



# **Specs and Dealer Wholesale List Price**

**Effective April 1<sup>st</sup>, 2014**



**A Marmon Water/Berkshire Hathaway Company**

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# ECI Filters



\*Shown with factory SKID & Interconnecting Plumbing

## Fleck® Fiberglass Filters

Prices are subject to change without notice. Specifications subject to change without notice. Orders are subject to acceptance by ECI.

# Fiberglass Filter Specifications and Design Data

## Single Carbon Filters

Model Number	Recommended Flow Rates <sup>(2)</sup>				Mineral Tank Size in.	Pipe Size in.	Max. Drain Flow GPM	Carbon Media Qty. Cu. Ft.	Space Reqmt <sup>(3)</sup> LxDxH in.
	Chlorine		Organic <sup>(4)</sup>						
	GPM Flow	PSI Drop	GPM Flow	PSI Drop					
C-121A	8	5	4	3	12x52	1	7	2	12x12x59
C-141A	11	6	6	3	14x65	1	10	3	14x14x71
C-161B	16	4	8	3	16x65	1½	15	4	16x16x72
C-241C	30	5	15	3	24x71	2	30	10	24x24x87

## Single Multi-Media Filters

Model Numbers	Recommended Flow Rates <sup>(2)</sup>				Mineral  Tank Size in.	Pipe Size in.	Max. Drain Flow GPM	Multi- Media Qty. Cu. Ft.	Space Reqmt <sup>(3)</sup> LxDxH in.
	Continuous		Peak						
	GPM Flow	PSI Drop	GPM Flow	PSI Drop					
M-121A	8	6	16	15	12x52	1	10	2	12x12x59
M-161A	16	9	32	25	16x65	1	20	4	16x16x72
M-301C	50	9	100	25	30x72	2	70	15	31x31x100

### NOTES:

- (1) Units provided with 7-day time clock and by-pass during reconditioning. Other controls and no water by-pass available. Consult factory.
- (2) Pressure drops are based on clean bed operation. Pressure drops and weights are estimates.
- (3) Not including operating and maintenance areas.
- (4) FM-6 is provided for chlorine reduction. FM-44 is recommended for organic applications, but must be specified when ordering. Cost adders will apply.

## Duplex Parallel Carbon Filters

Model  Number	Recommended Flow Rates <sup>(2)</sup>				(2) Mineral Tank Size in.	Pipe Size in.	Max. Drain Flow GPM	Carbon Media Qty. Cu. Ft.	Space  Reqmt <sup>(3)</sup> LxDxH in.
	Duplex Chlorine		Duplex Organic <sup>(4)</sup>						
	GPM Flow	PSI Drop	GPM Flow	PSI Drop					
C-121A	16	5	8	3	12x52	1	7	4	30x12x59
C-141A	22	6	12	3	14x65	1	10	6	34x14x71
C-161B	32	4	16	3	16x65	1½	15	8	42x16x72
C-241C	60	5	30	3	24x71	2	30	20	54x24x87

## Duplex Parallel Multi-Media Filters

Model  Numbers	Recommended Flow Rates <sup>(2)</sup>				(2) Mineral Tank Size in.	Pipe Size in.	Max. Drain Flow GPM	Multi- Media Qty. Cu. Ft.	Space  Reqmt <sup>(3)</sup>  LxDxH in.
	Duplex Continuous		Duplex Peak						
	GPM	PSI	GPM	PSI					
	Flow	Drop	Flow	Drop					
M-121A	16	6	32	15	12x52	1	10	4	30x12x59
M-161A	32	9	64	25	16x65	1	25	8	42x16x72
M-301C	100	9	200	25	30x72	2	70	30	66x31x100

### NOTES:

- (1) Units provided with 7-day time clock and by-pass during reconditioning. Other controls and no water by-pass available. Consult factory.
- (2) Pressure drops are based on clean bed operation. Pressure drops and weights are estimates.
- (3) Not including operating and maintenance areas.
- (4) Standard carbon filter equipment comes with carbon designed for chlorine removal. Organic applications, must be specified up front at quoting stage. Cost adders will apply.

