## Steel Tanks: 14" to 42" Diameter

Pure Aqua's pressure filters clarify water by removing sediment, turbidity, iron, unpleasant tastes and odors, suspended particles, and unwanted color, all of which are commonly found in surface water. They can be used in a variety of services including: industrial, municipal, and institutional applications.

# Filter Media Types

- Sand is the most common filter media. Generally, fine mesh sand is coupled with a course grain support bed to remove suspended solids and turbidity.
- Anthracite is used in applications where silica pick-up is undesireable.
- Gravel has a highly spherical shape that promotes good flow and even distribution in support beds.
- Filter AG is non-hydrous silicon dioxide with many advantages for the reduction of suspended matter.
- Activated Carbon is recommended for the removal of bad tastes, odors, dechlorination, and organic contaminants.
- Manganese Green Sand is used to reduce iron, manganese and hydrogen sulfide through oxidation.
- Multimedia is required when maximum quality water is required and unwanted sediment is too small to be removed by standard media. It consists of multiple layers of increasing grain size to remove sediment as small as 10 microns.

# Advantages of Multimedia Filtration

- Proven process and most tested forms of water treatment
- Systems are robust with no moving parts inside the tanks
- Modular control valves designed for operational flexibility
- Filtration media is inexpensive and long-lasting
- Resistant to fouling (clogging)

### **Standard Features**

- High performance epoxy lined, primer coated,
- top mounted steel tank
- Automatic backwash valve
- Top mounted Fleck valve
- Time controller for scheduled backwash cycle
- Flow controller to limit backwash flow
- All internals are plastic materials
- High quality media

# 🛎 Pure Aqua, Inc<sup>®</sup> Reverse Osmosis & Water Treatment Systems

sales@pureaqua.com +1(714) 432-9996+1 (844) 309-7501



Available Options

- Duplex systems
- Tanks according to ASME code
- Stainless steel tanks
- FRP Tanks
- 240V/1Ph/50Hz power supply
- Auxiliary micro switch
- Inlet / Outlet sample valves
- Inlet / Outlet pressure gauges
- Differential pressure switch and gauge
- Vacuum breakers
- Filters using diaphragm valves





Steel Tanks: 14" to 42" Diameter



### Filter Media Types

Pure Aqua supplies a wide range of quality filter media that meet industry standards for efficient and effective filtration.







### Anthracite

Anthracite is recommended as a filter medium where additional silica in the water is not desirable and remove lighter weight turbidity.

### Activated Carbon

Activated carbon medium is used to remove taste, odor and chlorine and used in many drinking water applications.

### ProSand

ProSand is based on a rare natural mineral. Its unique properties radically improve the performance and cost of media filtration.

plication.

Calcite

Sand

Calcite media is specially graded calcium carbonate compound for neutralizing acid with consistent dissolving rates for water treatment.

Graded in various ranges, Pure Aqua Sand

can be used as filtration medium or under-

bedding depending on partical size and ap-

#### Manganese Greensand

Manganese Greensand media is treated siliceous material for treating water containing iron, manganese and hydrogen sulfide.

### Multimedia Filtration Operating Cycles

#### Service Cycle

Water flows downward through the media while solids accumulate in the media bed. The purified water passes through to downstream processes.

#### **Backwash Cycle**

When the filter begins to clog or when the head loss (pressure drop) through the bed increases, flow rates are reduced. To prevent degradation of water quality, the flow is reversed. This is directed by the control valve(s) to drain, carrying with it, the particulate matter that has built up during service. The required flow is specific to the media and is essential to proper cleaning of the media bed. For media filters, the backwash flow is always higher than the service flow rate.



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Steel Tanks: 14" to 42" Diameter

# **Operation Specifications**

- Operating pressure: 25-100 psi (1.73-6.9 bar)
- Electrical supply: 115V/1Ph/60Hz

- Operating temperature: 41-122°F (5-50°C)
- Filters can be supplied in 240V/1Ph/50Hz

