



## Portable Exchange Carbon (U.S.) Activated Carbon Tanks

Portable Exchange Carbon is an economical and efficient process for removing chlorine, chloramines and dissolved organic contaminants from incoming water supplies. Our portable exchange tanks contain virgin carbon to assure maximum water quality and service life.

These portable exchange tanks provide greater flexibility than permanent systems by delivering treated water where you need it. This custom approach provides consistent water quality when resources and budgets are limited. These units are excellent for low flow rates, limited water quantities, or just temporary requirements. Your involvement is minimal because our local service technicians handle the removal and replacement keeping you with a constant supply of treated water with no on-site chemicals.

Mar Cor Purification is committed to quality control. From materials, to methods, to documentation, all of our processes are designed to produce consistent and compliant products each and every time assuring our customers the highest quality water and performance from each filled carbon tank and each regenerated deionizer. For critical medical applications our Carbon and SDI systems are prepared in FDA registered facilities in accordance with QSR/GMP (Quality System Regulations/Good Manufacturing Practices) requirements.

### Tank Specifications

- Construction .....Fiberglass
- Head.....PVC
- Internals .....PVC
- Fittings.....See Chart
- Standard Media.....Acid Washed Carbon  
12x40 mesh, Iodine #≥950



### Operating Parameters

- Max. Operating Pressure & Temperature  
0.25 - 3.6 ft<sup>3</sup> ..... 90 psi/100°F
- Turbidity..... 5 NTU
- Color..... 5 units
- Organics ..... 3 ppm
- Manganese and Iron ..... 0.3 ppm

### Typical Applications

- General Industry
- Hemodialysis and Life Sciences
- Laboratory
- Microelectronics
- Rinsing
- Pharmaceutical/Biotech

## Portable Exchange Carbon Specifications

Model Number	Max. Flow Rate USGPM (LPM)	Carbon Volume (ft <sup>3</sup> )	Inlet / Outlet Ports	Dimensions W x H (Inch)	Weight (Wet) Lbs. (kg)
6 x 18C	2.0 (7.6)	0.25	SIDE 3/4" MGHT	7 x 20	25 (11.3)
8 x 18C	2.0 (7.6)	0.44	SIDE 3/4" MGHT	9 x 20	32 (14.5)
6 x 35C	2.5 (9.5)	0.50	SIDE 3/4" MGHT	7 x 37	47 (21.3)
8 x 35C	2.5 (9.5)	0.85	SIDE 3/4" MGHT	9 x 37	78 (35.4)
8 x 44C	4.0 (15.1)	1.20	SIDE 3/4" MGHT	9 x 46	135 (61.3)
12 x 36C	7.0 (26.5)	2.20	TOP 3/4" MGHT	13 x 38	198 (89.9)
14 x 47C	10.0 (37.9)	3.60	TOP 1" QD	15 x 52	305 (138.5)

*Note: All weights and dimensions are approximate. Higher flow rates can be obtained with parallel configurations. Jumbo tanks are available upon request.*

*Note: Certain older style tanks may hold slightly higher volumes of carbon*

## Accessories Available

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

## Installation Considerations

- System operates on tap pressure, within a pressure range of 25-60 psi and a maximum pressure of 90 psi.
- The system must be installed on a firm, level surface.
- A floor drain is recommended.
- Accessories may require electrical connections.

## Service Policy

Mar Cor Purification offers carbon exchange services. This service is conducted at Mar Cor Purification owned and operated facilities in Philadelphia, Atlanta, Boston, Los Angeles, Seattle, San Antonio and Chicago. Our facilities only handle carbon that has a 12x40 mesh size with an iodine number of at least 900 (per AAMI & CMS standards). The carbon is acid-washed, virgin; GAC made from select bituminous coal. Mar Cor Purification does not reuse carbon at any time during its processes. All tanks are considered rental and will remain the property of Mar Cor Purification unless structured otherwise. Tank replacement frequency is every 6 months or sooner. In dialysis applications tank replacement frequency is every 3 - 6 months. We offer 24/7 service from any of our US service centers.

## Hemodialysis

For dialysis applications, Mar Cor Purification recommends that 2 carbon tanks sized for 5 minutes of empty bed contact time each are used and that daily samples are taken from a testport located in between the two tanks.  $EBCT = (VGAC \times 7.48) / \text{flow rate in GPM}$ .



Mar Cor Purification

4450 Township Line Road

Skippack, PA 19474-1429

Tel: (484) 991-0220

Toll Free: (800) 346-0365

Fax: (484) 991-0230

Mar Cor Purification

14550 28th Avenue North

Plymouth, MN 55447

Tel: (484) 991-0220

Toll Free: (800) 633-3080

Fax: (763) 210-3868

Mar Cor Purification

3250 Harvester Road - Unit 6

Burlington, ON L7N 3W9

Canada

Tel: (905) 639-7025

Toll Free: (800) 268-5035

Fax: (905) 639-0425

Mintech B.V.

Sourethweg 11

6422 PC Heerlen

The Netherlands

Tel: (+31) 45 5471 471

Fax: (+31) 45 5429 695

Mintech Asia/Pacific Pte. Ltd.

1A International Business

Park, #05-01

Singapore 609933

Tel: (+65) 6227 9698

Fax: (+65) 6225 6848

For More Information Contact Mar Cor Purification at  
[www.mcpur.com](http://www.mcpur.com) or Call 800-633-3080

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