## Fiberglass Filter Specifications and Design Data (cont'd)

### ***Recommended Media Loading***

Tank Dia	Gravel (lbs)	Media Type						
		Carbon (ft3)	Multimedia			Greensand Plus		
			Anthracite (lbs)	Sand (lbs)	Garnet (lbs)	Anthracite (lbs)	Greensand (ft3)	Garnet (lbs)
12"	25	2	52	50	25	26	1.5	25
14"	50	3	104	75	50	52	2	50
16"	100	4	156	100	50	78	2.5	50
24"	150	10	312	250	150	156	6	150
30"	250	15	520	350	200	260	9	200

## VIP-1E Control – Single Carbon Filters Fiberglass Tank – SNGL

### Features:

- Single tank operation. Unfiltered water bypass during backwash.
- NEW! VIP-1E Electronic Time Clock feature & UL listed.  
Solid State single metered demand initiated backwash including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate backwash.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- ABS tank liner for longer service life. FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Differential pressure backwash feature.**
- **Optional: Alternate Water Source (Backwash)**
- **Optional: VIP-IIe Triplex and/or Quadraplex units available.**



**C-241C-SNGL**

Pipe Size	Fleck Valve Type	Model Number	Part Number	Mineral Tank Size (inches)	Media Qty. (Cu. Ft.)	Ship. Wt. Lbs.
1"	2750	902501	<b>902501</b>	12"x52"	2	170

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

## **Time Clock – Single Carbon Filters**

### **Fiberglass Tank – Single TC**

#### **Features:**

- Automatic time clock initiated backwash
- Unfiltered Water bypass during backwash
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- ABS tank liners for longer service life. FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1ph operation



7 Day Mech.  
Time Clock

**C-241C-TC**

Pipe Size	Fleck Valve Type	Model Number	Part Number	Mineral Tank Size (inches)	Media Qty. (Cu. Ft.)	Ship. Wt. Lbs.
1"	2750	C-121A-TC	<b>12000061</b>	12"x52"	2	170
1"		C-141A-TC	<b>12000062</b>	14"x65"	3	225
1.5"	2850	C-161B-TC	<b>12000065</b>	16"x65"	4	340
2"	2900	C-241C-TC	<b>12000070</b>	24"x71"	10	660

## **Time Clock – Duplex Carbon Filters** ***Fiberglass Tank – Duplex TC***

### **Features:**

- Automatic time clock initiated backwash
- No Unfiltered Water bypass during regeneration
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- ABS tank liners for longer service life. FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1ph operation



<b>Pipe Size</b>	<b>Fleck Valve Type</b>	<b>Model Number</b>	<b>Part Number</b>	<b>Mineral Tank Size (inches)</b>	<b>Media Qty. per Tank (Cu. Ft.)</b>	<b>Ship. Wt. Lbs.</b>
1.5"	2850	C-161B-TC-D	<b>12000471</b>	16"x65"	4	680



## VIP- 1E Control – Single Multi-Media Filters *Fiberglass Tank – Sngl*

### Features:

- Single tank operation. Unfiltered water bypass during backwash.
- NEW! VIP-1E Electronic Time Clock feature & UL listed.  
Solid State single metered demand initiated backwash including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring.  
NEMA enclosed controller; Delayed or immediate backwash.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- ABS tank liner for longer service life. FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Differential pressure backwash feature.**
- **Optional: Alternate Water Source (Backwash)**
- **Optional: VIP-IIIE Triplex and/or Quadruplex units available.**



**M-211C-SNGL**

Pipe Size	Fleck Valve Type	Model Number	Part Number	Mineral Tank Size (inches)	Media Qty. (Cu. Ft.)	Ship. Wt. Lbs.
2"	3150	M-301C-SNGL	<b>902523</b>	30"x72"	15	1610

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

## Time Clock – Single Multi-Media Filters

### Fiberglass Tank – Single TC

#### Features:

- Automatic time clock initiated backwash
- Unfiltered Water bypass during backwash
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- ABS tank liners for longer service life. FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1ph operation



Pipe Size	Fleck Valve Type	Model Number	Part Number	Mineral Tank Size (inches)	Media Qty. (Cu. Ft.)	Ship. Wt. Lbs.
1"	2750	M-121A-TC	<b>12000087</b>	12"x52"	2	230
1"		M-161A-TC	<b>12000089</b>	16"x65"	4	515
2"	3150	M-301C-TC	<b>12000096</b>	30"x72"	15	1610

# ECI Softeners



\*Shown with factory SKID & Interconnecting Plumbing

## ***Fleck® Fiberglass Softeners***

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# Fiberglass Softener Specifications and Design Data