Model #   Minimum   Average   Peak   Backwash   Size Divide   Med Cbr (b)   Pipe Size   Weig (b)     Multi Layer Filters: Anthracte, Sand and Gravel (Turbidity Removal)   Image: Comparison of the second o		Max Flow (GPM)											Approx
GPM   MY/H   GPM   MX/H   GP	Model #	Minimum		Average		Peak		Backwash			Media		Weight
70F1435MM-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1"   4.0     28F1435MM-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1-1/2"   42     70F1645MM-ST   13.9   3.2   20.9   4.8   27.8   6.3   20.9   4.8   16X60   4.55   1-1/2"   43     28F1645MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   64     28F125MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   87     28F2175MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   10.7     28F2150MM-ST   31.4   71   47.1   10.7   62.8   14.3   471		GPM	M³/H	GPM	M <sup>3</sup> /H	GPM	M³/H	GPM	M³/H	D"xH"		SIZC	(lbs)
28F1435MM-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1-1/2"   42     70F1645MM-ST   13.9   3.2   20.9   4.8   27.8   6.3   20.9   4.8   16X60   4.5   1"   511     28F1645MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   664     28F1855MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   664     70F2175MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   857     28F2175MM-ST   31.4   7.1   47.1   10.7   62.8   14.3   47.1   10.7   24X60   10   1-1/2"   10.2     31F3050MM-ST   49.1   11.2   73.7   16.8   98.2   22.3   73	Multi Layer Filters: Anthr	acite, Sar	nd and G	ravel (Tur	bidity Re	moval)					<u>,</u>		
70F1645MM-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1'' 511   28F1645MM-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1-1/2" 533   70F1855MM-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 64.4   28F1855MM-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 7.5 1-1/2" 64.4   28F1855MM-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 87.5   28F2175MM-ST 31.4 71 471 10.7 62.8 14.3 471 10.7 24X60 10 1-1/2" 11.2 13.1 11 12.3 31.3 471 10.7 24X60 12.8 2" 17" 13.6   31F3050MM-ST 70.7 16.1 106.1 24.2 </td <td>70F1435MM-ST</td> <td>10.7</td> <td>2.4</td> <td>16.1</td> <td>3.6</td> <td>21.4</td> <td>4.9</td> <td>16.1</td> <td>3.6</td> <td>14X60</td> <td>3.5</td> <td>1"</td> <td>401</td>	70F1435MM-ST	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14X60	3.5	1"	401
28FI645MM-ST   13.9   3.2   20.9   4.8   27.8   6.3   20.9   4.8   16X60   4.5   1-1/2"   53     70FI855MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   64.4     28F1855MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   64.4     28F1275MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   87.4     70F24100MM-ST   31.4   7.1   47.1   10.7   62.8   14.3   47.1   10.7   24X60   10   1-1/2"   10.0     28F2400MM-ST   49.1   11.2   73.7   16.8   98.2   22.3   73.7   16.8   30X60   15   2"   2.8     31F30210MM-ST   90.2   2.0   16.2   2.6.4   125.0   2.8.4	28F1435MM-ST	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14X60	3.5	1-1/2"	421
70F1855MM-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 64.4   28F1855MM-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 86.5   28F2175MM-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 87.5   70F2400MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11.2   31F50150MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11.2   31F30150MM-ST 70.7 16.1 10.61 24.2 16.2 26.4 106.1 24.2 36X60 21 2"	70F1645MM-ST	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16X60	4.5	1"	511
28F1855MM-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   66.0     70F2175MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   857     28F2175MM-ST   24.1   7.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   877     70F24100MM-ST   31.4   7.1   471   10.7   62.8   14.3   471   10.7   24X60   10   1-1/2"   11.2     31F30150MM-ST   49.1   11.2   73.7   16.8   98.2   22.3   73.7   16.8   30X60   15   2"   1.77     31F30150MM-ST   96.2   22.0   16.1   26.4   106.1   24.2   36X60   21   2"   28.8     31F30150MM-ST   96.2   22.0   16.1   3.6   14X60   3.5   1"   77	28F1645MM-ST	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16X60	4.5	1-1/2"	531
