

SECTION 232316 - REFRIGERATION SPECIALTIES

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Liquid indicators.
- B. Air Dryers.
- C. Piping installation.

1.2 REGULATORY REQUIREMENTS

- A. Comply with applicable regulations and mechanical refrigeration codes.
- B. Submit manufacturer's installation instructions under provisions of Section 013300.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Sporlan.
- B. Henry.
- C. Alco.
- D. Substitutions: Under provisions of Section 012500.

2.2 LIQUID INDICATORS

- A. Double port type with copper or brass body, and flared or solder ends.
- B. Provide removable seal caps on each port for inspection of refrigerant condition.
- C. Provide full size liquid indicators in main liquid line leaving condenser. If receiver is used, install in liquid line leaving receiver

2.3 FILTER DRIERS

- A. Angle type, with brass shell and using combined straining and drying material.
- B. Employ replaceable desiccant material.
- C. Acceptable in lieu of separate strainers and driers.
- D. Provide three-valve by-pass assembly.

2.4 CHARGING VALVES

- A. General purpose type with brass body, flared or soldered ends, and removable valve core.
- B. Provide valve inlet with quick coupling connection for ease of charging.
- C. Provide refrigerant charging connections on inlet and outlet to compressor.

2.5 FILTER DRIERS

- A. Angle type with brass shell and wiring straining and drying material.
- B. Employ replaceable desiccant material.
- C. Provide three valve bypass assembly.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install refrigeration specialties in accordance with manufacturer's instructions and ASHRAE 15. Provide gate valves at inlet and outlet connections to condensing unit.

3.2 PIPING

- A. Upon completion of installation of the air conditioning equipment, test all factory as well as field refrigerant piping with an electronic type leak detector to acquire a leak-tight refrigerant system. If leaks are detected at the time of installation or during the guarantee period, remove the entire refrigerant charge from the system, correct the leaks and retest the system.
- B. After system is found to be without leaks, evacuate the system using a reliable gauge and a vacuum pump capable of pulling a vacuum of at least 1 mm Hg absolute. Evacuate system in strict accordance with the triple-evacuation and blotter method or in strict accordance with equipment manufacturer's printed instructions. Hold vacuum for twenty four hours. System leak testing, evacuation, dehydration, and charging with refrigerant shall comply with ARI standard 260.

3.3 FILTER-DRIERS

- A. Install with bypass assembly to permit isolation for servicing.

3.4 EXPANSION VALVES

- A. Locate expansion valve sensing bulb immediately after evaporator outlet on suction line.

END OF SECTION 232316