## Single Units – FRP Tanks

Model Number	Grains Capacity <sup>(2)</sup>			Recommended Flow Rates				Mineral Tank Size in. <sup>(4)</sup>	Pipe Size in.	Resin Qty Cu.Ft.	Max Drain Flow GPM	Brine Tank Capacity Lbs.	Space <sup>(5)</sup> Reqmt LxDxH in.
				Continuous		Peak <sup>(3)</sup>							
	Salt Setting			GPM Flow	PSI Drop	GPM Flow	PSI Drop						
	15lb/CF	10lb/CF	5lb/CF										
S-31A	30,000	25,000	20,000	7	5	12	10	9x48	1	1	2	400	32x18x62
S-61A	60,000	50,000	40,000	16	10	24	20	12x52	1	2	3	400	35x18x60
S-91A	90,000	75,000	60,000	21	15	29	25	14x65	1	3	5	400	36x18x71
S-91B	90,000	75,000	60,000	24	9	36	16	14x65	1½	3	5	400	36x18x71
S-121B	120,000	100,000	80,000	32	12	48	22	16x65	1½	4	7	700	45x24x72
S-151B	150,000	125,000	100,000	40	13	52	25	18x65	1½	5	7	700	46x24x72
S-121C	120,000	100,000	80,000	32	7	48	12	16x65	2	4	7	700	45x24x72
S-151C	150,000	125,000	100,000	40	9	60	16	18x65	2	5	7	700	46x24x72
S-301C	300,000	250,000	200,000	77	15	107	25	24x72	2	10	15	1000	52x24x87
S-451C	450,000	375,000	300,000	87	15	118	25	30x72	2	15	20	1500	65x30x100
S-451E	450,000	375,000	300,000	140	15	200	25	30x72	3	15	20	1500	65x32x104
S-901E	900,000	750,000	600,000	200	15	270	25	42x72	3	30	40	2500	85x42x112

### NOTES:

- (1) Weight and pressure drop data are estimates.
- (2) Exchange capacity is based upon treating water with 10 gpg total hardness. As CaCO<sub>3</sub> at the service rates specified and free of color, odor and turbidity. Capacity is for both tanks.
- (3) Peak flow rates are not recommended for extended periods of time.
- (4) Dimension refers to nominal vessel size only.
- (5) Not including operating and maintenance areas.

<b>Quantity of Resin and Gravel required per above specifications</b>										
Tank Size	9x48	12x52	14x65	16x65	18x65	24x72	30x72	36x72	42x72	48x72
Resin Qty.	1 ft3	2 ft3	3 ft3	4 ft3	5 ft3	10 ft3	15 ft3	20 ft3	30 ft3	40 ft3
Gravel Qty.	12 lbs	25 lbs	50 lbs	100 lbs	100 lbs	150 lbs	250 lbs	300 lbs	400 lbs	600 lbs

## Fiberglass Softener Specifications and Design Data (cont'd)

### ***Duplex Parallel Units – FRP Tanks***

Model Number	Total System Grains Capacity <sup>(2)</sup>			Recommended Flow Rates				(2) Mineral Tank Size in. <sup>(4)</sup>	Pipe Size in.	Total Resin Qty Cu.Ft.	Max Drain Flow GPM	Brine Tank Capacity Lbs.	Space <sup>(5)</sup> Reqmt LxDxH in.
				Duplex Continuous		Duplex Peak <sup>(3)</sup>							
	15lb/CF	Salt Setting 10lb/CF	5lb/CF	GPM Flow	PSI Drop	GPM Flow	PSI Drop						
S-31A	60,000	50,000	40,000	14	5	24	10	9x48	1	2	2	400	46x18x62
S-61A	120,000	100,000	80,000	32	10	48	20	12x52	1	4	3	400	52x18x60
S-91B	180,000	150,000	120,000	48	9	72	16	14x65	1½	6	5	400	54x18x71
S-121B	240,000	200,000	160,000	64	12	96	22	16x65	1½	8	7	700	67x24x72
S-121C	240,000	200,000	160,000	64	7	96	12	16x65	2	8	7	700	67x24x72
S-151C	300,000	250,000	200,000	80	9	120	16	18x65	2	10	7	700	68x24x72
S-301C	600,000	500,000	400,000	154	15	214	25	24x72	2	20	15	1000	80x24x87
S-451C	900,000	750,000	600,000	174	15	236	25	30x72	2	30	20	1500	100x32x100
S-451E	900,000	750,000	600,000	280	15	400	25	30x72	3	30	20	1500	100x32x104
S-901E	1,800,000	1,500,000	1,200,000	400	15	540	25	42x72	3	60	40	2500	133x42x112

**NOTES:**

- (1) Weight and pressure drop data are estimates.
- (2) Exchange capacity is based upon treating water with 10 gpg total hardness. As CaCO<sub>3</sub> at the service rates specified and free of color, odor and turbidity. Capacity is for both tanks.
- (3) Peak flow rates are not recommended for extended periods of time.
- (4) Dimension refers to nominal vessel size only.
- (5) Not including operating and maintenance areas.