TOF2175MM-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 85.5   28F2175MM-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 87.5   70F24100MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11.0   28F24100MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11.0   31F3050MM-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30X60 21 2" 2.8   31F3020MM-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42260 28 2" 2.76   AGFilters: Non Hydrous Silicon Dixide (Turbidity Removal) 707 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1''' 20.5	70F1855MM-ST	17.7	4.0	26.6	6.0	35.4	8.0	26.6	6.0	18X60	5.5	1-1/2"	644
28F2175MM-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   87.7     70F24100MM-ST   31.4   7.1   47.1   10.7   62.8   14.3   47.1   10.7   24X60   10   1-1/2"   11.0     28F24100MM-ST   31.4   7.1   47.1   10.7   62.8   14.3   47.1   10.7   24X60   10   1-1/2"   11.2     31F30150MM-ST   49.1   11.2   73.7   16.8   98.2   22.3   73.7   16.8   30X60   15   2"   1.77     31F36210MM-ST   96.2   20.0   16.2   26.4   105.0   28.4   42X60   28   2"   2.76     AGEIters: Non Hydrous Silicon Divide (Turbidit Removal)   70.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1"   20.6     28F1435AG-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1	28F1855MM-ST	17.7	4.0	26.6	6.0	35.4	8.0	26.6	6.0	18X60	5.5	1-1/2"	664
70F24100MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11,0   28F24100MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11,2"   3IF30IS0MM-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30X60 15 2" 1,77   3IF30IS0MM-ST 96.2 22.0 116.2 26.4 120 28.4 125.0 28.4 42X60 28 2" 2,76   AGFilters: Non Hydrous Slicon Dioxide (Turbuidty Removal) 70.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 11" 150   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 11" 150   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 11"/2" 100	70F2175MM-ST	24.1	5.5	36.2	8.3	48.2	11.O	36.2	8.3	21X60	7.5	1-1/2"	855
28F24100MM-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 11.2   31F30150MM-ST 491 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30X60 15 2" 1,77   31F36210MM-ST 70.7 16.1 106.1 24.2 116.2 26.4 106.1 24.2 36X60 21 2" 2,88   31F42280MM-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42x60 28 2" 2,76   AGFilters: Non Hydrous Silcon Dioxide (Turbidity Removal) 7 24.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1" 155   28F1645AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1" 20   28F1645AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1-1/2" 302	28F2175MM-ST	24.1	5.5	36.2	8.3	48.2	11.O	36.2	8.3	21X60	7.5	1-1/2"	875
31F30150MM-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30x60 15 2" 1.77   31F36210MM-ST 70.7 16.1 106.1 24.2 116.2 26.4 106.1 24.2 36x60 21 2" 2.18   31F42280MM-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42x60 28 2" 2.76   AG Filters: Non Hydrous Silicon Dioxice (Turbidity Removal)   70F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14x60 3.5 1" 15   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14x60 3.5 1" 15 2 26.4 106.1 3.6 14x60 3.5 1" 17 20 28 28 6.3 20.9 4.8 16x60 4.5 1-1/2" 20 20 28 27 3.0 22 28 10.7 3.0 22 <t< td=""><td>70F24100MM-ST</td><td>31.4</td><td>7.1</td><td>47.1</td><td>10.7</td><td>62.8</td><td>14.3</td><td>47.1</td><td>10.7</td><td>24X60</td><td>10</td><td>1-1/2"</td><td>1,108</td></t<>	70F24100MM-ST	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24X60	10	1-1/2"	1,108
3IF36210MM-ST 70.7 16.1 106.1 24.2 116.2 26.4 102.0 28.4 125.0 28.4 42X60 28 2" 2.76   AG Filters: Non Hydrous Silcon Dixide (Turbidity Removal) 70.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1" 155   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1" 155   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1"' 155   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1"' 152   28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16x60 4.5 1"'' 20.0   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2"	28F24100MM-ST	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24X60	10	1-1/2"	1,128
