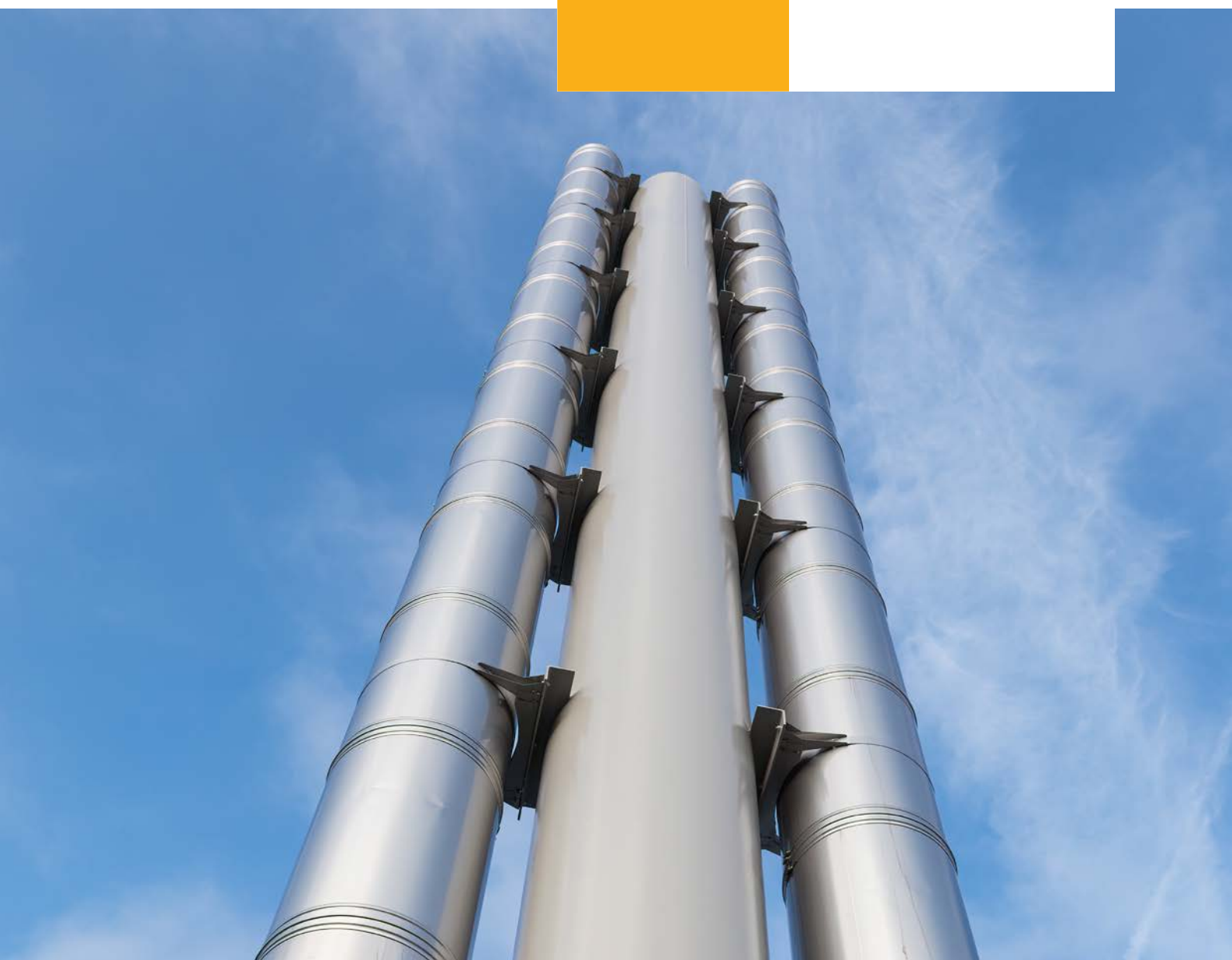


SCHIEDEL METALOTERM



Schiedel Metaloterm

Commercial Range



Metaloterm.com

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For more than 50 years, Schiedel Metaloterm have been designing, manufacturing and distributing systems throughout Europe.

Schiedel Metaloterm provide innovative commercial heating solutions in multi-accommodation buildings where central heating and hot water boilers provide the right temperature at the right time ensure maximum efficiency and low environmental impact.

Schiedel Metaloterm AD

The Schiedel Metaloterm AD system is a modular twin wall insulated exhaust system, made of stainless steel, with a high pressure sealing.