<b>Quantity of Resin and Gravel required per above specifications</b>										
Tank Size	(2)9x48	(2)12x52	(2)14x65	(2)16x65	(2)18x65	(2)24x72	(2)30x72	(2)36x72	(2)42x72	(2)48x72
Resin Qty.	2 ft <sup>3</sup>	4 ft <sup>3</sup>	6 ft <sup>3</sup>	8 ft <sup>3</sup>	10 ft <sup>3</sup>	20 ft <sup>3</sup>	30 ft <sup>3</sup>	40 ft <sup>3</sup>	60 ft <sup>3</sup>	80 ft <sup>3</sup>
Gravel Qty.	24 lbs	50 lbs	100 lbs	200 lbs	200 lbs	300 lbs	500 lbs	600 lbs	800 lbs	1200 lbs

## VIP-1E Control – Single Demand Softener Fiberglass Tank – SNGL

### Features:

- Single tank operation. Hard water bypass during regeneration.
- NEW! VIP-1E Electronic Time Clock feature & UL listed. Solid State single metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate regeneration.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices).
- Standard safety float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



**S-301C-SNGL**

Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
1"	2750	S-31A-SNGL	<b>11000418</b>	30,000	9" x 48"	400	18"x40"	175
1"		S-61A-SNGL	<b>902301</b>	60,000	12" x 52"	400	18"x40"	245
1"		S-91A-SNGL	<b>902305</b>	90,000	14" x 65"	400	18"x40"	340
1.5"	2850	S-91B-SNGL	<b>902309</b>	90,000	14" x 65"	400	18"x40"	350
1.5"		S-121B-SNGL	<b>11000002</b>	120,000	16" x 65"	700	24"x41"	485
1.5"		S-151B-SNGL	<b>11000006</b>	150,000	18" x 65"	700	24"x41"	565
		S-211B-SNGL	<b>902325</b>	210,000	24" x 72"	1000	24"x50"	870
2"	2900	S-151C-SNGL	<b>11000022</b>	150,000	18" x 65"	700	24"x41"	580
		S-211C-SNGL	<b>902350</b>	210,000	24" x 72"	1000	24"x50"	830
2"		S-301C-SNGL	<b>902359</b>	300,000	24" x 72"	1000	24"x50"	1000

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

## VIP-1E Control – Twin Alternating Softener

### Fiberglass Tank – Alt 1

#### Features:

- Twin Alternating Operation; No hard water bypass during regeneration.
- NEW! VIP-1E Electronic Time Clock feature & UL listed. Solid State single metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate regeneration.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks; Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks.
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



S-61A-Alt1

Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
1"	9000	S-31A-ALT1	<b>11000513</b>	30,000	9" x 48"	400	18"x40"	350
1"		S-61A-ALT1	<b>902302</b>	60,000	12" x 52"	400	18"x40"	465
1"		S-91A-ALT1	<b>902306</b>	90,000	14" x 65"	400	18"x40"	655
1.5"	9500	S-121B-ALT1	<b>11000003</b>	120,000	16" x 65"	700	24"x41"	945
1.5"		S-151B-ALT1	<b>11000007</b>	150,000	18" x 65"	700	24"x41"	1105

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

## VIP-1E Control – Duplex Alternating Softener Fiberglass Tank – Alt 2

### Features:

- Duplex Alternating Operation; No hard water bypass during regeneration.
- NEW! VIP-1E Electronic Time Clock feature & UL listed. Solid State single metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate regeneration.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



S-301C-Alt2

Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
1"	2750	S-31A-ALT2	11000419	30,000	9" x 48"	400	18"x40"	350
1"		S-61A-ALT2	902303	60,000	12" x 52"	400	18"x40"	490
1.5"	2850	S-91B-ALT2	902311	90,000	14" x 65"	400	18"x40"	700
1.5"		S-121B-ALT2	11000004	120,000	16" x 65"	700	24"x41"	970
2"	2900	S-121C-ALT2	11000020	120,000	16" x 65"	700	24"x41"	1060
2"		S-151C-ALT2	11000023	150,000	18" x 65"	700	24"x41"	1160
		S-181C-ALT2	11000026	180,000	17" x 72"	700	24"x41"	1250
		S-211C-ALT2	902351	210,000	24" x 72"	1000	24"x50"	1660
		S-241C-ALT2	902354	240,000	24" x 72"	1000	24"x50"	1760
2"		S-301C-ALT2	902360	300,000	24" x 72"	1000	24"x50"	2000
2"		S-451C-ALT2	902363	450,000	30" x 72"	1500	30"x50"	2980
3"	3900	S-901E-ALT2	11000927	900,000	42" x 72"	2500	39"x48"	5670

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.



