

SENSIBLE EQUIPMENT COMPANY

TRICOIL®

The Sensible Solution

PUMP/VALVE ASSEMBLIES

NEW AND RETROFIT

TRICOIL® Systems use a combination of pumps and/or valves to achieve the desired heat transfer and operating sequence.

In many systems the pressure in the chilled water system is sufficient to provide circulation through the precooling and reheat coils to achieve the required heat transfer. So, the TRICOIL method does not necessarily require a pump to operate efficiently. The application of a pump will generally increase the efficiency of the recuperative heat transfer but the increase will be partially offset by the operation of the pump. Maintenance and pump replacement are life cycle cost that impact the decision to use or not to use a pump. Some reasons to use a pump would be:

- The primary cooling is a Direct Expansion (DX) System.
- The recuperative coils are at relatively remote location requiring a pump to overcome the piping pressure drop.
- The required heat transfer requires a boost in efficiency that can be provided through the use of a pump.

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MADE IN USA

SOME UNIT TYPES AND VARIATIONS

- Pump or pumpless models.
- Two or Four Pipe Primary Systems.
- Reheat by-pass valve used to regulate the amount of heat added to the supply air stream
- Heating Valve for adding supplemental reheat when the precooling process is insufficient for amininting the room or supply air condition through out the year.

TWO AND FOUR PIPE FAN COIL UNITS

Fan coil units generally don't have a pump. This is an example of a vertical fan coil unit. Other types are available such as horizontal slim line units, horizontal high pressure units, stackable units. All fan coil units have integral valve assembly factory installed, completely piped and wired.



PUMP/VALVE ASSEMBLIES

Pumps and valve assemblies can be shop fabricated for field installation into air handling unit vestibules, for indoor wall mounting with connections or for outdoor installation in NEMA 4 enclosures – as shown at right



PUMP/VALVE ASSEMBLIES, OPEN ON BACK PLATE AND FLOOR STAND

This pump/valve assembly (at right) was built for an indoor gun range project. The assembly includes a 2 hp pump, three port control valve with actuator, control panel, steel back plate and floor stand. As option the unit can be wall mounted.

