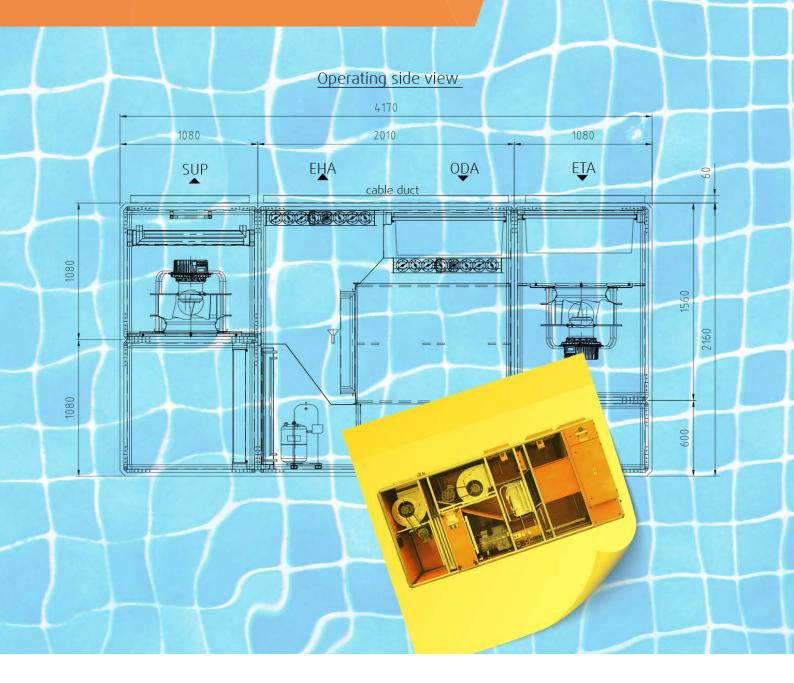
# PUBLIC SWIMMING POOLS

Indoor pool dehumidification for efficient replacement units







#### **ENERGY OPTIMIZATION MADE EASY. A REPLACEMENT THAT PAYS OFF**

#### **Reduction of operating costs**

The dehumidification and heating of a swimming pool may represent a major share of the total cost of ownership.

The application of new technologies and of intelligent control systems not only increases the reliability of operation: it also reduces the operating costs of the dehumidification system.

#### New legislation

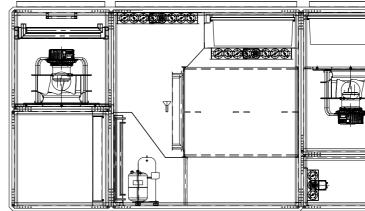
Legislation has steadily changed over the years, and protection of the environment

moves increasingly into focus. Today there are rules and regulations that limit the energy demand by indoor pool dehumidification units. These stipulations include the Energy Saving Ordinance (EnEV) and the Renewable Energy Law (EEG).

Legislation such as the European F-gas regulation contributes enormously to environmental protection. This regulation requires the reduction of climate-damaging gases and prohibits since 1 January 2015 the use of the refrigerant R22

which was used extensively in the 1980s and 1990s. As soon as an intervention into a refrigeration circuit using R22 becomes necessary, the circuit must be taken out of service.

We at Menerga have always been fully aware of this responsibility. We are dedicated to energy-efficient technologies and apply refrigerant R407C as allowed by the F-gas Regulation.



## **SETTING OUT WITH NEW DIMENSIONS! EIGHT SIZES** FOR EFFICIENT REPLACEMENT

Filtration of the exhaust and outdoor air directly at the inlet of the casing, as required by VDI 6022, means that the connection-fitting positions and the unit dimensions are not 100 % identical to

those of earlier units. In case of system exchange, adaptation of the duct system is required. In case of problems with bringing the units into the technical room due to narrow doors or corridors, we can

Model type		33 04 01	33 06 01	33 08 01	33 10 01	33 12 01	33 15 01	33 18 01	33 21 01
Max. air flow	m³/h	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000
Length *	mm	3,210/3,240	3,210/3,240	4,170/3,940	4,170/3,940	4,170/4,820	4,970/4,820	4,970/5,695	4,970/5,695
Width *	mm	1,110/965	1,110/965	1,110/1,140	1,430/1,140	1,430/1,315	1,430/1,315	1,750/1,665	2,070/1,665
Height*/**	mm	1,680/1,490	1,680/1,490	2,070/1,840	2,070/1,840	2,070/2,190	2,070/2,190	2,070/2,190	2,070/2,190

Abmessungen neu/alt

\* Paneelstärke 50 mm (-60 mm bei alternativ 20 mm Deckelstärke) / \*\* ohne Sockel und Kanalanschlüsse

## LATEST TECHNOLOGY THAT PERFECTLY FITS! SIMPLY **UPDATE EQUIPMENT TECHNOLOGY NOW**

### **GOOD REASONS FOR A REPLACEMENT:**

- The latest in technology enables reduction in fan power consumption by 30 %
- Corrosion-free PP heat exchanger reduces the infiltration heat requirement by nearly 20 %, without using ozone-da maging refrigerants
- Latest MSR technology optimizes the mode of operation and reduces energy demand the entire year
- The optimized heat pump operates with approx. 50 % less energy demand for dehumidification and with an F-gas compliant refrigerant
- Extremely fast amortization
- Dehumidification of the indoor pool air only with outside air, which enables safe removal of disinfectant by-products
- Exhaust air and outdoor air filtration directly at air inlet of the housing



NOW

disassemble the device into smaller functional units in advance and mount them onsite. Just ask us in such cases: we will be glad to advise and help you.

EXAMPLE CALCULATION Terms and Conditions Indoor pool surface area Water temperature Air temperature 312 m2 Relative humidity 28 °C 30 °C Air flow Average capacity utilization 54 % 15,000 m3/ 60 % Operation time System operating time 24/7 Swimming/closed hours per day 12 h / 12 h Energy costs Electricity costs per kWh Gas costs per kWh 0.22 € Annual savings in operating costs: 0.08€

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#### **OUR FIELDS OF APPLICATION:**