## VIP-1E Control – Duplex Parallel Softener Fiberglass Tank – PAR2

### Features:

- Duplex Parallel Operation; No hard water bypass during regeneration.
- NEW! VIP-1E Electronic Time Clock feature & UL listed. Solid State single metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate regeneration.
- **Par 2 –Systems utilize one pipe size larger flow meter!**
- Lead-free brass multiport control valves with self- cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-1E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



S-301C-PAR2

Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.	List Price
1"	2750	S-61A-PAR2	<b>902304</b>	60,000	12" x 52"	400	18"x40"	490	
1.5"	2850	S-121B-PAR2	<b>11000005</b>	120,000	16" x 65"	700	24"x41"	970	

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

**Note: Duplex Parallel Systems have next size larger flow meter to handle double the flowrate. If not required, order Duplex Alternating system on previous page and program for Parallel Mode.**

## VIP-II Control – Duplex Softener

### Fiberglass Tank – Alternating or Parallel

#### Features:

- Twin Alternating or Parallel Operation; No hard water bypass during regeneration.
- NEW! VIP-II Electronic Time Clock feature & UL listed. Solid State multiple metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller; Delayed or immediate regeneration.
- VIP-II - Systems utilize individual tank flow meters, allowing expansion up to four future tanks.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-II “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



S-301C-VIPII-D

Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
2"	2900	S-151C-VIP II-D	<b>11000291</b>	150,000	18" x 65"	700	24"x41"	1160
2"		S-301C-VIP II-D	<b>11000296</b>	300,000	24" x 72"	1000	24"x50"	2000
673"	3900	S-451E-VIP II-D	<b>11000995</b>	450,000	30" x 72"	1500	30"x50"	3030

## VIP-II-E Control – Triplex Softener

### Fiberglass Tank – Alternating or Parallel

#### Features:

- Triplex Alternating or Parallel Operation. No hard water bypass during regeneration.
- NEW! VIP-II-E Electronic Time Clock feature & UL listed. Solid State multiple metered demand initiated regeneration including rate of flow, re-settable totalizing meter, & self-diagnostic status monitoring. NEMA enclosed controller.
- VIP-II-E - Systems utilize individual tank flow meters, allowing expansion up to four future tanks.
- Lead-free brass multiport control valves with self-cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH transformer included/ twist lock style electrical connections/ 24V control voltage.
- **Optional: NEW! VIP-II-E “DCS” – Remote monitoring, programming & data reporting capability.**
- **Optional: Alternate Water Source (Regeneration source) and/or Brine reclaim.**
- **Optional: Hot Water softeners – contact ECI with application temperature.**



Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
2"	2900	S-151C-VIP II-T	<b>11000311</b>	150,000	18" x 65"	700	24"x41"	1740
2"		S-301C-VIP II-T	<b>11000316</b>	300,000	24" x 72"	1000	24"x50"	3000

Note: 1", 1-1/2" and 2" Flow Meters supplied with above products are Plastic. 3" and 4" are insertion type paddle wheel flow meters utilizing copper tees. Other materials are available on special order.

## Time Clock Control – Single Softener

### Fiberglass Tank - Single

#### Features:

- Automatic mechanical Time Clock initiated regeneration. Hard Water bypass during regeneration
- Lead-free brass multiport control valves with self- cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH operation



Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity Per Tank (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
1"	2750	S-31A-TC	<b>11000416</b>	30,000	9" x 48"	400	18"x40"	175
1"		S-61A-TC	<b>11000028</b>	60,000	12" x 52"	400	18"x40"	245
1.5"	2850	S-91B-TC	<b>11000030</b>	90,000	14" x 65"	400	18"x40"	350
1.5"		S-121B-TC	<b>11000031</b>	120,000	16" x 65"	700	24"x41"	485
2"	2900	S-151C-TC	<b>11000039</b>	150,000	18" x 65"	700	24"x41"	580

