Pro-Set® CPS®

Open Shell Stainless Steel Coiled Heat Exchanger Installation Manual

The Pro-Set MT69SS is a submersible stainless steel coiled tube heat exchanger. MT69SS can be used as either a condenser or a sub-cooler to significantly reduce temperature and pressure from recovered refrigerant or condensable gases in a permanently installed recovery system. The stainless steel tube construction allows the device to be used where contaminants are of concern.

As the ambient temperature increases, the pressure in the recovery cylinder increases, significantly reducing the recovery speed and in many cases can lead to a high pressure shutdown as the recovery equipment and tank pressure limits are reached. The MT69SS dramatically improves recovery speed and high ambient temperature performance on all commercially available major brand recovery machines also extending the life of the equipment.

Please refer to the diagram for details on operating the MT69SS.

GENERAL SAFETY INSTRUCTIONS

Please read, follow and understand the contents of this entire manual, with special attention given to Danger, Warning and Caution statements.

FOR USE BY PROFESSIONALLY TRAINED AND CERTIFIED OPERATORS ONLY. MOST STATES, COUNTRIES, ETC., MAY REQUIRE USER TO BE LICENSED. PLEASE CHECK WITH YOUR LOCAL GOVERNMENT AGENCY.

DANGER: Overfilling a recovery tank may cause a violent rupture resulting in severe injury or even death. **As a minimum, please use a scale to continuously monitor recovery tank weight.**

WARNING: All components in this system contain liquid refrigerant under pressure. Contact with refrigerant may cause frostbite or other related injuries. Wear proper personal protective equipment such as safety goggles and gloves. When disconnecting any hose, please use extreme caution as high pressure refrigerant may be present.

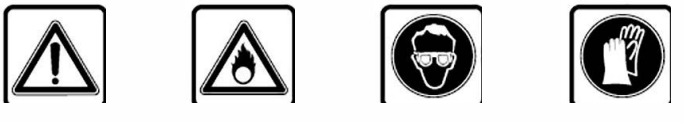
WARNING: Avoid breathing refrigerant vapors and lubricant vapor or mist. Breathing high concentration levels may cause heart arrhythmia, loss of consciousness, or even cause suffocation. Exposure may irritate eyes, nose, throat and skin. Please read manufacturer's Material Safety Data Sheet for further safety information on refrigerants and lubricants.

WARNING: Make certain all safety devices are functioning properly before operating equipment.

CAUTION: To avoid cross contamination of refrigerant and potential leakage to the atmosphere, proper hoses and fittings should be used and checked for damage.

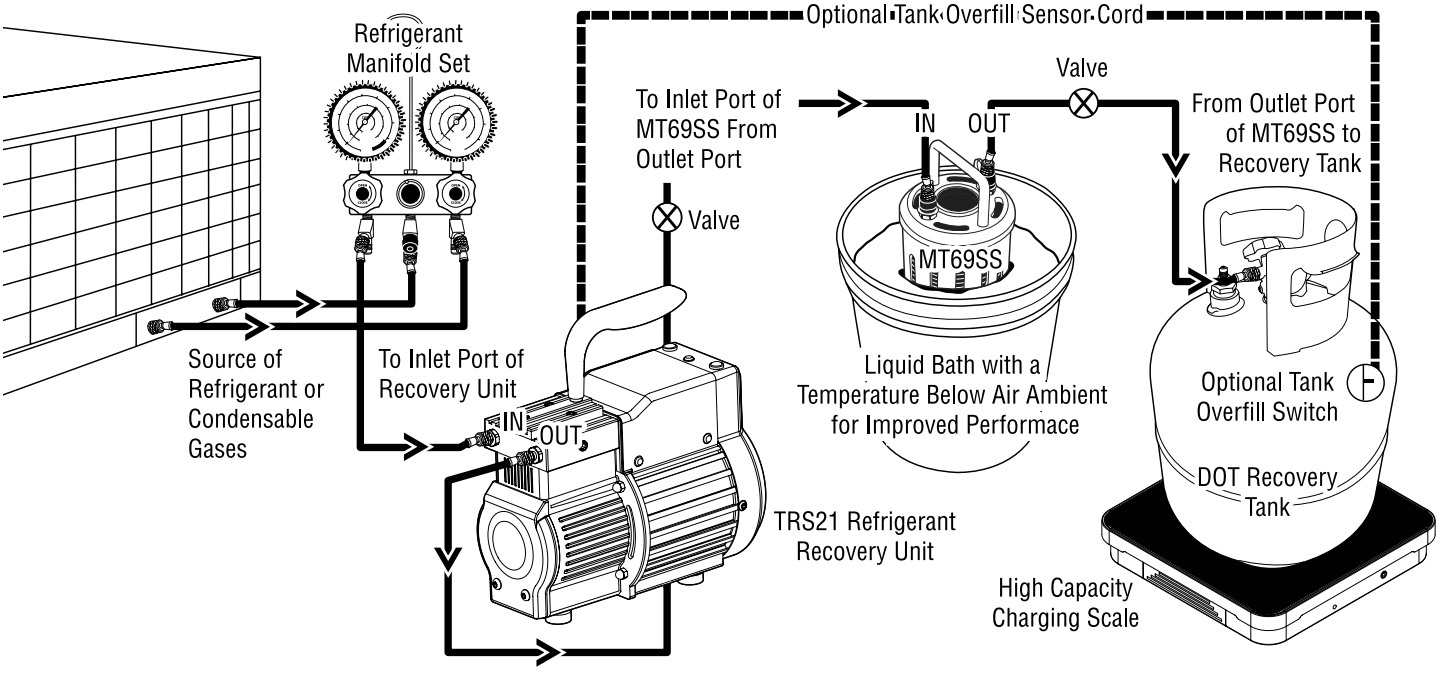
CAUTION: To avoid overfilling refrigerant tank, read and follow manufacturer's recommended filling instructions for refrigerant being recovered.

CAUTION: Mixing of different refrigerants will cause your recovered supply of refrigerant to become contaminated.



CONDENSER/SUB-COOLER OPERATION

1. Connect the DISCHARGE of the compressor or recovery machine to the MT69SS IN fitting.
2. Connect the OUT fitting of the MT69SS to a storage tank.
3. Once the connections are proven to be leak free, immerse the MT69SS in a container of cold water (**ice water for maximum performance**). The water container can be a fixed amount. But the water temperature will rise as the refrigerant recovery process progresses.



SPECIFICATIONS

Inlet/Outlet Port	1/4 SAE 45D Flare Fittings, 304SS
Heat Exchanger	Equivalent of 18' of 1/4 OD 304SS Tubing
Maximum Working Pressure	800 PSIG
Burst Pressure	4000 PSIG
Housing	Clear Anodized T6061 Aluminum Vented Shell with Painted Die Cast Aluminum End Plates