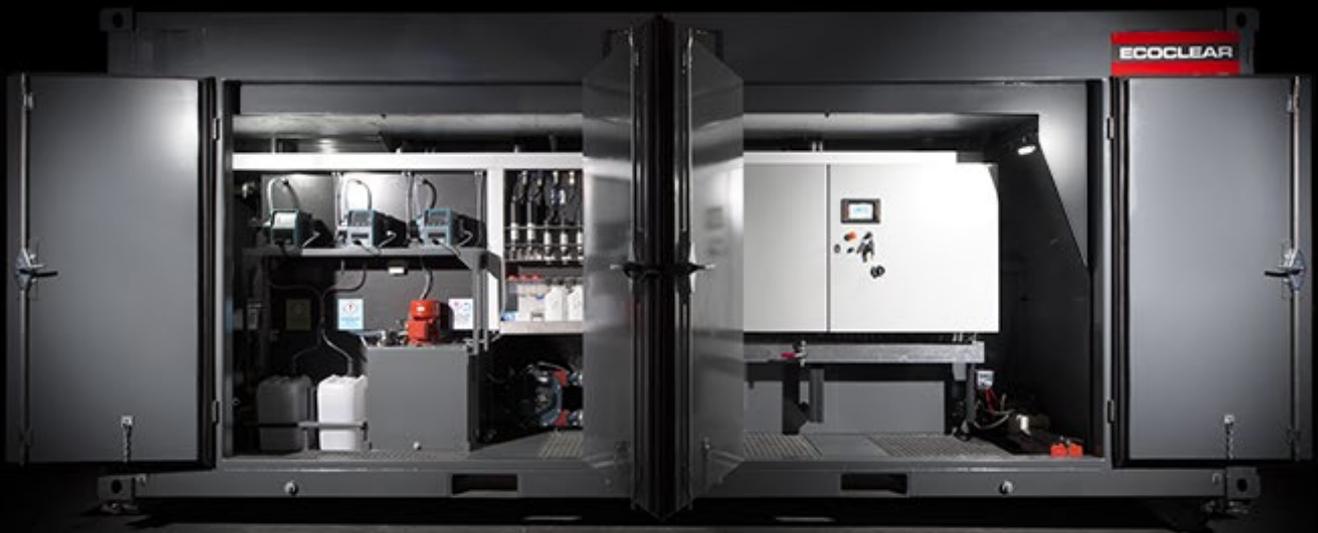


WATER TREATMENT

ECOCLEAR®

CLEAN WATER – CLEAR CONSCIENCE



AQUAJET
SYSTEMS AB



EcoClear

WATER TREATMENT

Green, lean, cleaning machine

The EcoClear is designed to work perfectly with our entire range of Aqua Cutter robots. It's capable of handling an impressive flow rate up to 20 m³/hour (706 ft³/hour).

With EcoClear you can neutralize elevated alkaline pH levels down to pH 6-9 while you have full control of the turbidity level down to 20-40 mg particles per liter. But that's not all. You can do all this without any kind of filters or an extra water reservoir. Perfect for your operation, amazing for the environment.

UNIQUE AS EVERY DROP OF WATER

The EcoClear is powered by Siltbuster Ltd and consists of a number of water treatment chambers. In order to make this piece of water wonder work, the EcoCle-

ar uses flocculation technology to remove the maximum amount of sludge from the water. The treatment unit is operator friendly, allowing you to take care of all particle sizes and weights. The whole process is easily monitored online and with the RECO control system. All in all, EcoClear is unique on the water treatment market, and truly state of the art. Imagine being able to present your customers with a print-out showing the quantity and quality of the water discharged into the environment during a contract. EcoClear makes that a reality.

HOW THE ECOCLEAR WORKS

#1 INLET CHAMBER AND FLOCCULATION

To improve the settlement characteristics, the blast water is pumped into the inlet chamber and mixed with a flocculating agent.

#2 PH ADJUSTMENT

Carbon dioxide, CO₂, is automatically introduced via an internal diffuser to create micro bubbles in order to reduce the pH level of the blastwater.

#3 INTEGRATED LAMELLA CLARIFIER

Flocculated blast water passes through a clarifier where the suspended solids settle, leaving solid free water.

#4 SLUDGE STORAGE HOPPER

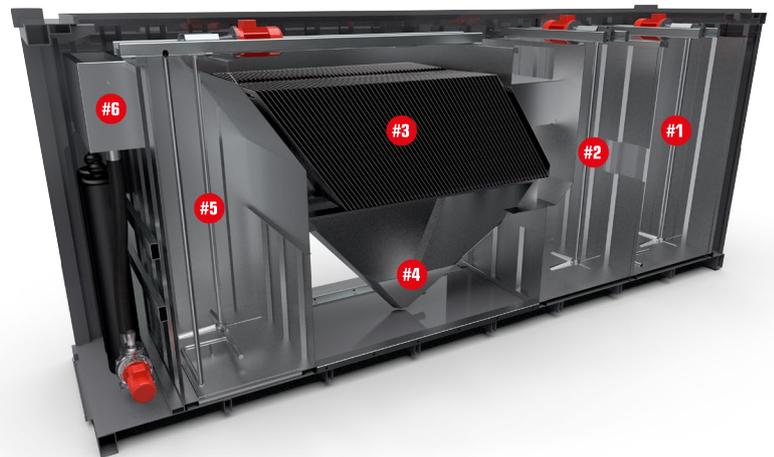
All settled solids are contained within the storage hopper. The solids are pumped out via an integrated pump.

