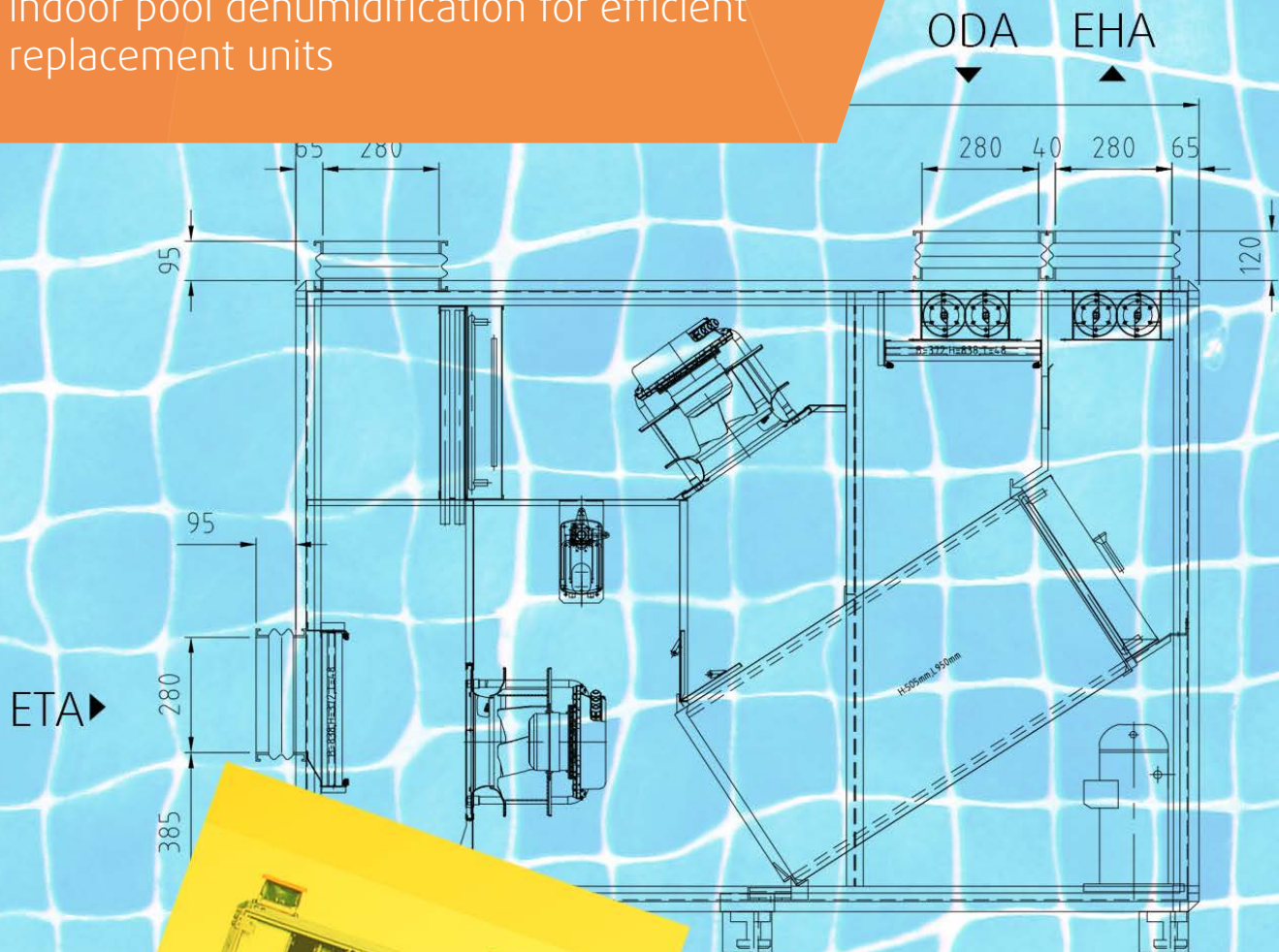


# PRIVATE SWIMMING POOLS

Indoor pool dehumidification for efficient replacement units

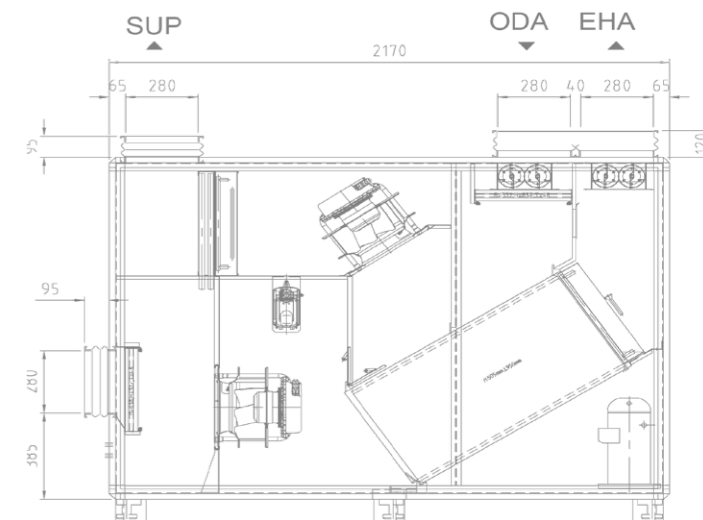




1985



NOW



## 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 devices. These stipulations include the law for saving of energy and usage of renewable energies for heating and cooling in buildings - Building Energy Act. 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 cycle using R22 becomes necessary, the cycle 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.

## TO THE POINT! THREE SIZES THAT SIMPLY FIT

The dimensions of the newly developed models are 100 % compatible with models produced beginning in 1997. Since unit dimensions of units built before 1997 are slightly different, the installation conditions of these units must be checked on-site in advance.

Model type		22 10 01	22 17 01	22 28 01
Max. air flow m <sup>3</sup>	m <sup>3</sup> /h	1.000	1.700	2.800
Length	mm	1.610 (1.670)*	1.850 (1.670)*	2.170 (2.020)*
Width	mm	570 (620)*	730 (795)*	890 (795)*
Height <sup>1</sup>	mm	1.050 (1.145)*	1.370 (1.320)*	1.530 (1.495)*

<sup>1</sup>Plus unit feet

\* Unit dimensions prior to 1997

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

The series ThermoCond 22 was one of the first series with which Menerga fulfilled the dream of an energy-efficient private swimming pool. These units have been employed in large numbers since the 1980s, many of which have reliably served until today.

A new development based on the latest in technology now allows us to replace these systems 1:1, even in tight installation situations in the engineering room. The new unit types are exactly identical to the

positions of the duct connections sleeves for the ThermoCond 22 units from model year 1997.

The replacement units for the series ThermoCond 22 match our current and highly efficient ThermoCond heat recovery system in functionality and technology. The heat recovery system is made of polypropylene (PP) and operates without any ozone-damaging refrigerants. The heat pump likewise operates with an energy-efficient compressor and an optimized evaporator and

condenser unit. This technology has made it possible to significantly reduce the refrigerant charge featured earlier in the series ThermoCond 22. All other components have proved effective and demonstrated their energy efficiency.

The new development also takes full account of changes in legislation.



## GOOD REASONS FOR REPLACEMENT:

- ▶ The latest in technology enables reduction in fan power consumption by 40 %
- ▶ Corrosion-free PP heat exchanger reduces the infiltration heat requirement by nearly 20 % without using ozone-damaging refrigerants
- ▶ Latest MSR technology optimizes the mode of operation and reduces the energy demand the entire year
- ▶ The optimized heat pump operates with approx. 10 % less energy demand for dehumidification and with an F-gas compliant refrigerant

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## OUR FIELDS OF APPLICATION:

