

HE-103

DESCRIPTION:

HE-103 Heat Exchanger (oil to air) for use with subsystem. Oil pump is quiet centrifugal type.

PERFORMANCE:

1130 W with 50° delta T (91.5 kHU/minute). Refer to cooling chart for other delta T ratings.

The HE-103 provides less than 54 db of noise level. The pump noise has been reduced so that the 100 CFM fan is the only source of noise.

HOSE LENGTH:

16.4 inches standard (5 meters). Quote desired length when ordering.

POWER REQUIREMENTS:

HE-103 220-230 VAC 50/60 Hz 1.5 Amps

FAIL SAFE DEVICE:

Thermal Switch - Located inside heat exchanger, normally closed contacts. Open at 70°C. (Thermal switch is mounted on manifold.)

Flow Switch - Located inside heat exchanger, normally open contacts. Close at 0.50 GPM. (Flow switch is in-line with internal hoses.)

DIMENSIONS:

Width 10.22 inches (260 mm)
 Length 16.56 inches (421 mm)
 Height 6.01 inches (153 mm)

WEIGHT:

25 Pounds (11.34 kg)

MOUNTING:

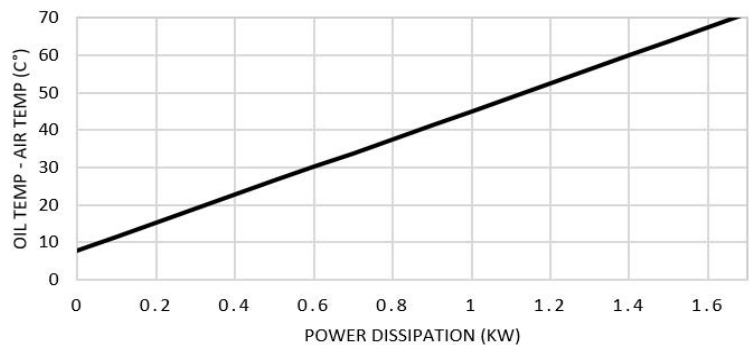
- A. Select mounting location where ambient temperature is low. Heat exchanger should be mounted so that hoses are not subject to stress, such as stretching, pinching or kinking.
- B. Heat exchanger is provided with threaded holes (M6) in base. Mounting surface should have 4 mounting holes and access for installation of heat exchanger mounting screws. Use 4 (M6) lockwashers and 4 (M6) screws to mount heat exchanger. Screw length must be equal to thickness of mounting surface plus ≥ 8 -mm.
- C. Connect power cord to power source appropriate to heat exchanger (see power requirements). Source must be one that is energized whenever x-ray tube with heat exchanger is selected.
- D. Connect two signal wires from thermal and flow switches to generator interlocks.

CONNECTING OIL LINES WITH QUICK DISCONNECT FITTINGS:

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

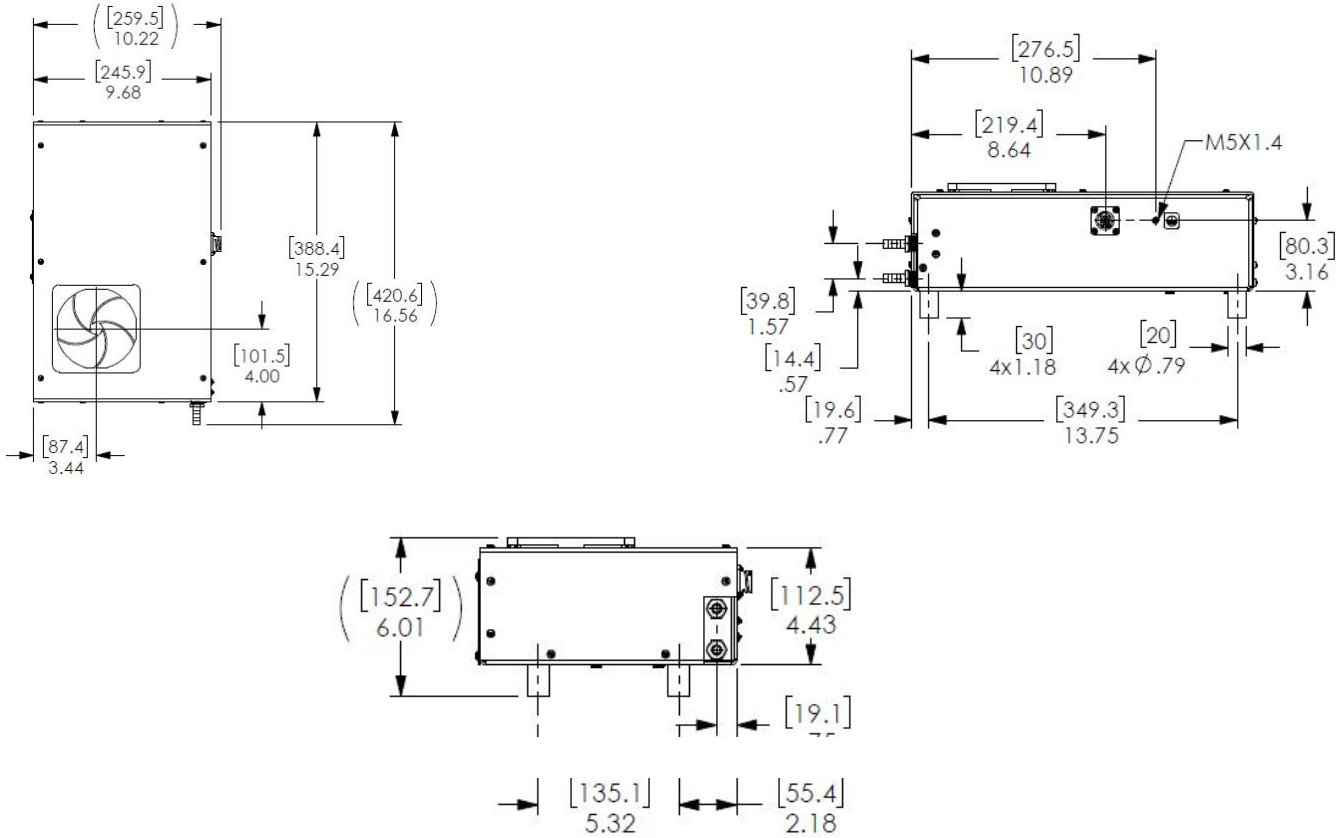
- A. Do not apply any side pressure on fittings such as from tie-wrapping to cable bundles or looping in tight circle.
- B. Dress heat exchanger hoses so that no kinking, pinching or pressure is exerted on them during any movements of the housing.
- C. Never run heat exchanger with fittings disconnected.

**HE-103 COOLING CHARACTERISTICS
 POWER DISSIPATION VS OIL TEMP - AIR TEMP**



Outline Drawing

Dimensions are for reference only



Wiring Diagram

