



Heat Transfer and Fluid Handling Specialists

ADVANTAGES FOR OWNERS, CONTRACTORS, MANUFACTURERS and the PLANET

SAVES CAPITAL COSTS - 25% less cost than field built is conservative. And that is only part of the value equation.

COMPRESSES TIME - Modularized equipment compresses the total installation time, often substantially. Factory built modules is a valid strategy to mitigate penalty clauses over delays. Modules for chilling, pumping, heat recover and energy are produced in parallel to the less costly site work. Manufactured in a controlled environment, all electrical, control and piping connections are simplified. The time-cost of money is a driving factor.

PRESERVES PERFORMANCE INTENTS - Field built installations are often plagued by unknowns that derail ideal conditions. Pressure drops, temperatures, delta-t, and velocities may be compromised for site realities and unplanned contractor costs.



SAVES OPERATIONAL COSTS - Components and sub systems are carefully engineered in close proximity with correct piping. Hydronic fundamentals are tightly controlled in a compact module which results in less overall energy to drive the system.

REDUCES SPACE REQUIREMENTS - Interior space is expensive. Engineered modularized equipment is compact, requires less floor space and perhaps none if the module is placed outdoors or overhead.

ELIMINATES MISSED EXPECTATIONS - A fundamental cause of site delay costs is miscommunication and coordination between disciplines and progress in field-built systems. This is eliminated in leveraging a modularized approach. SINGLE-POINT accountability and easy communication for critical and often complex approaches is assured, and better meets real owner objectives. Risk is mitigated.

SUPERIOR TO VARIABLE REFRIGERANT SYSTEMS - The useful service life for modular hydronic equipment exceeds VRF. Water as the working fluid instead of refrigerant requires much less costly installation, provides less risk and cost of leakage, less costly service requirements and lower cost parts. VRF requires specialized maintenance over a shorter life span, thereby producing higher life-cycle costs. The overall energy required to move thermal effect is reduced in a well engineered hydronic approach.

EXTENDS MAINTAINABILITY and RELIABLE SERVICE LIFE - Carefully selected, commissioned, operated and controlled modular equipment means fewer service needs. Access for workers to every component is assured.

OIL-FREE VARIABLE-SPEED CHILLERS for LOWEST COST OF OWNERSHIP - Low GWP refrigerants and remarkable energy savings are entirely SUSTAINABLE. Variable-primary pumping, VSD tower fans, evaporative condensers and controls can provide the absolute lowest total cost of ownership. Data centers and campuses can benefit by thermo-siphon and tower free cooling and advanced pressure-ratio reset algorithms possible in an oil-free environment.

