

## 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.

## 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  
Skipack, 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  
1119 Paulsun Street  
San Antonio, TX 78219  
Tel: (210) 227-3601  
Toll Free: (800) 268-5035  
Fax: (210) 227-0735

Mar Cor Purification  
160 Stedman Street  
Lowell, MA 01851  
Tel: (978) 453-9600  
Toll Free: (800) 633-3080  
Fax: (978) 453-1223

Mar Cor Purification  
6351 Orangethorpe Ave.  
Buena Park, CA 90620  
Tel: (714) 736-9990  
Toll Free: (800) 633-3080  
Fax: (714) 736-9402