

RAAL[®]
complete cooling solutions

OIL
COOLERS

OIL COOLERS



- Hydraulic Oil Cooler
- Transmission Oil Cooler
- Engine Oil Cooler
- Retarder Oil Cooler
- Gear Oil Cooler
- Steering Oil Cooler
- Break Oil Cooler
- Clutch Oil Cooler
- Hydrostatic Oil Cooler
- Fuel Cooler

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)

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



OIL COOLERS

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



- Flexible design and robust construction
- Special-design turbulators, spacers and extruded tanks for up to 40 bar 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)



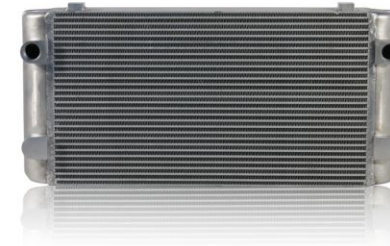
- Light long-lasting construction and safety in operation
- Modular construction and flexibility in choosing the air fin height and type as well as the turbulator type
- Suitable for hard working conditions: vibrations, shocks etc.
- High heat transfer
- Low air side pressure drops
- Suitable for low and medium working pressures
- Attractive design

OIL COOLERS

TUBE&FIN OIL COOLERS (oil-air)



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



BRAZED PLATES OIL COOLERS (oil-water)

- 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)

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



