



Hamilton
Engineering

Innovative Hot Water Solutions

2018 PRICING INFORMATION

Commercial Distributors

Effective 11/21/2018

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HAMILTON'S **QUOTE** BUILDER

- Accurate, quick, and easy system quotations are accomplished by using our Quote Builder at: **hamiltonengineering.quotebuilder.us**
- ***Always*** price systems through Quotebuilder. This assures that you will always have the most up-to-date calculations.
- For more information regarding Quote Builder, requesting a log-in, or sizing information, please contact your sales representative at **800.968.5530**.

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GENERAL TERMS AND CONDITIONS

FREIGHT: ALL shipments from our Livonia, Michigan facility will be FREIGHT PREPAID & ADD or THIRD PARTY BILLING, unless other arrangements have been made in advance.

EXPORT SHIPMENTS: All export shipments that are to be crated for export by Hamilton require a special quote to accommodate shipping regulations.

PAYMENT TERMS: Terms are 30 days to pre-approved accounts. New accounts will require payment in advance of shipping until credit is approved. Any accounts past due are subject to a late fee; accounts past due over 45 days will be placed on credit hold until the account is current and credit terms are re-established.

MATERIALS RETURN/WARRANTY REPLACEMENT: No material may be returned (unused or warranty) without prior approval and an RGA number. All returned goods must be accompanied by RGA documents within 30 days, and be returned **FREIGHT PREPAID**. Returned goods (in new condition) will be subject to a minimum 15% restocking charge, and any damage or re-packaging costs will be additional.

NOTES

1. Pumps are sized for proper flow through heater with “good” water chemistry, as determined through the following: Hardness, Alkalinity, PH, TDS and temperature to be heated to, utilizing a series of indices to accurately predict the propensity to scale. Hamilton may refuse to take an order without these water chemistry items being supplied, and based on the outcome of the calculations, may require alternate system designs.
 2. For storage tanks other than those listed on the following pages, contact Hamilton Engineering, Inc.
 3. For LP conversion and test fire, see page 6 for additional charges. For all models except EVO, LP or special elevation units ordered with five-week lead-time, no additional charge is added. Tank-type LP always subject to price sheet surcharge.
 4. CSD-1 Requirements—Due to the large discrepancy in requirements from state to state, you must specify exact controls.
 5. Custom dimension systems require drawings and customer approval prior to entering in the production schedule and will be subject to a minimum 15% surcharge on the Rack Pack pricing.
 6. Prices subject to change without notice. Consult factory or website for most current pricing.
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ENGINEERED JOBS

- Due to the thousands of different combinations, please consult Hamilton Engineering for all sizings of water softeners.
- Each odd water package is designed specifically for each job, consult Hamilton Engineering for proper sizing.

EVO Packaged Heating Systems—For the most up to date pricing, always use QuoteBuilder for package pricing

Note: Complete packages includes Inlet & Outlet Venting for multiple units, Gas Manifold, Electrical, Condensate Piping, Water Piping, Stand, and Cascade Controls.

EVO Boiler and Pump Packages

Model No.	BTU/Hr Input	Up to GPH @ 100°F Rise	List (\$)	Pump Package Model	Pump Package List (\$)	Total List (\$)	Weight (Pounds)
HW 129	136,300	160	6,045	PMP 90346 MM	461	6,506	77
HW 199.1	199,999	233	7,687	PMP 90304-199.1 MM	910	8,597	95
HW 299	299,999	350	10,676	PMP 90304 MM	1,005	11,681	127
HW 399	399,999	466	13,261	PMP 90312 MM	1,083	14,344	194
HW 599	630,000	734	20,411	PMP 90310 MM	1,048	21,459	234
HW 798 (399-399)	799,998	931	26,523	(2) PMP 90312MM	2,165	28,688	388
HW 998 (599-399)	1,029,999	1199	33,672	PMP 90312MM & PMP 90310MM	2,131	35,803	428

Boiler Options and Accessories

Unit Options	Part Number	List	List
Cascade board (installed)	RLY 74300	\$255	Loose \$163
Thermistor	TST 76110	\$91	(Unthreaded Sensor) for glass lined 80-200gl Tank
Thermistor	TST 71010	\$79	Immersion Style 1/2"NPT w/4" Stem with well Sensor for HSS/Tank/Piping
Thermistor	TST 71020	\$58	Strap-on Sensor 2" - 5" pipe
Thermistor	TST 71030	\$49	Outdoor Air Sensor - weatherproof encl.
Gauge T&P 0-60psi Mounted	GTP 91061	\$97	
Gauge T&P 0-100psi Mounted	GTP 91100	\$138	
Gauge T&P 0-200psi Mounted	GTP 91200	\$166	
Adjustable high Limit w/Reset 79-199		\$969	CNV 89079
Adjustable high Limit w/Reset 299-599		\$1,053	CNV 89078
LP Gas Conv. (Test fired - per unit) 79-599		\$400	
BMS Options	Part Number	List	List
Remote monitor thermostat	TST 74401	\$1,054	- Requires RLY 74356
OT comm. board (installed)	RLY 74356	\$137	Loose \$52
BMS Gateway to EVO for the following protocols:			
Gateway (LON)	RLY 74360	\$3,732	
Gateway (BACnet)	RLY 74361	\$3,732	
Gateway (Modbus)	RLY 74362	\$3,732	
<i>Note: To observe/control each boiler/heater order 1 gateway and 1 OT board per boiler.</i>			
<i>Note: If the units are cascaded 1 gateway and 1 OT board are required for the lead unit. You can control the entire Cascade, but, only observe the lead unit in this configuration.</i>			
Service Port Communication Options	List		
Interface Cable	\$308		(Software free with purchase of cable)
Note: Must have attended service school for the above communication options.			
Packaging Options	List	Part Number	
Universal Package for 129 to 399	\$375		
Universal Package for 599	\$650		
Conversion EVO DUO Short Rack	C/F	CNV 89500	Each boiler requires this part on short rack.
Note: Short racks require 15% upcharge on Manifold list pricing.			
Label & Test Options	List	Part Number	
CSD-1 Report	\$30 net with order or \$60 net after order	LIT CSD1U1	
ASME Report	\$30 net with order or \$60 net after order	LIT CG500	
CSD-1 Gas Train/599 only	\$1,260	CNV 89057 H	
UL 795 / CSA 3.4 system labeling	\$595	LBL 74106	
UL 795 / CSA 3.4 system test** 2 units	\$1,295	LBL 74106-2	
UL 795 / CSA 3.4 system test** per unit over 2	\$350	LBL 74106-X	

Note: Consult CD Calculator or Sales Representative for Low Water Cut Off, LWCO.

3VO Heating Packaged Systems—For the most up to date pricing, always use QuoteBuilder for package prices.
NOTE: Complete packages include Gas Manifold, Electrical Condensate Neutralizers, Water Piping and Cascade Controls.

3VO Boiler and Pump Packages

Model No.	BTU/Hr Input	Up to GPH @ 100°F Rise	List (\$)	Pump Package	List (\$)	Total List (\$)	Weight (Pounds)
H3H 750	747,684	884	50,702	PMP 90099-230 C	3,157	53,859	1,431
H3H 850	848,561	1,003	53,371	PMP 90099-230 C	3,157	56,528	1,451
H3H 1000	1,000,754	1,183	56,179	PMP 90099-230 C	3,157	59,336	1,463
H3H 1500	1,536,244	1,817	62,835	PMP 90099-230 C	3,157	65,992	1,639
H3H 2000	1,993,316	2,357	71,910	PMP 90100-230 C	4,383	76,293	1,688
H3H 2500	2,554,213	3,020	88,636	PMP 90100-230 C	4,383	93,019	1,731
H3H 3000	3,025,288	3,577	99,160	PMP 90098-230 C	4,545	103,705	1,860
H3H 3500	3,437,291	4,065	115,538	PMP 90098-230 C	4,545	120,083	1,925
H3H 4000	4,000,000	4,643	129,373	PMP 90098-230 C	4,545	133,918	1,960

Boiler System Accessories—EVO/3VO

Hamilton System Separator

Diameter	Connections	Maximum system flow rate	List(\$)	Connector Arms from MM to HSS List (\$)	Accessory package HSS to customer Expansion Tank (\$)
3	2"	14 gpm	2,302	984	517
4	2"	29 gpm	3,629	984	517
6	3"	78 gpm	4,149	1,272	517
8	3"	112 gpm	4,544	1,272	517
10	3"	196 gpm	6,338	1,272	470
10	6"	270 gpm	7,779	N/A	470
12	6"	437 gpm	9,384	N/A	470
16	6"	775 gpm	13,286	N/A	470
18	6" Boiler System 8"	1223 gpm	17,083	N/A	470

Note: Accessory package is estimated and may vary depending on Vent size. Consult your sales representative for correct pricing.

