



... thanks, of course,
to ef cooling technology –
an overview of our products!

ef cooling
Switzerland



OK oil-cooling equipment

«To produce a high quality, accurate end product first requires that the thermal stabilisation of the production process be absolutely precise. ef's high-quality oil-cooling equipment is of modular construction and designed and developed in Switzerland.»

All oil-cooling equipment is designed and built here in Switzerland. The large library of oil-cooling units that we have already constructed all over the world is used as a basis for new developments to meet very special requirements.

OK oil-cooling equipment is used in a wide variety of applications, such as:

- In metal-removing and shearing machine tools: for turning, grinding, sharpening, milling, boring, cold rolling, etc.
- In presses for die stamping, deep drawing and embossing
- In various hydraulic systems in plastics processing machines
- etc.



Above:
OKL oil-cooling equipment

Below:
OKW oil-cooling equipment

OK oil-cooling equipment is used in a wide variety of designs, differing in:

- Internal and external construction
- Air or water-cooled
- One or more refrigeration circuits
- One or more coolant circuits
- With free cooling and/or heat recovery

Only first class components available worldwide are used for OK oil-cooling equipment.

- Sturdy casing frames, colour to customer's choice
- Compressor, coolant collection tank, thermal or electronic expansion valve, monitoring equipment, air or water-cooled condenser.
- Tube or plate heat exchanger
- Electric control unit in the control cabinet fully wired to worldwide regulations
- Oil tank with pump
- Conduit heating
- etc.

OKL oil-cooling equipment

In air-cooled oil-cooling equipment, the condenser is compactly integrated into the unit with axial fans. In the split design, an external condenser is used.

Performance data

Refrigeration output Q ₀	to 100 kW direct (to 86'000 kcal/h) over 100 kW indirect
Flow rate	as required
Operating temperature	+10 to +45 °C
Target value tolerance	±2 (max. ±0,1) K
Refrigerant	R 407C / R 134A
Ambient temperature	Standard +5 to +35 °C Special +5 to +45 °C

OKW oil-cooling equipment

In water or brine-cooled equipment, a tube or plate condenser is used. The coolant for the condenser can be brought either to a cooling down unit, cooling tower or a hybrid unit. Via a heat recovery system, the extracted heat can also be used to heat domestic heating and hot water systems.

Performance data

Refrigeration output Q ₀	to 100 kW direct (to 86'000 kcal/h) over 100 kW indirect
Flow rate	as required
Operating temperature	+10 bis +45 °C
Target value tolerance	±2 (max. ±0,1) K
Refrigerant	R 407C / R 134A
Ambient temperature	-40 to +35 °C - With cooling down unit - With cooling tower or hybrid cooling unit
	-40 to +40 °C

**ef cooling, in collaboration
with its technological partners
throughout the world, provides
the optimum cooling system
for each production plant**

We plan, develop, construct and build cooling systems. In so doing, we have now solved, to date, some one thousand temperature problems, even though hardly any job was the same as any other.

We manufacture and carry out our Research & Development, Servicing, Sales and Marketing activities in Dällikon/Zurich, Switzerland. Some years ago, as part of the continuous strategy for growth, ef Productions AG was established, especially to produce mass-produced systems.

We have been developing and marketing industrial cooling systems worldwide since 1964. During this time, we have built up a network of development and technological partners, from which nowadays all our customers can benefit.

We regularly invest specifically in the development and evaluation of new technologies and products, paying particular attention to environmental friendliness, energy savings, economy and increase in quality.

ef cooling is your address for:

- Water coolers
- Oil coolers
- Multizone cooling/heating units
- Customer-specific and combined units
- Cooling systems for various other media
- Heat-recovery plants and designs
- Free-cooling plants and designs
- Prototypes and serial production
- Engineering
- Servicing and recycling



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