#5 SECONDARY PH ADJUSTMENT

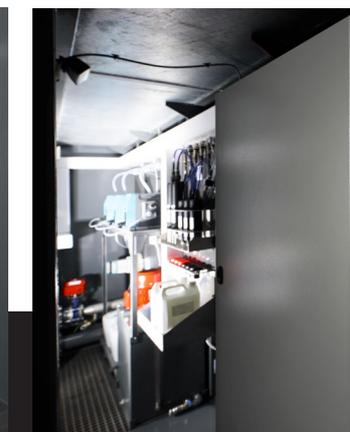
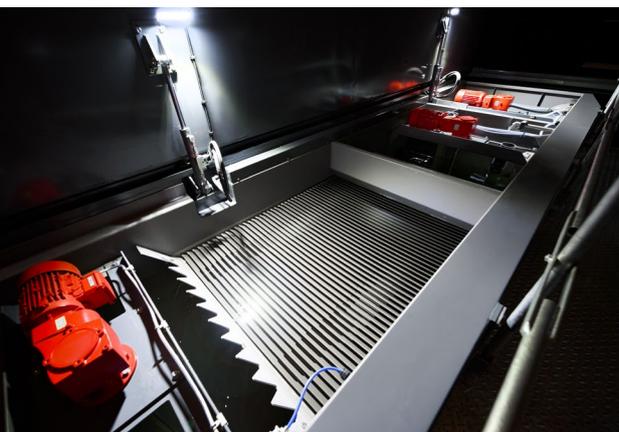
A second pH adjustment stage is often used to optimize the pH level.

#6 TREATED WATER MONITORING TANK

To ensure the desired pH level the treated water is continuously monitored before being discharged.



[Read more at www.aquajet.se](http://www.aquajet.se)





Reco control system

ECOCLEAR

Aquajet's RECO control system handles all monitoring and control of the EcoClear. With just a few settings, it controls and monitors everything and presents it to the operator on a clear and simple display.

Basically, you will not have to worry about water treatment, the RECO system will take care about it for you and clear the water day after day, week after week and tell you the result on the display.

FULL CONTROL

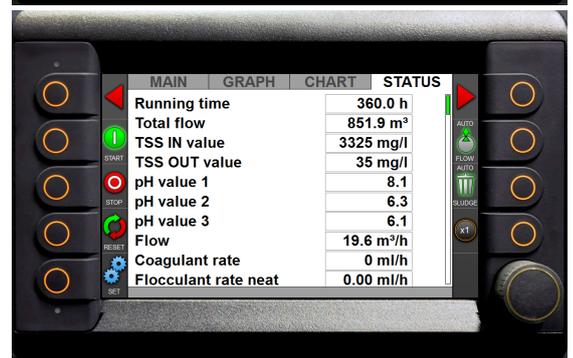
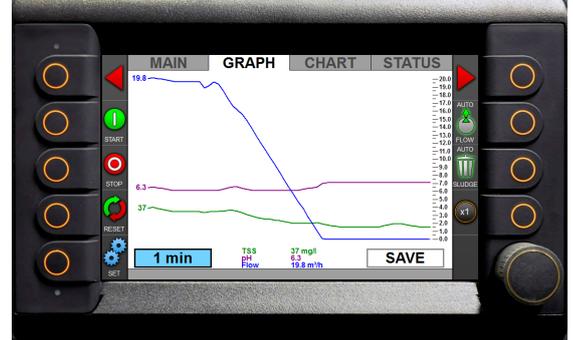
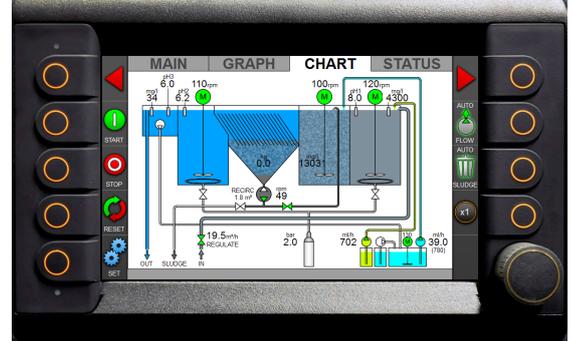
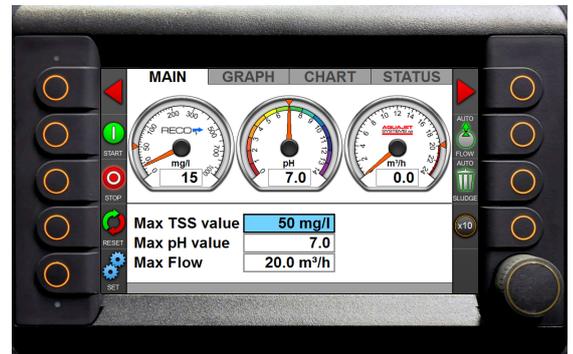
The RECO control system continuously monitors the pH levels and the turbidity levels of both the incoming and the outgoing water, making sure that the water is threaded in the most optimal way and that the discharged water fulfills the set levels.

