

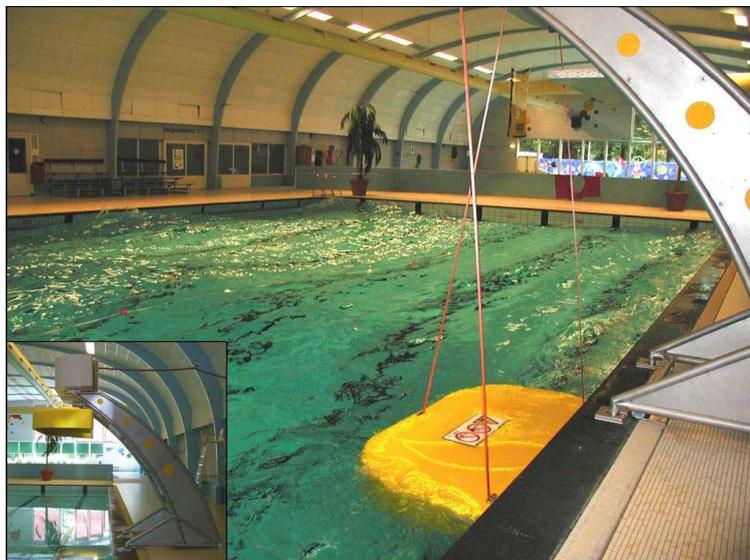


Sea inside Pool "RAVE WAVE"

The wave generator for existing swimming pools.

The Rave Wave is composed by a floating case linked by means of flat ropes to motorisation equipment situated upward on a structure. The wave creation process is based on the excitation of a natural frequency of the pool. So sinus waves are created with very small energy and they are totally safe for the pool and the swimmers.

At stopped state, the floating case is at lifted position and does not obstruct the pool, which can be used in its basic functions. Before creating waves, the case is lowered slowly to pool surface where it fills with water. Then the motor pulls on the case during a short time and leave it lowering again. Repeating of these lifting and lowering actions creates the waves. All the operations are made without action of the swimming instructor.



The wave height set point can be changed. Regardless on the number of swimmers, the power is automatically adjusted to keep the wave height constant equal to the set point. All mechanical parts are situated upward, easy accessible for maintenance. The only parts which should be changed are the ropes and they can easily be replaced by the customer.

In overflow-based pools, the presence of the waves makes water to be transferred into the auxiliary tank and so lowers the water level. After lowering of 10-15cm the waves height becomes acceptable.

The equipment is installed near of the pool border on deeper part. For a swimming pool of 25x12 meters the floating case is 2.5m long, 1.2m wide and weights 80kg. For bigger pools two equipments could be installed. The mechanical support is specially designed for each pool.

There is no turbulence created in the pool; that makes the waves propagate to whole pool. The only equipment in the pool is the floating case and it follows the water surface. The swimmers can swim nearby without any danger; no damage is made to the pool. All active parts are situated in zone 2 (CEI 60364-7-702:1997) making them inaccessible for the swimmers. The Rave Wave is the safest system in wave generation and is CE certified. European patent EP0972122.

Waves

Waves Height (WH): 20cm - 100cm
Automatic regulation of Waves Height
Water level lowering: $(WH-20)/2 = 0-40\text{cm}$
Pool surface (without gutters): 100m²-700m²
Pool surface (with gutters): 100m²-350m²

Materials

Floating case: Polyester/Fiberglass
Ropes: Polyester
Supporting structure: Galvanized coated steel

Ambiance

Run temperature: 0°C - +50°C
Storage temperature: -20°C - +50°C
Humidity: ≤99%

Dimensions

Floating case: ~120cm x 250cm
Under water invisible parts: None
Minimum water depth: 80cm
Recommended water depth: ≥200cm

Electrical Data

Power supply: 3x400V+N+T
Average power rating: ≤2kW
Overcurrent protection: 16A
Delta protection: 30mA for frequency drives
User interface: Wired interface / Remote control
Protection degree of active parts: IP65
Localization of active parts (CEI 60364-7-702:1997):
Zone 2
Option: RS485 MODBUS RTU interface

SOFTWAVES

Rue du Moulin 245
6061 Charleroi - Belgium

Tel/Fax : +32 71 31 80 23
Mob : +32 479 53 97 10
rw@softwaves.be
www.softwaves.be