## Time Clock Control – Dual Softener Fiberglass Tank – Duplex Parallel

### Features:

- Automatic mechanical Time Clock initiated regeneration.  
No Hard Water bypass during regeneration
- Lead-free brass multiport control valves with self- cleaning, hydraulically balanced positive acting piston.
- Timed brine refills (eliminates constant line pressure on shut off float devices)
- Standard safety-float valve shutoff on 400/700lb brine tanks. Optional on 1000lb and larger sizes.
- High strength polyethylene tank liners for longer service life, FRP wrapped for strength and corrosion resistance. ANSI/NSF listed tanks
- 120V/60Hz/1pH operation



Pipe Size	Fleck Valve Type	Model Number	Part Number	Capacity Per Tank (grains)	Mineral Tank Size (inches)	Brine Tank Capacity (LBS)	Brine Tank Size	Ship. Wt. Lbs.
1"	2750	S-61A-TC-D	<b>11000048</b>	60,000	12" x 52"	400	18"x40"	490

# ECI Reverse Osmosis



Prices are subject to change without notice. Specifications subject to change without notice. Orders are subject to acceptance by ECI.

# Reverse Osmosis Units Specifications and Design Data

## *ECI HV Series 2,000 – 10,800 GPD Capacity (1.4 – 7.5 GPM)*

Model Number	R1F40	R2F40	R3F40	R4F40	R5F40	R6F40
<b>Product Flow</b> <sup>(1) (2)</sup>						
GPM	1.4	2.7	3.9	5.2	6.6	7.5
GPD	2,000	3,900	5,600	7,500	9,500	10,800
<b>Feed Flow (GPM)</b>	2.8	5.4	7.8	10.4	13.2	15
<b>Reject Flow (GPM)</b>	1.4	2.7	3.9	5.2	6.6	7.5
<b>Recycle (GPM)</b>	5.2	3.6	2.2	5.6	4.8	3.0
<b>Rejection</b>	98%	98%	98%	98%	98%	98%
<b>Recovery Range</b>	18 – 75%	32 – 75%	42 – 75%	34 – 75%	37 – 75%	42 – 75%
<b>Membrane Size</b>	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"
<b>Vessel Size</b>	1M	1M	1M	1M	1M	1M
<b>Array</b>	1	1:1	1:1:1	2:1:1	2:2:1	2:2:1:1
<b>No. of Membranes</b>	1	2	3	4	5	6
<b>Prefilter</b>	1 – 10"	1 – 10"	1 – 10"	1 – 20"	1 – 20"	1 – 20"
<b>Pipe Size In</b>						
Feed – Pkg 1	0.75" FNPT	0.75" FNPT	0.75" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
Feed – Pkg 2	0.75" FNPT	0.75" FNPT	0.75" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
Feed – Pkg 3	0.75" FNPT	0.75" FNPT	0.75" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
Product – Pkg 1	0.375" Tube	0.375" Tube	0.375" Tube	0.5" Tube	0.5" Tube	0.5" Tube
Product – Pkg 2	0.5" FNPT	0.5" FNPT	0.5" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
Product - Pkg 3	0.75" FNPT	0.75" FNPT	0.75" FNPT	0.75" FNPT	0.75" FNPT	0.75" FNPT
Reject – Pkg 1	0.375" MNPT	0.375" MNPT	0.375" MNPT	0.5" MNPT	0.5" MNPT	0.5" MNPT
Reject – Pkg 2	0.5" FNPT	0.5" FNPT	0.5" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
Reject – Pkg 3	0.5" FNPT	0.5" FNPT	0.5" FNPT	1.0" FNPT	1.0" FNPT	1.0" FNPT
<b>Feed Pressure (psig)</b>	20 – 50	20 – 50	20 – 50	20 – 50	20 – 50	20 – 50
<b>Pump HP</b>	3/4	3/4	3/4	2	2	2
<b>Power</b>	220V/60Hz/1 ph	220V/60Hz/1 ph	220V/60Hz/1 ph	220V/60Hz/1 ph	220V/60Hz/1 ph	220V/60Hz/1 ph
<b>Amps</b>	8	8	8	17	17	17
<b>Dimensions (LxDxH)</b> <sup>(3)</sup>	26" x 16" x 54"	26" x 16" x 54"	26" x 16" x 54"	26" x 16" x 54"	38" x 16" x 54"	38" x 16" x 54"

**Notes:**

- (1) Based upon feed water: SDI<3, free chlorine 0.0 mg/l maximum, pH 2-11 and temperature 77° F.
- (2) System flows are design parameters.
- (3) All dimensions approximate. Additional space required for maintenance.



