



BY JOHNSON CONTROLS

PMT Teams with Johnson Controls to Provide Qualified YORK® Brand Chillers

Preferred Metal Technologies of Burr Ridge Illinois, has teamed with Johnson Controls to provide *upgraded industrial* centrifugal and screw chillers for nuclear safety related and critical applications. PMT will qualify upgraded YORK® brand heavy duty industrial chillers from Johnson Controls using the latest design, dedication and testing procedures. The design of the chillers is tailored to site specific customer requirements. Equipment is provided in conformance to 10CFR50, Appendix B and 10CFR21.



Real World Performance

YORK® brand industrial chillers by Johnson Controls are designed for highly variable operating conditions and can function at the extreme conditions frequently found in nuclear power plants. Technology is available that allows for low incoming condenser water temperature that prevents the hard starting and surging problems which are common during the winter months. This results in stable operation which reduces the EDG loads. Customers get custom chiller performance in a standard proven product design.



Environmental Responsibility

The YORK® industrial chillers use environmentally friendly HFC-134a refrigerant which is not scheduled for phase out. The open-drive design allows for an easier path to transition to an alternative refrigerant if needed in the future.

Quality Assurance

PMT has a QA program that meets the requirements of 10 CFR 50 App. B, 10 CFR Part 21 and ASME NQA-1. PMT is a NUPIC audited safety related supplier of a large variety of equipment including dampers, fans, custom chillers, coils, AHU's and metal fabrications of all types. PMT has extensive experience designing and qualifying equipment to satisfy nuclear utility QA requirements. PMT has extensive in-house testing and qualification capabilities. PMT equipment undergoes rigorous testing to satisfy in-house requirements and any standards imposed by their customers. PMT maintains welding and pressure vessel qualifications in conformance to AWS and ASME standards. PMT is a member of NIAC.

Digital Controls

PMT equips the packages with digital controls manufactured by Micro Control Systems (MCS). The MCS digital controllers are qualified and dedicated for a mild environment in accordance with EPRI TR-106439 (dedication), IEEE 7-4.3.2 (V&V), IEEE-344 (seismic) and EPRI TR-102323 (EMI/RFI). The easy-to-use controls are panel mounted on the equipment or can be mounted remotely. The control module comes with software to allow reporting, performance graphics, charting, and system configuration from the local keypad or remote PC.

PMT has a worldwide teaming agreement with MCS for nuclear applications.



Qualified Installation Service

PMT and Johnson Controls can provide a variety of support services to plants considering safety related PMT chillers. Services range from qualified site technical advisors to a full turnkey installation program.

Qualified Post Installation Services

PMT and Johnson Controls will provide parts availability for safety related chillers for an indefinite time. The parts will be dedicated industrial products. Parts will be clearly identified on the bill of material so plants will have a record of the actual manufacturer and part numbers. PMT and Johnson Controls will provide qualified on-site technicians to troubleshoot and repair units as required. The chillers are fully warranted for 18 months after shipment from the factory or 12 months from startup whichever occurs first. Extended warranties are available.



For More Information Contact:

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