



PROCESS
INDUSTRY
PRACTICES

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Machinery

**PIP RESR001
Packaged, Skid-Mounted Industrial
Process Refrigeration Systems Specification**

PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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1. Scope

This Practice describes the minimum requirements for the performance, design, fabrication, testing, inspection, and preparation for shipment of packaged, skid-mounted industrial process refrigeration systems. This Practice is not intended to cover commercial or absorption chiller systems.

2. References

Applicable parts of the following Practices, industry codes and standards, and government regulations shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)

- PIP CTCE1000 - *External Coating System Selection Criteria*
- PIP CTSE1000 - *Application of External Coatings*
- PIP ELSMT01 - *AC Squirrel Cage Induction Motors (4000 Volts and Below)*
- PIP ELSMT01G - *IEC AC Squirrel Cage Induction Motors (1000 Volts and Below)*
- PIP ELSPS01 - *Electrical Requirements for Packaged Equipment*
- PIP ELSPS01D - *Data Sheet for Electrical Requirements for Packaged Equipment*
- PIP ELSPS01V - *Electrical Requirements for Packaged Equipment – Preferred Vendor and Component List*
- PIP INIC1000 - *Cold Insulation Installation Details*
- PIP PCDPS001 - *Packaged Equipment Instrumentation Documentation Requirements Data Sheet and Instructions*
- PIP PCERE001 - *Rotating Equipment Monitoring Guidelines*
- PIP PCSPS001 - *Packaged Equipment Instrumentation Specification*
- PIP PCSPS010 - *Small, General Purpose Packaged Equipment Instrumentation Specification*
- PIP REEE003 - *Guidelines for General Purpose Non-lubricated Flexible Couplings*
- PIP REIE686 - *Recommended Practice for Machinery Installation and Installation Design, Second Edition*
- PIP STF05501 - *Fixed Ladders and Cages Details*
- PIP VECV1001 - *Design Criteria and Purchasing Requirements for Vessels ASME Code Section VIII, Divisions 1 and 2*
- PIP VEDST003 - *Documentation Requirements for Shell and Tube Heat Exchangers ASME Code Section VIII, Divisions 1 and 2*
- PIP VEFV1100 - *Vessel/S&T Heat Exchanger Standard Details (US Customary Units)*
- PIP VESSM001 - *Specification for Small Pressure Vessels and Heat Exchangers with Limited Design Conditions*
- PIP VESV1002 - *Design and Fabrication Specification for Vessels ASME Code Section VIII, Divisions 1 and 2*