## **Reverse Osmosis Systems – HV Series** ***2,000 to 10,800 GPD Capacity – BETTER***

### **High Volume Features:**

- 4" x 40" low-energy TFC membranes
- Smooth, quiet operating stainless steel, multi-stage centrifugal pumps with plastic impellers
- 3/4 or 2 HP 230/60 Hz/1 pH motors providing up to 185 PSI pressure (1" inlet) with 5-micron filter
- Single power connection for all controls, switches, and solenoid valves
- Stainless Steel Membrane Housings
- Heavy-duty, Stainless Steel frame for durability and rust resistance
- All systems are fully tested and shipped fully assembled

### **Feature Package II Features:**

- Pretreatment lockout
- Low level connections
- Low-pressure protection
- Auto Re-start after shutdown
- Waste recycle
- **Product and waste flow meter (Pkg-II)**



**R4F40 Package BETTER**

<b>Nominal Capacity GPD</b>	<b>Model Number</b>	<b>Part Number</b>	<b>Membranes No. &amp; Size (vessel)</b>	<b>HP</b>	<b>Shipping Wt. Lbs.</b>
2,000	R1F40-BETTER	<b>13000059</b>	1 – 4 x 40 (1M)	3/4	195
3,900	R2F40-BETTER	<b>13000056</b>	2 – 4 x 40 (1M)	3/4	220
5,600	R3F40-BETTER	<b>13000053</b>	3 – 4 x 40 (1M)	3/4	245
7,500	R4F40-BETTER	<b>13000050</b>	4 – 4 x 40 (1M)	2	275
9,500	R5F40-BETTER	<b>13000047</b>	5 – 4 x 40 (1M)	2	300
10,800	R6F40-BETTER	<b>13000044</b>	6 – 4 x 40 (1M)	2	325



## **Reverse Osmosis Systems – HV Series** ***2,000 to 10,800 GPD Capacity – Package BEST***

### **High Volume Features:**

- 4" x 40" low-energy TFC membranes
- Smooth, quiet operating stainless steel, multi-stage centrifugal pumps with plastic impellers.
- 3/4 or 2 HP 230/60 Hz/1 pH motors providing up to 185 PSI pressure (1" inlet) with 5-micron filter
- Single power connection for all controls, switches, and solenoid valves
- Stainless Steel Membrane Housings
- Heavy-duty, Stainless Steel frame for durability and rust resistance
- All systems are fully tested and shipped fully assembled

### **Feature Package III Features:**

- Pretreatment lockout
- Low level connections
- Low-pressure protection
- Auto Re-start after shutdown
- Waste recycle
- Product and waste flow meter
- **Product TDS meter (Pkg-III)**
- **Automatic waste flush (Pkg-III)**



**R5F40 Package BEST**

<b>Nominal Capacity GPD</b>	<b>Model Number</b>	<b>Part Number</b>	<b>Membranes No. &amp; Size (vessel)</b>	<b>HP</b>	<b>Shipping Wt. Lbs.</b>
2,000	R1F40-BEST	<b>13000058</b>	1 – 4 x 40 (1M)	3/4	195
3,900	R2F40-BEST	<b>13000055</b>	2 – 4 x 40 (1M)	3/4	220
5,600	R3F40-BEST	<b>13000052</b>	3 – 4 x 40 (1M)	3/4	245
7,500	R4F40-BEST	<b>13000049</b>	4 – 4 x 40 (1M)	2	275
9,500	R5F40-BEST	<b>13000046</b>	5 – 4 x 40 (1M)	2	300
10,800	R6F40-BEST	<b>13000043</b>	6 – 4 x 40 (1M)	2	325



# **Dealer Wholesale List Price**

**Effective April 1<sup>st</sup>, 2014**



**A Marmon Water/Berkshire Hathaway Company**

## ECI Filters

### FLECK FIBERGLASS FILTERS – Carbon

Valve Size/Type	Part #	Description	List Price
Fleck 2750-VIP	902501	C-121A-SNGL	2,456.41
Fleck 2750-Time Clock	12000061	C-121A-TC	1,471.27
Fleck 2750-Time Clock	12000062	C-141A-TC	1,908.00
Fleck 2850-Time Clock	12000065	C-161B-TC	2,762.00
Fleck 2850-Time Clock	12000471	C-161B-TC-D	6,040.00
Fleck 2900-Time Clock	12000070	C-241C-TC	4,094.00