All historical data of the outgoing water is documented and easily forwarded to third parties.

RECOGNITION

The graphic layout is well known from the Aqua Cutter robots and the Power Pack, making it easy to learn and recognize.

There are four different tabs where each is one step deeper into the system. The Main menu displays the most important information, but if more information is needed you can use Graph, Chart and Status menus.





Ecoclear®

FACTS

RECO CONTROL SYSTEM

Aquajet's RECO control system handles all monitoring and control of the EcoClear. With just a few settings, it controls and monitors everything and presents it to the operator on a clear and simple display.

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AUTOMATED PH ADJUSTMENT

EcoClear uses a digital pH controller and a probe, specifically designed to monitor the incoming pH level of the Hydrodemolition blast water. If an alkaline pH is detected, the system automatically neutralizes the water to set pH value (preferably pH 6-9).

PROPORTIONAL CHEMICAL DOSING

To ensure the correct dosage of chemicals, an advanced algorithm calculates the exact amount of chemicals needed for every drop of water pumped into the EcoClear. This improves the settlement characteristics of suspended solids whenever chemicals are introduced within the integrated reaction tanks.

CONTINUOUS OPERATION

The EcoClear features a frost protected and banded chemical spill stand, to contain accidental leakage. The insulated chemical storage removes the risk of any chemicals escaping from the system.

INSULATED CHEMICAL STORAGE

EcoClear features a frost protected and banded chemical spill stand, to contain accidental leakage. The insulated chemical storage removes the risk of any chemicals escaping from the system.

FOLDING ROOF AND INTEGRATED WALKWAY

The folding roof and the walkway provide access for operators to safely inspect the system, whilst working on the ground or at heights.

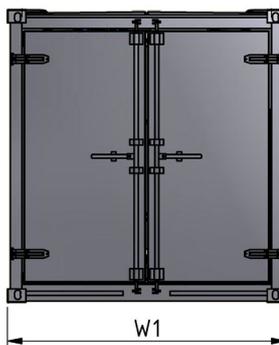
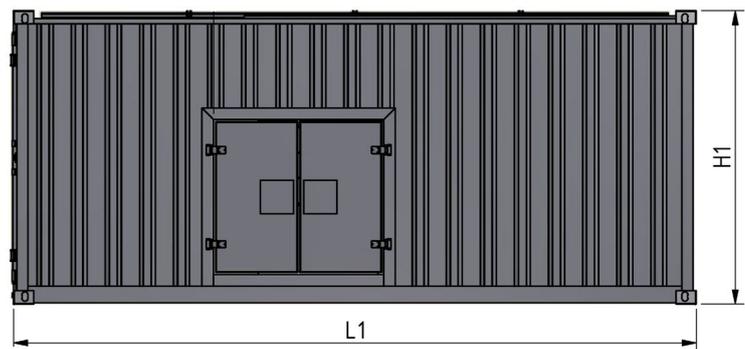
WATER QUALITY MONITORING & LOGGING

Optical turbidity sensors and pH probes continuously monitor and record the water quality, ensuring only clear water is discharged back into the environment or recirculated back to the Power Pack.

If the water exceeds its required limit, the feed pump automatically shuts down to prevent dirty water from escaping. All information regarding outgoing water is stored and easily forwarded to a third party.



Capacity	20 m ³ /h (706 ft ³ /h)
pH outgoing water	6-9 pH
Turbidity outgoing water	20-40 mg/l
pH adjusters	Carbon dioxide (CO ₂)
Neat coagulation fluid	10-30 g/m ³ (0,01-0,03 oz/ft ³)
Neat flocculation fluid	1,5 -3,0 g/m ³ (0,0015-0,003 oz/ft ³)
Carbon Dioxide CO ₂	0,2-0,6 kg/m ³ (0,2-0,6 oz/ft ³)
Length (L1)	6,058 m (ISO 20')
Width (W1)	2,438 m (ISO 8')
Height (H1)	2,591 m (ISO 8,5')
Dry weight	6 ton (13 228 lbs)
Gross weight	18 ton (39 683 lbs)
Approx. dry weight	7500 kg (16 535 lbs)
Approx gross weight	18 000 kg (39 683 lbs)
Process tank volume	12 m ³ (3 170 US gal)
Drive source	Electric 3-phase 15kW 400VAC 25A (Other on request)



AQS032E 1903

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