MAR COR® PURIFICATION
A Cantel Medical Company

Competent, Consistent, & Compliant

Service Carbon - Canada

Catalytic Carbon Tanks

Catalytic Carbon is an effective way to ensure the removal of chloramines and hydrogen sulfide from potable waters. Our portable exchange units contain a liquid phase virgin carbon which exhibits enhanced catalytic functionality. No reactivated carbon is ever used in Mar Cor Purification's service carbon units.

Quality Control of the entire process ensures optimal performance of our Catalytic Carbon units, including media selection, product inspection, documented process controls, and tank traceability. Only carbon media of the highest quality is used so that water quality will not be compromised.

Customized Systems allow for greater flexibility in order to achieve the necessary product water quality. We offer flexibility using Service Carbon in combination with Service Deionization (SDI) systems and provide a wide variety of replacement parts; filter cartridges, membranes, and other accessories. We also offer maintenance service contracts.

Operating Parameters

Recommended Maximum Operating Pressure & Temperature	
0.25 -3.6 ft^3	60 psi / 38°C
Turbidity	5 NTU
Colour	5 units
Organics	3 ppm
Manganese and Iron	0.3 ppm

Tank Specifications

Construction	Fiberglass
Head	Polyethylene
Internals	Polyethylene/PVC
Fittings	Quick Connect
Media	Acid Washed Carbon, 12x40 mesh, Iodine # >900

Shown here, our standard tank models from left to right: 420CCR, 520CCR, 360CCR and 300CCR. Each tank features quick connect fittings for easy installation, service and exchange.

Typical Applications

- General Industry
- Hemodialysis
- Laboratory
- Microelectronics
- Rinsing
- Pharmaceutical / Biotech

Accessories Available

- Pre and post filters
- Sample ports
- Pressure regulators
- Water meters
- Pressure gauges
- Ultraviolet lights

Specifications

- **Iodine Number** 900mg/g (min)
- **Acid soluble Iron by weight** 0.01% (max)
- **Moisture, as packed by weight** 3%(max)
- **Abrasion Number** 75 (min)
- **Extractable pH** 5-8
- **Screen size by weight, (US sieve series)**
  - **On 12 mesh** 5.0% (max)
  - **Through 40 mesh** 4.0% (max)

Technical Data

Product Specifications

Service Exchange Carbon Tanks Specifications

Model Number	Max. Flow Rate USgpm (lpm)	Carbon Volume (ft^3)	Dimensions W x H (in)	Weight (Wet) lbs. (kg)
350CCRF	0.75 (2.8)	0.2	6 x 20	18 (8.2)
350CCR	2 (7.6)	0.2	6 x 23	23 (10.4)
360CCRF	0.75 (2.8)	0.4	6 x 37	31 (14.1)
360CCR	3 (11.4)	0.4	6 x 39	36 (16.3)
300CCRF	0.75 (2.8)	1	8 x 46	66 (29.9)
300CCR	5 (18.9)	1	8 x 48	71 (32.2)
420CCR	10 (37.9)	2	12 x 46	123 (55.8)
520CCR	15 (56.8)	3	14 x 50	202 (91.6)

Note: All weights and dimensions are approximate. Higher flow rates can be obtained with parallel configurations. The F digit in our model numbers refers to a flat top design required for some unique applications.

Features	Benefits
Catalytic activity	Smaller system size; low capital requirements
Not impregnated	No safety concerns with exotherms or toxicity
Improved trace organic captivity	More capacity per unit volume; low use rates
High Hardness	Reduced fines and handling costs
Works at low oxidant levels	Wide applicability; can eliminate chemical addition
Simple equipment design	Reliable; handles spikes in concentration; no metering of chemicals
Reduced carbon requirements	Reduces operating costs
Enhanced performance	Achieves greater degree of contaminant removal at reduced costs
Low water soluble ash content	Ideal for certification under ANSI/NSF test protocols
	Reduced leachable metals related to standard activated carbon

Installation Considerations

- System operates on tap pressure, within a pressure range of 25-60 psi.
- Higher feed pressures must be reduced with both a pressure regulating valve and a pressure relief mechanism.
- The system must be installed on a firm, level surface.
- A floor drain is recommended.
- Accessories may require electrical connections.

No User Maintenance

Mar Cor Purification assumes responsibility for the timely exchange of exhausted catalytic carbon tanks. Specially designed flexible hoses with quick connect fittings ensure minimum downtime. Service locations in Toronto and Montreal are available to provide 24/7 response service.

Hemodialysis

For dialysis Mar Cor always suggest that 2 carbons sized for 5 minutes of EBCT each are used and that daily samples are taken from a sample valve located in between the 2 tanks. EBCT = VGAC x 7.48 flow rate in USGPM.

For More Information

Contact one of our application specialists in Canada at (800) 268-5035, or visit **www.mcpur.com**.

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