Note: Accessory package includes, air vent, fill valve, gauge T&P, valves and piping.

Note: Larger HSS sizes available, consult factory for pricing and delivery.

Note: Additional HSS connection sizes available, consult factory for pricing and delivery.

Buffer Tanks - Vertical, Unlined, ASME

Model	Connections	Wt. (lbs)	List (\$)
HBT 00120	3" NPT	500	9,046
HBT 00200	3" NPT	900	9,828
HBT 00300	4" Flange	1290	15,111
HBT 00400	6" Flange	1626	16,626
HBT 00500	6" Flange	1765	17,940
HBT 00750	6" Flange	2330	23,894
HBT 01000	6" Flange	3010	28,852

Buffer Tanks - Vertical, Stainless Steel

Model	Connections	Wt. (lbs)	List (\$)
HBT 00030	1.5" NPT	70	1,554
HBT 00050	1.5" NPT	120	2,261
HBT 00080	2" NPT	153	3,029
HBT 00119	2" NPT	198	4,623

Hydronic Water Expansion Tanks - NON ASME

Model	Hamilton No.	Dimensions	Gallon Capacity		Wt. (lbs.)	List (\$)
			Total/Accept			
HTX 30	HET 10051	11.0" x 14.0"	4.5/2.5		10	142
HTX 60	HET 10052	11.4" x 17.2"	6.0/3.0		11.5	331
HTX 90	HET 10053	16.0" x 20.8"	15.0/6.0		28	429
SXHT 30	HET 10054	16.0" x 21.7"	15.0/6.0		32	623
SXHT 40	HET 10055	16.0" x 28.8"	20.0/8.0		39	739
SXHT 60	HET 10056	16.0" x 42.8"	33.0/13.3		57	689
SXHT 90	HET 10057	21.0" x 36.2"	44.0/17.7		72	1,859
SXHT 110	HET 10058	21.0" x 47.9"	62.0/24.9		112	2,187
SXHT 160	HET 10059	21.0" x 62.0"	81.0/32.6		123	2,324

Note: Maximum Working Pressure 100psi

Note: Pre-Charge 12psi

Note: Maximum working Temperature 220°F

Hydronic Water Expansion Tanks - ASME

Model	Hamilton No.	Dimensions	Gallon Capacity		Wt. (lbs.)	List (\$)
			Total/Accept			
NTA 15	HET 62000	12.0" X 19.0"	7.8/4.8		44	1,288
NTA 20	HET 62001	12.0" X 26.0"	10.9/4.8		47	1,328
NTA 40	HET 62002	16.0" X 33.0"	25.0/10.5		90	2,069
NTA 60	HET 62003	16.0" X 45.0"	35.0/10.5		111	2,323
NTA 80	HET 62004	20.0" X 38.0"	45.0/21.0		147	3,083
NTA 100	HET 62005	20.0" X 49.0"	60.0/21.0		167	3,225
NTA 120	HET 62006	24.0" X 46.0"	70.0/52.5		225	3,923
NTA 144	HET 62007	24.0" X 49.0"	80.0/52.5		245	4,203
NTA 180	HET 62008	24.0" X 52.0"	90.0/52.5		265	4,818
NTA 200	HET 62009	24.0" X 66.0"	115.0/52.5		295	4,950
NTA 240	HET 62010	24.0" X 78.0"	140.0/52.5		425	5,761
NTA 260	HET 62011	30.0" X 61.0"	158.0/56.0		475	6,903
NTA 280	HET 62012	30.0" X 79.0"	211.0/84.0		645	7,957

NOTE:

Larger sizes and capacities are available. Contact Hamilton Engineering for details.

Maximum pressure 125psig

Maximum Temperature 240°F

EVO Water Heating Packaged Systems—For the most up to date pricing, always use QuoteBuilder for package pricing

Note: Complete package includes Inlet & Outlet Venting for multiple units, Gas Manifold, Electrical, Condensate Piping, Water Piping, Stand, and Cascade Controls.

EVO Water Heater and Pump Packages

Model No.	BTU/Hr Input	Up to GPH @ 100°F Rise	List (\$)	Pump Package Model	Pump Package List (\$)	Total List (\$)	Weight (Pounds)
HW 129	136,300	160	6,045	PMP 90305	1,539	7,585	77
HW 199.1	199,999	233	7,687	PMP 90311	1,634	9,321	95
HW 299	299,999	350	10,676	PMP 90307	1,451	12,127	127
HW 399	399,999	466	13,261	PMP 90309	1,667	14,928	194
HW 599	630,000	734	20,411	PMP 90309	1,667	22,077	234
HW 798 (399-399)	799,998	931	26,523	(2) PMP 90309	3,334	29,857	388
HW 998 (599-399)	1,029,999	1199	33,672	(2) PMP 90309	3,334	37,006	428

EVO Companion Packages

Indirect Companion

Model	Gallon Capacity	BTU/Hr. Input	Up to GPH@ 100°F Rise	Wt. (lbs)	List (\$)
HWDI 129-80 SC	80	136300	151	255	19,264
HWDI 129-80 DC	80	136300	152	270	20,058
HWDI 199-80 SC	80	199999	210	265	21,167
HWDI 199-80 DC	80	199999	221	280	21,700
HWDI 129-119 SC	119	136300	147	321	20,521
HWDI 199-119 SC	119	199999	220	331	22,424
HWDI 199-119 SCDW	119	199999	218	353	24,914
HWDI 299-119 DC	119	299999	326	456	27,671
HWDI 299-119 SCDW	119	299999	317	479	31,361
HWDI 399-119 DC	119	399999	373	539	30,967
HWDI 399-119 SCDW	119	399999	391	562	32,170

Note: Indirect Companion comes with the following: Eliminator Tank, EVO Heater, Pump, Condensate Drain and Expansion Tank (For Indirect Heating Side Only).

EVO Companion Stainless Steel CWIS Packages

Hot Water Supply - CWIS™ Cold Water Injection System

Model	Gallon Capacity	BTU/Hr. Input	Up to GPH@ 100°F Rise	Wt. (lbs.)	List (\$)
HWD 129-80 CWIS	80	136,300	160	255	11,913
HWD 129-119 CWIS	119	136,300	160	268	13,841
HWD 199-80 CWIS	80	199,999	233	259	12,893
HWD 199-119 CWIS	119	199,999	233	272	14,833

EVO Companion Glass Packages

Hot Water Supply - CWIS™ Cold Water Injection System

Model	Gallon Capacity	BTU/Hr. Input	Up to GPH@ 100°F Rise	Wt. (lbs.)	List (\$)
HWDG 129-80 CWIS	80	136,300	160	335	11,994
HWDG 129-119 CWIS	119	136,300	160	460	12,579
HWDG 199-80 CWIS	80	199,999	233	339	13,107
HWDG 199-119 CWIS	119	199,999	233	474	14,601

EVO Companion Glass ASME Packages

Hot Water Supply - CWIS™ Cold Water Injection System

Model	Gallon Capacity	BTU/Hr. Input	Up to GPH@ 100°F Rise	Wt. (lbs.)	List (\$)
HWDG 129-119A CWIS	119	136,300	160		15,091
HWDG 199-119A CWIS	119	199,999	233		17,021
HWDG 199-160A CWIS	160	199,999	233	559	18,454
HWDG 299-119A CWIS	119	300,000	360	556	21,174
HWDG 299-160A CWIS	160	300,000	360	641	22,917
HWDG 399-119A CWIS	119	399,999	466	639	22,767
HWDG 399-160A CWIS	160	399,999	466	724	25,339
HWDG 599-119A CWIS	119	630,000	734	679	30,651
HWDG 599-160A CWIS	160	630,000	734	764	32,520