Applications

- Gas/Diesel engines
- (Emergency) power gensets
- Uninterrupted Power Supply (UPS)
- Industrial processes

Advantages

- Inner and outer wall from high quality stainless steel
- No thermal bridges; better heat protection
- Stress free thermal expansion
- High quality insulation uninterrupted from base plate to top stub



Technical characteristics	
Fuel	Diesel, gas, oil, process wastes
Firing temp.	600°C
Mode of operation	High Positive Pressure (H1)
Pressure capabilities	500Pa
Diameter range	130-700mm



EN 1856-1:T600 H1 DV2 L50050 O50,T600 N1 DV2 L50050 G50
EN 1856-2:T600 H1 DV2 L50050 O50,T600 N1 DV2 L50050 G50

Schiedel Metaloterm AM

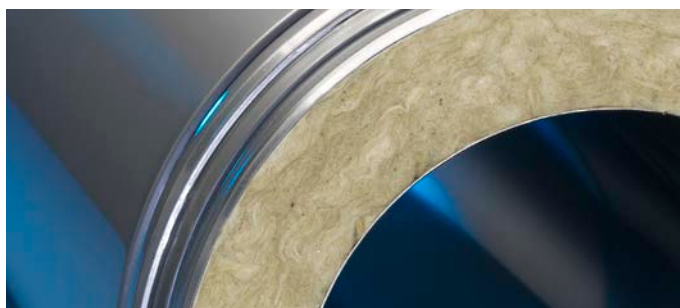
The Schiedel Metaloterm AM system is a modular twin wall insulated exhaust system, made of extreme high quality stainless steel, with a high pressure sealing.

Applications

- Auxiliary and propulsion engines
- (Emergency) power gensets
- Incinerators
- Boilers

Advantages

- Outer wall from 254 SMO
- No thermal bridges; better heat protection
- Stress free thermal expansion
- High quality insulation uninterrupted from base plate to top stub



Technical characteristics	
Fuel	Diesel, gas, oil, process wastes
Firing temp.	600°C
Mode of operation	High Positive Pressure (H1)
Pressure capabilities	5000Pa
Diameter range	80-600mm



EN 1856-1:T600 H1 DV2 L50050 O50,T600 N1 DV2 L50050 G50
EN 1856-2:T600 H1 DV2 L50050 O50,T600 N1 DV2 L50050 G50

Schiedel Metaloterm are Lloyds Register Approved for Marine & Offshore applications such as cruise ships, yachts, as well as tankers and offshore platforms. Schiedel Metaloterm also specialise in flue systems for coastal buildings, where corrosion and environmental impact is increased.

Schiedel Metaloterm will help you to aim for the best method of optimising the use of power and converting it into energy from your generator sets and CHP applications, as well as the most efficient way of discharging exhaust gases.

Schiedel Metaloterm MF

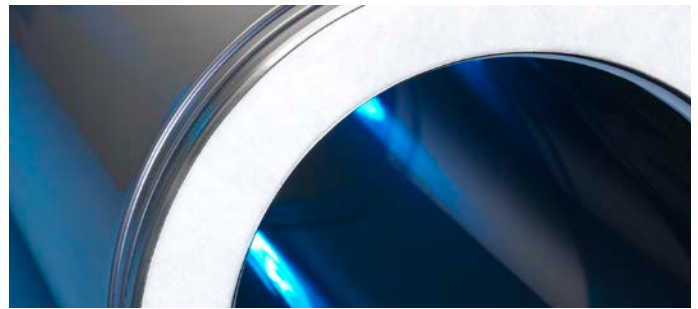
The Schiedel Metaloterm MF system is a modular twin wall insulated flue/chimney system, made of stainless steel, with a high temperature sealing ring.

Applications

- Atmospheric gas-fired boilers
- Condensing boilers
- Wood-fired stoves
- Industrial ovens, large-scale establishments

Advantages

- Inner- and outer wall from high quality stainless steel
- No terminal bridges, uninterrupted insulation from base plate to top stub
- Stress free thermal expansion
- Fast-build system without the need of sealants
- High density and high quality insulation
- High-temperature silicone sealing ring
- Chimney fire resistant



Technical characteristics	
Fuel	Oil/wood/coal/pellets normal(wood)/gas
Firing temp.	200°C positive pressure
Mode of operation	Dry/wet
Max. working pressure	5000Pa
Inner diameter range	100-100mm

CE EN 1856-1:T200 P1 WV2 L50040 O10 |T200 H1 WV2 L50040 O10,T450 N1 WV2 L50040 O40 T450 N1 D V3 L50040 G50 |T600 N1 D V3 L50040 G70,
EN 1856-2:T200 P1 WV2 L50040 O10 |T200 H1 WV2 L50040 O10,T450 N1 WV2 L50040 O40 T450 N1 D V3 L50040 G70 |T600 N1 D V3 L50040 G70

Schiedel Metaloterm ME

The Schiedel Metaloterm ME system is a modular single wall flue/chimney system, made of stainless steel with a high temperature sealing ring. It can resist a chimney fire.

