



ZT(Y) & TR(Y)

Customized industrial air coolers

General information & application

Apart from the standard ranges of industrial and commercial air coolers, Alfa Laval produces special Helpman air coolers for cooling and freezing applications, fully designed to customers' specifications. For these special air coolers there are four basic coil types available (Helpman ZT, ZTY, TR & TRY) and a great number of accessories and design options.

Evaporating temp.	down to -45 °C
Refrigerants	ammonia (R-717), all H(C)FC, brine, CO ₂
Capacities	as required

Coil types

- **ZT coil**
 - Steel tubing 22 x 1.0 mm (St-35.8)
 - Tube pitch 60 x 60 mm square
 - Steel fins 0.35 mm (St5)
0.45 mm after galvanising.
 - Fin spacings 6 up to 18 mm
 - Coil galvanised acc. NEN-ISO 1461
- **ZTY coil**
 - Stainless steel tubing 22 x 0.7 mm (SS 304)
 - Tube pitch 60 x 60 mm square
 - Aluminium fins 0.4 mm (AlMg 2.5)
 - Fin spacings 6 up to 14 mm
- **TR coil**
 - Cu ripple fin or smooth tubing 5/8" x 0.45 mm
 - Tube pitch 50 x 50 mm square
 - Aluminium fins
 - Fin spacings 3 up to 12 mm
- **TRY coil**
 - Stainless steel tubing 16 x 0.5 mm (SS 304)
 - Tube pitch 50 x 50 mm square
 - Aluminium fins
 - Fin spacings 3 up to 12 mm