3VO Water Heater and Pump Packages

Model No.	BTU/Hr Input	Up to GPH @ 100°F Rise	List (\$)	Pump Package	List (\$)	Total List (\$)	Weight (Pounds)
H3D 750	747,684	884	50,702	PMP 90099-230 B	5,311	56,013	1,431
H3D 850	848,561	1,003	53,371	PMP 90099-230 B	5,311	58,682	1,451
H3D 1000	1,000,754	1,183	56,179	PMP 90099-230 B	5,311	61,490	1,463
H3D 1500	1,536,244	1,817	62,835	PMP 90099-230 B	5,311	68,146	1,639
H3D 2000	1,993,316	2,357	71,910	PMP 90100-230 B	7,365	79,275	1,688
H3D 2500	2,554,213	3,020	88,636	PMP 90100-230 B	7,365	96,001	1,731
H3D 3000	3,025,288	3,577	99,160	PMP 90098-230 B	7,431	106,591	1,860
H3D 3500	3,437,291	4,065	115,538	PMP 90098-230 B	7,431	122,969	1,925
H3D 4000	4,000,000	4,643	129,373	PMP 90098-230 B	7,431	136,804	1,960

Steam and Condensate Heated Water Heating Packages

Model	GPH @ 100°F Rise	Boiler HP Required.	GPH @ 120°F Rise	Boiler HP Required.	Total List (\$)	Wt. (lbs.)
HETV 220-450	450	11.2	375	11.2	17,836	573
HETV 257-539*	539	13.41	420	12.54	18,539	661
HETV 275-564	564	14.03	473	14.12	17,939	676
HETV 350-696	696	17.32	546	16.3	18,637	782
HETV 432-856*	856	21.3	718	21.44	22,312	993
HETV 500-1004*	1,004	24.98	842	25.14	22,744	1,112
HETV 650-1556*	1,556	38.72	1,305	38.97	35,282	1,576
HETV 750-1823*	1,823	45.36	1,529	45.66	37,878	1,775
HETV 1000-2264	2,264	56.34	1,764	52.67	40,482	2,090
HETV 1250-2595	2,595	64.57	2,022	60.38	48,583	2,830
HETV 1500-3844	3,844	95.66	3,621	108.13	50,417	3,752
HETV 2000-5253	5,253	130.72	4,947	147.72	79,177	4,348

Above packages are completely assembled and then "knocked down" for shipping. Package includes: Tank, Steam Coil, (2) Wye Strainers, Steam Control and Drip and Process Steam Traps & recirc pump/loop. Capacities shown are based on a minimum incoming steam pressure to controls of 100 PSI. * Sizing based on a 50 PSI operating pressure after steam control. All others based on 75 PSI.

All above package prices are based on vertical tanks.

For mounted secondary condensate return coil add:	\$4,016
For pre-piped condensate bypass valve and tank over temperature control add:	\$2,446 (to 100 BHP)
(three way valve and tankstat with well)	\$3,792 (to 250 BHP)

Eliminator Packages

Eliminator Model Number	Package Description	Package List Price (\$)	Package w/Plumbing (\$)
HET 73080 SC	Single Coil-Condensate	5,864	7,532
HET 73080 SC	Single Coil-Steam	7,128	8,855
HET 73080 DC	Dual Coil-Steam & Condensate*	8,279	11,525
HET 73120 SC	Single Coil-Condensate	7,121	8,789
HET 73120 SC	Single Coil-Steam	8,385	10,111
HET 73120 DC	Dual Coil-Steam & Condensate*	10,041	13,287

Packages include: Tank & Coil(s), Steam &/or Condensate Controls (Solenoid, Traps, Strainers, Bypass Valve, Temp Controls), Relief Valve, Temp Gauge, PH-12 Expansion Tank.

Plumbing Packages include: All of the above & Ball Valves, Drip Trap, and Check Valve piped together into a manifold ready for installation.

* Suggested units for most applications. Steam-only does not utilize condensate. Condensate-only will not produce enough hot water in most applications.

Build Your Own

The Eliminator

Model	••GPH @ 100°F Rise	•Boiler HP Required.	••GPH @ 120°F Rise	•Boiler HP Required.	Total List (\$)	Wt. (lbs.)
HET 73080 SC	216	2.76	180	2.24	4,207	144
HET 73080 DC	256	3.76	213	3.22	4,580	165
HET 73120 SC	320	5.35	267	4.84	5,464	210
HET 73120 DC	405	7.47	338	6.96	6,343	232

Note: This pricing is for the Eliminator Only.

		Single Unit List(\$)	Dual Units List(\$)
Control Packages	Over temperature protection controls * does not include relief valve, expansion tank and thermometer	778	845
	Steam control package	2,042	2,722
Pre-Plumbing	Pre-plumb - Deluxe, steam or condensate only * Plumbing only	1,669	4,589
	Pre-plumb - Deluxe combination package * Plumbing only	3,246	6,168

•• GPH rise is calculated on maximum capacity of coil(s) and may not reflect application conditions.

• Boiler HP required is just for steam consumption and is based on maximum output of steam coil only.

Storage Tanks

Model	Dimensions	Lining	List (\$)	Wt (lbs)	C.W.I.S.	Total List (\$)	Cement Lining Upcharge
HET 76080 *	24" x 66"	Stainless Steel	2,663	156	Included in Tank pricing		N/A
HET 00080 *	24" x 58.75"	Glass lined	2,516	222	HET 72080 - with CWIS	\$3,532	N/A
HET 73120 *	28" x 69.75"	Stainless Steel	4,415	180	CWIS 90101 & CWIS 90201	\$5,474	N/A
HET 00120 *	28" x 62.50"	Glass lined	3,352	345	HET 72120 - with CWIS	\$4,527	N/A
HET 02120 ASME + *	28" x 62.50"	Glass lined	4,377	360	HET 72120 A - with CWIS	\$6,739	N/A
HET 72160 ASME *	28" x 66.50"	Glass lined	7936	675	CWIS 90102 & CWIS 90202	\$9,006	N/A
HET 175 ASME + *	32" X 67.25"	Glass lined	7,031	525	CWIS 90302 & CWIS 90402	\$7,578	N/A
HET 200 ASME *	32" x 77.25"	Glass lined	7,343	600	CWIS 90302 & CWIS 90402	\$7,890	N/A
HET 220 ASME	30" x 76"	Glass lined	6,307	548	CWIS 90103 & CWIS 90203	\$7,371	\$2,390
HET 257 ASME	30" x 87"	Glass lined	6,696	628	CWIS 90103 & CWIS 90203	\$7,760	\$2,232
HET 275 ASME	36" x 76"	Glass lined	6,985	617	CWIS 90104 & CWIS 90204	\$8,067	\$2,805
HET 350 ASME	36" x 87"	Glass lined	7,557	653	CWIS 90104 & CWIS 90204	\$8,638	\$3,810
HET 432 ASME	42" x 76"	Glass lined	10,072	816	CWIS 90105 & CWIS 90205	\$11,189	\$3,872
HET 500 ASME	42" x 88"	Glass lined	10,133	902	CWIS 90105 & CWIS 90205	\$11,251	\$6,898
HET 650 ASME	48" x 88"	Glass lined	15,698	1,254	CWIS 90106 & CWIS 90206	\$17,031	\$5,900
HET 750 ASME	48" x 100"	Glass lined	17,914	1,440	CWIS 90106 & CWIS 90206	\$19,248	\$4,055
HET 1000 ASME +	48" x 124"	Glass lined	19,617	1,760	CWIS 90106 & CWIS 90206	\$20,951	\$6,503
HET 1250 ASME +	54" x 124"	Glass lined	27,190	2,508	CWIS 90107 & CWIS 90207	\$28,979	CF
HET 1500 ASME +	60" x 124"	Glass lined	36,523	3,290	C/F		CF
HET 1750 ASME +	60" x 148"	Glass lined	41,197	3,693	C/F		CF
HET 2000 ASME +	60" x 172"	Glass lined	45,777	4,012	C/F		CF

+ 6-8 week lead time for models indicated and all cement lined models.

Note: Tanks 432 gallon and above built after 1/1/14 come standard with manway.

* Pre-insulated tanks, all others should add insulation option below.

Note: Cement Lined tanks available on request.

Indirect Tanks

Model	Gallon Capacity	BTU/Hr. req. for full output	Up to 1st Hour @ 90°F Rise	Wt. (lbs)	List (\$)
HET 73053 SC	53	138,300	212	155	3,456
HET 73080 SC	79	185,176	317	179	4,207
HET 73080 DC	79	219,896	363	200	4,580
HET 73120 SC	119	231,470	415	245	5,464
HET 73120 DC	119	370,352	600	267	6,343
HET 73120 SCDW	119	251,608	441	297	7,954

Note: Indirect tanks and coils are constructed of 316L stainless steel.