### FLECK FIBERGLASS FILTERS – Multimedia

Valve Size/Type	Part #	Description	List Price
Fleck 2750-Time Clock	12000087	M-121A-TC	1,336.00
Fleck 2750-Time Clock	12000089	M-161A-TC	1,754.00
Fleck 2900-VIP	902523	M-301C-SNGL	8,250.00
Fleck 2900-Time Clock	12000096	M-301C-TC	7,454.00

## ECI Softeners

### FLECK FIBERGLASS SOFTENERS

Valve Size/Type	Part #	Description	List Price
Fleck 2750-VIP	11000419	S-31A-ALT2	4,080.07
Fleck 2750-VIP	11000418	S-31A-SNGL	2,413.44
Fleck 2750-VIP	902303	S-61A-ALT2	4,713.97
Fleck 2750-VIP	902304	S-61A-PAR2	4,526.06
Fleck 2750-VIP	902301	S-61A-SNGL	2,646.23
Fleck 2750-VIP	902305	S-91A-SNGL	2,996.00
Fleck 2750-Time Clock	11000028	S-61A-TC	1,688.00
Fleck 2750-Time Clock	11000048	S-61A-TC-D	3,650.00
Fleck 2750-Time Clock	11000416	S-31A-TC	1,460.00
Fleck 2850-VIP	11000004	S-121B-ALT2	7,725.98
Fleck 2850-VIP	11000005	S-121B-PAR2	7,290.78
Fleck 2850-VIP	11000002	S-121B-SNGL	4,150.17
Fleck 2850-VIP	11000006	S-151B-SNGL	4,505.85
Fleck 2850-VIP	902325	S-211B-SNGL	4,448.99
Fleck 2850-VIP	902311	S-91B-ALT2	7,219.12
Fleck 2850-VIP	902309	S-91B-SNGL	3,781.77
Fleck 2850-Time Clock	11000030	S-91B-TC	2,574.00
Fleck 2850-Time Clock	11000031	S-121B-TC	2,984.00
Fleck 2900-VIP	11000020	S-121C-ALT2	7,801.02
Fleck 2900-VIP	11000023	S-151C-ALT2	8,513.17
Fleck 2900-VIP	11000022	S-151C-SNGL	4,767.90

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## ECI Softeners (cont'd)

### FLECK FIBERGLASS SOFTENERS

Valve Size/Type	Part #	Description	List Price
Fleck 2900-VIP	11000291	S-151C-VIP2-D	9,227.85
Fleck 2900-VIP	11000311	S-151C-VIP2-T	13,122.00
Fleck 2900-VIP	11000026	S-181C-ALT2	9,606.09
Fleck 2900-VIP	902351	S-211C-ALT2	8,335.78
Fleck 2900-VIP	902350	S-211C-SNGL	5,608.71
Fleck 2900-VIP	902354	S-241C-ALT2	8,579.39
Fleck 2900-VIP	902360	S-301C-ALT2	10,541.00
Fleck 2900-VIP	902359	S-301C-SNGL	5,974.14
Fleck 2900-VIP	11000296	S-301C-VIP2-D	11,228.00
Fleck 2900-VIP	11000316	S-301C-VIP2-T	16,081.00
Fleck 2900-VIP	902363	S-451C-ALT2	15,939.00
Fleck 2900-Time Clock	11000039	S-151C-TC	3,904.00
Fleck 3900-VIP	11000927	S-901E-ALT2	37,559.00
Fleck 3900-VIP	11000995	S-451E-VIP2-D	29,736.00
Fleck 9000-VIP	11000513	S-31A-ALT1	3,125.66
Fleck 9000-VIP	902302	S-61A-ALT1	3,582.53
Fleck 9000-VIP	902306	S-91A-ALT1	4,297.23
Fleck 9500-VIP	11000003	S-121B-ALT1	6,889.07
Fleck 9500-VIP	11000007	S-151B-ALT1	7,649.35

## ECI Reverse Osmosis

### HV SERIES REVERSE OSMOSIS

Part #	Description	List Price
13000059	R1F40-BETTER	9,358.71
13000056	R2F40-BETTER	10,383.00
13000053	R3F40-BETTER	11,408.00
13000050	R4F40-BETTER	12,944.00
13000047	R5F40-BETTER	13,969.00
13000044	R6F40-BETTER	14,993.00
13000058	R1F40-BEST	10,895.00
13000055	R2F40-BEST	11,920.00
13000052	R3F40-BEST	12,944.00
13000049	R4F40-BEST	14,481.00
13000046	R5F40-BEST	15,507.00
13000043	R6F40-BEST	16,530.00

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