3IF42280MM-ST 96.2 22.0 16.2 26.4 125.0 28.4 125.0 28.4 42x60 28 2" 2.7   AG Filters: Non Hydrous Silcon Uxide (Turbitly Rumous) Turbitly Rumous) 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14x60 3.5 1" 155   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14x60 3.5 1"/" 10.7   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14x60 3.5 1"/" 10.7   28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16.0 4.5 1"/" 20.0   28F1645AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18x60 4.5 1-1/2" 30.0 23.2   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18x60 7.5 <t< td=""><td>31F30150MM-ST</td><td>49.1</td><td>11.2</td><td>73.7</td><td>16.8</td><td>98.2</td><td>22.3</td><td>73.7</td><td>16.8</td><td>30X60</td><td>15</td><td>2"</td><td>1,776</td></t<>	31F30150MM-ST	49.1	11.2	73.7	16.8	98.2	22.3	73.7	16.8	30X60	15	2"	1,776
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)     70F1435AG-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1"   155     28F1435AG-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1"   152     28F1435AG-ST   10.7   2.4   16.1   3.6   21.4   4.9   16.1   3.6   14X60   3.5   1.1/2"   177     70F1645AG-ST   13.9   3.2   20.9   4.8   27.8   6.3   20.9   4.8   16X60   4.5   1"   210     28F1855AG-ST   17.7   4.0   26.6   6.0   35.4   8.0   26.6   6.0   18X60   5.5   1-1/2"   302     28F2175AG-ST   24.1   5.5   36.2   8.3   48.2   11.0   36.2   8.3   21X60   7.5   1-1/2"   302     28F2175AG-ST   31.4   7.1	31F36210MM-ST	70.7	16.1	106.1	24.2	116.2	26.4	106.1	24.2	36X60	21	2"	2,185
70F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1" 155   28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1-1/2" 177   70F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1" 200   28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1-1/2" 230   28F1645AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 300   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 7.5 1-1/2" 300   28F175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 302   28F2175AG-ST 31.4 <td>31F42280MM-ST</td> <td>96.2</td> <td>22.0</td> <td>116.2</td> <td>26.4</td> <td>125.0</td> <td>28.4</td> <td>125.0</td> <td>28.4</td> <td>42X60</td> <td>28</td> <td>2"</td> <td>2,760</td>	31F42280MM-ST	96.2	22.0	116.2	26.4	125.0	28.4	125.0	28.4	42X60	28	2"	2,760
28F1435AG-ST 10.7 2.4 16.1 3.6 21.4 4.9 16.1 3.6 14X60 3.5 1-1/2" 177   70F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1" 210   28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1-1/2" 230   70F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 7.5 1-1/2" 30   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 414   70F24100AG-ST 31.4	AG Filters: Non Hydrous	Silicon D	) ioxide (T	urbidity F	Removal)						1		
70F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1" 210   28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1-1/2" 233   70F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 332   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 332   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 7.5 1-1/2" 332   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 323   28F2175AG-ST 21.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 100 1-1/2" 533   28F24100AG-ST <t< td=""><td>70F1435AG-ST</td><td>10.7</td><td>2.4</td><td>16.1</td><td>3.6</td><td>21.4</td><td>4.9</td><td>16.1</td><td>3.6</td><td>14X60</td><td>3.5</td><td>1"</td><td>159</td></t<>	70F1435AG-ST	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14X60	3.5	1"	159
28F1645AG-ST 13.9 3.2 20.9 4.8 27.8 6.3 20.9 4.8 16X60 4.5 1-1/2" 23.0   70F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30.0   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30.0   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30.0   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 39.0   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 49.0   28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 100 1-1/2" 55.3 31F36210AG-ST 49.1	28F1435AG-ST	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14X60	3.5	1-1/2"	179
70F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 30.0   28F1855AG-ST 17.7 4.0 26.6 6.0 35.4 8.0 26.6 6.0 18X60 5.5 1-1/2" 32.0   70F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 39.4   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21X60 7.5 1-1/2" 39.4   28F2175AG-ST 24.1 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10.0 1-1/2" 55.3   28F24100AG-ST 31.4 71 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10.0 1-1/2" 55.3   31F30150AG-ST 31.4 71 47.1 10.7 62.8 14.3 47.1 10.7 24X60 15.5 2" 88.6   31F30150AG	70F1645AG-ST	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16X60	4.5	1"	210