Storage Tank Options

Options & Accessories

Tank Saddles - Horizontal applications - Per pair

Diameter	List (\$)	Wt (lbs)	Diameter	List (\$)	Wt (lbs)
30"	871	49	48"	1,600	115
36"	980	57	54"	1,799	148
42"	1,456	88	60"	2,493	171

Non-Standard Tank Opening Options - 150# Steel Flanged (per opening)

Size	List (\$)	Size	List (\$)
4"	432	8"	923
6"	708	10"	1,221

Manways

Size	List (\$)
12" x 16"	939

Tank Insulation Options Models HET 80 - HET 200 are factory insulated and jacketed

Tank Model	Kit - Foil Faced*	2" Sprayed on** Outdoor Rated	Steel Jacket***
	R-4 MicroFoam List (\$)	Polyurethane Foam/Acrylic List (\$)	Over 2" Foam List (\$)
HET 220 ASME	640	3,259	1,759
HET 257 ASME	640	3,259	3,151
HET 275 ASME	708	3,667	6,207
HET 350 ASME	708	3,667	6,207
HET 432 ASME	771	4,889	5,254
HET 500 ASME	771	5,704	6,747
HET 650 ASME	895	7,333	5,054
HET 750 ASME	895	7,333	4,638
HET 1000 ASME	895	9,778	5,555
HET 1250 ASME	965	11,815	N/A
HET 1500 ASME	1,093	14,259	N/A
HET 1750 ASME	1,166	15,481	N/A
HET 2000 ASME	1,289	17,111	N/A

*Can ship immediately with stock tanks. **Two week lead time using stock tanks. R-value 6.9 per inch ***8-10 week delivery.

Expansion Tanks

Sizing Chart

Required tank capacity in gallons

Storage Tank Size	Water Temperature Rise				
	60°ΔT	80°ΔT	100°ΔT	120°ΔT	140°ΔT
80	1.38/.64	2.42/1.12	3.62/1.68	5.04/2.34	6.65/3.09
120	2.08/.97	3.63/1.69	5.42/2.52	7.56/3.51	9.98/4.64
200	3.46/1.61	6.05/2.81	9.04/4.20	12.6/5.86	16.64/7.74
220	3.81/1.77	6.65/3.09	9.94/4.62	13.86/6.44	18.3/8.51
240	4.15/1.93	7.25/3.37	10.85/5.04	15.12/7.03	19.96/9.28
275	4.76/2.21	8.31/3.87	12.43/5.78	17.32/8.05	22.88/10.64
350	6.06/2.82	10.58/4.92	15.82/7.35	22.04/10.25	29.12/13.54
500	8.66/4.03	15.11/7.03	22.6/10.51	31.49/14.64	41.59/19.34
750	12.98/6.04	22.67/10.54	33.89/15.76	47.24/21.97	62.39/29.01
1000	17.31/8.05	30.23/14.06	45.19/21.01	62.98/29.29	83.19/38.68

Note:

1. This sizing is based on maximum working pressure of Hamilton Storage Tanks.
2. Maximum city water pressure designed for is 60 PSI. For higher pressures, contact Hamilton Engineering.

Potable Water Expansion Tanks - NON ASME

Model	Hamilton No.	Dimensions	Gallon Capacity Total/Accept	Wt. (lbs.)	List (\$)
PH 5	HET 11011	8" x 11.6"	2.1/1.0	5	128
PH 12	HET 11012	11.0" x 14.5"	4.5/2.5	10	151
PH 25	HET 11013	12.5" x 18.9"	9.0/4.5	15.4	629
WHV 50	HET 11014	16.0" x 21.7"	15.0/6.0	32	1,019
WHV 75	HET 11015	16.0" x 28.8"	20.0/8.0	39	1,182
WHV 120	HET 11016	21.0" x 27.8"	32.0/14.4	60	1,527
WHV 165	HET 11017	21.0" x 36.2"	44.0/17.7	72	2,057
WHV 320	HET 11018	26.0" x 44.4"	81.0/32.6	140	2,818
FX 500	HET 61012	31.0" x 61.0"	158/103	626	5,626
FX 750	HET 61013	31.0" x 75.0"	211/107	760	6,591

Potable Water Expansion Tanks - ASME

Model	Hamilton No.	Dimensions	Gallon Capacity Total/Accept	Wt. (lbs.)	List (\$)
TTA 5	HET 61020	10" X 11"	3.5/1.3	21	2,347
TTA 12	HET 61021	12" X 13"	5.0/3.1	34	2,625
TTA 20	HET 61022	12" X 21"	8.0/3.1	49	2,860
TTA 30	HET 61023	16" X 17"	15.0/10.5	84	3,373
TTA 42	HET 61024	16" X 24"	22.0/15.5	98	3,582
TTA 60	HET 61025	16" X 34"	26.0/15.5	125	4,178
TTA 80	HET 61026	16" X 45"	35.0/15.5	190	4,398
TTA 100	HET 61027	24" X 40"	45.0/21.0	230	4,919
TTA 160	HET 61029	24" X 53"	70.0/52.5	255	6,173
TTA 210	HET 61031	24" X 60"	90.0/52.5	295	6,932

Note: Larger sizes and capacities are available. Contact Hamilton Engineering for details.

Miscellaneous Accessories

Temperature and Pressure Relief Valves				MBTU rating		
Part No.	Mfr. No.	Pressure	Size	AGA/ASME	Wt. (lbs.)	List(\$)
RLV 02006	NCLX-1	150	.75"M	95/500	0.50	63
RLV 02008	18C511	125	.75"M	205/1619	1.40	762
RLV 02007	FVX3-C	150	.75"F	185/1912	1.25	323
RLV 01014	18C512	150	.75"F	205/1912	1.50	295
RLV 01017	FVX5-C	125	1"F	500/1825	3.60	363
RLV 01015	FVX3-C	150	1"F	500/2155	3.75	423
RLV 01019	FVX5-L	125	1"F	750/3070	2.50	727
RLV 01016	FVX5-L	150	1"F	750/3625	2.50	674
RLV 01020	FVX4	125	1.5"	1200/5125	4.25	2,262
Pressure Only Relief Valves						
RLV 02005	F 30	30	.75"M	510	1.00	128
RLV 02001	F 95	50	.75" x 1"	1391	1.40	307
RLV 02009	F 95	75	.75" x 1"	1940	4.00	332
RLV 10417-75	10-417	75	.75" x .75"	972		113
RLV 10605-75	10-605	75	1" x 1"	2728		747
RLV 02013	F 82	150	.75"	3116	1.25	313
RLV 03006	17-402	125	.75"	791	0.50	151
RLV 03011	10-407	30	.75"	535	0.60	113
RLV 03015	10-104	30	.75" x 1"	710	1.10	250
Gauges						
Part No.	Description	Range				List (\$)
GTP 02900	T&P - 2.5" dial - 1/4" back connect	0-60 PSI - 60°-250°F				189
GTP 03000	Thermometer - 2" dial - 3/8" back connect	0° - 260°F				88
GTP 10060	Thermometer - 3" dial - 1/2" back connect	0° - 250°F				132
For HET 85,100 Insulated & Jacketed and HET 220 - HET 2000 uninsulated.						
GTP 90061	Thermometer - 3" dial - 1/2" back connect	0° - 250°F				396
For HET 200 Insulated, includes brass well (GTP 01001).						
Replacement Parts						
Part No.	Description					List (\$)
WTR 92043	Flow Switch FS4-3/ V6					771
WTR 52043	Flow Switch / IFS-1					350
WTR 62056	Flow Switch / V10, Micros					162
WTR 62058	Flow Switch / V10 399-599					162
PLT 03400	Hot Surface Ignitor - All V-Tube and Multi-Tube II					186
RLY 02023	S-86 H Electronic Ignition Control for Mini - 45 - 499					392
RLY 02400	Ignition module for HV 150 - 299					1,485
RLY 02402	Ignition module for HV 401 - 751					1,583
RLY 03428	Ignition module for HE 495 - 2066					1,429
RLY 03002	Ignition module for HV 991 - 2071					1,575
TRF 02004	Transformer - 50VA 120 volt x 24 volt					197
TRF 02005	Transformer - 75VA 120 volt x 24 volt					395
TRF 02701	Transformer - 150VA 120 volt x 24 volt					752
TST 63000	Tankstat with well					545
TST 02014	High Limit					965
TST 02015	Manual Reset High Limit					822
TST 02005	Low Range Pool Control					1,090
TST 02900	Mini Limit/Hi-Limit					436
TST 30010	Mini Operating Control					426
TST 02701	Operator - Multi-Tube II/88, HLC 02701 - High Limit V-Tube/88'					899

