



APPLICATION NOTE

APP #059A (8-6-18)

Revision History

Date	Author	Description
03-29-10	JGW	Created Application Note
04-17-18	DEW	Change Format
08-06-18	DEW	Modify installation to horizontal position

Installing a MCS-T100 Temperature Sensor Location on SUCTION SIDE

Any questions regarding this release, contact: support@mcscontrols.com

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General Concept

Install temperature sensor to achieve rapid temperature changes and allow system to calculate suction and discharge superheat quickly and correctly.

NOTE: When installing to measure superheat:



1. Temperature Sensor should be on a horizontal pipe close to the evaporator.
2. Pressure Sensor should be installed close to the compressor.

Tube Installation

LOCATION OF TUBE & SENSOR on SUCTION SIDE

For accurate readings, install tube at 3:00 or 9:00 with opening slightly angled up on horizontal pipe.

Step 1:

- Select section of pipe where you want to mount MCS-Tube.
- Sand pipe to get good clean surface for mounting.



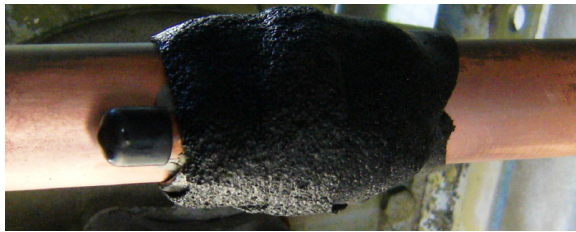
Step 2:

- Cut MCS-EPOXY into 3 pieces.
- Mix 1 piece of epoxy.
- Roll Epoxy into length about same as Tube.
- Holding Tube on pipe place rolled epoxy next to tube.
- Next squeeze epoxy around & over tube (about 1/4 to 1/2" back from opening cap).



Step 3:

- After epoxy has hardened (about 20 to 30 minutes) insulate tube. Start just below plastic cap and wrap down and then back up. This provides a double layer of insulation thus eliminating outside effects on temperature.



Step 4:

- Remove plastic cap
- Insert Temperature sensor until it is completely inserted.
- Bring sensor cable down over tube insulation and tie wrap to insulation.

You now have an insulated tube with transfer paste inside the tube. You have also created a strain relief and tied the cable so it.