Applications

- Shaft liner in renovation projects
- Air inlet & ventilation systems
- Flue system for condensing heaters and boilers
- Chimney renovation

Advantages

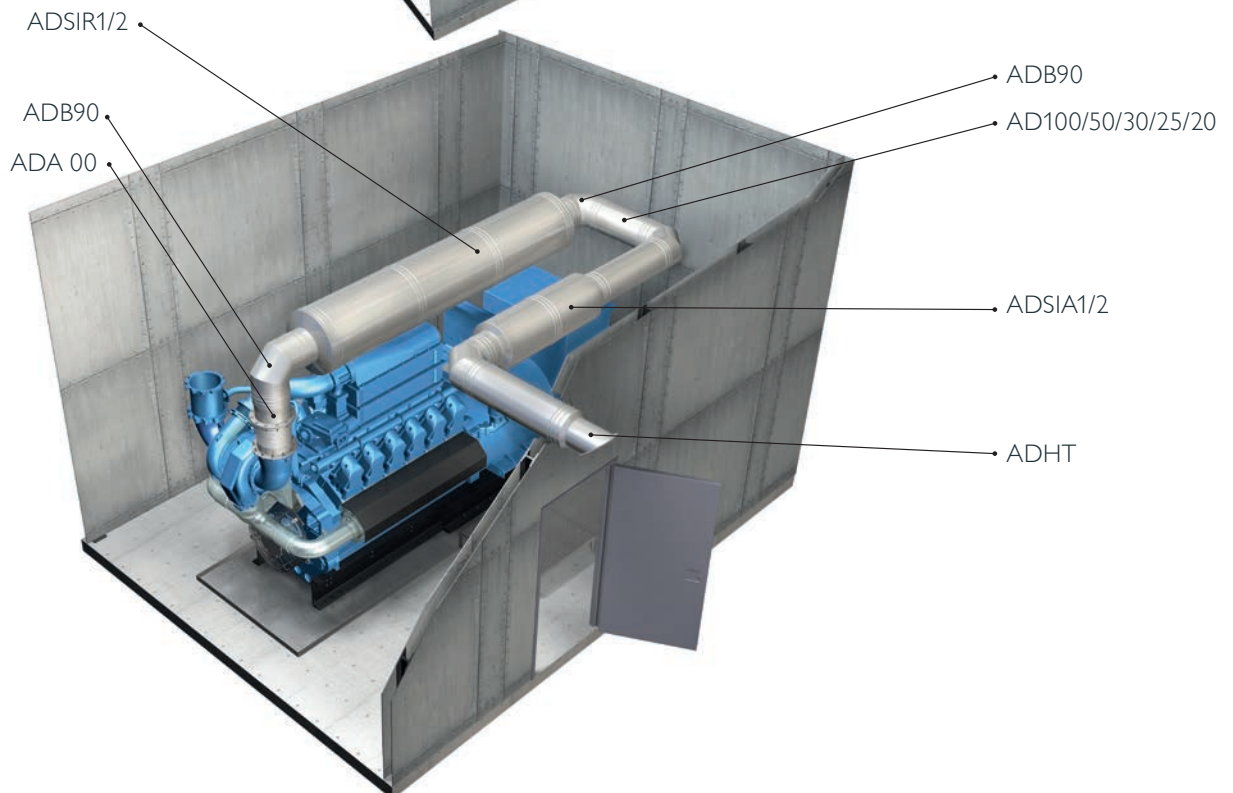
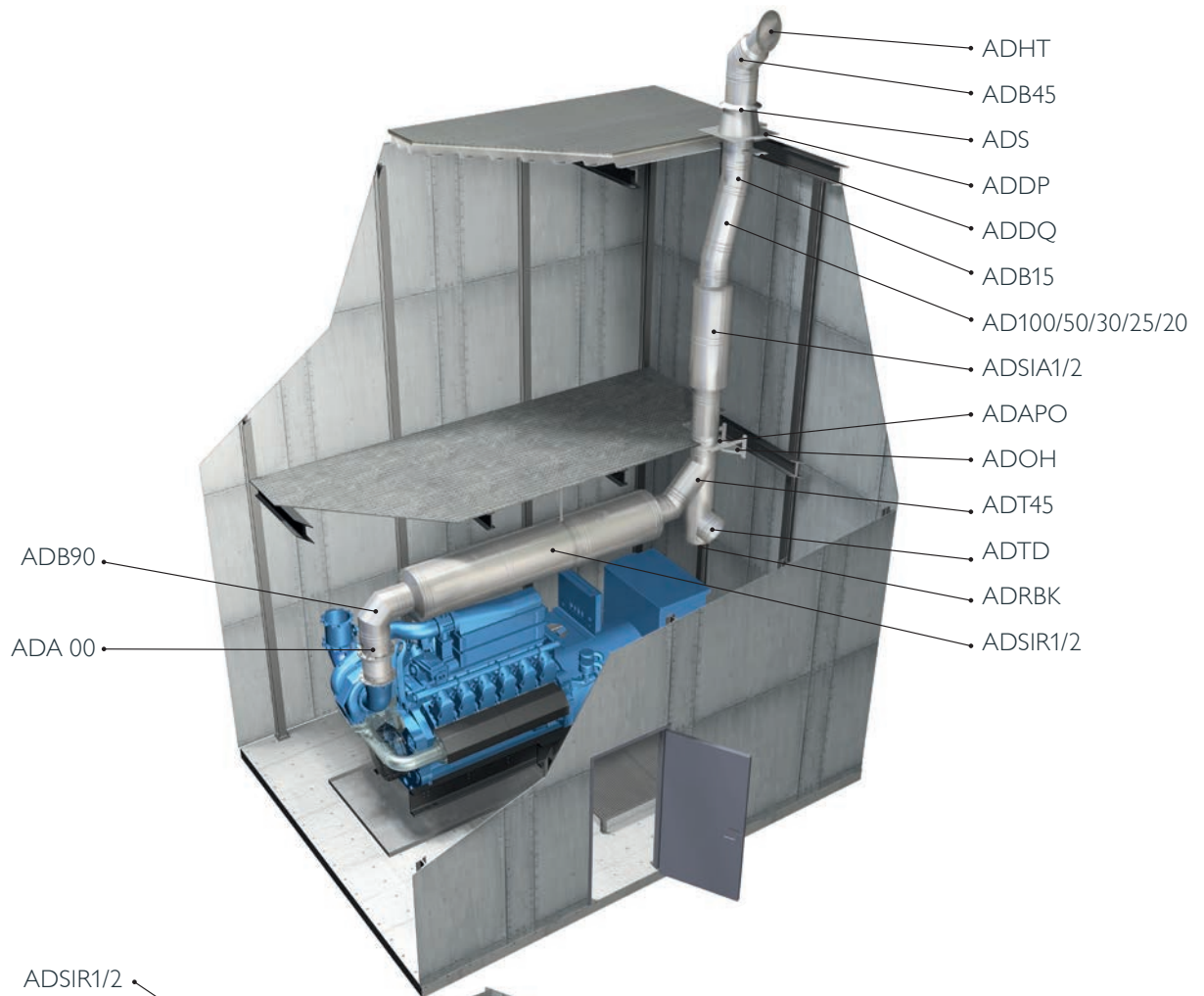
- Stress free thermal expansion
- Can be connected to Schiedel Metaloterm MF
- High quality stainless steel system
- High temperature silicone sealing ring
- Universal application
- Chimney fire resistant