Pumps (Price does not include flanges)

Part #	Description	Horsepower	Shipping Weight	120 V	208/240 V
PMP 20300*	UP15-10 - 3/4" sweat	1/25	6	\$602	\$602
PMP 20301	UP15-35 S - 2 bolt flg	1/15	8	\$907	\$907
PMP 20302	UP15-42 C - 2-Bolt flg	1/25	8	\$267	\$267
PMP 20303	UPS15-55 S - 2-Bolt flg	1/12	6	\$952	n/a
PMP 20012	UPS15-58 F	1/25	15	\$272	\$272
PMP 20304	UP26-64 C - 2-Bolt flg	1/12	12	\$805	\$805
PMP 20305	UP26-96 B - 2-Bolt flg	1/12	12	\$1,316	\$1,316
PMP 20306	UP26-96 C - 2-Bolt flg	1/6	12	\$826	\$826
PMP 20311	UPS26-99 B	1/6	10	\$1,411	\$1,411
PMP 20312	UPS26-99 C	1/6	11	\$882	\$882
PMP 20307	UP26-116 B - 2-Bolt flg	1/6	12	\$1,222	\$1,222
PMP 20308	UP26-116 C - 2-Bolt flg	1/6	12	\$853	\$853
PMP 20313	UPS43-44 B	1/6	14	\$1,503	\$1,503
PMP 20314	UPS43-44 C	1/6	14	\$1,015	\$1,015
PMP 20309	UPS43-100 S - 2-Bolt flg	1/2	18	\$1,279	\$1,279
PMP 20310	UPS43-100 C - 2-Bolt flg	1/2	19	\$842	\$842
PMP 71027 S	2.5" x 2" SS 1hp, 5 1/8" imp	1	86	\$4,508	\$4,508
PMP 71028 S	2.5" x 2" SS 1.5hp, 5 1/2" imp	1.5	86	\$4,805	\$4,805

*This is our recommended and stocked "Return Line Pump" - 6 gpm @ 1.8 feet of head

Above part numbers are for the pump only (box includes flange gaskets and bolts)

All part numbers are 240V version, for the 120V version just add the suffix "120"

Pump Packages (Includes flanges and ball valves where applicable)

Part #	Description	Horsepower	Shipping Weight (lbs)	120 V	208/240 V
PMP 90346	UPS15-42 C Package w/1" flanges	1/25		\$492	\$492
PMP 90346 MM	UPS15-42 C Package w/1" flanges	1/25		\$461	\$461
PMP 90304	UP26-64 C Package w/1.5" flanges	1/12		\$1,084	\$1,084
PMP 90304 MM	UP26-64 C Package w/1.5" flanges	1/12		\$1,005	\$1,005
PMP 90305	UP26-96 B Package w/1" flanges	1/12		\$1,539	\$1,539
PMP 90307	UP26-116 B Package w/1.5" flanges	1/6		\$1,451	\$1,451
PMP 90309	UPS43-100 SF Package w/1.5" flanges	1/2		\$1,667	\$1,667
PMP 90310	UPS43-100 C Package w/1.5" flanges	1/2		\$1,136	\$1,136
PMP 90310 MM	UPS43-100 C Package w/1.5" flanges	1/2		\$1,048	\$1,048
PMP 90311	UPS26-99 B Package w/1" flanges	1/6		\$1,634	\$1,634
PMP 90312 MM	UPS26-99 C Package w/1.5" flanges	1/6		\$1,083	\$1,083
PMP 91027 SD	2.5" x 2" SS 1hp, 5 1/8" imp	1		\$4,744	\$4,744
PMP 91028 SD	2.5" x 2" SS 1.5hp, 5 1/2" imp	1.5		\$4,979	\$4,979
PMP 91027 SH	2.5" x 2" SS 1hp, 5 1/8" imp	1		\$4,703	\$4,703
PMP 91028 SH	2.5" x 2" SS 1.5hp, 5 1/2" imp	1.5		\$4,938	\$4,938

Grundfo's Pump Package Breakdown

EVO Water Heaters

EVO Boilers/Copper

Model No.	Pump Package	List (\$)	Model No.	Pump Package	List (\$)
HWD 79	PMP 90305	\$1,539	HWH 79	PMP 90346	\$492
HWD 129	PMP 90305	\$1,539	HWH 129	PMP 90346	\$492
HWD 179	PMP 90311	\$1,634	HWH 179	PMP 90346	\$492
HWD 199.1	PMP 90311	\$1,634	HWH 199.1	PMP 90304-199.1	\$1,023
HWD 299	PMP 90307	\$1,451	HWH 299	PMP 90304	\$1,084
HWD 328	PMP 90305 & PMP 90311	\$3,174	HWH 328	(2)PMP 90346	\$984
HWD 399	PMP 90309	\$1,667	HWH 399	PMP 90312	\$1,159
HWD 498	PMP 90311 & PMP 90307	\$3,085	HWH 498	PMP 90304 & PMP 90304-199.1	\$2,107
HWD 599	PMP 90309	\$1,667	HWH 599	PMP 90310	\$1,136
HWD 698	PMP 90307 & PMP 90309	\$3,118	HWH 698	PMP 90304 & PMP 90312	\$2,243
HWD 798	(2)PMP 90309	\$3,334	HWH 798	(2)PMP 90312	\$2,318
HWD 998	(2)PMP 90309	\$3,334	HWH 998	PMP 90312 & PMP 90310	\$2,296
HWD 1397	(3)PMP 90309	\$5,001	HWH 1397	(2)PMP 90312 & PMP 90310	\$3,455
HWD 1597	(3)PMP 90309	\$5,001	HWH 1597	PMP 90312 & (2)PMP 90310	\$3,432

EVO Parts

Part #	Description	List (\$)
BNR 74025 B	Burner HW299 - 80mm x 210 mm	187
BNR 74027	Burner HW399	171
BNR 74029	Burner HW599	289
BNR 74030	Burner HW199/179/129	102
BNR 74702	Burner Door Assembly for EVO duo/micro	130
BNR 74056A	Burnerdoor High Altitude	136
CDK 74038 B	Drain Hose Condensate	9
CDK 74063	Drain Condensate Clean Out EVO duo	33
CDK 74084	Drain Housing Condensate	118
CDK 94114	Condensate Drain Assembly HW 79-199.1	62
CDK 94101	Drain Assembly Lower HW 199-399	74
CDK 94102	Drain Assembly Lower HW 599	52
FAN 74059	Venturi HW129/179	41
FAN 74056	Venturi HW199	124
FAN 74058	Venturi HW399/299	100
FAN 74059	Venturi HW79-199.1	41
FAN 74061 A	Venturi HW599	180
FAN 74069	Fan RG 148 w/O-Ring HW199-HW399	1,015
FAN 74070	Fan RG 175 w/O-Ring HW 599	1,938
FAN 74313	Fan RG 128e EVO micro HW179-199.1, Enhanced	780
FAN 74418	Fan G1G170 EVO trio	2,430
FAN 30203B-240	Fan Nautilair 7.6 Std Output 299/399	1,025
FAN 90399-240 CE	HW399 Fan Core Exchange Package	1,515
FAN 90599-240	Fan Package HW599	1,860
FAN 90599-240 CE	HW599 Fan Core Exchange Package	2,512
FAN 60101-230	Fan HW129 to HW199.1	863
GKT 30215	1" Gasket for Grundfos pumps	7
GKT 30216	Gasket Uni-Flange Ball Valve 1 5/8	8
PRP 20024	Pump Gaskets for 43-75	45
GKT 74018	Gasket for electrode HW79-1999 - new electrodes do not need this gasket	6
GKT 74004	Gasket Flue Bushing HW79-199.1	4
GKT 74029	Gasket Down Tube	13
GKT 74031	Gasket Seal Ring 4	20
GKT 74032	O-ring SS HW299 Arms	6
GKT 74033	O-ring SS HW399 Arms	6
GKT 74034	O-ring SS HW599 Arms	6
GKT 74037	Sealing Gasket HW79-HW199.1 Condensate	10
GKT 74039	Gasket Fan HW599	12
GKT 74040 B	Gasket Gas Inlet Manifold mount plate to cabinet	11
GKT 74041	Gasket HW299-599 Air Inlet connection	5
GKT 74042	Gasket Air Inlet connection HW79-199.1	6
GKT 74049	Gasket Fan HW199-399	8
GKT 74053	Gasket Gas/Air Inlet Pipe & Fan-38mm, HW129	14
GKT 74055	Gasket nylon for HW129 gas valve	3
GKT 74056	Gasket Silicon Flue gas outlet HW599	31
GKT 74058	Gasket Gas/Air Inlet pipe & fan-38, HW179	10
GKT 74064	Gasket Outer for Fast connect arms HW79-199.1	6
GKT 74065	Gasket Outer for Fast connect arms HW299-599	7
GKT 74081	Gasket Silicon Flue gas outlet HW299-399	37
GKT 74093	Flue Gas Analyzer Port Plug EPDM HW79/599	2
GKT 74129 C	EPDM Gasket for arm HW79-199.1	9
GKT 74131	O-ring SS HW79/199.1 Arms	6
GKT 74132	Gasket Siphon HW199/399 5/8ID Hose	4

EVO Parts (Cont.)

