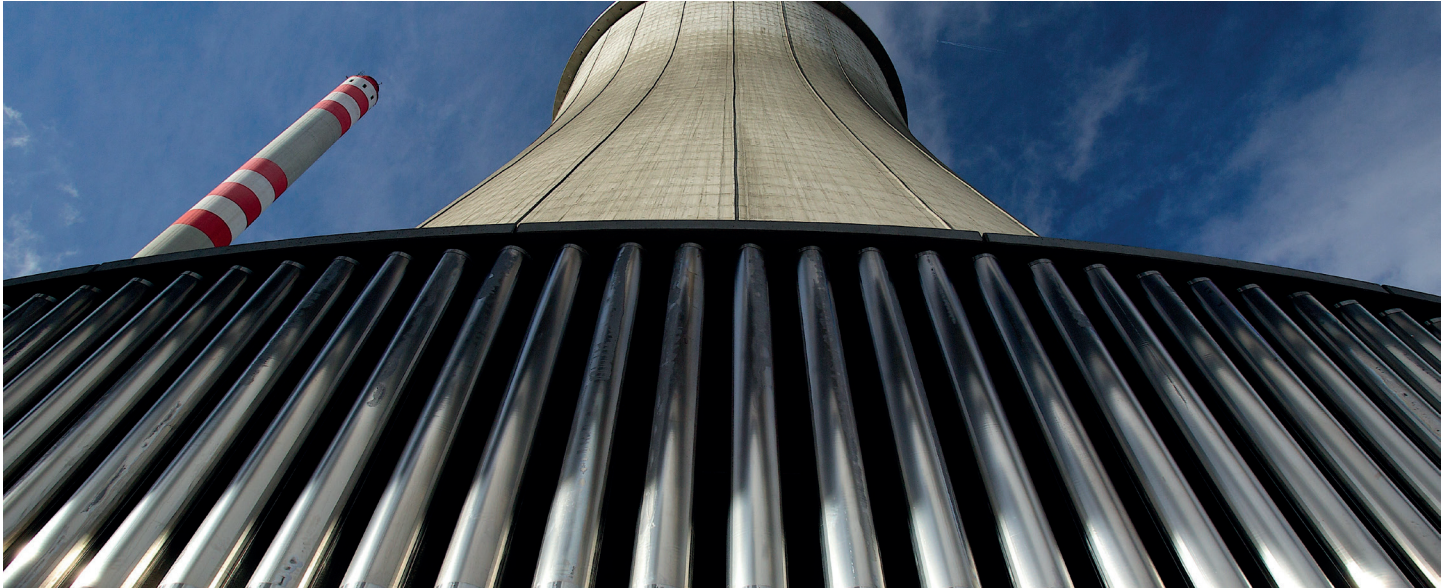




# COOLING TOWER SILENCERS AND SERVICES

SILENCING EQUIPMENT  
ASSEMBLY AND SERVICE AROUND THE COOLING TOWER





## H+R SINGLE SOLUTION APPROACH

OPEN EARS FOR YOUR REQUIRMENTS.

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More than 40 years long experience has made us as a leading manufacturer and supplier of cooling tower noise damping measures world wide.

Behind the long term success are experts from the sound protection branch and industry.

### **Engineering, manufacturing and assembly under one roof.**

- Long successful experienced staff in design, manufacturing and assembly of the complete range of cooling towers damping measures.
- Own efficient product technology
- Own development with test facility.

### **Services - Everything from one source**

From engineering via manufacturing to assembly, we design and implement individual components and complete system solutions for all cooling tower applications

- Engineering
- Project management
- Tests
- R&D
- Supply
- Assembly
- Maintenance and Service.



## IN FOCUS

Since its inception H+R GmbH has been successful in acquiring all the projects GLOBALLY for Natural Draft cooling towers that requires air inlet noise baffles.

We pride ourselves in not just being a supplier but a partner who stands by the equipment before, during and after installation.





## H+R SERVICES

### WE COVER THE ENTIRE LIFE CYCLE OF THE COOLING TOWER

#### Installation

From the beginning we can support you with our own site staff. Pre-assembly of FRP-frames and interior components can be offered as well as installation of the components or even assembly of entire FRP cooling towers

#### Inspection and maintenance

After start-up over the entire life cycle, the cooling tower will be influenced by a lot of events like wear, changing parameter and uncontrolled conditions.

We can assist you to meet the task of high availability and efficiency with tailored inspections and maintenance, analysis and evaluation, cleaning work, wear exchange, check-up of the mechanical parts.

#### Testing and Monitoring

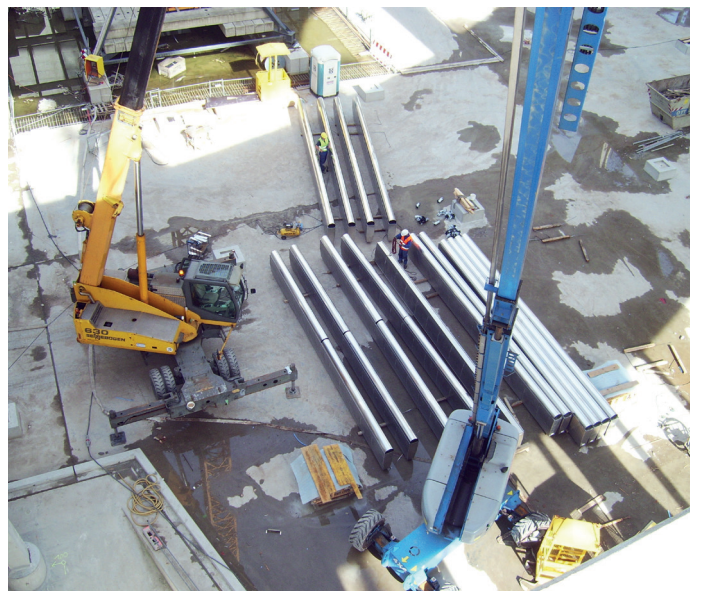
Acoustic measurements and analyses with respect to the requirements of the European standard.  
Noise maps in 3D environments for the prognosis of the noise impact of machinery and industrial installations.

