

# ACCURA-FLO

Your silent partner in flow

**Moore Sailboats is now the distributor and manufacturer for Accura-Flo.**

We are now directly dealing with all Accura-Flo flume customers. Since March we have built a large number of flumes for existing customers that have found us and we are in the processes of contacting all of our past customers dating back to 2001.

## Moore Sailboats

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**All prices are subject to change without notice. Dealers please contact us for pricing.**

**Parshall Flumes** are the tried and true standard for most waste water treatment plants influent and effluents. Basically intended for rectangular canals they can be used with non-full pipes if a suitable transition is provided. See end adapter pricing below.

Parshall Flumes			
Flume size	Flume type		List price
1	Parshall	\$	469.00
2	Parshall	\$	609.00
3	Parshall	\$	754.00
6	Parshall	\$	1,277.00
9	Parshall	\$	1,587.00
12	Parshall	\$	2,974.00
18	Parshall	\$	3,225.00
24	Parshall	\$	3,500.00
36	Parshall	\$	4,077.00

**End Adapters** (inlet and Outlet) are used to mate Parshall flumes to non- full round pipes. Use caution when considering using end adapters as pipe size not flume size, is often the limiting factor.

Parshall End Adapters			
To complete a package an appropriate pipe stub must be selected in addition to each adapter (inlet and/or outlet)			
Flume size	Flume type		List price
1	inlet adap	\$	488.00
1	out adap	\$	562.00
2	inlet adap	\$	562.00
2	out adap	\$	514.00
3	inlet adap	\$	682.00
3	out adap	\$	621.00
6	inlet adap	\$	906.00
6	out adap	\$	890.00
9	inlet adap	\$	1,097.00

**Accessories** for measuring head usually require handing. Call out right or left hand side looking downstream when ordering; attached stilling wells, stilling well port (for detached wells) bubbler tubes or staff gages. Ultra sonic transducer brackets are normally mounted over the center of the flume except on very large flumes (consult factory if unsure of transducer mounting)

Accessories	
Description	List price
Attached Stilling well ( Note: no port required on flume)	\$ 784.00
Detached Well ( Note: a port is required on the flume)	\$ 723.00
Stillingwell Port ( Note: specify size 1/2 inch through 2 inch NPT)	\$ 73.00
Staff Gage (Note: specify units of feet, inches or millimeters)	\$ 110.00
Bubbler Tube (1/4 inch OD stainless steel)	\$ 90.00
Wingwalls (pair) 45 degree angle flat wing walls	\$ 635.00
Nesting Charge For Parshall Flumes	\$ 1,414.00
Special Nesting charge ( applies to 1" x 2", 3" x 6" and 9" x 12")	\$ 1,463.00
Concrete Anchor Clips ( Note: Charge is per clip)	\$ 18.00
Ultra Sonic Transducer Brackets (FRP construction)	\$ 270.00

**Palmer Bowlus Flumes** in channel liner are provided in a one piece 4 x D configuration in sizes up to 18 inches. Flumes 21 inches and larger are provided as a two piece assembly divided transverse to the flow line at the center point (each section is 2 x D long)

An exception to the above note is that the 30 inch flume is available in 2D or 4D configurations.

Palmer Bowlus in 4D Channel		
Flume size	Flume type	List price
4	PB in Channel	\$ 354.00
6	PB in Channel	\$ 453.00
8	PB in Channel	\$ 575.00
10	PB in Channel	\$ 636.00
12	PB in Channel	\$ 661.00
15	PB in Channel	\$ 1,055.00
18	PB in Channel	\$ 1,180.00
21	PB in Channel	\$ 1,751.00
24	PB in Channel	\$ 2,100.00
27	PB in Channel	\$ 2,489.00
30	PB in Channel	\$ 2,776.00
36	PB in Channel	\$ 3,971.00
42	PB in Channel	\$ 5,092.00
48	PB in Channel	\$ 6,414.00
54	PB in Channel	\$ 7,913.00
60	PB in Channel	\$ 9,558.00

**Low Flow Flumes** are close cousins to Palmer Bowlus. The range is approx. 1/3 of that of the corresponding PB size, with a propionate increase in resolution of lower flows. This flume is unique to Accura-flo.

Low Flow in 4D Channel		
Flume size	Flume type	List price
4	LF4D	\$ 354.00
6	LF4D	\$ 453.00
8	LF4D	\$ 575.00
10	LF4D	\$ 636.00
12	LF4D	\$ 661.00
15	LF4D	\$ 1,055.00
18	LF4D	\$ 1,305.00

**Pipe stub assemblies** are required to connect Parshall Flume End Adapters, H flume Approach Channels and Palmer Bowlus Flumes in Channel Liners to round pipes. The pipes stubs 12 inches in diameter and below are made of schedule 40 PVC pipe and are first bonded to the flume structure with a special urethane adhesive. The joint then is completed by overlaying with glass mat, roving and resin. The stubs 15 inches and above are molded fiberglass stubs which are then directly glassed to the flume structure. In the case of the molded stubs the OD conforms to schedule 40/80 PVC and ductile iron. The ID is a non-controlled dimension due to the nature of the hand layup process.

