

HEAT RECOVERY MODULE



Allows to recover up to 90% of the energy, returning the makeup water available only 2 ° C colder than the discharged water

To maintain a water quality suitable for human contact, it is necessary to exchange a daily amount of water between 2.5% and 5% of the total volume of the pool.

The MDR recovery module was designed by Techno System to recover the energy from discharged hot water (otherwise discharged into the sewer) and transfer it to the return water withdrawn from aqueduct.

The discharged water, once cooled, can be collect in a tank (even in a part of the compensation tank) and can be used for backwashing the sand filters.



IMMEDIATE ADVANTAGES:

Makeup water temperature made available at 26 ° C with discharged pool water temperature at 28 ° C

Average energy saving of 120Mcal per day

Drastic reduction in methane consumption

Access to TEE incentives - white certificates (where existing)

Greater comfort guaranteed for bathers

Programmable heat recovery cycles with internal calendar

Possibility of managing MIN/MAX level probe on tank

CASE HISTORY: CASCINA'S POOL (Italy)

INITIAL CONDITIONS:

Swimming pool volume	600 m3
Daily discharged water	10 m3
Swimming pool temperature	28°C

ACHIEVED RESULTS:

Test duration	4 month
Makeup water temperature	26°C
Daily average energy saving	120 Mcal/gg