Technical characteristics	
Fuel	Gas, oil
Firing temp.	200°C
Mode of operation	Positive Pressure (P1)
Pressure capabilities	200Pa
Diameter range	80-750mm

CE EN 1856-1:T200 P1 WV2 L50050 O30 |T200 H1 WV2 L50050 O30 |T400 N1 WV2 L50050 O70
EN 1856-2:T200 P1 WV2 L50050 O30 |T200 P1 WV2 L50050 O |T200 H1 WV2 L50050 O30,
T200 H1 WV2 L50050 O |T400 N1 WV2 L50050 O100 |T450 N1 DV2 L50050 G,
T450 N1 DV2 L50050 G400 |T600 N1 DV2 L50050 G |T600 N1 DV2 L50050 G400

Schiedel Metaloterm AD



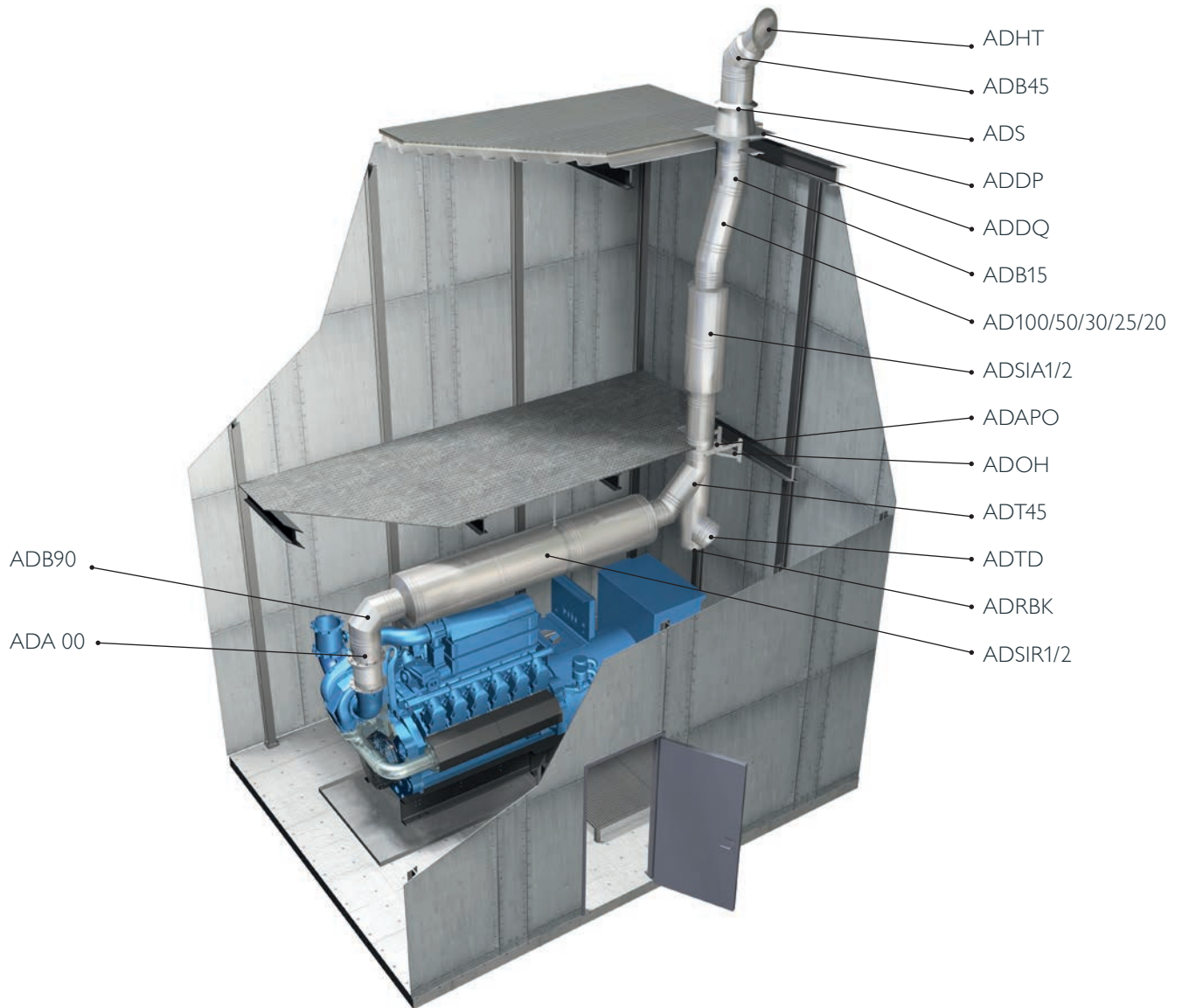


Our systems are used as chimneys, flue liners, waste air systems and industrial solutions

We offer a solution for every industry.

Schiedel Metaloterm AD 500mm diameter flue for standby gas generators. Installation by Falcon Flues in West Bromwich, United Kingdom.

