

GEA Inspection-Module-Program (IMP) with HX-Factor

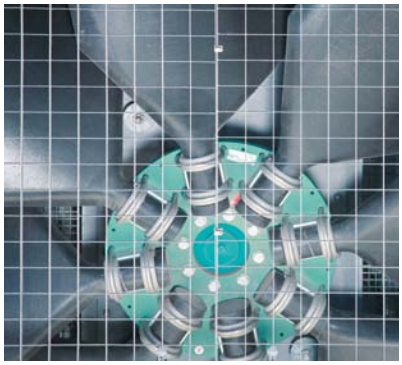
Inspection of Air Cooled Condensers and Dry Cooling Systems

Service – Proactive. Reliable. Safe.

From the dry cooling systems specialists

Service from our specialists

- Your contact and expert for dry cooling systems
- High consistency in the market and comprehensive competence
- GEA quality "Made in Germany"
- Global presence: active worldwide in more than 20 countries, native language speakers
- GEA plants and third-party products
- Individual service concepts
- Maximum availability, operational safety and plant efficiency



Optimal adjustment of the fan installation safeguards plant performance



Professional inspection of your cooling plant

Worldwide leaders in heat exchange

As an internationally active technological group, GEA Group concentrates on process technology and components for demanding production processes in a wide variety of end-user markets. In all its business areas, GEA is recognized as an innovative market and technology leader. GEA Heat Exchangers, the largest Segment within the GEA Group, consolidates all the activities in the area of heat exchangers and comes with one of the largest portfolios in the field worldwide. What makes GEA Heat Exchangers furthermore unique and a partner of choice is the HX-Factor. It is our promise and stands for our unique expertise in heat exchange (**HX** = **H**EAT E**X**CHANGE). The HX-Factor maximizes your benefits for the entire life of your system. Heat exchange with HX-Factor: That means customized, reliable and sustainable solutions conforming to the signs of the times. With the GEA Inspection-Module-Program (IMP) we assure maximum availability of your plant – proactive, according to demand, reliable.

Based on decades of experience in dry cooling we are equipped to offer first-class services that far exceed traditional service standards. High availability and achieving the projected performance are requirements for optimum and safe operation of a technical cooling plant. Experts assume, that costs of malfuntion and idleness of plants within a life cycle can be three to four times higher than the respective costs for maintenance and operations. The GEA Inspection-Module-Program (IMP) has been developed to control all plants individually, but in a fixed and reliable procedure. This ensures maximum availability, safe operation and plant efficiency while simultaneously reducing costs for maintenance operations. With our IMP you are always well advised ensuring the availability and efficiency of your plant.

GEA Inspection-Module-Program (IMP)

Professional inspection and documentation

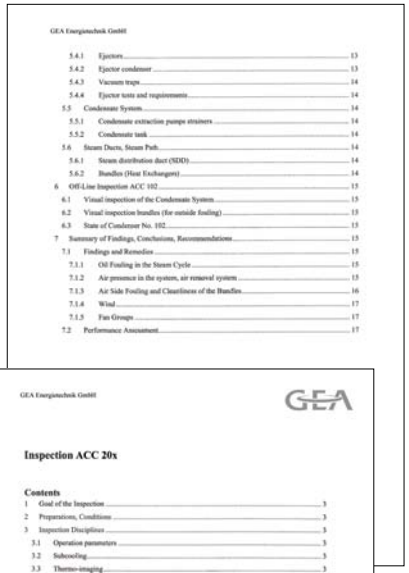
Inspection based on IMP

Because of the classification in more than 20 different modules, that are themselves in turn subdivided into single units, it is possible to test all plants individually but based on a fixed procedure. Decades of experience in constructing plants with cooling technology for the process and power plant industry enable us to provide the needed know-how. The type of assessment for individual modules and assemblies determines their current operating status in a predefined format with almost no subjective influences from individual inspectors. For the different components of the single modules of your cooling plant an exact inspection report is compiled. Thus you can be rest assured, that the components to be tested, are going through a pre-defined scope of testing. These assessments are done based on documented criteria. This kind of analysis enables the exact assessment of the status quo.

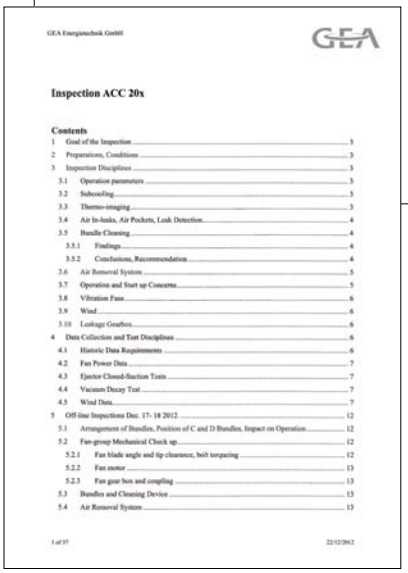


Main features to look for

- Preliminary Performance Evaluation based on readings: exhaust pressure, air inlet temperature, condensate flow and fan power (as base data, among other parameters)
- Vacuum decay (both historic and performing a new decay test)
- Cleanliness of heat exchanger bundles (check bundle surface, cleaning device method, frequency, manner)
- Wind (collect wind data in parallel to operational thermal and performance data of the STG)
- Check daily operation routine (operation manner, response manner to alerts, events, start up routine)


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Inspection ACC 20x

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On-line/during operation – Results classified by disciplines

- Performance level, referred to the 100% design value
- Air in-leakage to the condenser observed, quantified
- Need for cleaning is defined, if any, cleaning method advised
- Wind/back pressure rise correlation checked, further data collection steps to advise
- Flawless operation manner checked and adjustments advised if needed
- All this carried out during normal operation, no need to shut down the STG

Evaluation and documentation of results

The test results are documented in reports and are interpreted based on a fixed procedure. Graphic representations facilitate an overview. In the joint discussion of the results the focus lies on the critical components. At a glance, the current state of the cooling plant is thus identifiable and also internationally comparable by all persons involved. Critical points are localized during the progress and are presented graphically. It is possible in this way to identify the plant-specific interdependency and to eliminate its causes effectively.

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Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

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