

INDUCED DRAFT AIR COOLED CONDENSERS (ACC)

The InAIR® combines proven components and technologies to yield the next generation in dry cooling: an Air Cooled Condenser featuring induced draft fans.



InAIR ^{ACC}

From ENEXIO, the company who invented the air cooled condenser, comes the next generation of innovative and intelligent design. Through innovative engineering and the utilization of our self-supporting ALEX bundles, ENEXIO has developed the InAIR®: an ACC that offers superior operational performance utilizing induced draft fans with no changes to the fundamental tube bundle arrangement and steam condensing process. A redesigned approach to construction substantially reduces erection costs while lowering the material costs.

Induced draft fans have been used reliably in the majority of power plant main cooling systems worldwide, like in wet cooling tower applications, but their application in ACCs have been limited due to higher costs. But through innovative engineering and utilization of our self-supporting ALEX bundles, ENEXIO can offer the InAIR®: an ACC which offers the superior operational performance of induced draft fans

with added savings in material supply, delivery duration, and construction. The innovative design includes the removal of fan bridges, reducing fan driven vibrations. The operation life of the gearbox and fan increase through reduced vibration loads.

The benefits at a glance

- Proven tube bundles and steam path unchanged
- Reduced air inlet and total height of the ACC:
Less visual impact
- Reduced construction: 20 – 30 % decrease in man-hours
- Reduced steel by weight (up to 60 %)
- Reduced steel by pieces (up to 50 %)
- Simplified pre-assembly at grade level
- Smaller footprint
- Patented worldwide

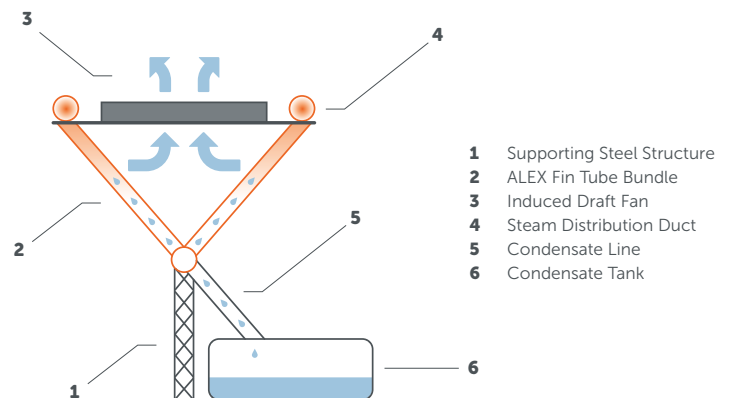
InAIR^{ACC}

PROVEN AND TESTED WORLDWIDE

An induced design providing performance and project certainty.

The InAIR[®] protects fans, motors and gearboxes against unnecessary vibrations by eliminating the fan bridge and reducing the impact of the wind at the fan inlet. These features increase the life expectancy of the rotating equipment.

In a classic forced draft ACC, the fans are exposed to an elevated level of dynamic loading. The vibrational effect of dynamic loading can be mitigated by calculation and design – but not eliminated. The InAIR[®] resolves this weakness in the classic ACC design.



From proven components & technologies based on >1,100 Classic ACC references worldwide ENEXIO has successfully completed 9 InAIR[®] projects worldwide in 5 countries since 2015



- CPV Valley, 1x500 MW, USA
- CPV Towantic, 1x470 MW, USA
- Noor II, 1x200 MW, Morocco
- Noor III, 1x150 MW, Morocco
- Salalah, 2x150 MW, Oman
- Myanmar, 1x20 MW, Myanmar
- Shengyan, 1x150 MW, China
- Hami Xuanli, 2x60 MW, China
- Huojiagou, 1x135 MW, China

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