



MARINE & OFFSHORE

Water, Air, Life

WEGER
quality air / quality life

- secure**
- sturdy**
- flexible**
- corrosion-resistant**
- journeying on all 7 oceans**
- for all ship classes**

Defying the elements

Passion for air and climate.

Driven by a spirit of innovation, passion and commitment to quality, we have achieved unmatched standards in the industry. As a family business from South Tyrol, we have become a global player in air conditioning and ventilation systems. Founded in 1977 with 8 employees dedicated to plant engineering and the production of ventilation ducts and air conditioning accessories, we decided to go the whole hog – with the production of complex system solutions for air and climate. Technological progress for best air quality. All in the interests of our customers.

GLOBAL COMPANY

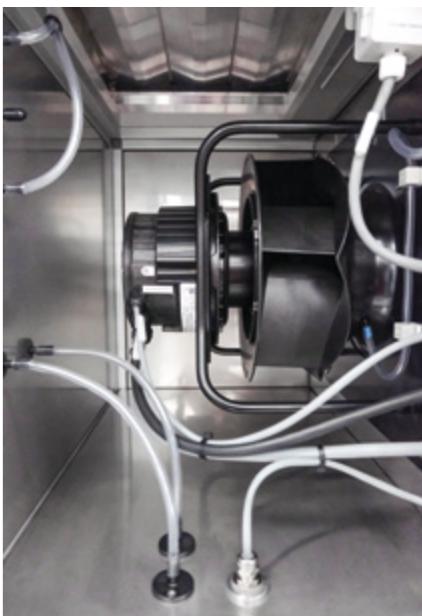
Today, our second-generation family business is active all over the world. In cutting-edge production plants, we manufacture advanced air conditioning and ventilation units for a wide variety of areas and requirements. With excellent references from home and abroad. We owe this to our highly trained and motivated employees as well as to our attitude towards the environment. We are the industry benchmark for sustainability and energy efficiency, for example through heat recovery.



Control dampers distribute the total air volume to different ship zones.



Rotary exchanger in stainless steel design



EC fans of the latest generation with cable fittings to meet marine requirements



Comfortable motor pull-out rail



Heat exchanger with sea air resistant coating



Elastic connecting piece, resistant to high temperatures

As a globally active company for sophisticated ventilation systems, it is obvious that WEGER can support even the most complex, mobile systems with the best air in all climate zones.

Our DIWER series is ideal for this. Their self-supporting framework construction can be adapted to all requirements, large or small, with precision to the millimetre. If necessary, the aluminium-anodised frame construction can be completely dismantled as it does not require welded or riveted joints.

The panels are affixed by the tried and tested clamping strip system. The DIWER series are therefore particularly easy to maintain and do not require any screws. These housing walls are constructed in a sandwich construction with integrated sound and thermal insulation inside (min. density 50 kg/m³). This enables us to achieve excellent sound insulation values and optimum fire protection ratings.

The sea air with its high salt content presents special challenges for the materials. Therefore, we offer our units in various designs: galvanised,

in stainless steel V2A Aisi 304 or V4A Aisi 316L, in a lightweight aluminium construction or with plasticised sheets, which are available in several standard colours.

After fulfilling all relevant standards, our systems are delivered as standard on a 120 mm galvanised base frame. In addition to lifting lugs at the load points, openings can also be provided on request for forklift handling. Furthermore, these are also practical „cleaning openings“, regardless of whether the base frame is welded to the ship's bottom or not.

Cast off, ahoy fresh air

In the vastness of the world's oceans it is difficult to find spare parts, and space on ships is extremely limited. Therefore, all materials are made particularly robust and easily replaceable in a worst-case scenario. Cassette filters can be pulled out sideways and are equipped with easy-to-open frames for changing the filters. The electric air heaters are equipped with smooth, salt-water aerosol-resistant pipes and the air control dampers are available with counter-rotating hollow profiles and lip seals.

The units can be equipped with elastic sockets made of airtight special fabric; certified for shipbuilding on request with a temperature resistance of up to 300°C for 120 minutes.

The fan motors are of course vibration isolated. WEGER has perfectly adapted to the needs of movements at sea: whether with "breakwaters" in condensate trays or special cables and their protection.



Copper register
and trough with
breakwater



Panel filter with plug-in
frame for changing the
filter mats

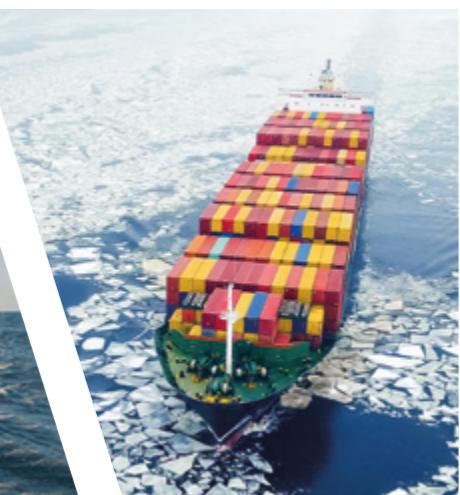


Elastomer dampers
for high radial and
axial forces



MILITARY

For military purposes, the level of protection must be increased: reinforced frames, splinter protection corners, special dampers for shock and vibration resistant designs, motors with standstill heating and electromagnetic shielding and much more. According to customer requirements.





“For continuous operation in harsh air conditions, such as at sea, it is important to have experience with special materials.”

Burbo Bank, Liverpool

HANNES KAHLER, WEGER Engineering



High comfort offshore

Platforms on the high seas are more exposed to the elements and can neither evade nor enter the port. Therefore, permanent operational readiness is the top priority. Autonomous cooling and heating are made possible by the use of special refrigerants and thus without water supply. To ensure reliability, critical systems such as fans, coolers, heaters, etc. are designed redundantly.

In the offshore area, all surfaces, inside and outside, are made of stainless steel. Galvanising and powder coatings are not sufficient to defy the salt water aerosol in the long term. Of course, the components have proven themselves in long-term tests and in practice.

On request, the devices can be equipped with an integrated control system, whereby the cabling is implemented in a halogen-free and fire-resistant design class.



Air for life. Climate for well-being.
What we produce meets essential human
needs. That drives us to do our best.
System solutions for ventilation and
air conditioning that inspire thanks
to cutting-edge technology, reliability
and sustainability. Worldwide.

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