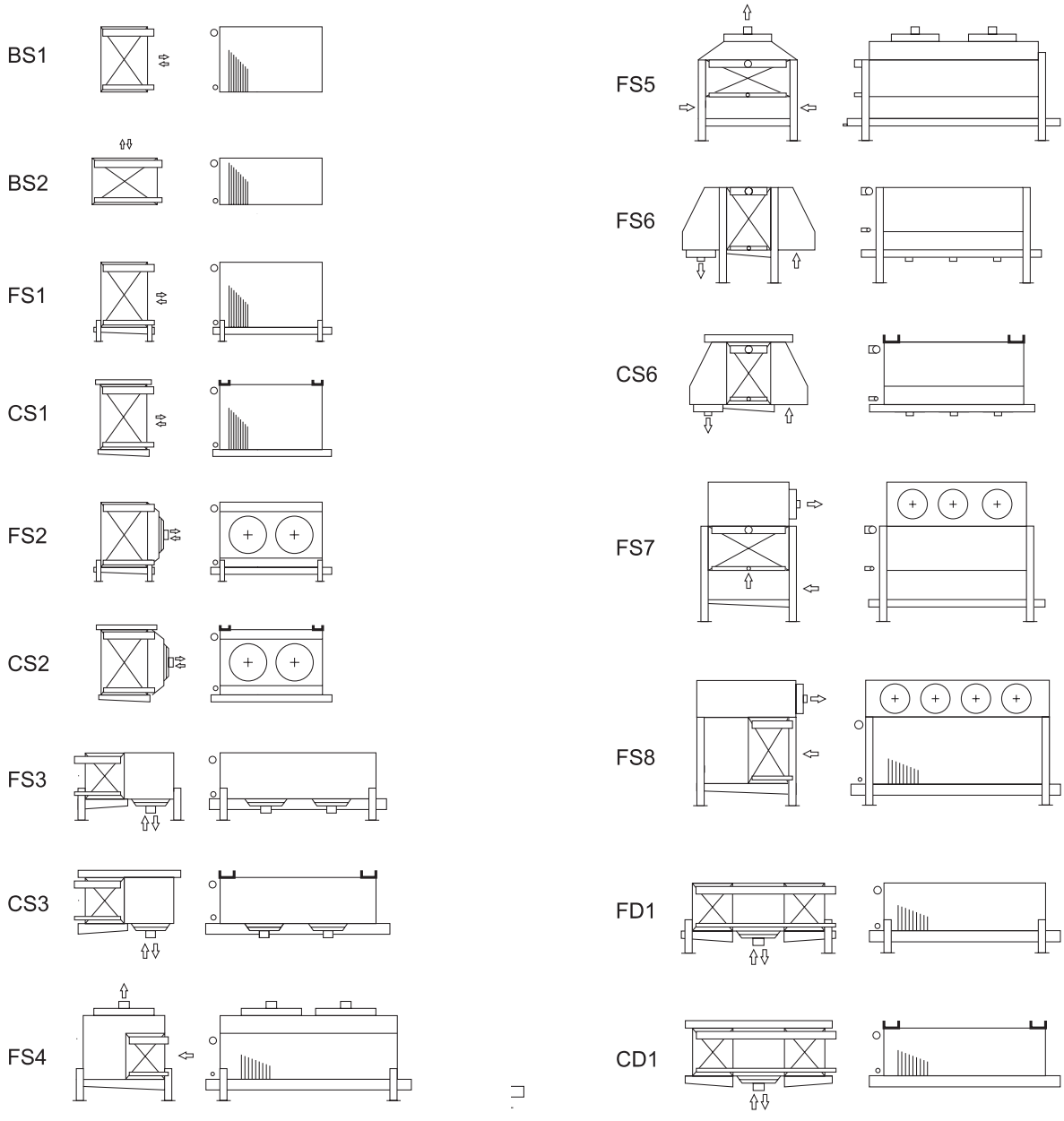


ZT/ZTY & TR/TRY

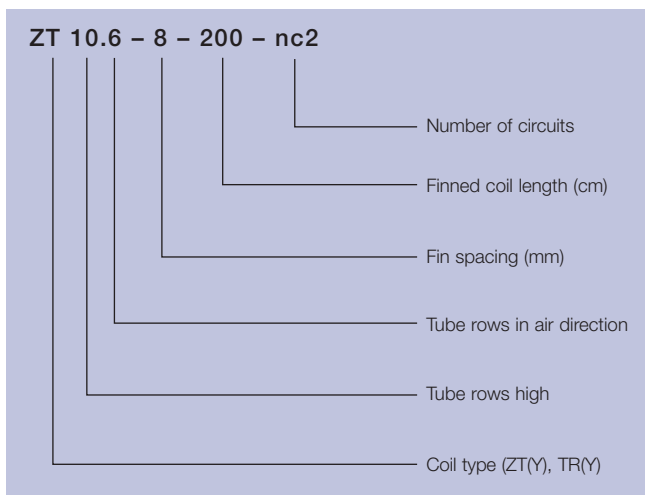
Optional features

- **Coil**
 - Multiple fin spacing
 - Epoxy coated fin material
- **Casing**
 - Epoxy coating RAL
 - Sight windows or inspection hatches
 - Side panels
- **Fans**
 - Dual fan speed / reinforced axial fans
 - Protection class IP65
 - Isolating switch
- **Defrost systems**
 - Hot gas / water / electric defrost
 - Automatic defrost dampers
- **Heating (electric/hot gas)**
 - Drip tray / coil / fan ring heating
 - Defrost damper heating
- **Insulation**
 - Drip tray / casing / cladding
- **Installation**
 - Installed non-return valve
 - Hot gas coil in drip tray connected with suction header

Additional options and technical specifications on request.



Coil code description



Air cooler configuration

Helpman special air coolers are available in a extremely wide variety of different configurations. The most common configurations are listed here. Please contact our sales organisation for full details.

Benefits

- Air coolers fully made-to-measure, thus ensuring full compliance with application requirements.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Reliable performance
- Energy efficient.
- Low defrost frequency thanks to square tube pitch configuration.
- Low total cost of ownership.
- Two-year product guarantee.