Schiedel Metaloterm AM



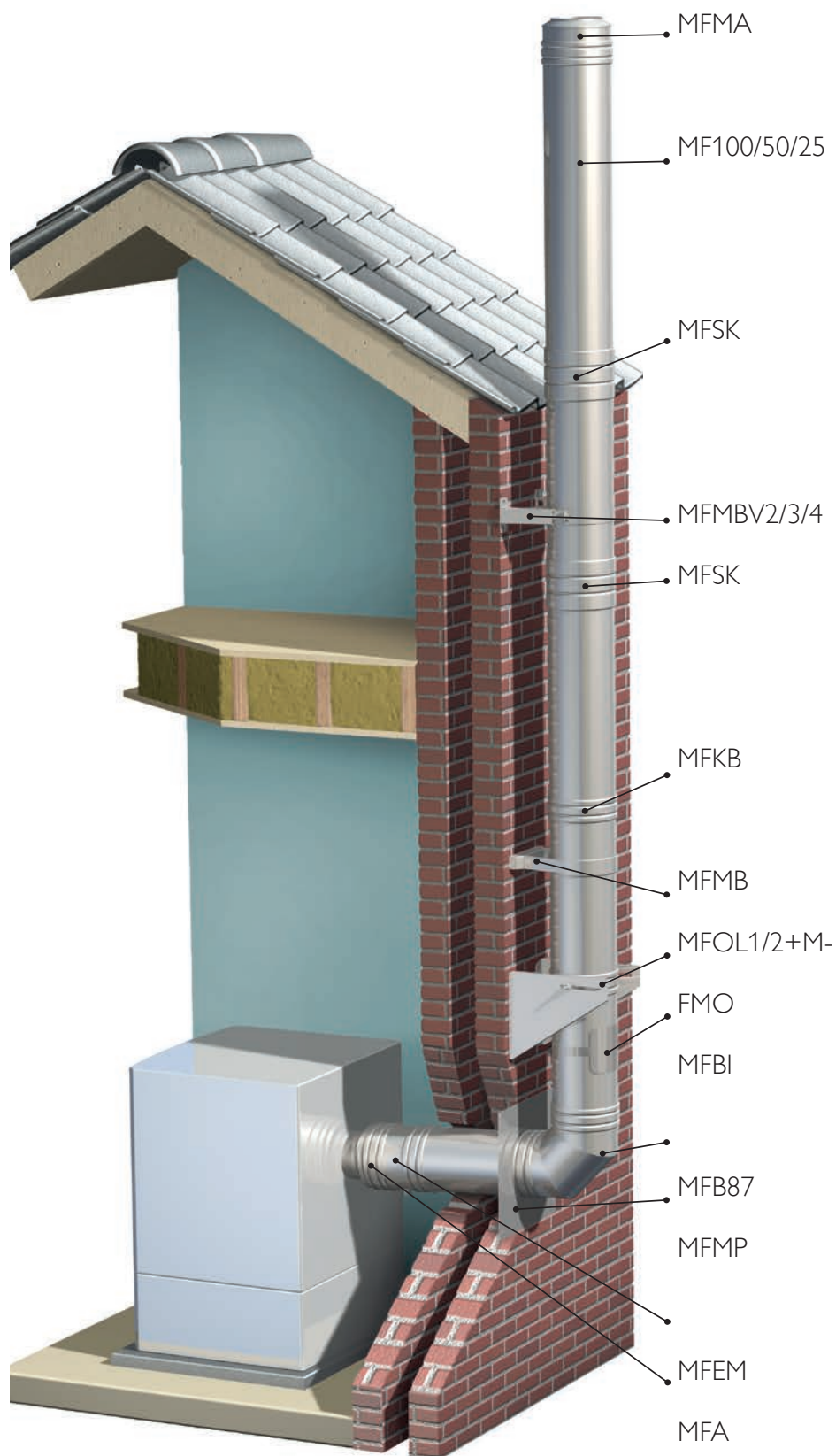


Cruise ships, commercial vessels, offshore platforms, diesel generators are a speciality for Schiedel Metaloterm.

Our engineers know which products fit perfectly in your specific situation.

