



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

ef cooling
Switzerland



WK water-cooling equipment

«There is no dispute nowadays regarding the importance of specific cooling in increasing performance and quality because high levels of accuracy are totally impossible without stable temperature conditions. By specifically stabilising temperatures, WK water-cooling equipment provides an improvement in quality and an increase in production.»

Every water-cooling unit is specifically designed and built precisely to the customer's requirements, without any extra development or additional charges. We use the modular construction basic model produced in our factories in Switzerland as a basis.

WK water-cooling equipment is used in a wide variety of applications, such as:

- In metal-removing and shearing machine tools: for grinding, turning, milling, boring, laser cutting, etc.
- In plastics processing machines for heat moulding, blow moulding, injection moulding and pressure moulding
- In surface treatment equipment for plasma coating, hot dip galvanising
- etc.



Above:
WKL water-cooling equipment

Below:
WKW water-cooling equipment
with heating zones
ef «Multizone»

WK water-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 WK water-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
- Water tank with pump
- Conduit heating
- etc.

WKL water-cooling equipment

In air-cooled water-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 5 MW (to 4.3 Mio. kcal/h) |
| Flow rate | as required |
| Operating temperature | -25 to +50 °C |
| Target value tolerance | ±2 (max. ±0,1) K |
| Refrigerant | R 407C / R 134A / R 404A |
| Ambient temperature | Standard +5 to +35 °C Special -35 to +55 °C |

WKW water-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 5 MW (to 4.3 Mio. kcal/h) |
| Flow rate | as required |
| Operating temperature | -25 to +50 °C |
| Target value tolerance | ±2 (max. ±0,1) K |
| Refrigerant | R 407C / R 134A / R 404A |
| Ambient temperature | -40 to +35 °C - With cooling tower or hybrid cooling unit |

**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



ef cooling

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