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Delta-Flo™ Fin Design
The Delta-Flo coil features a staggered 1/2-inch tube pattern and unique fin design allowing for low airside pressure drop with high capacity for lower gpm applications. With staggered tubes and its unique fin configuration, the Delta-Flo coil is one of the most efficient half-inch coils available in the industry. Delta-Flo coils are available in the original Delta-Flo E-fin surface and the new Delta-Flo H-enhanced fin surface. Delta-Flo H fins offer increased capacities and higher moisture carryover limits when compared to the original Delta-Flo E fins. Delta-Flo E and Delta-Flo H are available in aluminum fins.

Prima-Flo® Fin Design
The Prima-Flo coil features a parallel 5/8-inch tube pattern. The energy efficient Prima-Flo E fin surface is designed to decrease static pressure loss through the coil. This fin is ideal for systems where airside pressure drop is a major concern. Reducing pressure drop through the coil results in lower fan brake horsepower and system energy savings. Prima-Flo E coils are available in the original Prima-Flo E fin surface and the new Prima-Flo H enhanced fin surface. Prima-Flo H fins offer increased capacities and moisture carryover limits when compared to the original Prima-Flo E fins. Prima-Flo E and Prima-Flo H are available in aluminum fins.

Sigma-Flo® Fin Design
The Sigma-Flo coil is available in a 5/8-inch and 1-inch parallel tube pattern. The Sigma-Flo fin is designed to maximize heat transfer and minimize coil size. The 5/8-inch Sigma-Flo tube pattern is available with COPPER fins only. The 1-inch Sigma-Flo tube pattern for use with steam coils is available with aluminum or copper fins.

Better Performance Using Trane IVS
Infinitely variable fin spacing (IVS) gives the designer many ways to select the right coil for a particular job. IVS fins are available on all coil fin surfaces for coil selections tailored to application needs. This flexibility is important since coil heating or cooling loads can be matched more precisely than traditional “fixed” fin spacing. For example, a Delta-Flo E cooling coil can be selected from 72 fins per foot to 168 fins per foot in one-fin increments.

In many cases IVS fins will allow designers to reduce the number of fins required to meet coil loads. Fewer fins can result in lower airside pressure drops and lower fan brake horsepower, saving valuable energy dollars. Reducing the fan BHP may allow the selection of a smaller fan motor or a smaller air handler, saving additional dollars.

Using IVS and the five fin surface options, the designer has more flexibility than ever to design and select coils.

Computerized Selection Programs
For quick, easy and accurate coil selections, as well as greater flexibility in design decisions, The Trane Company has developed computerized selection programs. These programs are available from your local Trane office.

Coils can be selected for the following:
- Chilled Water
- Hot Water
- Steam
- Refrigerant
- Refrigerant Heat Recovery
- Coil Runaround Loop Heat Recovery

Based on initial input conditions, the programs will calculate capacity, air pressure drop and water pressure drop for all water coils and steam pressure drop for steam coils, including coils with copper fins or coils requiring heavier tube thicknesses.

Improve system efficiency with 25 coil types, five fin surfaces, IVS and a wide selection of refrigerant coil circuiting options. Since pumping costs are typically lower than airside operating costs, increase available waterflow to reduce fin requirements and airside pressure drops for fan energy savings.

Delta-Flo™ Prima-Flo® and Sigma-Flo®

More Coils for More Uses

C.D.S. Network
The Trane Customer Direct Service Network™ is a computerized engineering design service providing time-tested software and access to personal computer programs. Complete with a communications package to support it, C.D.S. delivers HVAC program updates and user support instantly.

With the variety of header design features and material flexibility, along with IVS and computer selection programs, Trane proves again it’s the leader in coil technology.
Cooling Coils

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The Delta-Flo coil features a staggered 1/2-inch tube pattern and unique fin design allowing for low airside pressure drop with high capacity for lower gpm applications. With staggered tubes and its unique fin configuration, the Delta-Flo coil is one of the most efficient half-inch coils available in the industry. Delta-Flo coils are available in the original Delta-Flo E-fin surface and the new Delta-Flo H-enhanced fin surface. Delta-Flo H fins offer increased capacities and higher moisture carryover limits when compared to the original Delta-Flo E fins. Delta-Flo E and Delta-Flo H are available in aluminum fins.

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The Prima-Flo coil features a parallel 5/8-inch tube pattern. The energy efficient Prima-Flo E fin surface is designed to decrease static pressure loss through the coil. This fin is ideal for systems where airside pressure drop is a major concern. Reducing pressure drop through the coil results in lower fan brake horsepower and system energy savings. Prima-Flo E coils are available in the original Prima-Flo E fin surface and the new Prima-Flo H enhanced fin surface. Prima-Flo H fins offer increased capacities and moisture carryover limits when compared to the original Prima-Flo E fins. Prima-Flo E and Prima-Flo H are available in aluminum fins.

Sigma-Flo® Fin Design
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Better Performance Using Trane IVS
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Using IVS and the five fin surface options, the designer has more flexibility than ever to design and select coils.

Computerized Selection Programs
For quick, easy and accurate coil selections, as well as greater flexibility in design decisions, The Trane Company has developed computerized selection programs. These programs are available from your local Trane office. Coils can be selected for the following:
- Chilled Water
- Hot Water
- Steam
- Refrigerant
- Refrigerant Heat Recovery
- Cool Runaround Loop Heat Recovery

Based on initial input conditions, the programs will calculate capacity, air pressure drop and water pressure drop for all water coils and steam pressure drop for steam coils, including coils with copper fins or coils requiring heavier tube thicknesses.

C.O.S. Network
The Trane Customer Direct Service Network™ is a computerized engineering design service providing time-tested software and access to personal computer programs. Complete with a communications package to support it, C.O.S. delivers HVAC program updates and user support instantly.

With the variety of header design features and material flexibility, along with IVS and computer selection programs, Trane proves again it’s the leader in coil technology.
5. All finned lengths are available in one inch increments (except T and ST coils).

2. Special material construction, operating pressures and temperatures are available.

Notes:
1. AIR certification does not exist for type H coils.
*Opposite-end connection.
6. All fin spacings are available in one fin per foot increments.

5. All finned lengths are available in one inch increments (except T and ST coils).

1. Turbulators are available in water coils to increase capacities at low fluid flow rates.

†ARI certification does not exist for type H coils.

*Opposite-end connection.
### Cooling Coils

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Rows</th>
<th>Finned Length</th>
<th>Finned Width</th>
<th>Finned Height</th>
<th>Fins Per Foot</th>
<th>Tube Material</th>
<th>Max. STD. Operating Conditions</th>
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<td><strong>T</strong></td>
<td>1, 2, 6, 12</td>
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<td>30”</td>
<td>30”</td>
<td>600</td>
<td>COPPER</td>
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### Heating Coils

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<th>Max. STD. Operating Conditions</th>
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<td>600</td>
<td>COPPER</td>
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<td>30”</td>
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<td>WC</td>
</tr>
</tbody>
</table>

### Notes
- All chilled water coils can be used in hot water applications.
- AIR certification does not exist for type H coils.
- Steam and steam condensate are standard on all water coils.
- All fins and lengths are available in core runs (exceptions marked SF and ST coils).
- All fin spacings are available in core runs per manufacturer’s specifications.
- **APPENDIX** last updated 2019.
- Certification class not valid for type H coils.
### Cooling Coils

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<table>
<thead>
<tr>
<th>Name</th>
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More Coils for More Uses

Heating and Cooling Coils

Coils for All Comfort, Commercial and Industrial Applications