

JTL INSTALLATION GUIDANCE NOTES FOR INSTALLATION OF THE SUCCEEDS SUPERHEAT SENSING COMPONENTS

JTL SUCCEEDS Evaporator Controllers use a suction pressure transducer and a suction temperature sensor to compute the evaporator exit superheat.

The pressure transducer should not be placed in the refrigerated area as it can become encapsulated in a ball of ice which causes mechanical stresses which ultimately damage it.

JTL therefore are recommending the fitting of these devices outside, and thermally insulated from, the refrigerated area.

For the transducer it is recommended that polyamide capillary piping is used between it and a refrigerant access port on the exit of the evaporator.

The temperature sensor should be a JTL TP501-70A or TP1000-70 as appropriate. It should be fixed to the suction pipe wall just after the pressure transducer take-off. Silicone paste should be used to give good heat conduction between the pipe and the sensor. Heat insulation should be placed over the sensor to minimise the effect of ambient temperature variation.

The tension of the fixing method should not be too tight. This is to avoid the sensor being compressed excessively where temperature changes occur in the suction pipe.

Suitable connections for the transducer are available from JTL Systems Ltd.

Where this cannot be used, an alternative method is to use a suitable length of ¼" copper pipe (minimum 250 mm in length) between the suction pipe and a refrigerant access port, to which the transducer is directly connected.