



## Reference Summary

Since 1930 we have been manufacturing:

- 10820** Air and Compressed Air COOLERS
- 1600** Oil COOLERS and Air COOLERS
- 485** Water/Water, Hydrogen and Oxygen COOLERS
- 810** Water, Air and Oil RADIATORS
- 17420** STEAM EJECTORS (Single and Multiple stages) and THERMOCOMPRESSOR
- 1515** VACUUM PUMPS
- 1200** DESALINATION PLANTS
  - Steam evaporating system
  - Reverse Osmosis for brackish and sea water
- 1069** Fuel and surface CONDENSERS and EJECTOR-CONDENSERS
- 2920** HEAT EXCHANGERS
- 152** DEAERATORS
- 123** DESUPERHEATERS
- 20950** Water, Air and Oil FILTERS
- 165** SALINOMETERS
- 1750** *SHIPS equipped by our plants*

# SCAM

## SCAM S.p.a.

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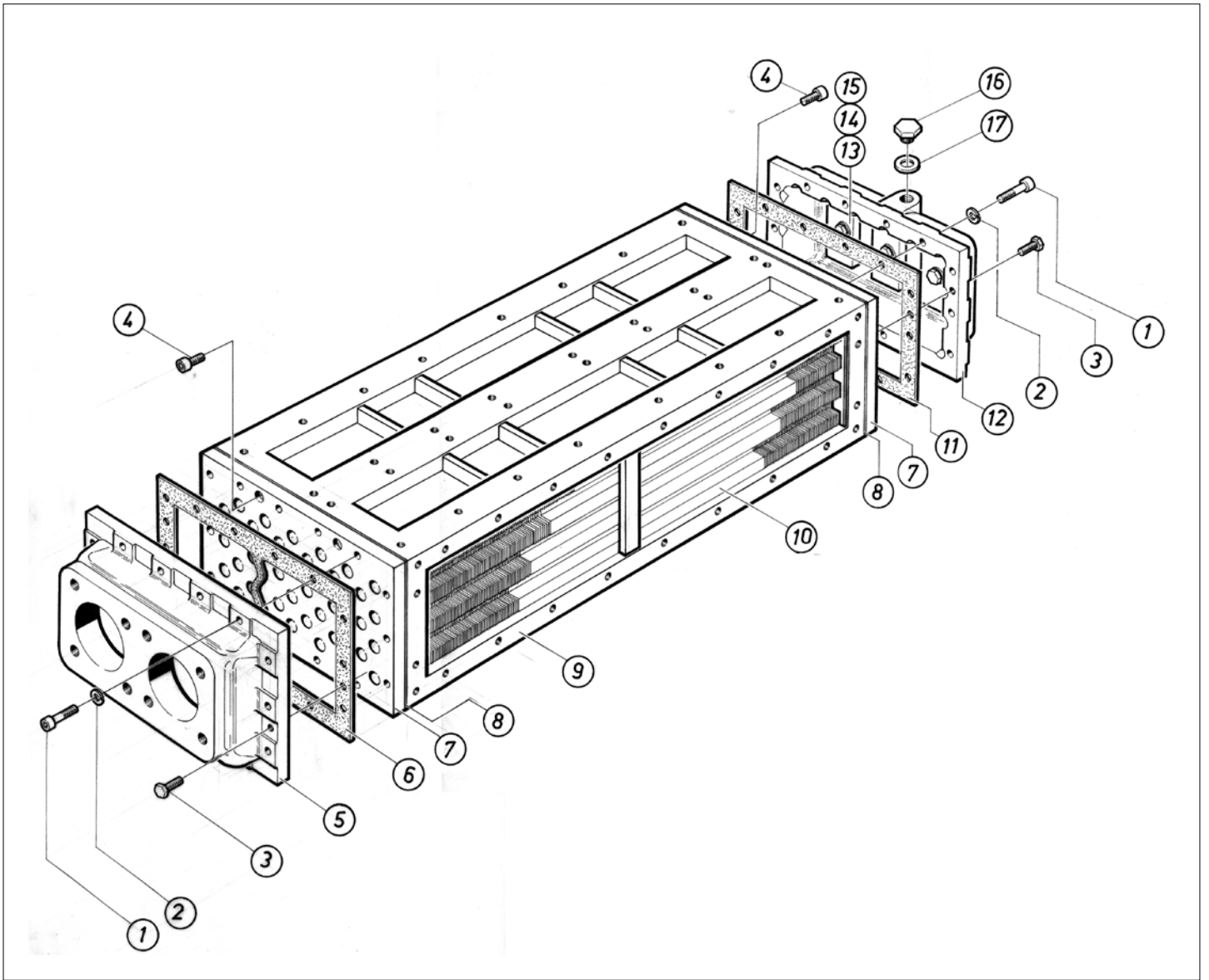
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Torino



### **Internal or external fin tube coolers**

SCAM has been manufacturing fin tube coolers for many years. This apparatus is designed especially for the equipment of the following machines:

- air coolers for the equipment of electric motors and alternators
- hydrogen coolers for alternators of high power (125 to 1.300 MW and above)
- supercharging air cooler of the Diesel motor
- double tubes air coolers, type Navy, for the equipment of electric motors or generators of ships
- water air coolers
- oil air coolers



**Principle:**

The liquid circulates in the inside of the smooth or fin tubes.  
The tubes, finned at the outside, insure a large exchange surface with ventilation air and allow the thermal transfer between the two fluids.



