

**Beautifully**  
*Clean, Clear*  
**Water**

**Water**  
**Filters**



**DURO**<sup>®</sup>

# DURO®

## ***Iron can occur in three forms in your water:***

- 1...**ferrous or clear water iron - the iron is dissolved in the water
- 2...**ferric or red water iron - tiny iron particles are suspended in the water
- 3...**bacterial iron - often appears as a brown or black, stringy mass in your toilet water tank



Iron water can be identified by yellow, orange or brown “rust” stains on your laundry, sinks, tubs and toilets. It can also give water a bad taste and odor which lingers on laundry and spoils food and drinks. Manganese leaves ugly black stains on your bathroom, kitchen and toilet fixtures. Sulfur is identifiable by its distinctive “rotten egg” odor and it too causes staining.

## ***Free Water Analysis***

If you're not sure about the quality of your water, your Duro representative will be happy to analyze a sample of your water and make the appropriate recommendations at no charge and with no obligation to you.



### **DUROclean IF Chemical Free Iron Filter**

#### ***It Gets the Iron Out . . . All the Iron Out***

The DUROclean IF gives you an iron clad guarantee of cleaner laundry and dishes, protected plumbing, and better tasting water. It also neutralizes acidic water. In addition, the DUROclean chemical free operation minimizes operating costs.

DUROclean IF is used in conjunction with a pump and pressure system. A controlled amount of air is added to the water as it enters the pressure tank. This raises the water's oxygen content, enabling the dissolved iron to precipitate when it comes in contact with the special media in the filter.

The iron is trapped throughout the media bed, not just on the top of the bed as in conventional iron filters. This gives DUROclean IF an iron removal capacity four times greater than a conventional filter.

Periodically, the iron has to be flushed from the filter bed. This is accomplished by backwashing which lasts between ten and twelve minutes and occurs every four to twelve days, depending on your water's condition.



### **DUROclean ISF Manganese Greensand Filter**

#### ***Get the Iron and Sulfur Out . . . Automatically***

The DUROclean ISF enables you to enjoy cleaner, stain-free laundry, protected plumbing, cleaner dishes and fresher tasting water.

With DUROclean ISF, iron, manganese and sulfur are oxidized and removed from your water, eliminating staining and unpleasant tastes and odors.

As water passes through the filter bed, it comes in contact with oxygen-charged manganese greensand. This causes iron, manganese and sulfur to oxidize into particles which can be trapped in the filter bed. Eventually the manganese greensand loses its oxygen charge and regeneration is necessary.

The filter bed is cleaned and then a measured quantity of potassium permanganate is drawn from the chemical feeder tank through the filter bed, recharging it with oxygen. Two rapid rinses ready the bed to filter your water again.

The demand regeneration control valve includes a metering system which monitors your water use and initiates regeneration only when necessary, saving you money!



**DUROclean  
ACF, MMF & NF**

## **DUROclean Automatic Water Filters**

### ***Beautifully clean, clear water***

Common water problem, such as unpleasant taste and odor, discoloration, acidity or haziness caused by sediment, can be solved. With the appropriate DUROclean water filter, you can enjoy cleaner, fresher laundry; clean, clear drinking water and sparkling and stain-free dishes and fixtures.

The twelve day calendar clock control valve schedules regeneration to occur at preset intervals, based on your estimated water use.

### **DUROclean ACF - Taste & Odor Filter (Activated Carbon)**

Unpleasant tastes and odors caused by chlorine or organic substances, such as decayed vegetation and run-off, are adsorbed by top quality activated carbon. Occasional backwashing is necessary to free the filter bed of impurities and ready it for operation again.

### **DUROclean MMF - Turbidity Filter (Multi-Media)**

Suspended particulate matter, such as clay and silt, which gives water a cloudy appearance is trapped in the filter bed to produce clean, clear water. A variety of gravel and sand facilitates more thorough backwashing and prevents channeling.

### **DUROclean NF - Neutralizing Filter**

DUROclean's neutralizing filter contains special media which raises the pH of acidic water and neutralizes its acidic characteristics. In addition to protecting pipes, plumbing fixtures and appliances, this filter also facilitates the removal of iron and manganese by raising the pH to enable an iron filter to be used. Occasional backwashing cleans the bed. Over a period of time, additional media may be required.

