

### Heat Exchanger Installation Information



#### **DESCRIPTION:**

Heat Exchanger (oil to air) with dual fan. For use with B-130, B-160, and B-180 housings.

Note: "A" designates 90° hose fittings.

#### **PERFORMANCE:**

4 kW with 50° Delta T (324,000 HU per minute). Refer to cooling chart for other Delta T ratings.

#### **HOSE LENGTH:**

30 inches (76 cm) minimum 40 feet (12.2 meters) maximum

#### **POWER REQUIREMENTS:**

HE-580 110 - 120 Vac 50/60 Hz 2.0 Amps HE-581 220 - 230 Vac 50/60 Hz 1.1 Amps

#### **FAIL SAFE DEVICES:**

Flow Switch - normally open contacts. Contacts closed with adequate oil flow

#### **WEIGHT:**

36 Pounds (16.5 kg)

#### **MOUNTING:**

Select mounting location where ambient temperature is low. Connect power cord to source that is energized whenever x-ray tube with heat exchanger is selected. Connect flow switch and thermal switch on housing in series with existing exposure interlocks.

# CONNECTING OIL LINES WITH QUICK DISCONNECT FITTINGS:

To prevent air in housing from oil line quick disconnect fittings observe the following procedures.

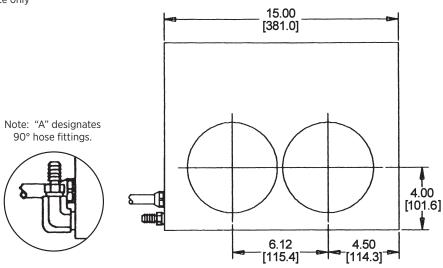
- A. Do not order quick disconnects fittings unless absolutely necessary.
- B. Do not put side pressure on fittings from tie wrapping to cable bundles or coiling in tight circles.
- C. Do not run heat exchanger with fittings disconnected.
- D. **Always** return heat exchanger with x-ray tube regardless of reason for return.

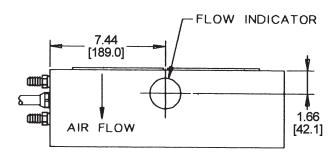


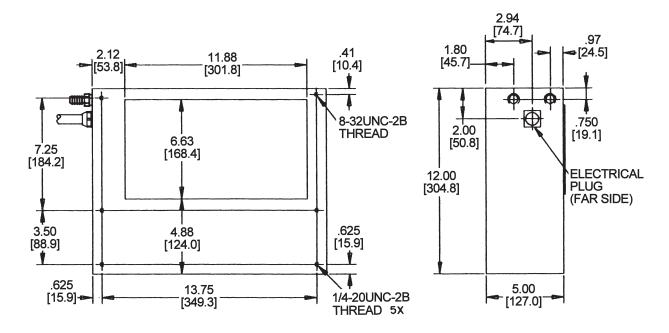
Heat Exchanger

## **Outline Drawing**

Dimensions are for reference only



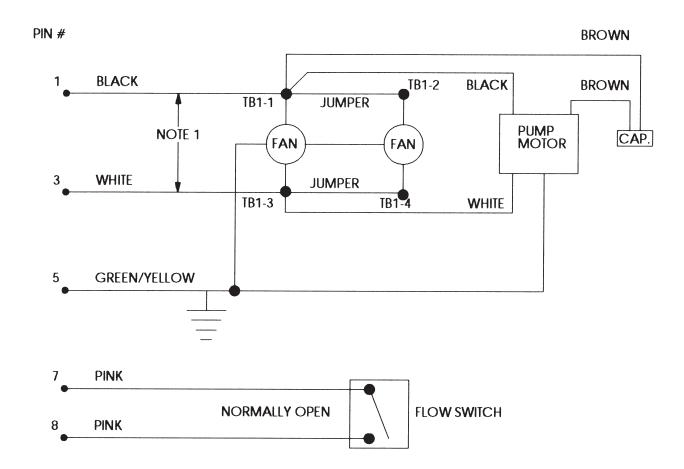






Heat Exchanger

## **Wiring Diagram**



#### Note:

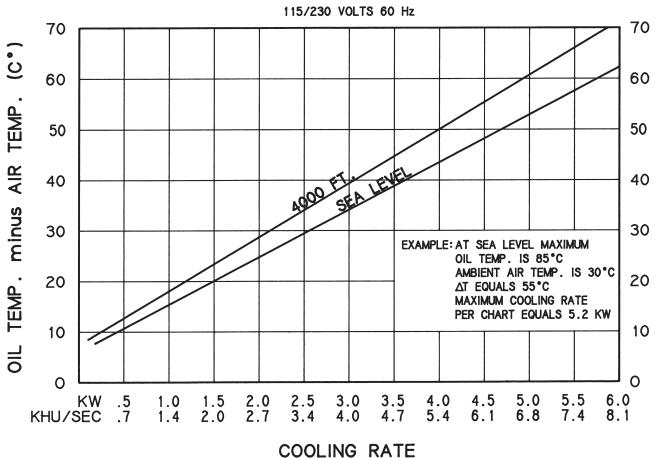
HE-580 - 120 VAC HE-581 - 220 VAC



Heat Exchanger

## HE-580/581

OIL-AIR (ΔT) vs. COOLING RATE





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