OIL SEPARATORS

COOLTECH FINLAND OY
INDUSTRIAL REFRIGERATION MACHINERY

Increase energy efficiency of refrigeration systems by improving oil separation in screw compressor units and chillers

The oil supply and oil separation (separation, return and drainage) systems of refrigeration units are one of the main factors affecting the efficient performance of the refrigeration system.

- The oil separator is the most important element of a compressor unit with an oil-injected compressor, on the correct selection and calculation of which the operation of the entire refrigeration system depends.
- Installation of an undersized oil separator leads to increased oil entrainment in the system, reduced evaporator efficiency, oiling or, in the case of circulating circuits, oil settling in the circulating receiver. Improperly designed oil separator leads to compressor unit failure or unstable operation.
- COOLTECH designs and manufactures multistage vertical and horizontal oil separators for units and chillers based on both gland and semi-hermetic compressors.
- COOLTECH offers oil separators as stand-alone products for use in any refrigeration system, including existing.

Oil separarors COOLTECH

- **Vertical or horizontal design**
- **Wide capacity range**
- **Suitable for all major refrigerants (R717, R744, R290, R22, R507, R404a, R134a...)**
- **4 stages of oil separation (including the coalescer)**
- **Short delivery time**
- **Oil carry over 1-5 p.p.m.**

- **Up to 30% energy efficiency grow**
- **Reduced oil consumption during operation**
- **Increased degree of oil separation**
- **Reliability**
- **Quality**

Compressor units COOLTECH
with vertical oil separator

Chiller COOLTECH
with horizontal oil separator

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