<b>Pipe Stub Assemblies on Palmer Bowlus Flumes</b>		
Pipe size		List price
4	\$	277.00
6	\$	281.00
8	\$	284.00
10	\$	288.00
12	\$	291.00
15	\$	507.00
18	\$	524.00
21	\$	564.00
24	\$	603.00
27	\$	643.00
30*	\$	1,255.00

\*Note: 30" Pipe stub assembly includes a \$350.00 tooling charge, included in the pricing.

**Palmer Bowlus Inserts** are intended for use in preformed U shaped inverters consisting of a half round section and parallel vertical sides above spring line.

<b>Palmer Bowlus Inserts</b>		
Flume size	Flume type	List price
4	PBI	\$ 192.00
6	PBI	\$ 204.00
8	PBI	\$ 213.00
10	PBI	\$ 254.00
12	PBI	\$ 337.00
15	PBI	\$ 553.00
18	PBI	\$ 656.00
21	PBI	\$ 711.00
24	PBI	\$ 692.00
30	PBI	\$ 874.00
36	PBI	\$ 1,134.00
42	PBI	\$ 1,466.00

**Low Flow Inserts** are like the Palmer Bowlus inserts, they are intended for placement in a pre-formed U shaped invert consisting of a half round bottom with vertical, parallel walls above spring line.

Low Flow Inserts			
Flume size	Flume type		List price
4	LFI	\$	192.00
6	LFI	\$	204.00
8	LFI	\$	213.00
10	LFI	\$	254.00
12	LFI	\$	337.00
15	LFI	\$	553.00
18	LFI	\$	656.00

**Trapezoidal flumes** are venture flumes much like the Palmer Bowlus. They were originally developed for irrigation channels and lend themselves well to trapezoidal channel shapes. A smooth transition needs to be designed into the application if they are to be mated with non-full round pipes.

Trapezoidal flumes			
Flume size	Flume types		List price
1	1 ft SRC	\$	852.00
2	2 ft SRC		
3*	Lrg 60 V	\$	446.00
4	Ex Lrg 60	\$	607.00
5	2" 60	\$	623.00
6	2" 45	\$	874.00

\*Adapter plates for pipe assemblies available on requests.

**H flumes** are a bit of a hybrid mid way between flumes and weirs. They require a non-impeded discharge. Since the measuring point that was selected during development at the Forest Service is in the draw down effect they are very sensitive to slight errors in measuring point position. A straight uniform approach must be provided that matches the inlet width of the flume.

H Flumes			
Flume size	Flume type	List price	
0.4	HS	\$	272.00
0.6	HS	\$	323.00
0.6	HS	\$	516.00
0.5	H	\$	280.00
0.75	H	\$	438.00
1	H	\$	506.00
1.5	H	\$	789.00
2	H	\$	814.00
2.5	H	\$	1,047.00
3	H	\$	1,401.00

Flume type	Flume size	Min flow	Min flow	Max flow	Max flow	Range	Width	Length	Approach	Channel Length
	H	CFS	MGD	CFS	MGD	X:1	W	L		
HS	0.4	0.00016	0.0001	0.0803	0.0518	502	0.42	0.6		2
HS	0.6	0.00023	0.00014	0.221	0.1428	961	0.63	0.9		3
H	0.5	0.0004	0.0003	0.331	0.214	828	0.95	0.675		2.5
H	0.75	0.0006	0.0004	0.957	0.619	1595	1.425	1.0125		3.75
H	1	0.0007	0.0005	1.92	1.24	2743	1.9	1.35		5
H	1.5	0.0011	0.0007	5.33	3.44	4845	2.85	2.025		7.5
H	2	0.0014	0.0009	10.98	7.1	7843	3.8	2.7		10
H	2.5	0.0018	0.0011	19.2	12.41	10667	4.75	3.375		12.5
H	3	0.0021	0.0013	30.4	19.65	14476	5.7	4.05		15
H	4.5	0.0031	0.002	84	54.29	27097	8.55	6.075		22.5
HL	4	0.005	0.0032	117	75.62	2340	12.8	6		20

**H Flumes** require a uniform approach channel if a concrete channels not being formed then a fiberglass approach is recommended. Channel listed are 5 x H long which is the recommended length for most applications. Shorter channels can be provided when needed.

<b>H flumes Approach channels</b>
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Flume size	Flume type	List price
0.4	HS app.	\$ 397.00
0.6	HS app.	\$ 593.00
0.6	HS app.	\$ 867.00
0.5	H app.	\$ 550.00
0.75	H app.	\$ 689.00
1	H app.	\$ 978.00
1.5	H app.	\$ 1,839.00
2	H app.	\$ 3,036.00
2.5	H app.	\$ 4,523.00