



MOBILE DRINKING WATER UNITS



BLUE LAMELLA



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The BLUE LAMELLA unit is a drinking water treatment plant specifically devised to treat elevated levels of turbidity up to 200 NTU (Nephelometric Turbidity Units).

The BLUE LAMELLA unit includes a water intake system able to draw from conventional or non-conventional water sources such as rivers, lakes, shallow wells, reservoirs, harvested rainwater and groundwater and is designed to produce 3-4 m³/hour of safe drinking water conforming to W.H.O. guidelines.

The unit is ideal for regions where the rainy season brings lots of water but stirs up rivers and dams etc making the water very turbid (cloudy or muddy).

AND HOW IT WORKS

Once in the system, the water to be treated passes through the following treatment stages: flocculation, rapid sedimentation, slow sedimentation with a lamella settler, sand filtration, activated carbon filtration, chlorination and storage.

All the components required for these treatment stages, and the plant operation in general, are included in this compact, trailer mounted system designed to be easily transported to different locations where safe drinking water is scarce or nonexistent.

Another important feature to note is that the unit is equipped with its own built-in generator (seen in the photo above) which ensures the unit's complete autonomy.

Sedimentation and filtration:

- The sedimentation processes included are important to achieve the desired water quality and to protect other components upstream thereby reducing required maintenance and extending the unit's life.

Rapid installation:

- Delivered "ready to start" and highly mobile making it ideal for emergency interventions;
- The configuration optimizes space for both on site movement and for containerized transport.

Trailer:

- Optional but included as standard;
- Innovative rapid twist-lock attachments available;
- NATO specification tow bar and hitches available;
- Built-in storage compartments for accessories.

Generator on board:

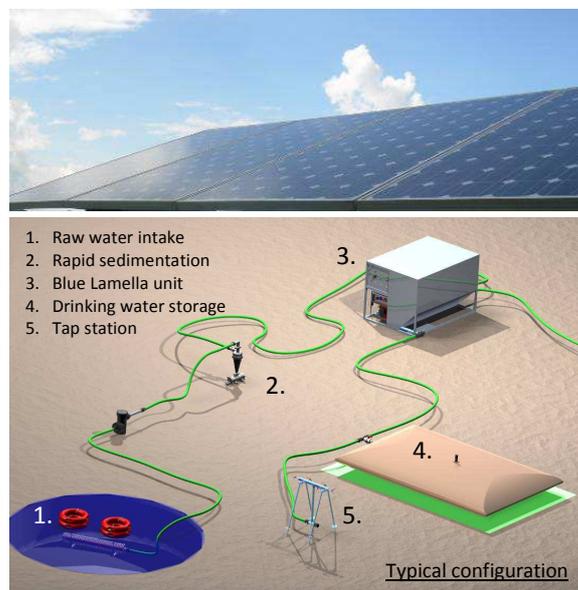
- The unit is autonomous with its own power source;
- Mounted on sliding frame for maximum ventilation;
- Diesel or petrol generators available.



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TECHNICAL DATA

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Raw (feed) water	Turbid fresh water
Drinking water flow rate (depending on raw water quality)	3 ~ 4 m ³ / hr MAX
Ambient working temperature	5 ° C ~ 50 ° C
Required power	1.5 kW - 220 V or 400V 50 Hz or 60 Hz
Dimensions (without trailer)	1100 x 2850 x 1400h mm

SPARE PARTS & ACCESSORIES

✓ Available

DESCRIPTION	BLUE LAMELLA
Spare parts and consumables kits (1, 2 or 3+ year's supply)	✓
Chemicals, cleaning and conservation products (kits)	✓
Chemical dosing system	✓
Floataction device for raw water intake pump	✓
Raw and treated water storage tanks (various types)	✓
Photovoltaic system	✓
Custom canvas cover	✓
Trailer	✓
Trailer with NATO hitch and height-adjustable tow bar	✓
Training on-site or in Euro Mec Water Group facilities	✓
User and O&M manuals in languages other than English/Italian	✓

Idro Group produces a wide range of water treatment plants that can be tailored to your needs.