

# Birm Iron Scrubber



*The Iron Scrubber stores a bubble of air, within the media tank. As your water passes thru the air, the iron or sulfur is converted to a particle which is then trapped by the catalytic filter media in the tank while the air bubble is gradually consumed by the passing water. During regeneration, the unit first backwashes any oxidized iron particles it has trapped to drain. The system then replenishes the air bubble by drawing in oxygen from the atmosphere.*

**The Clack Water Specialist Control** features a solid state microprocessor with easy access settings. The control valve design provides optimum service and backwash flow rates. Designed for use with water filtration system. These systems are fully automatic and self-cleaning. The valve body is molded from glass-reinforced Noryl for exceptional strength and durability.

**Birm®** is an efficient and economical media for the reduction of dissolved iron and manganese compounds from raw water supplies. It may be used in either gravity fed or pressurized water treatment systems. Birm® acts as an insoluble catalyst to enhance the reaction between dissolved oxygen (D.O.) and the iron compounds. In ground waters the dissolved iron is usually in the ferrous bicarbonate state due to the excess of free carbon dioxide and is not filterable. Birm®, acting as a catalyst between the oxygen and the soluble iron compounds, enhances the oxidation reaction of  $Fe^{++}$  to  $Fe^{+++}$  and produces ferric hydroxide which precipitates and may be easily filtered. The physical characteristics of Birm® provide an excellent filter media which is easily cleaned by backwashing to remove the precipitant. Birm® is not consumed in the iron removal operation and therefore offers a tremendous economic advantage over many other iron removal methods.

NOT INTENDED FOR H<sub>2</sub>S REMOVAL!!

**MADE IN  
THE U.S.A.**

Authorized Distributor:

# Specifications

| MODEL NUMBER | TANK SIZE | MEDIA CAPACITY | GALLONS OF WATER USED PER BACKWASH | FLOW RATE |
|--------------|-----------|----------------|------------------------------------|-----------|
| BI1044 POE   | 10X44     | 1.25 CU. FT.   | 55 GALLONS                         | 3.5 GPM   |
| BI1252 POE   | 12X52     | 1.5 CU. FT.    | 80 GALLONS                         | 5.5 GPM   |
| BI1354 POE   | 13X54     | 2.0 CU. FT.    | 95 GALLONS                         | 7 GPM     |

ACTUAL FLOW RATES ARE DETERMINED BY WATER QUALITY.  
WATER ANALYSIS IS REQUIRED.

**SYSTEM INCLUDES A 3/4" OR 1" BYPASS VALVE**

**1 1/4" BYPASS AVAILABLE AT ADDITIONAL COST**

**OPERATING PRESSURE IS 40 - 90 PSI @ 34F - 110F**

**ADDITIONAL FILTRATION MEDIAS AVAILABLE FOR TREATING  
SEDIMENT, IRON AND OTHER ISSUES**

#### **Limited Lifetime Warranty**

On pressure tank and a full 3-5 year warranty on control valve.  
(3 year on Fleck & 5 year on Clack)

#### **Locally Manufactured by:**

Water Tec of Tucson Inc.  
From the highest quality components at our facility in  
TUCSON, ARIZONA.

#### **Proven Reliability**

THOUSANDS are in service in western United States

#### **Over 40 Year Reputation**

Of immaculate customer service satisfaction, integrity and  
quality!

#### **Tank Jackets**

The outer covering is for U.V protection and algae inhibition  
on outdoor installations.

(Optional plastic or stainless steel jackets)

#### **Poly Glass Tanks**

Tanks constructed of a high-density polyethylene inner shell,  
thermal wound with fiberglass. These tanks are totally non-  
corrosive!