Part #	Description	List (\$)
GKT 74139	Gasket Siphon HW599	8
GKT 74299 B	EPDM Gasket for arm connection HW299	10
GKT 74300	Gasket for flue outlet pipe HW79-199.1	20
GKT 74399 B	EPDM Gasket for arm HW399/599	4
GTP 60060	Gauge T & P Tridicator, 1/2" back mount 0-60psi, 80-290°F	112
GTP 60100	Gauge T & P Tridicator, 1/2" back mount 0-100psi,80-290°F	134
GTP 60200	Gauge T & P Tridicator, 1/2" Back mount 0-200psi, 80-290°F	140
HLC 74066	Hi Limit EVO Family 195°F	34
HLC 74274	Hi Limit EVO Family 225°F	30
HLC 74600	Limit Temperature Switch Burner Door HW79-599	13
HLC 74700	Limit Temperature Switch Trio Burner Door	13
JKR 74042	Bracket Wall Mount EVO micro	73
JKR 74075	Plate Protection Boiler Control	75
JKR 74127	Mounting plate for micro	228
MSC 74008 A	Tube Air Vent EVO duo	112
MSC 74024	Elbow 1/8" in x1/8" out HW79-199.1 High Limit	21
MSC 74047	Air Intake Assembly, HW399	342
MSC 74133	Bushing SS Hi Limit HW79-199.1 G1/8"	48
MSC 74134	Bushing SS Hi Limit G1/4"-M5	104
MSC 74063	Nut Spread	12
MSC 74065	Plastic retaining clip for EVO Pres. Switch	7
MSC 74072	Plastic screw for Gas mixing box (129-399)	2
MSC 74073	Plastic screw for Gas mixing box (599)	4
MSC 74081	Flue gas collector for HW129/179	124
MSC 74083	Plastic feet for EVO duo/micro	10
MSC 74085	Plastic bushing for HW199-599 Cabinet	7
MSC 74101	Flue Gas Outlet Connection HW129/179	85
MSC 74291	Top of plug for VST-1 connection	10
MSC 74292	Top of plug for VST-6 connection	15
MSC 74293	Top of plug for VST-5 connection	19
MSC 74294	Top of plug for VST-5 connection	16
MSC 74295	Top of plug for VST-6 connection	18
MSC 74328	Red Button for Display panel	5
PLT 94318 A	Pilot Spark Electrode Assembly for EVO Family	90
PLT 94319	Pilot Spark Electrode Assembly Trio Knurled	111
PLT 03400	Pilot H.S.I.	186
PRS 74084	Switch P Condensate HW1499-1999	343
PRS 74326 A	Switch P Condensate HW79-599	136
PRS 74443	Switch P Low Gas EVO trio	1,086
PRS 74444	Switch P High Gas EVO trio	1,127
PRS 90001	Pressure Switch Retrofit Kit EVO 79-199.1	176
PRS 90002	Pressure Switch Retrofit Kit EVO 299-599	179
RLV 03006	Valve Relief P 125# .75 (EVO duo/micro)	151
RLV 03011	Valve Relief P 30# .75 (HW79-399)	113
RLV 03015	Valve Relief P 30# .75 (HW599)	250
RLV 10417-50	Valve Relief P 30# .75 (HW599)	138
RLV 10605-125	Valve Relief P 125# 1x1 (EVO trio)	450
RLV 10615-50	Valve Relief P 50# 1x1 (EVO trio)	580

EVO Parts (Cont.)

Part #	Description	List (\$)
RLY 74061	Display Assembly HW79-599	202
RLY 74062	Control Board EVO Family	826
RLY 74300	Circuit Board Cascade	163
RLY 74356	Circuit Board Open Term	52
RLY 74360	Gateway for BMS LON	3,732
RLY 74361	Gateway for BMS BACnet	3,732
RLY 74362	Gateway for BMS MODBUS	3,732
STD 95150	Rack (1) HW79-199.1	270
STD 95151	Rack (2) HW79-199.1	380
STD 95154	Rack (1) HW299-599	270
STD 95155	Rack (2) HW299-599	380
STD 95170	Leg Wall Rack HW299-599	327
STD 95171	Leg Free Standing HW299-599	327
STD 95172	Leg Wall Rack HW79-199.1	327
STD 95173	Leg Free Standing HW79-199.1	327
TST 71010	Immersion Style 1/2"NPT w/4" Stem with well Sensor for HSS/Tank/Piping	79
TST 71020	Strap-on Sensor 2" - 5" pipe	58
TST 71030	Outdoor Air Sensor - weatherproof encl.	49
TST 74287 S	Sensor Inlet/Outlet for HW Series	53
TST 74395	Sensor Inlet/Outlet NTC for HW129/179	38
TST 74400	Remote Boiler Control	792
TST 74401	Remote DHW Control	1,054
TST 76011	Sensor Tank 1/8" NPT w/5' lead and 2" probe	220
TST 76110	Sensor Tank -7' lead & 2"x3/16 probe for well	91
TST 76071	Sensor Tank 1/8"NPT with 5' lead and 1" probe	220
VAL 74050	Valve Gas HW79/599	301
VAL 74041	Valve Gas Assembly HW1499-1999	2,885
VAL 74096	Valve Non-Return EVO micro	86
VAL 74097	Valve Non-Return EVO Duo 399	86
VAL 74098	Valve Non-Return EVO Duo 599	131
VAL 74347	Coil Gas Valve EV1	122
VAL 74348	Coil Gas Valve EV2	150
WRE 74064	Cable Spark Ignition HW79-599	38
WRE 74090	Wire Harness Heating	241
WRE 74338	Cable Cascade control	61
WRE 74339	Cable Alarm contact	71
WRE 74447	Cable Spark Ignition HW1499-1999 Lower	182
WRE 74448	Cable Spark Ignition HW1499-1999 Upper	121
WTR 52044	Switch Flow HW1499-1999	413
WTR 62056	Switch Flow V-10 Micro	162
WTR 62057	Switch Flow V-10 HW299	162
WTR 62058	Switch Flow V-10 HW399-599	162

EVO Maintenance Parts List for Service Vehicles

Part Number	Description	List Price
ACK 90003	Acid Cleaning Kit EVO Micro SS Arms	\$776
ACK 90004	Acid Cleaning Kit EVO Micro Copper Arms	\$837
ACK 90005	Acid Cleaning Kit EVO DUO SS Arms	\$895
ACK 90006	Acid Cleaning Kit EVO DUO Copper Arms	\$865
ACK 90007	Complete Acid Cleaning kit, all models	\$1,068
ACK 90008	Acid cleaning fittings only, all models	\$338
BNR 74702	Burner Door Assembly EVO79-599	\$130
FIB 74007	Fiberboard Burner Door EVO 79-599	\$92
FIB 74098	Fiberboard Back Wall, 10mm	\$43
FIB 74114	Fiberboard Burner Door EVO Trio	\$50
FIB 74117	Fiberboard Back Wall, 16mm New Version	\$56
FIB 74600	Fiberboard Back Wall 16mm "Special Field Service"	\$73
HEX 61102	Fernox DS40 System Cleaner	\$75
HEX 57882	Fernox F3 Cleaner Restorer	\$50
HEX 57880	Fernox F1 Inhibitor	\$47
HLC 74066	Hi Limit EVO 79-1999 195°F	\$34
HLC 74274	Hi Limit EVO 79-1999 225°F	\$30
HLC 74376	Hi Limit EVO 79-1999 155°F	\$75
HWT 00101	Limestone 3/4 Clean	\$6/lb
MSC 33811	Test Kit PH	\$80
MSC 74027	Screw Combustion Chamber 10mm Insulation	\$1
MSC 74028	Screw Combustion Chamber 16mm Insulation	\$7
MSC 74029	Washer for Combustion Chamber Insulation	\$12
PLT 94318 A	Pilot Spark Electrode Assembly EVO 79-599	\$90
TST 74287 S	Stainless Inlet/Outlet Sensor EVO 79-1999	\$53
WTR 62052 S	Flow Switch V-10 - Uncut for use on all models	\$154

Per appliance consumables all ASME models See LIT 91189 for details

Part Number	Description	List Price
MNT 94308B	Kit Maintenance Heat Exchanger 10mm HW79-599	\$206
MNT 94309B	Kit Maintenance Heat Exchanger 16mm HW79-599	\$206
MNT 94310B	Kit Maintenance Heat Exchanger 10mm HW1499-1999	\$241
MNT 94311B	Kit Maintenance Heat Exchanger 16mm HW1499-1999	\$241

Above kit includes:

Fiberboard Burner Door
Fiberboard Back Wall, 10mm/16mm
Screw Combustion Chamber Insulation
Washer for Combustion Chamber Insulation
Pilot Spark Electrode Assembly EVO 79-1999
Gasket Burner Door

Note: Insulation wall thicknesses are not interchangeable, C/F for serial number applicability.