28F1855AG-ST17.74.026.66.035.48.026.66.018×605.51-1/2"3270F2175AG-ST24.15.536.28.348.211.036.28.321×607.51-1/2"3928F2175AG-ST24.15.536.28.348.211.036.28.321×607.51-1/2"41470F24100AG-ST31.47.147.110.762.814.347.110.724×601001-1/2"5328F24100AG-ST31.47.147.110.762.814.347.110.724×601001-1/2"5328F24100AG-ST49.111.273.716.898.222.373.716.830×60152"8831F36210AG-ST49.111.273.716.898.222.373.716.830×60212"1.2"31F42280AG-ST96.222.0116.226.4125.028.4125.028.442×60282"1.72"1.2"31F42280AG-ST96.222.0116.226.4125.028.4125.028.442×60282"1.72"1.72"31F42280AG-ST96.222.0116.226.4125.028.4125.028.442×60282"1.72"1.72"31F4280AG-ST7.51.78.61.912.82.912.82.914×603.5 </td <td>28F1645AG-ST</td> <td>13.9</td> <td>3.2</td> <td>20.9</td> <td>4.8</td> <td>27.8</td> <td>6.3</td> <td>20.9</td> <td>4.8</td> <td>16X60</td> <td>4.5</td> <td>1-1/2"</td> <td>230</td>	28F1645AG-ST	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16X60	4.5	1-1/2"	230
70F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21×60 7.5 1-1/2" 39.4   28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21×60 7.5 1-1/2" 41.4   70F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 100 1-1/2" 55.3   28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 100 1-1/2" 55.3   31F30150AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30×60 15 2" 88.6   31F36210AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30×60 15 2" 88.6   31F36210AG-ST 70.7 16.1 106.1 24.2 166.1 24.2 36×60 21 2" 1,2"   31F42280AG-ST 96.2 <td< td=""><td>70F1855AG-ST</td><td>17.7</td><td>4.0</td><td>26.6</td><td>6.0</td><td>35.4</td><td>8.0</td><td>26.6</td><td>6.0</td><td>18X60</td><td>5.5</td><td>1-1/2"</td><td>307</td></td<>	70F1855AG-ST	17.7	4.0	26.6	6.0	35.4	8.0	26.6	6.0	18X60	5.5	1-1/2"	307
28F2175AG-ST 24.1 5.5 36.2 8.3 48.2 11.0 36.2 8.3 21×60 7.5 1-1/2" 414   70F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 10 1-1/2" 55.2   28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 10 1-1/2" 55.2   28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 10 1-1/2" 55.2   31F30150AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30×60 15 2" 88.6   31F36210AG-ST 70.7 16.1 106.1 24.2 16.2 26.4 106.1 24.2 36×60 21 2" 1,20   31F42280AG-ST 96.2 22.0 116.2 26.4 125.0 28.4 42×60 28 2" 1,20   31F42280AG-ST 96.2 <t< td=""><td>28F1855AG-ST</td><td>17.7</td><td>4.0</td><td>26.6</td><td>6.0</td><td>35.4</td><td>8.0</td><td>26.6</td><td>6.0</td><td>18X60</td><td>5.5</td><td>1-1/2"</td><td>327</td></t<>	28F1855AG-ST	17.7	4.0	26.6	6.0	35.4	8.0	26.6	6.0	18X60	5.5	1-1/2"	327
70F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 10 1-1/2" 53.2   28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24×60 10 1-1/2" 55.2   31F30150AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30×60 15 2" 88.6   31F36210AG-ST 70.7 16.1 106.1 24.2 16.2 26.4 106.1 24.2 36×60 21 2" 1,2" 1,2"   31F42280AG-ST 96.2 2.0 116.2 26.4 125.0 28.4 42×60 28 2" 1,2" 1,2"   31F42280AG-ST 96.2 2.0 116.2 26.4 125.0 28.4 42×60 28 2" 1,2"   Activated Carbon Filters: Formula 14.5 26.4 125.0 28.4 42×60 28 2" 1,2"   70F1435AC-ST 7.5 1.7 8.6 1.9	70F2175AG-ST	24.1	5.5	36.2	8.3	48.2	11.O	36.2	8.3	21X60	7.5	1-1/2"	394
28F24100AG-ST 31.4 7.1 47.1 10.7 62.8 14.3 47.1 10.7 24X60 10 1-1/2" 55.2   31F30150AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30X60 15 2" 88.6   31F36210AG-ST 70.7 16.1 106.1 24.2 116.2 26.4 106.1 24.2 36X60 21 2" 1,2" 1,2"   31F42280AG-ST 96.2 22.0 116.2 26.4 125.0 28.4 42X60 28 2" 1,2" </td <td>28F2175AG-ST</td> <td>24.1</td> <td>5.5</td> <td>36.2</td> <td>8.3</td> <td>48.2</td> <td>11.O</td> <td>36.2</td> <td>8.3</td> <td>21X60</td> <td>7.5</td> <td>1-1/2"</td> <td>414</td>	28F2175AG-ST	24.1	5.5	36.2	8.3	48.2	11.O	36.2	8.3	21X60	7.5	1-1/2"	414
