



COMPLETE AIR INTAKE SYSTEMS

POWERFUL AND ECONOMIC SPECIALISTS IN AIR FILTRATION
SOLUTIONS FOR GAS TURBINES & COMPRESSORS



ONE SUPPLIER FOR COMPLETE AIR INTAKE SOLUTIONS

HIGH-PERFORMANCE FILTRATION SYSTEMS THE BEST SOLUTION FOR EVERY APPLICATION

One of H+R's main targets is to prevent plants from any unwanted interruption of power supply, therefore maximum reliability is required. Our system solutions are ideally suited to these demands.

All requirements are well considered in H+R systems, and we are able to deliver best solutions for hot and dusty as well as for wet and cold regions.

Air Intake Systems of H+R are designed to maximize performance and overall cost efficiency of turbomachines and to prevent them from fouling.

Turbine blades are prevented from corrosion and from build-up of dust deposits. Therefore, outage time will be limited, and improvement of reliability will reduce maintenance costs.

H+R has a "design to cost" strategy. Therefore, every solution is optimized to meet specific local conditions (rain, humidity, sandstorms, etc.) by considering the customer's request (such as budget, specification, etc.).



WHY H+R AIR INTAKE SYSTEM?

H+R delivers the complete solution from engineering, design, development, manufacturing and erection for modification, delivery and installation of air intake systems for compressors and industrial gas turbines.

H+R can supply full range of complete filter systems for all regions. Filters are available as static and self-cleaning systems according to ISO 16890 group classification ePM1, ePM2,5 and ePM10 (corresponds G4 to F9 to EN 779) respectively EPA filter class level E10 – E12 to EN 1822. This meets the highest demands of efficiency.

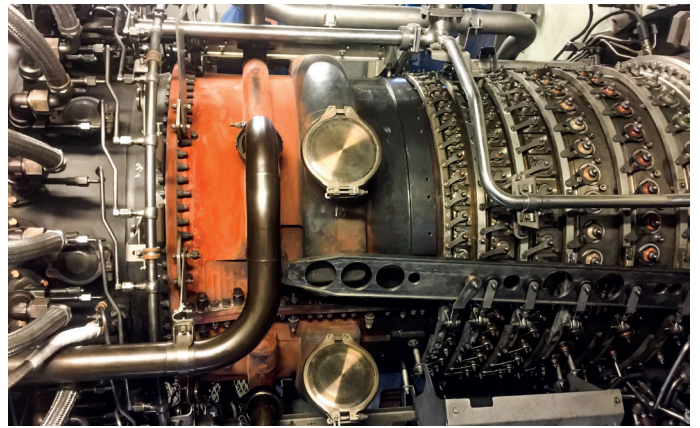
OPTIMIZE TURBINE PERFORMANCE TO MAXIMIZE EFFICIENCY & PROFITABILITY

To optimize the operational efficiency of gas turbines or compressors particulates in the combustion air inlet need to be reduced. H+R does design of air filtration solutions according to the customers' requirements to prevent blade damage based on corrosion or fouling.

Climatic conditions, individual machinery specifications and available space are considered during the whole engineering process. At the same time H+R is considering client's budget to find suitable solutions.



H+R can deliver filter elements with coalescing function if it is needed for any application where fog water spray has to get separated from the air.



- Cost savings for the operator and the OEM based on design to cost strategy
- Maximum system protection and highest availability of the system
- Possible filter efficiency up to EPA purity level
- Low pressure drops and high mechanical stability
- Full innovation power made in Germany



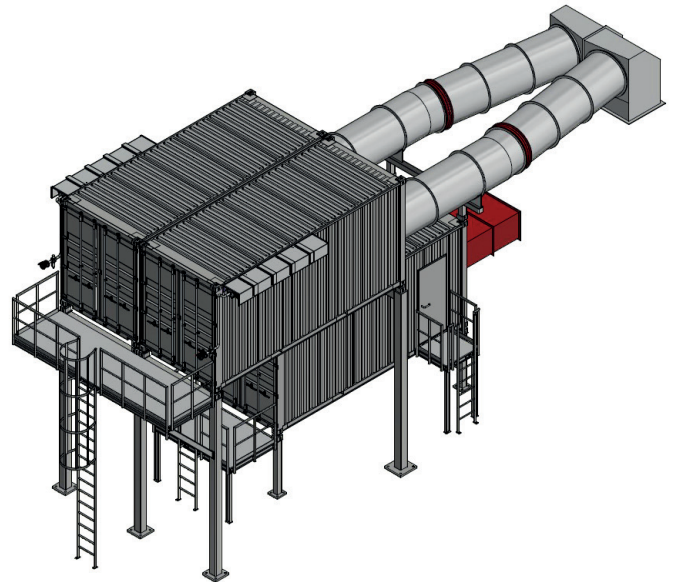
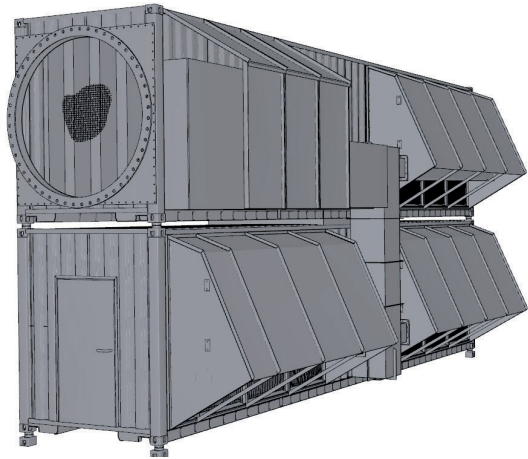
To separate droplets from the air H+R developed droplet separators made of PP, Aluminum or Stainless Steel. Our newest development is the electrical heated droplet separator with vanes made of aluminum elements and designed using CFD-analyseS.

H+R delivers multi-stage concepts in all possible combinations of filter classes up to EPA filtration if required.

**CUSTOMIZED
FILTRATION SYSTEMS
BY H+R "DESIGN TO
COST STRATEGY"**

CONTAINERIZED AIR INTAKE SYSTEMS

AN INNOVATIVE AND ROBUST AIR FILTRATION SOLUTION
FOR HIGH-PERFORMANCE, RELIABLE, EASY TO INSTALL - FOR
COMPRESSORS, GAS TURBINES, ENGINES, INDUSTRIAL FANS
AND EVERY OTHER POWER MACHINE



CLIENTS ADVANTAGE

- Standalone
- Cost-effective
- Standardisation of design
- Easy Transportation
- Easy Installation
- Easy long-term access & maintenance
- Low packing costs
- Guaranteed H+R long term operational warranty



PRODUCTS & SYSTEMS

COMPLETE
AIR INTAKE SYSTEMS



ACOUSTIC ENCLOSURES
CLADDINGS & SCREENS



COMPLETE
EXHAUST SYSTEMS



FLUE GAS
SILENCERS



BLOWOFF & STEAM
VENT SILENCERS



COOLING TOWER
SILENCERS & SERVICES



**TURNKEY
SERVICE
PROVIDER
FOR
INDUSTRIAL
NOISE
CONTROL,
AIR
FILTRATION
& COMPLETE
EXHAUST
SYSTEMS**

RETROFIT & SITE SERVICES

PLANT RETROFIT
& UPGRADE



PLANT MAINTENANCE
& OUTAGE SERVICES



ACOUSTIC
CONSULTANCY



- ▶ Energy & Utilities
- ▶ Oil & Gas
- ▶ Industrial Plants
- ▶ Petrochemical & Chemical
- ▶ Pharma & Bio Pharma
- ▶ Infrastructure

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