## **DUROclean Features**

- Programmable 2510 composite control for larger flow rate requirements and more severe applications - ***guaranteed for seven years***
- Heavy duty mineral tanks - ***guaranteed for life***
- Tank jackets, standard on 8", 9" and 10" models, reduce condensation problems
- Bypass valve for ease of installation and service





## Specifications

<b>DUROclean IF</b>										
Part No.	"M" Part No.	Model Description	"M" Model Description	Media Cu Ft	Flow Rates USGPM			Installation Space Inches - WxDxH	Mineral Tank Size Inches	Shipping Weight Lbs
					Service	Peak	Backwash			
3230	3240	DIF75	DIF75M	0.75	2	5	3.5	10 x 10 x 57	8 x 47	100
3231	3241	DIF10	DIF10M	1.0	3	6	4	11 x 11 x 58	9 x 48	145
3232	3242	DIF15	DIF15M	1.5	4	10	5	12 x 12 x 64	10 x 54	250
3233	3243	DIF20	DIF20M	2.0	5	15	7	14 x 14 x 62	12 x 52	365

<b>DUROclean ISF</b>										
Part No.	Model Description	Manganese Greensand Cu Ft	Pot Perm* per Regeneration	Iron Removal Capacity - ppm	Flow Rates USGPM		Installation Space Inches - WxDxH	Mineral Tank Size Inches	Shipping Weight Lbs	
					Service	Backwash				
3260	DISF75	0.75	2 oz	4,500	4	3.5	20 x 10 x 57	8 x 47	120	
3261	DISF10	1.0	4 oz	6,000	5	5	22 x 12 x 57	10 x 47	150	
3262	DISF15	1.5	6 oz	9,000	8	7	24 x 14 x 62	12 x 52	180	
3263	DISF20	2.0	8 oz	12,000	10	10	26 x 16 x 60	14 x 50	265	

<b>DUROclean ACF</b>										
Part No.	Model Description	Carbon Cu Ft	Flow Rates USGPM			Installation Space Inches - WxDxH	Mineral Tank Size Inches	Shipping Weight Lbs		
			Service	Peak	Backwash					
3290	DACF75	0.75	4	5	3.5	10 x 10 x 57	8 x 47	45		
3291	DACF10	1.0	5	7	5	12 x 12 x 57	10 x 47	65		
3292	DACF15	1.5	7	10	7	14 x 14 x 62	12 x 52	93		
3293	DACF20	2.0	10	12	10	16 x 16 x 60	14 x 50	105		

<b>DUROclean MMF</b>										
Part No.	Model Description	Media Cu Ft	Flow Rates USGPM			Installation Space Inches - WxDxH	Mineral Tank Size Inches	Shipping Weight Lbs		
			Service	Peak	Backwash					
3280	DMMF75	0.75	4	5	4	10 x 10 x 57	8 x 47	95		
3281	DMMF10	1.0	5	7	5	11 x 11 x 58	9 x 48	145		
3282	DMMF15	1.5	7	10	7	12 x 12 x 64	10 x 54	213		
3283	DMMF20	2.0	10	12	10	14 x 14 x 62	12 x 52	265		

<b>DUROclean NF</b>										
Part No.	Model Description	Media Cu Ft	Flow Rates USGPM			Installation Space Inches - WxDxH	Mineral Tank Size Inches	Shipping Weight Lbs		
			Service	Peak	Backwash					
3270	DNF75	0.75	2	3.5	3.5	10 x 10 x 57	8 x 47	75		
3271	DNF10	1.0	3	5	4	11 x 11 x 58	9 x 48	115		
3272	DNF15	1.5	5	8	5	12 x 12 x 64	10 x 54	165		
3273	DNF20	2.0	6	10	7	14 x 14 x 62	12 x 52	215		

- \* Potassium Permanganate sold separately.
- DUROclean IF Models ending in "M" are required when raw water has up to 1.0 mg/l of manganese or when pH is below 7.0. Over a period of time, it may become necessary to add more media to the unit. Adding media is necessary only when water has low pH or manganese is present.
- Maximum Water Temperature = 110°F (43°C)
- Maximum Operating Pressure = 100 PSIG (689 kPa)
- Pipe Size = 3/4"
- Voltage = 110V Standard

- At the stated service flow rates, the pressure drop through these devices will not exceed 15 psig.
- Peak flow rates intended for intermittent use only (10 minutes or less) and are for residential applications only. Do not use peak flow rate for commercial applications or for a continuous rate when treated water supplies are geothermal heat pump, swimming pool, etc.
- For satisfactory operation, the pumping rate of the well system must equal or exceed indicated backwash flow rate.
- The manufacturer reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change.

