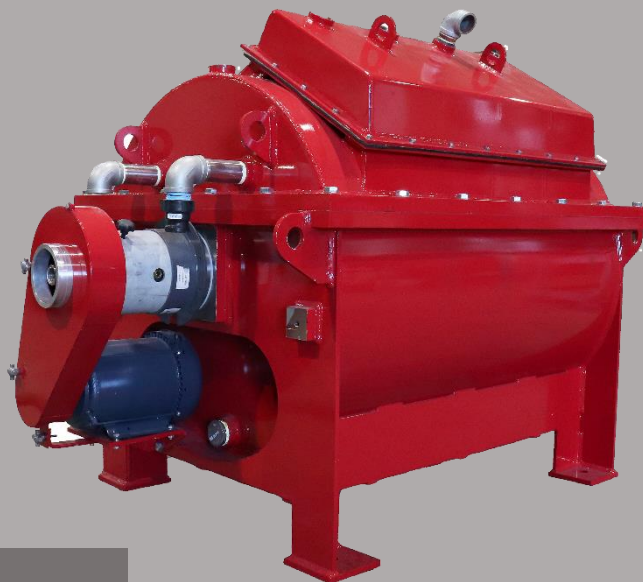


TURBOCOAG® ELECTROCOAGULATION REACTOR TECHNICAL SPECIFICATION SHEET

Ideally suited for:

- Landfill leachate
- Acid mine drainage
- Produced oil water
- Arsenic contamination
- Power plant blowdown
- Industrial wastewater
- Agricultural waste streams
- Food and beverage processing wastewater



High efficiency, compact, scalable, and mobile!

FEATURES

- Standard models from 0.1 to 200 GPM
- Small footprint minimizes floor space requirements
- Heavy duty steel construction
- Controllable throughput
- Large top-access hatch
- Continuous water treatment
- Self-cleaning system
- Passivation-free anode
- Sludge-free reactor
- Low maintenance – two-hour anode replacement
- Efficient removal of multiple contaminants
- Kills bacteria, molds, spores and viruses
- Higher level of suspended solids handled
- Strong flocculant is easily filtered / quickly settled
- Modular, scalable solutions for mobile or fixed install
- Choice of metals for sacrificial anodes enables cost-effective treatment and optimization of contaminant removal

AVIVID WATER TECHNOLOGY

Avid Water Technology provides advanced water purification via its patented TurboCoag® technology to treat industrial water contaminated with emulsified oils, heavy metals, suspended solids, and microorganisms.

AVIVID provides TurboCoag® reactors and parts for wastewater treatment, customized water treatment design services, installation, integration, remote monitoring, and self-service training or maintenance contracts.

Putting a new spin on water treatment.



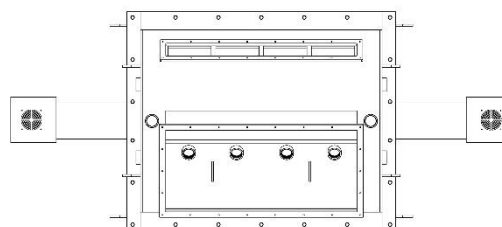
TURBOCOAG® DATA TABLE	TC-B*	TC-M*	TC-V100*	TC-V200*
Design Flow Maximum (GPM)	0.8	10	100	200
System Power Requirement Maximum	200 W	2000 W	35 kW	70 kW
Anode Current Maximum (Amps)	20	500	2500	5000
Voltage Maximum (Volts)	20	20	20	20
AC Power Requirement	110 VAC 1Ø	110 VAC 1Ø	480 VAC 3Ø	480 VAC 3Ø
Anode Quantity	2	8	16	16
Dose Rate Range Aluminum (PPM)	37-150	37-150	37-75	37-150
Internal System Volume (gal)	0.75	40	200	200
Piping Connections (NPT)	½"	1"	2"	2"
Nominal pH Requirement Range	6 - 8	6 - 8	6 - 8	6 - 8
Empty Shipping Weight (lb)	30	88	8400	8400
Full Operating Weight (lb)	38	128	9000	9000
Overall Length	16"	36"	109"	109"
Overall Width	12.5"	40"	43"	43"
Overall Height	13"	27"	57"	57"

* Specifications subject to change without notice.

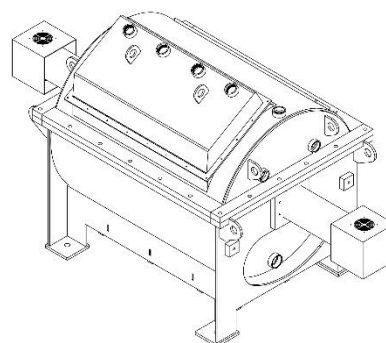
New anodes (photo left) are 0.75" thick. After 40 days of 24x7 use anodes are 0.04" thick without passivation (photo right).



TC-B TurboCoag® Benchtop Unit



TC-V TurboCoag® V Top View



TC-V TurboCoag® V Isometric View

TURBOCOAG® ELECTROCOAGULATION

TurboCoag® is an innovative Tesla pump with patented rotating electrodes. These electrodes are energized with an electrical potential that causes current to flow through the fluid to be treated, dissolving the anodes into reactive anions into the water which binds to contaminants, forming a strong floc. The influent cycles repeatedly within the chamber increasing average dwell time in the reactor. The effluent is processed via conventional water settling or filtration technologies as required by the specific application. **TurboCoag®** offers better process control, a smaller footprint, liquid flow control, and is scalable. AVIVID's electrochemistry presents a cost-effective and advantaged alternative to chemical water treatment via its patented electrocoagulation (EC) reactors. The rotating anode cartridge design solves the fundamental problems of EC applications by preventing anode fouling and internal sludge buildup. Design life of the replaceable cartridge is 15 to 60 days depending upon influent water quality, flow rates, and water discharge requirements.

TurboCoag® reduces waste and decreases OPEX for clients by replacing chemicals in the treatment of contaminated wastewater.