**Air coolers ready for delivery**



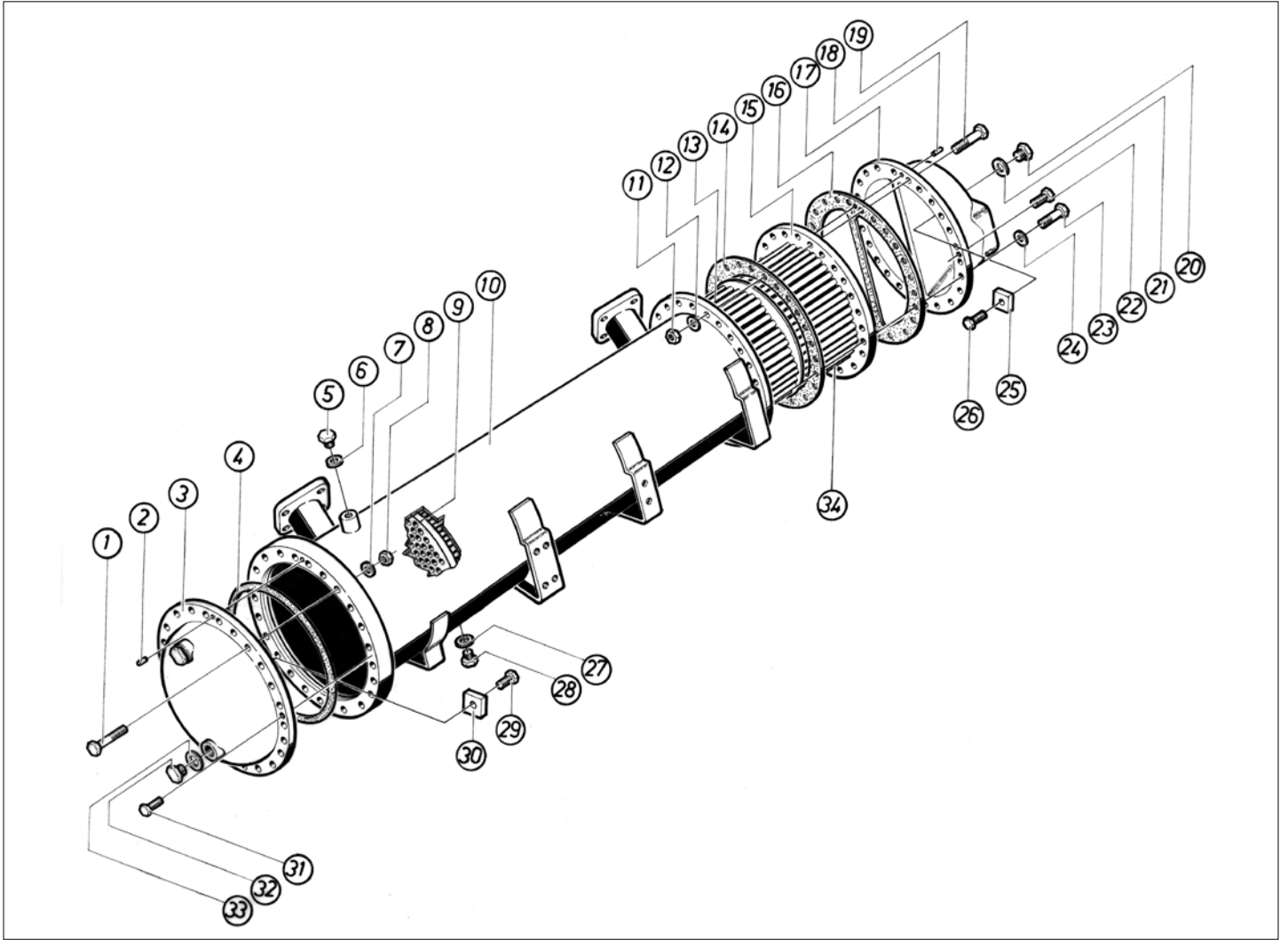


### **Material:**

The exchange surfaces of the coolers of the electrical machines are in most cases built with metals such as copper or copper alloys for the tubes and copper for the fins.

For the air coolers, these surfaces can also be constituted by steel tubes fitted with aluminium or steel fins, possibly protected.

The tube sheets and the boxes for water distribution are either made of steel or of copper alloys (brass or copper-aluminium) according to the nature of the circulation water.



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