with Nitrogen.
- 2.) When permanently brazed drier or sight glass is used, open one valve on system to atmosphere while maintaining slight Nitrogen flow.
- 3.) When flare connected drier or sight glass is used, use similar procedure as under 2. However, no valve need to be left open to atmosphere.
- 4.) When replaceable dryer core is used follow procedure as under 3. Insert drier core(s). Tighten cap screws.
- 5.) Re-evacuate system to 1 mm Hg absolute.

### 3.3.5 Charging

- 1.) Connect refrigerant cylinder through charging connection to charging valve.
- 2.) Loosen flare nut on other end of charging connection and blow air out with refrigerant. Tighten flare nut on charging connection.
- 3.) Weight refrigerant cylinder.
- 4.) Open charging valve and charge in refrigerant vapor through suction access valve until about 150 psig. Switch to liquid line access valve and charge in liquid refrigerant. Don't charge into the suction or discharge service port. Continue charging with liquid refrigerant until clear glass is observed.
- 5.) Shut off refrigerant charging valve but keep connected. Check charging valve flare nut for leak. Check and record down discharge and suction pressure. If more than one system to be charged, follow procedure under 1 through 4 one after each system. After all the systems have been done up to step 4, proceed with 5 and 6.
- 6.) Shut off the system (compressor, fans, pumps) and leave for 24 hours.

## 3.4 ELECTRICAL CONNECTION

In connecting power wiring to the unit, the following precautions should be taken:

- 1.) All field wiring is to be in accordance with local codes and regulations.
- 2.) Check unit wiring for damage and all terminal connections for tightness. Unit terminal blocks are to be connected with copper conductors only, sized per ampere listed on unit data plate.
- 3.) Connections to unit should match the unit nameplate in volts, phase, and hertz. Voltage must not vary beyond +/- 10% of nameplate value and voltage imbalance between phases must not exceed 2% at any time during operation of unit.
- 4.) Phase sequence to connections L1 L2 L3 shall be in that order.
- 5.) Controls which are to be field installed should be connected in accordance with the appropriate wiring diagram accompanying the unit.

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Figure 3.4 : Control Panel Diagram

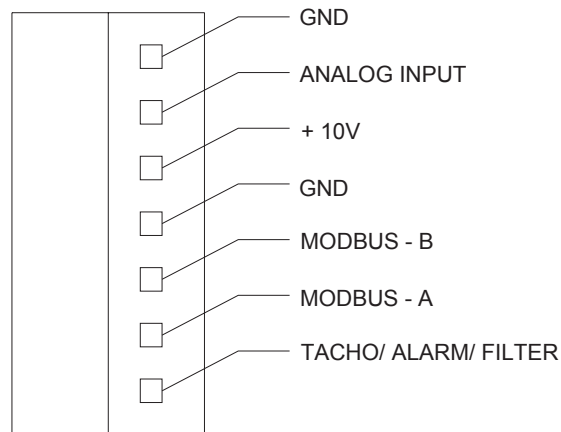
## CONTROL INTERFACE

Available: 0-10V

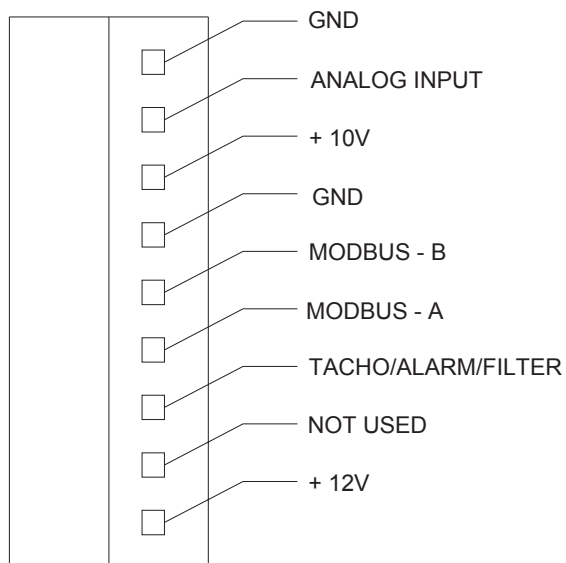
PWM Signal

Modbus RTU

DD-FD 800, 1200, 1600, 2000, 4000



DD-FD 3000



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## 3.5 OPERATION

For DD Direct Expansion Units / Chilled Water Units

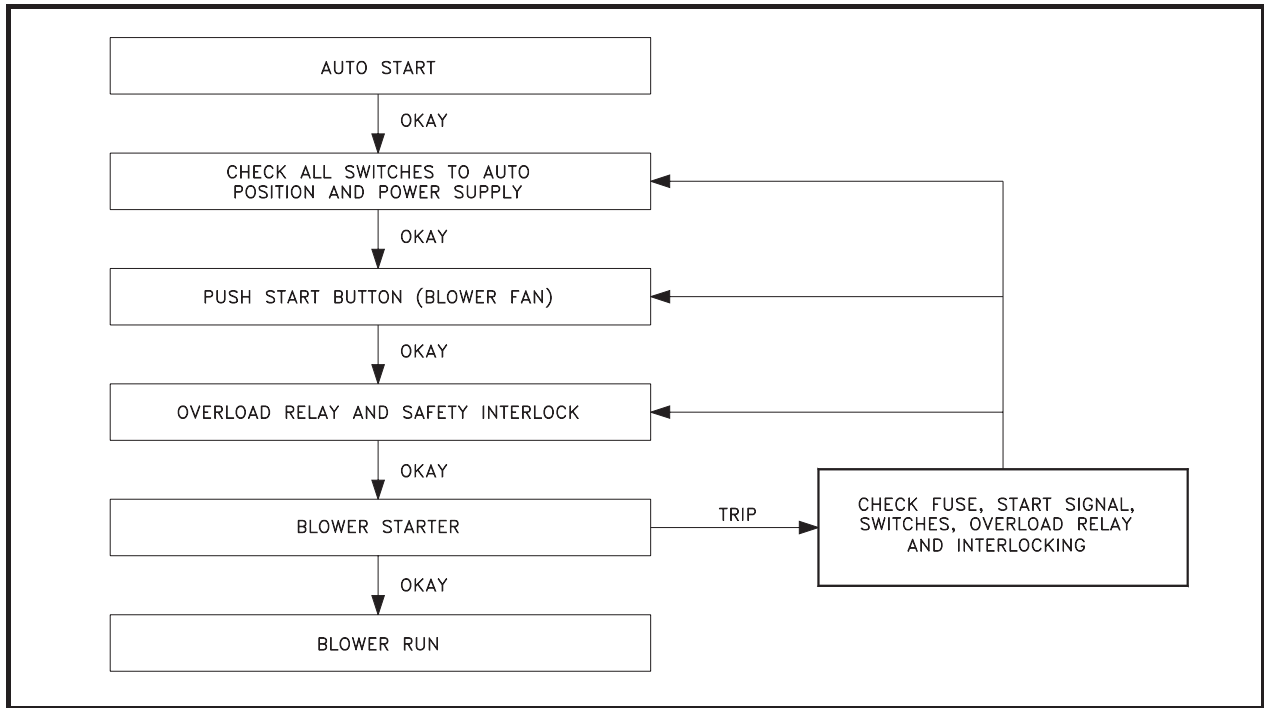


Figure 3 Typical American Pro's Unit Installation