Note: Maintenance Kits for HW1499-1999 are priced for one burner chamber only. Two kits are needed for each heat exchanger.

Bulk Pricing for Maintenance Kits:

20 or more per order	MNT 94308B or 309B	\$186 list
40 or more per order	MNT 94308B or 309B	\$171 list
20 or more per order	MNT 94310B or 311B	\$221 list
40 or more per order	MNT 94310B or 311B	\$206 list

Service Tools

Description	Part Number	Wt. (lbs.)	List (\$)
Draft Gauge	GTP 49003	1.00	120
Minihelic gauge 0" - 2" w.c. with connection kit/mount bracket	GTP 49002	1.00	331
Minihelic gauge 0" - 20" w.c. with connection kit/mount bracket	GTP 49006	1.00	331
Electronic Manometer/Differential Air Meter (-15" - +48")	GTP 40620	2.00	731
Combustion Analyzer with Manometer	GTP 40709	6.00	1,256
Combustion Analyzer with NOX	GTP 40714	6.00	4,099
Thermal paper IR Printer for both line items above	GTP 40740	2.00	487
PH Test Strips, 1 - 14 range w/color guide pk/50	MSC 33811	1.00	80

Gas Pressure regulators are available both loose and mounted as part of a complete factory assembled system. They are available for incoming pressures from 10"–50 PSI, in both vented and ventless design.

Use QuoteBuilder for most up to date models and pricing.

FasNSeal AL29-4C Venting

Part Number	Product Name	List (\$)
VNT 50100	Vent Adapter for EVO Trio	96
3"		
VNT 50301	Vent Pipe 3x6 FasNSeal	30
VNT 50302	Vent Pipe 3x12 FasNSeal	40
VNT 50303	Vent Pipe 3x18 FasNSeal	59
VNT 50304	Vent Pipe 3x24 FasNSeal	75
VNT 50305	Vent Pipe 3x36 FasNSeal	93
VNT 50306	Vent 45° Elbow 3 FasNSeal	90
VNT 50307	Vent 90° Elbow 3 FasNSeal	106
VNT 50309	Vent Tee Cap 3 FasNSeal	41
VNT 50311	Vent Pipe Adjustable 3 FasNSeal	76
VNT 50335	Vent 2.5° Elbow 3.5x1 FasNSeal	93
VNT 50336	Vent 2.5° Elbow 3.5x2 FasNSeal	98
VNT 50337	Vent 2.5° Elbow 3.5x3 FasNSeal	98
VNT 50338	Vent 2.5° Elbow 3.5x4 FasNSeal	92
VNT 50343	Vent Birdscreen 3 FasNSeal	39
4"		
VNT 50401	Vent Pipe 4x6 FasNSeal	39
VNT 50402	Vent Pipe 4x12 FasNSeal	47
VNT 50403	Vent Pipe 4x18 FasNSeal	66
VNT 50404	Vent Pipe 4x24 FasNSeal	81
VNT 50405	Vent Pipe 4x36 FasNSeal	105
VNT 50406	Vent 45° Elbow 4 FasNSeal	95
VNT 50407	Vent 90° Elbow 4 FasNSeal	111
VNT 50408	Vent Tee 4 FasNSeal	84
VNT 50409	Vent Tee Cap 4 FasNSeal	44
VNT 50410	Vent Drain Fitting 4 FasNSeal	64
VNT 50411	Vent Pipe Adjustable 4 FasNSeal	84
VNT 50435	Vent 2.5° Elbow 4.5x1 FasNSeal	96
VNT 50436	Vent 2.5° Elbow 4.5x2 FasNSeal	101
VNT 50437	Vent 2.5° Elbow 4.5x3 FasNSeal	102
VNT 50438	Vent 2.5° Elbow 4.5x4 FasNSeal	107
VNT 50439	Vent Horizontal Drain Cap 4 FasNSeal	78
VNT 50443	Vent Birdscreen 4 FasNSeal	43
VNT 54308	Vent Tee 4x4x3 FasNSeal	119
VNT 54329	Vent Increaser 4x3 FasNSeal	143
VNT 54430	Vent Adapter 4 FasNSeal x PVC	96
5"		
VNT 50501	Vent Pipe 5x6 FasNSeal	51
VNT 50502	Vent Pipe 5x12 FasNSeal	54
VNT 50503	Vent Pipe 5x18 FasNSeal	81
VNT 50504	Vent Pipe 5x24 FasNSeal	95
VNT 50505	Vent Pipe 5x36 FasNSeal	124
VNT 50506	Vent 45° elbow 5 FasNSeal	109
VNT 50507	Vent 90° Elbow 5 FasNSeal	131
VNT 50508	Vent Tee 5 FasNSeal	94
VNT 50509	Vent Tee Cap 5 FasNSeal	45
VNT 50510	Vent Drain Fitting 5 FasNSeal	76

FasNSeal AL29-4C Venting

Part Number	Product Name	List (\$)
VNT 50511	Vent Pipe Adjustable 5 FasNSeal	85
VNT 50535	Vent 2.5° Elbow 5x1 FasNSeal	105
VNT 50536	Vent 2.5° Elbow 5x2 FasNSeal	115
VNT 50537	Vent 2.5° Elbow 5x3 FasNSeal	120
VNT 50538	Vent 2.5° Elbow 5x4 FasNSeal	125
VNT 50539	Vent Horizontal Drain Cap 5 FasNSeal	92
VNT 50543	Vent Birdscreen 5 FasNSeal	76
VNT 55329	Vent Increaser 5x3 FasNSeal	98
VNT 55332	Vent Cascade Tee 5x5x3 FasNSeal	225
VNT 55408	Vent Tee 5x5x4 FasNSeal	135
VNT 55429	Vent Increaser 5x4 FasNSeal	160
6"		
VNT 50601	Vent Pipe 6x6 FasNSeal	59
VNT 50602	Vent Pipe 6x12 FasNSeal	65
VNT 50603	Vent Pipe 6x18 FasNSeal	97
VNT 50604	Vent Pipe 6x24 FasNSeal	112
VNT 50605	Vent Pipe 6x36 FasNSeal	150
VNT 50606	Vent 45° Elbow 6 FasNSeal	138
VNT 50607	Vent 90° Elbow 6 FasNSeal	175
VNT 50608	Vent Tee 6 FasNSeal	129
VNT 50609	Vent Tee Cap 6 FasNSeal	55
VNT 50654	Vent ISP Drain Fitting 6 FasNSeal	138
VNT 50611	Vent Pipe Adjustable 6 FasNSeal	101
VNT 50639	Vent Horizontal Drain Cap 6 FasNSeal	113
VNT 50643	Vent Birdscreen 6 FasNSeal	52
VNT 56408	Vent Tee 6x6x4 FasNSeal	175
VNT 56429	Vent Increaser 6x4 FasNSeal	131
VNT 56432	Vent Cascade Tee 6x6x4 FasNSeal	289
VNT 56508	Vent Tee 6x6x5 FasNSeal	215
VNT 56529	Vent Increaser 6x5 FasNSeal	183
VNT 56530	Vent Increaser 5x6 FasNSeal x PVC	126
VNT 56532	Vent Cascade Tee 6x6x5 FasNSeal	333
VNT 56630	Vent Adaptor 6 FasNSeal x PVC	104
VNT 56645	Vent Eccentric Increaser 6x6 FasNSeal x PVC	267
7"		
VNT 50701	Vent Pipe 7x6 FasNSeal	72
VNT 50702	Vent Pipe 7x12 FasNSeal	79
VNT 50703	Vent Pipe 7x18 FasNSeal	120
VNT 50704	Vent Pipe 7x24 FasNSeal	137
VNT 50705	Vent Pipe 7x36 FasNSeal	188
VNT 50706	Vent 45° Elbow 7 FasNSeal	165
VNT 50707	Vent 90° Elbow 7 FasNSeal	217
VNT 50708	Vent Tee 7 FasNSeal	158
VNT 50709	Vent Tee Cap 7 FasNSeal	61
VNT 50754	Vent ISP Drain Fitting 7 FasNSeal	155
VNT 50711	Vent Pipe Adjustable 7 FasNSeal	120
VNT 50743	Vent Birdscreen 7 FasNSeal	57
VNT 58730	Vent Adaptor 7" FasNSeal to 8" PVC	311
VNT 50739	Vent Drain Cap 7 Horizontal	134
VNT 57432	Vent Tee 7x7x4 w/AVL	396
VNT 57532	Vent Tee 7x7x5 FasNSeal w/AVL	395
8"		
VNT 50801	Vent Pipe 8x6 FasNSeal	77
VNT 50802	Vent Pipe 8x12 FasNSeal	94

