

TURBODEN EXTENDS ITS SUPPLY TO THE BUNDLES COMPONENTS OF THE AIR COOLERS BY DESIGNING AND MANUFACTURING THEM INTERNALLY

The Italian Organic Rankine Cycle systems supplier is becoming ever more an integrated technological solution provider, expanding its internal production (thanks also to the Turkish facility).

Brescia, May 28th 2020

Turboden highlights its capability to provide a wider range of products and related components, including the bundles of the air cooling systems and their on-site assembly, through its partners or through other companies directly selected by the customer or by the general contractor.

Paolo Bertuzzi, Turboden CEO states: “The air-cooled condenser is a core component of the ORC plant, so the internal control of this core component is essential as well as the turbine. Few years ago we launched internal design of ORC air-cooled condenser with very successful results; today we are ready for a new step: internal manufacturing.”

Andrea La Gioia, Turboden COO states: “Air Cooled Condenser internal design and production is a key vertical integration necessary to achieve optimized cost and performance, shorter lead-times and to have a higher risk control during project execution”.

What are the advantages to produce internally the bundles of the air coolers?

There are many advantages, in particular:

- Optimized design on ORC requirements and on specific working fluids;
- Better overall performances;
- Optimized design according to logistic and assembling requirements
- Better quality assurance procedures
- Better observance of the execution timeline
- Projects shorter lead times
- After-sales plan optimized, with planned maintenance and cleaning instructions, under our direct supervision
- Spare parts availability

The ACC bundle is a key component of the air-cooled condensers, a device for rejecting heat from a fluid to ambient air. A tube bundle is an assembly of tubes, headers, side frames, and tube supports.

Usually the tube surface exposed to the passage of air has extended surface in the form of fins to compensate for the low heat transfer rate of air at atmospheric pressure and at a low enough velocity for reasonable fan power consumption.

Turboden S.p.A. - Mitsubishi Heavy Industries Group Company, is an Italian firm and a global leader in the design, manufacture and maintenance of **Organic Rankine Cycle (ORC) systems**, highly suitable for distributed generation, that produce electric and thermal power exploiting multiple sources, such as renewables (biomass, geothermal energy, solar energy), traditional fuels and waste heat from industrial processes, waste incinerators, engines or gas turbines. Today Turboden expands its solutions with **gas expanders and large heat pumps** to play a broader role in the decarbonisation of the District Heating sector and of some energy-intensive industrial processes.