31F30150AG-ST 49.1 11.2 73.7 16.8 98.2 22.3 73.7 16.8 30X60 15 2" 88.0   31F36210AG-ST 70.7 16.1 106.1 24.2 116.2 26.4 106.1 24.2 36X60 21 2" 1.0   31F36210AG-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42X60 28 2" 1,72   Activated Carbon Filters: Guanuters for with High Degrees of Porosity (Taste Odor and Carbon Filters) 50.7 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5.5 1" 15.9   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5.5 1" 15.9   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5.5 1"/ 15.9   28F1435AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 <t< td=""><td>70F24100AG-ST</td><td>31.4</td><td>7.1</td><td>47.1</td><td>10.7</td><td>62.8</td><td>14.3</td><td>47.1</td><td>10.7</td><td>24X60</td><td>10</td><td>1-1/2"</td><td>532</td></t<>	70F24100AG-ST	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24X60	10	1-1/2"	532
31F36210AG-ST 70.7 16.1 106.1 24.2 116.2 26.4 106.1 24.2 36X60 21 2" 1,20   31F42280AG-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42X60 28 2" 1,20   Activated Carbon Filters: Guanutary Form with High Degree of Porosity (Taste, Odor and Color Removal)   70F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5.5 1" 156   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5.5 1" 156   70F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1" 2.0	28F24100AG-ST	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24X60	10	1-1/2"	552
31F42280AG-ST 96.2 22.0 116.2 26.4 125.0 28.4 125.0 28.4 42X60 28 2" 1,72   Activated Carbon Filters: Usanutz Formula Interstant Formula Interstant Formula Interstant   70F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1" 159   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1"10" 159   70F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1" 210	31F30150AG-ST	49.1	11.2	73.7	16.8	98.2	22.3	73.7	16.8	30X60	15	2"	886
Activated Carbon Filters: Guanular Form with High Degree of Porosity (Taste, Odor and Color Removal)     70F1435AC-ST   7.5   1.7   8.6   1.9   12.8   2.9   12.8   2.9   14X60   3.5   1"   159     28F1435AC-ST   7.5   1.7   8.6   1.9   12.8   2.9   14X60   3.5   1"   159     70F1645AC-ST   7.5   1.7   8.6   1.9   12.8   2.9   14X60   3.5   1-1/2"   179     70F1645AC-ST   9.7   2.2   11.1   2.5   16.7   3.8   16.7   3.8   16X60   4.5   1"   210	31F36210AG-ST	70.7	16.1	106.1	24.2	116.2	26.4	106.1	24.2	36X60	21	2"	1,208
70F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1" 159   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1" 159   28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1-1/2" 179   70F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1" 210	31F42280AG-ST	96.2	22.0	116.2	26.4	125.0	28.4	125.0	28.4	42X60	28	2"	1,725
28F1435AC-ST 7.5 1.7 8.6 1.9 12.8 2.9 12.8 2.9 14X60 3.5 1-1/2" 175   70F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1" 210	Activated Carbon Filters	: Guanula	ar Form v	vith High	Degree o	of Porosit	y (Taste,	Odor and	d Color R	emoval)			
70F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1" 210	70F1435AC-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1"	159
	28F1435AC-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1-1/2"	179
28F1645AC-ST 9.7 2.2 11.1 2.5 16.7 3.8 16.7 3.8 16X60 4.5 1-1/2" 2.30	70F1645AC-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1"	210
	28F1645AC-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1-1/2"	230
70F1855AC-ST 12.4 2.8 14.2 3.2 21.2 4.8 21.2 4.8 18X60 5.5 1-1/2" 30"	70F1855AC-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	307
28F1855AC-ST 12.4 2.8 14.2 3.2 21.2 4.8 21.2 4.8 18X60 5.5 1-1/2" 323	28F1855AC-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	327
70F2175AC-ST 16.9 3.8 19.3 4.4 28.9 6.6 28.9 6.6 21X60 7.5 1-1/2" 396	70F2175AC-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	396
28F2175AC-ST 16.9 3.8 19.3 4.4 28.9 6.6 28.9 6.6 21X60 7.5 1-1/2" 414	28F2175AC-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	414
70F24100AC-ST   22.0   5.0   25.1   5.7   37.7   8.6   37.7   8.6   24×60   10   1-1/2"   532	70F24100AC-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	532
28F24100AC-ST 22.0 5.0 25.1 5.7 37.7 8.6 37.7 8.6 24X60 10 1-1/2" 552	28F24100AC-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	552
31F30150AC-ST 34.4 7.8 39.3 8.9 58.9 13.4 58.9 13.4 30X60 15 2" 886	31F30150AC-ST	34.4	7.8	39.3	8.9	58.9	13.4	58.9	13.4	30X60	15	2"	886
31F36210AC-ST 49.5 11.2 56.6 12.9 84.8 19.3 84.8 19.3 36X60 21 2" 1,20	31F36210AC-ST	49.5	11.2	56.6	12.9	84.8	19.3	84.8	19.3	36X60	21	2"	1,208
31F42280AC-ST 67.3 15.3 77.0 17.5 115.4 26.2 115.4 26.2 42X60 28 2" 1,72	31F42280AC-ST	67.3	15.3	77.0	17.5	115.4	26.2	115.4	26.2	42X60	28	2"	1,725



