



RAAL[®]
complete cooling solutions

OIL
COOLERS

OIL COOLERS



TYPES

- Hydraulic Oil Coolers
- Transmission Oil Coolers
- Engine Oil Coolers
- Retarder Oil Coolers
- Gearbox Oil Coolers
- Steering Oil Coolers
- Brake Oil Coolers
- Clutch Oil Coolers
- Hydrostatic Oil Coolers
- Fuel Coolers

EQUIPMENT and APPLICATIONS

- Agricultural and forestry equipment
- Construction and mining equipment
- Commercial vehicles
- Automotive
- Military equipment
- Railway equipment
- Compressors
- Hydraulic equipment
- Power generation
- Industrial equipment

CONSTRUCTIVE SOLUTIONS

- Plate&Bar (oil-air, oil-water)
- Shell (oil-air)
- Brazed plates (oil-water)
- Tube&Fin (oil-air)
- In-tank plate type (oil-water)

OIL COOLERS

PLATE&BAR OIL COOLERS (oil-air, oil-water)



FEATURES

- Flexible design and robust construction
- Special-design turbulators, spacers and extruded tanks for up to 40 bar working pressure
- Wide variety of wavy fins for soiling prevention
- Special-design spacers and side plate expansion cuts for thermal stress management
- Internal / external bypass valves for cold start
- Suitable for hard working conditions: vibrations, shocks etc.

SHELL OIL COOLERS (oil-air)



FEATURES

- Light long-lasting construction
- Modular construction
- Suitable for hard working conditions: vibrations, shocks etc.
- High heat transfer
- Low air side pressure drops
- Suitable for low and medium working pressures
- Attractive design

OIL COOLERS

TUBE&FIN OIL COOLERS (oil-air)

FEATURES

- Lightweight
- Attractive design
- Good heat transfer performance
- Low air side pressure drops
- Suitable for low and medium working pressure
- Suitable for medium and large series



BRAZED PLATES OIL COOLERS (oil-water)



FEATURES

- Compact, robust and modular construction
- High mechanical resistance
- Suitable for low and medium working pressure
- Very good weight/heat transfer ratio
- Suitable for medium and large series



IN-TANK PLATE OIL COOLERS (oil-water)

FEATURES

- Very compact and efficient
- High working pressures up to 30 bar
- Good weight/heat transfer ratio
- Suitable for medium and large series



