EXTRUDE HONE®

PRODUCT DATA SHEET

ECM
Electrochemical Machining

HYDROM

Modular electrolyte cleaning unit for improved efficiency in ECM production

To match today's cost pressure and quality requirements in manufacturing, the market is forced create new methods in production in order to remain competitive. The HYDROM electrolyte-cleaning unit can be used as an add-on to ECM (Electrochemical Machining), supporting requirements for quality improvements as well as having the benefits of competitive cost per part production.

FEATURES and BENEFITS

+ **Improved quality and process stability**
  Excellent electrolyte quality ensures constant gap conditions for improved quality and superior process stability.

+ **Competitive cost/part production**
  – Reduce disposal costs on filter cake by 10% (HYDROM in combination with CFP-Chamber Filter Press).
  – Reduce CFP cleaning time by up to 6x.
  – Extended cathode tool life.

+ **Increased machine availablity**
  HYDROM delivers constant electrolyte quality, even when proceeding to the CFP cleaning operation.

+ **Flexibility**
  Modular unit (3000 – 9000 L/H) is adaptable and will meet all of your requirements with increased capacity for additional membranes.

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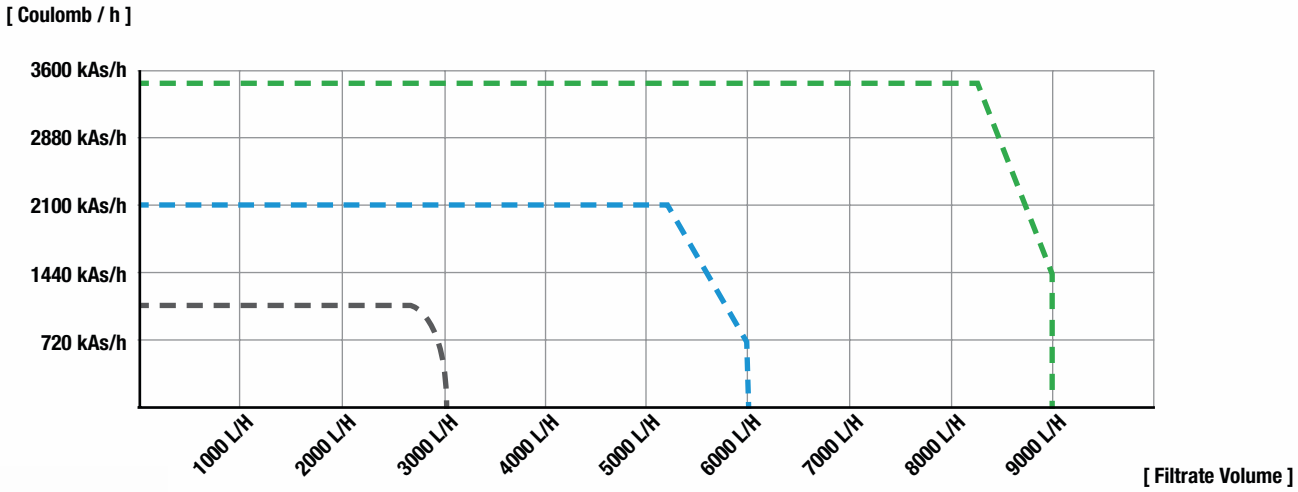
TECHNICAL INFORMATION

ECM HYDROM



MACHINE CONFIGURATION

Base unit equipped with 3000 L/H crossflow unit, sedimentation, and control unit with operator interface.

Available in 3000/6000/9000 L/H filtrate volume.

Transportable unit with small space requirements.

Monitoring and regulation of relevant process parameters.

Stand-alone unit; easily to implement on all types of ECM machines.

Release blocked membranes via airscrubbing and forward flash.

No chemicals required.

Standard unit works for NaNO3, as well as NaCl electrolytes.

Supply pump for CFP integrated machines.

AVAILABLE OPTIONS

Frequency controlled pumps for improved energy efficiency.

Unit available with 3000 L/H, 6000 L/H, and 9000 L/H.

Manually operated CFP for sludge removal.

Automated CFP for sludge removal.

Buffer tank to use HYDROM for multiple machines.

TECHNICAL DATA

Footprint (D x H) = 800mm x 3500mm
– W (3000 l/min) = 2100mm
– W (6000 l/min) = 2800mm
– W (9000 l/min) = 3500mm

Electrical Connection : 400 V AC 3P/N/PE 50 Hz.

Power Requirement : < 5 kW.

NOTE: Specifications and availability are subject to change without notice.