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Steel Tanks: 14" to 42" Diameter

	Max Flow (GPM)											Approx
Model #	Minimum		Average		Peak		Backwash		. Tank Size	Media Qty. (ft³)	Pipe Size	Weight
	GPM	M³/H	GPM	M³/H	GPM	M³/H	GPM	M³/H	D"xH"	QLY. (11 <sup>-</sup> )	Size	(lbs)
Birm Filters: (Fe, Mn, H <sub>2</sub> S Reduction)												
70F1435BM-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1"	180
28F1435BM-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1-1/2"	200
70F1645BM-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1"	280
28F1645BM-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1-1/2"	300
70F1855BM-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	360
28F1855BM-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	380
70F2175BM-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	480
28F2175BM-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	500
70F24100BM-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	630
28F24100BM-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	650
31F30150BM-ST	34.4	7.8	39.3	8.9	58.9	13.4	58.9	13.4	30X60	15	2"	1,000
31F36210BM-ST	49.5	11.2	56.6	12.9	84.8	19.3	84.8	19.3	36X60	21	2"	1,308
31F42280BM-ST	67.3	15.3	77.0	17.5	115.4	26.2	115.4	26.2	42X60	28	2"	1,825
Calcite Filters: (pH Neutr	alization	)										
70F1435CF-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1"	480
28F1435CF-ST	7.5	1.7	8.6	1.9	12.8	2.9	12.8	2.9	14X60	3.5	1-1/2"	505
70F1645CF-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1"	615
28F1645CF-ST	9.7	2.2	11.1	2.5	16.7	3.8	16.7	3.8	16X60	4.5	1-1/2"	640
70F1855CF-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	773
28F1855CF-ST	12.4	2.8	14.2	3.2	21.2	4.8	21.2	4.8	18X60	5.5	1-1/2"	800
70F2175CF-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	1,026
28F2175CF-ST	16.9	3.8	19.3	4.4	28.9	6.6	28.9	6.6	21X60	7.5	1-1/2"	1,050
70F24100CF-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	1,350
28F24100CF-ST	22.0	5.0	25.1	5.7	37.7	8.6	37.7	8.6	24X60	10	1-1/2"	1,360
31F30150CF-ST	34.4	7.8	39.3	8.9	58.9	13.4	58.9	13.4	30X60	15	2"	2,135
31F36210CF-ST	49.5	11.2	56.6	12.9	84.8	19.3	84.8	19.3	36X60	21	2"	2,650
31F42280CF-ST	67.3	15.3	77.0	17.5	115.4	26.2	115.4	26.2	42X60	28	2"	3,320

\*All filters require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing clean water through the unit and then disposing of the effluent. During this phase, the different sizes of media separate into layers, preparing the filter bed for service. Because backwashing generally occurs at higher flow rates than those seen in service, oftentimes a proper backwash flow rate is not possible because the systems are designed for required service flow rates. However, by utilizing smaller double or triple unit systems, the optimum backwash flow rate is lower; therefore, these systems operate at higher service flow rates.

Pure Aqua also supplies: Custom Engineered Solutions, Reverse Osmosis Systems, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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