An AM flue system on a large ocean liner based in Poland

Schiedel Metaloterm MF

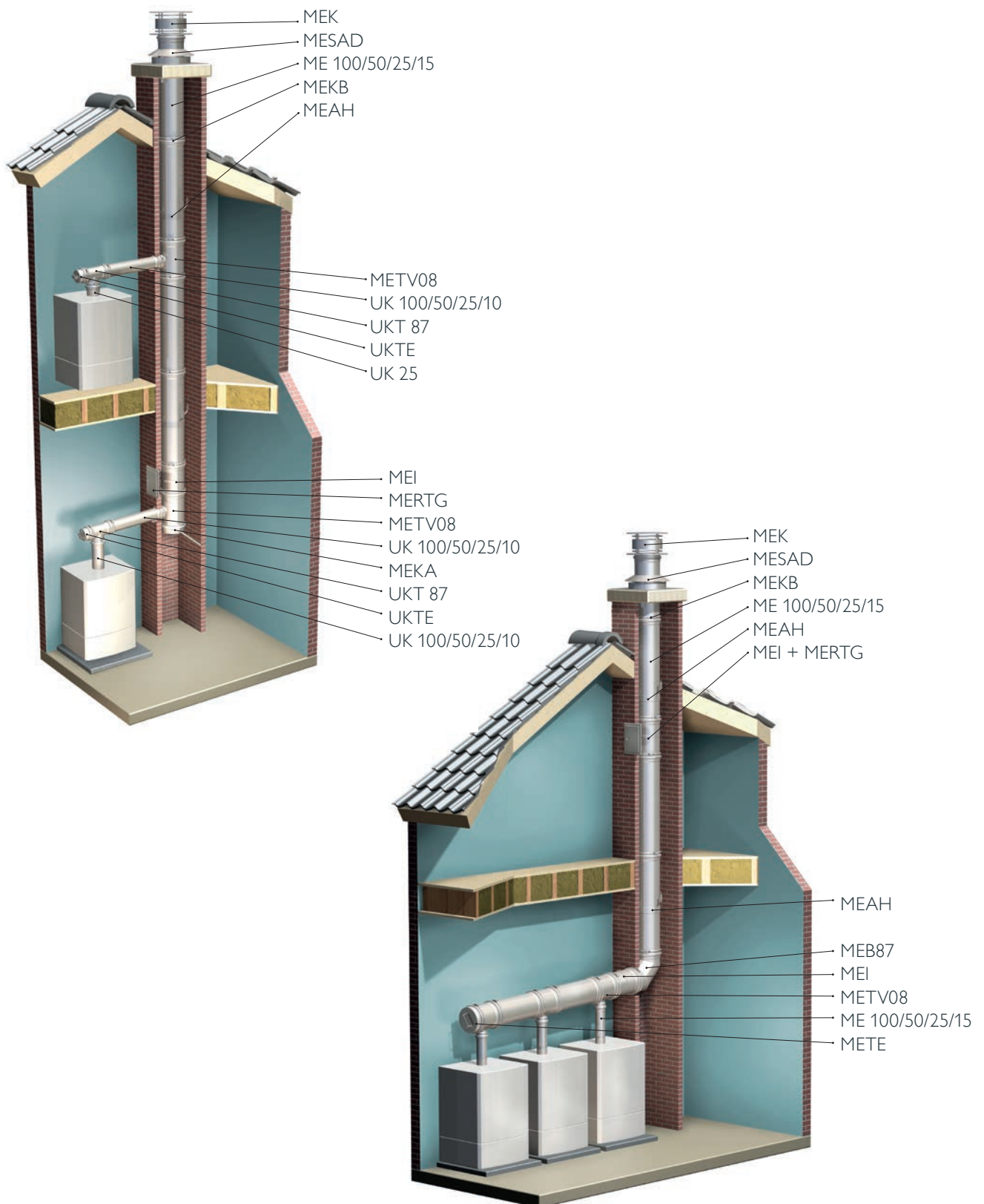


Schiedel Metaloterm can design products based on your specifications, tailor made to your projects.



A superb MF installation in Italy showing a large diameter external flue system.

Schiedel Metaloterm ME

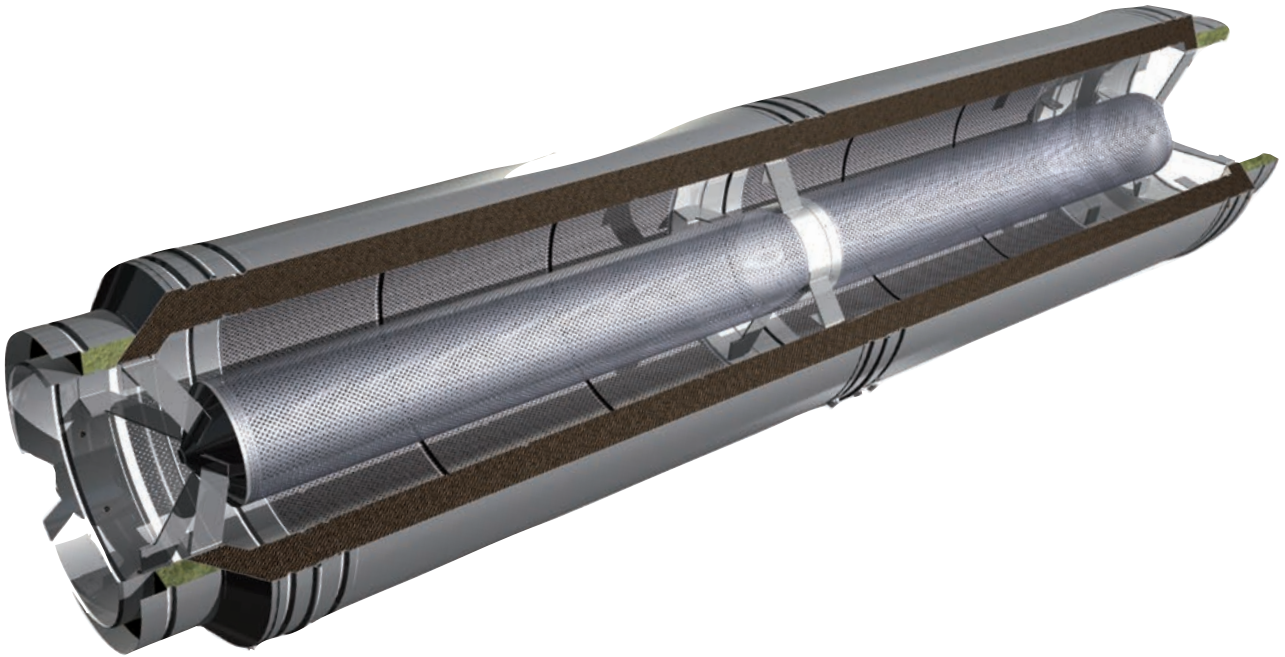


A close-up photograph of a metallic, curved flue component. The surface is highly reflective, showing bright blue and white highlights from an overhead light source. The background is dark and out of focus, emphasizing the metallic texture and curvature of the flue.

A dedicated UK Customer Service team can support you with products, lead times, technical advice and knowledge about legislation.

Close up of the ME flue

Schiedel Metaloterm Noise Reduction



Schiedel Metaloterm have developed their own silencer programme due the increasing demand for noise attenuation and after extensive research and development by a team of their acoustic engineers.

Schiedel Metaloterm can present a unique variety of stainless steel, light-weight, silencers, all fitting seamless into the existing product range for exhaust gas and flue systems.

WHY NOISE REDUCTION?

Typically, the Schiedel Metaloterm Silencer is used with appliances that produce substantial noise, above and beyond the legal or comfort limits. With regulations concerning permissible noise levels becoming stricter throughout Europe, Schiedel Metaloterm has developed a full range of innovative silencers to meet this demand.

THE TYPE OF SILENCERS

Different frequencies demand different types of silencers.

