



# PDAF

*Iron, Hydrogen Sulphide  
Odour Removal Systems*



### Enjoy:

- ◆ Water That Feels, Tastes And Smells Better.
- ◆ No More Sulphide "Rotten Egg" Odour.
- ◆ No More Red Iron Stains.

### Features:

- ◆ Operates With Just Air
- ◆ Fully Automatic Operation
- ◆ High Reliability
- ◆ Safe Low Voltage Operation
- ◆ Electronic Control Operates By Meter Only When Required
- ◆ Reduces Maintenance On Water Using Appliances And Fixtures
- ◆ Laundry Looks Much Better.
- ◆ Saves Time And Money



# PDAF *Iron, Hydrogen Sulphide Aeration Filtration Systems*

These systems treat iron and hydrogen sulphide by the aeration oxidization method. The required oxygen is supplied by ordinary atmospheric air. The system draws air in during its backwashing cycle every two to four days or so as required by your usage. The oxygen from the air is stored in the bed and water passing through the unit is aerated as it is in use.

Aeration causes iron and other dissolved trace metals to convert to solids that can be easily filtered out by the bed of the unit. These solids are later discharged from the drain of the unit during the regeneration process.

These systems do not require the addition of chemicals at any step in the process making them very user and environmentally friendly. Once properly installed, these units should provide years of trouble free service without any intervention.



## Self-Contained Air Injection System

In most cases this system will eliminate the need for external air injection and elimination devices such as micronizers and vent tanks.

This system is designed for use on water supplies containing low levels of hydrogen sulfide (less than 0.5 mg/l) and medium levels of iron (less than 2 mg/l) and manganese (less than 0.5 mg/l).

pH:

The pH of the influent water must be greater than 6.5 for iron removal and greater than 8.1 for manganese removal. The pH should not be greater than 8.5.

TDS (Total Dissolved Solids):

Total dissolved solids should be greater than 40 mg/l to prevent contact extraction and should not exceed 1200 mg/l.

Organic Matter (Tannins):

The presence of organics above 2.0 PPM may affect the operation of the system. Tannins may be removed prior to filtration to improve system performance.

<b>Model</b>	PDAF-1054	
<b>Dimensions</b>	Height	64 (155)
	Width	11 (28)
	Depth (with bypass)	16 (41)

Authorized Dealer:

<b>Connections I/O</b>	Standard	3/4" (19 mm) Copper
	Optional	3/4" (19 mm) MPT 3/4" (19 mm) FPT 1" Copper 1" MPT 1" FPT
<b>Connections Drain</b>		1" (26 mm)
<b>Electrical Supply</b>		120 VAC 10 Watts
<b>Operation Voltage</b>		24 VAC 6 to 10 Walls
<b>Minimum Operating Pressure</b>		25 PSI (172 kPa)
<b>Maximum Operating Pressure</b>		120 PSI (827 kPa)
<b>Minimum Operating Temperature</b>		35 °F ( 2 °C)
<b>Maximum Operating Pressure</b>		120 °F (50 °C)
<b>Maximum Flow Rate</b>	Continuous	4 USGPM (15 ipm)
	Intermittent	8 USGPM (30 Imp)
<b>Backwash Flow Rate</b>		5 USGPM