#### Overhaul and Upgrade

Based on continuous development of cooling tower components and the unused potential of improvements as also new performance targets, we support you to analyse the situation and creating tailored solutions to bring your cooling tower fit for the future.

### AT A GLANCE

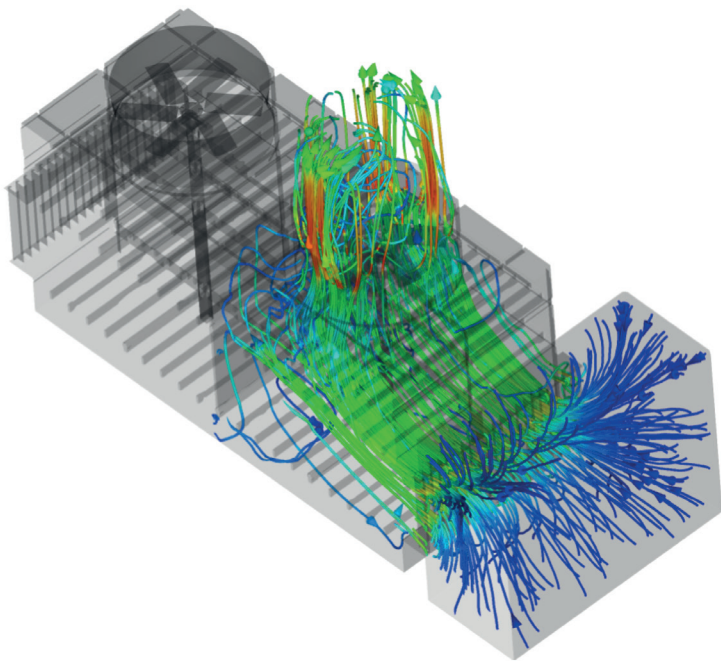
- Pre-assembling
- Installation
- Inspection
- Maintenance
- Monitoring
- Testing
- Feasibility study
- Overhaul
- Upgrade





# H+R ACOUSTIC COMPONENTS

INDIVIDUALLY DESIGNED NOISE PROTECTION FOR PROJECT SPECIFIC NOISE REQUIREMENTS



## 1. Air Inlet Silencer Baffles

Made of sea water resistance aluminum - could be delivered with tailored casing.



## 2. Motor Enclosure

Wall elements with easy opening and shaft cover.



## 3. Acoustic Splash Board

The combination of reducing the splash out and noise damping.

## 4. Air Outlet Silencer Baffles

Both low and high frequency noise attenuation along with low pressure drop



## 5. Water Noise Attenuator

The expert for high frequencies with no impact to cooling tower performance.



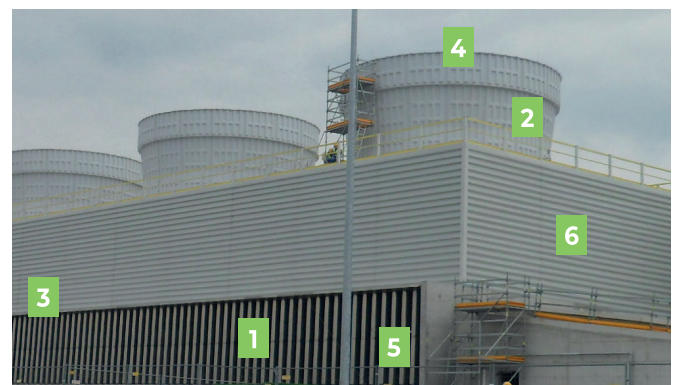
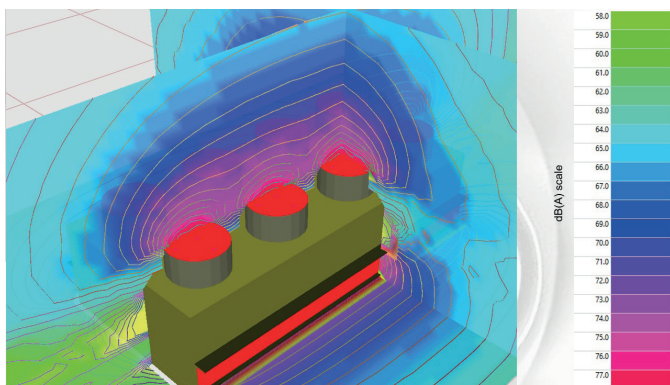
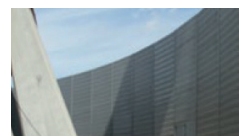
## 6. Acoustic Cladding

High absorptive panels for special housing tasks.



## 7. Noise Barrier Walls

Whenever additional noise reduction in the vicinity of the source is required.





## 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
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- ▶ Industrial Plants
- ▶ Petrochemical & Chemical
- ▶ Pharma & Bio Pharma
- ▶ Infrastructure



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