Higher frequencies can be reduced by absorption of the sound. For this, an absorbing material is applied, usually a type of mineral wool.

Lower frequencies can be reduced by resonance silencers. For this, the silencer is divided into connected chambers of various dimensions, to reflect and therefore reduce the noise.

In situations where the velocity of the flue gases exceeds 20 m/s, noise will naturally occur, which will influence the sound spectrum.

In many installations, the different types are combined to achieve the best results.

Schiedel Metaloterm Noise Reduction

ADVANTAGES

Choosing a Schiedel Metaloterm silencer means that you have the most efficient product on the market. The advantages given by the use of Schiedel Metaloterm silencers are numerous:

- Twin wall and pre-insulated
- All silencers are equipped with “click-fix” connections at the inlet and outlet to suit the modular character of the various Schiedel Metaloterm systems
- Extremely light weight properties, ensuring a weight reduction of up to 50%, compared to traditional heavy steel welded silencers
- Due to these light weight properties there is minimal transfer of vibration to surrounding structures
- All silencers are constructed using high quality stainless steel materials only
- Due to the fact that any thermal expansion is compensated inside for the silencer construction, expensive compensators and flexible mounting kits are not necessary
- Schiedel Metaloterm’s own standard supports and brackets can be used for installation
- All Schiedel Metaloterm silencers are developed and tested in our own testing facilities according to international standards

Schiedel Metaloterm offers a time saving, cost effective and high quality solution for any acoustic demand, whether this is for buildings situated in urban, commercial or industrial areas, or for passenger vessels, commercial ships or even mega yachts.



Heat Recovery

The economical use of energy fits entirely in the "We Care" philosophy of Schiedel Metaloterm. Therefore we have developed our own heat recovery system which, thanks to its simplicity, only requires a small investment and can yield considerable savings in fuel use.

This heat recovery system consists of a concentric system which combines burner air inlet and flue gas outlet. As a result the supplied burner air is preheated by the warmth of the flue. By preheating the burner, air less fuel is needed to achieve the desired temperature.

- **Short pay-back time of 1 to 2 years** - A low investment combined with considerable cost savings through more efficient use of the burner.
- **Simplicity** - No complex measurement and control system needed because the system does not make use of any other (additional) medium such as water.
- **No accumulation needed** - The released warmth is re-introduced into the process immediately.
- **Quick installation** - The installation is practically identical to the mounting of a normal flue system.
- **Easy to clean** - The smooth inner wall of the flue makes the system easy to clean.

The system is ideally suited for preheating burner air of (bakery) furnaces, but it can also be used for the heating of spaces.



A recent project for Dijke Ovens saw a custom built concentric system specifically for the oven types designed by Dijke. Approximately 6% of the heat is recovered and used to supply heat back into the ovens, making the system exceptionally efficient.

Please visit www.dijke.com for more information



Marine and Offshore

The construction of a ship or an offshore platform comes with many sector-specific challenges.

The balance must be perfect, the comfort offered to travellers and crew must be optimal, and then there are the salt water and environmental aspects that have to be taken into account.

EXHAUSTS FOR MARINE ENGINES, BOILERS AND GALLEYS

With diesel engines, boilers, incinerators and galley systems, modern ships, super yachts and tow boats need a variety of different exhaust systems. For these applications the Schiedel Metaloterm AD/AM system offers solutions that are proven.

This modular (twin-wall insulated), lightweight system is easily installed and does not require any compensator.

Beside the modular systems, Schiedel Metaloterm engineers are specialists in work that is tailored for the marine industry.

SILENCERS FOR SHIP BUILDING

The range comprises of silencers that guarantee excellent noise reduction across the full frequency range. All parts are made of stainless steel and the AISI 254 SMO outer wall of the AM products (above deck) offers the highest possible corrosion resistance. The Schiedel Metaloterm AD/AM has been approved by ABS, DNV GL, Bureau Veritas, Lloyd's Register and PRS.

20 YEARS OF EXPERIENCE IN MARINE & OFFSHORE

Schiedel Metaloterm has 20 years of experience in the field of exhaust systems for maritime use and has an impressive list of references to show for it. This includes, amongst others, exhaust pipes for engines of superyachts, cruise ships, platform supply vessels and tow boats. Schiedel Metaloterm also specialises in coastal flue systems, where the environmental impact and corrosion is far more substantial than an inland project.

The Schiedel Metaloterm project engineers have extensive knowledge of maritime exhaust applications and are always on standby to offer advice to customers and to make calculations in the fields of acoustics, counter pressure, outer wall temperature etc. The systems are especially designed for (diesel) engine applications such as gensets and uninterrupted power supply.





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Schiedel Metaloterm
Schiedel Chimney Systems
Crowther Estate, Washington
Tyne & Wear NE38 0AQ
Tel. +44 (0)191 416 1150

info.uk@metaloterm.com
Metaloterm.com

A **standard**
INDUSTRIES COMPANY