



relio eco-twin

The relio eco-twin is a high-efficiency run-of-river twin hydroturbine for electricity generation. eco-twin turbines can be deployed in single or array configurations, depending on river conditions. The unique geometry and construction of the twin turbines allows for smooth, stable and vibration-free operation, providing constant, safe and low maintenance electricity output.

Performance

Power generation per twin turbine	up to 750.000 kWh
Turbine revolutions	75 — 125 r.p.m.
Flow rate	1 — 4 m / sec
Usable life span	ca. 25 -30 years

Dimensions

Turbine diameter	2.820 m
Width	7.457 m
Length	10.67 m
Weight	ca. 9,029 kg

Construction

Planetary Drive gearing	1 : 7.36
Generators	2 x 90 kW (110 kW)
Turbine Blades	Stainless Steel, turbine inlet secured with steel wires
Turbine Housing	Aluminium diffuser with boundary layer acceleration
Turbine Float	Float body 1.1 m height
Fish protection / blockage prevention	Wireguard
Installation	Anchor plate secured to river bed with three 63.5 mm GEWI Plus piles. Hydroturbine anchored to the anchor plate with 28 m heavy-duty chain

INCLUDED

- 150 m transmission cable in a protector pipe.
- ABB switching cabinet with 110 kW frequency converter to control network feed-in with surveillance modem.

SOLD SEPARATELY

relio **hydrocat** catamaran boat (for drilling, anchoring, lifting, maintenance and service)