Subject: Adding Refrigerant to Remote Refrigeration Systems

SYMPTOMS
Low refrigerant charge is detected immediately following installation or anytime after, low refrigerant pressure, or no ice bank (on applicable units).

SCOPE
Multiplex refrigeration units - model numbers beginning with SS, SO, TS, & TO using remote condensers.

ACTION
1. Repair any damages before proceeding. Multiplex has a standard practice and policy for maintaining properly operating equipment. If a low charge is verified, identify any leaks, repair them, and replace the drier.

2. With all leaks repaired and the remote condenser lines properly hooked and sealed to the condenser, evacuate to 250 microns for 1 hour through 3 point evacuation using both Schrader ports on the service line set behind the refrigeration unit.

NOTE: You must activate the liquid line solenoid if TS or TO Series.

3. For units with model numbers beginning with SSxxxxxx, charge the condenser and line set as described here. Add 0.72 oz/ft (0.067 kg/m) of remote line set (one way run distance) plus condenser name plate charge, plus the refrigeration unit charge.

   Example: 45 ft of line set
   45 x 0.72 oz = 32.4 oz
   32.4 oz + condenser charge + Refrigeration Unit Charge = Total charge

4. Recharging line sets and condensers connected to refrigeration model numbers TSxxxxxx. Charge according to the nameplate charge on the refrigeration unit. That is enough refrigerant for up to 100 feet of remote line set plus the Multiplex condenser.

   NOTE: If you have a MAC Multi-Pass condenser please add three pounds additional charge.

   NOTE: When the connections are made, the seal in the couplings are broken and if removed for any reason, the refrigerant charge will be lost.

   Caution
   Relays and terminal block are energized from each remote unit. Turn “off” switches on each unit before opening quick disconnect switch on condensing unit. On the completion of the wiring of the remote condenser make sure the electrician placed the switch lever in the “on” position. This switch must be “on” before turning “on” the refrigeration toggle switch on the unit. Also, the water bath must be filled with water.

FURTHER ACTIONS
• Contact Foodservice Service Sellersburg Indiana if you have any questions or concerns: 800-367-4233.