FasNSeal AL29-4C Venting

Part Number	Product Name	List (\$)
VNT 50803	Vent Pipe 8x18 FasNSeal	142
VNT 50804	Vent Pipe 8x24 FasNSeal	156
VNT 50805	Vent Pipe 8x36 FasNSeal	224
VNT 50806	Vent 45° Elbow 8 FasNSeal	187
VNT 50807	Vent 90° Elbow 8 FasNSeal	238
VNT 50808	Vent Tee 8 FasNSeal	199
VNT 50809	Vent Tee Cap 8 FasNSeal	71
VNT 50854	Vent ISP Drain Fitting 8 FasNSeal	159
VNT 50811	Vent Pipe Adjustable 8 FasNSeal	135
VNT 50839	Vent Horizontal Drain Cap 8 FasNSeal	139
VNT 50843	Vent Birdscreen 8 FasNSeal	172
VNT 510829	Vent Increaser 10x8 FasNSeal	195
VNT 512829	Vent Increaser 8x12	238
VNT 58508	Vent Tee 8x8x5 FasNSeal	238
VNT 58529	Vent Increaser 8x5 FasNSeal	370
VNT 58532	Vent Cascade Tee 8x8x5 FasNSeal	393
VNT 58629	Vent Increaser 8x faceb	153
VNT 58630	Vent Adapter 6x8 FasNSeal x PVC	169
VNT 58645	Vent Eccentric Increaser 6x8 FasNSeal x PVC	274
VNT 58729	Vent Increaser 8x7 FasNSeal	159
VNT 58830	Vent Adaptor 8 FasNSeal x PVC	113
VNT 58745	Vent Eccentric Increaser 7x8 FasNSeal x PVC	270
VNT 58845	Vent Eccentric Increaser 8x8 FasNSeal x PVC	252
10"		
VNT 51001	Vent Pipe 10x6 FasNSeal	94
VNT 51002	Vent Pipe 10x12 FasNSeal	141
VNT 51003	Vent Pipe 10x18 FasNSeal	174
VNT 51004	Vent Pipe 10x24 FasNSeal	220
VNT 51005	Vent Pipe 10x36 FasNSeal	352
VNT 51006	Vent 45° Elbow 10 FasNSeal	210
VNT 51007	Vent 90° Elbow 10 FasNSeal	266
VNT 51008	Vent Tee 10 FasNSeal	305
VNT 51009	Vent Tee Cap 10 FasNSeal	115
VNT 51054	Vent Drain Fitting 10 FasNSeal IPS	186
VNT 51011	Vent Pipe Adjustable 10 FasNSeal	176
VNT 51039	Vent Horizontal Drain Cap 10 FasNSeal	159
VNT 51043	Vent Birdscreen 10 FasNSeal	134
VNT 510508	Vent Tee 10x10x5 FasNSeal	281
VNT 510532	Vent Cascade Tee 10x10x5 FasNSeal	502
VNT 5101030	Vent Adapter 10x10 FasNSeal x PVC	130
VNT 5101229	Vent Increaser 10x12 FasNSeal	250
VNT 5101429	Vent Increaser 10x14 FasNSeal	259
12"		
VNT 51203	Vent Pipe 12x18 FasNSeal	200
VNT 51204	Vent Pipe 12x24 FasNSeal	254
VNT 51205	Vent Pipe 12x36 FasNSeal	361
VNT 51206	Vent 45° Elbow 12 FasNSeal	252
VNT 51207	Vent 90° Elbow 12 FasNSeal	310

FasNSeal AL29-4C Venting

Part Number	Product Name	List (\$)
VNT 51208	Vent Tee 12 FasNSeal	327
VNT 51209	Vent Tee Cap 12 FasNSeal	131
VNT 51210	Vent Drain Fitting 12 FasNSeal	141
VNT 51211	Vent Pipe Adjustable 12 FasNSeal	190
14"		
VNT 51401	Vent Pipe 14x6 FasNSeal	121
VNT 51404	Vent Pipe 14x24 FasNSeal	272
VNT 51405	Vent Pipe 14x36 FasNSeal	408
VNT 51406	Vent 45° Elbow 14 FasNSeal	291
VNT 51407	Vent 90° Elbow 14 FasNSeal	331
VNT 51408	Vent Tee 14 FasNSeal	465
VNT 51409	Vent Cap 14 FasNSeal	152
VNT 51411	Vent Pipe Adjustable 14 FasNSeal	225
VNT 5141629	Vent Increaser 14x16	327
Roof Penetration Kits		
VNT 91052	Vent Penetration Kit Roof SS 5	583
VNT 91062	Vent Penetration Kit Roof SS 6	716
VNT 91072	Vent Penetration Kit Roof SS 7	839
VNT 91082	Vent Penetration Kit Roof SS 8	891
VNT 910102	Vent Penetration Kit Roof 10	1099
VNT 910122	Vent Penetration Kit Roof 12	1227
Venting Conversion Kits		
CNV 89190	Trio 8" PVC Venting Conv.	701
CNV 89191	Trio 8" SS Venting Conv.	397

PolyPro Venting

Part Number	Product Name	List (\$)
3"		
VNT 80301	3" x 12" PolyPro Pipe	48
VNT 80302	3" x 36" PolyPro Pipe	97
VNT 80303	3" x 72" PolyPro Pipe	126
VNT 80304	3" x 12" PolyPro Pipe UV Resistant	52
VNT 80305	3" x 36" PolyPro Pipe UV Resistant	119
VNT 80306	3" Adjustable PolyPro Pipe	166
VNT 80307	3" Test Port PolyPro	104
VNT 80308	3" Vent Elbow 45 PolyPro	63
VNT 80309	3" Vent Elbow 45 PolyPro UV Resistant	78
VNT 80310	3" PolyPro 90 Elbow	63
VNT 80311	3" PolyPro 90 Elbow UV Resistant	78
VNT 80312	3" PolyPro 90 Extended Elbow UV Resistant	178
VNT 80313	3" PolyPro Drain Condensate	191
VNT 80314	3" Tee Cap PolyPro	64
VNT 80316	3" Tee w/Cap PolyPro	145
VNT 80317	3" Tee w/Cap PolyPro UV Resistant	200
VNT 80318	3" Tee w/Drain Cap PolyPro	185
VNT 50364	3" PolyPro to FasNSeal Outlet Adaptor	102
VNT 84320	4 x 3 PolyPro Vent Increaser	147

PolyPro Venting

Part Number	Product Name	List (\$)
4"		
VNT 80401	4" x 12" PolyPro Pipe	98
VNT 80402	4" x 36" PolyPro Pipe	187
VNT 80403	4" x 72" PolyPro Pipe	263
VNT 80404	4" x 12" PolyPro Pipe UV Resistant	105
VNT 80405	4" x 36" PolyPro Pipe UV Resistant	194
VNT 80406	4" Adjustable PolyPro Pipe	186
VNT 80407	4" Test Port PolyPro	242
VNT 80408	4" Vent Elbow 45 PolyPro	112
VNT 80409	4" Vent Elbow 45 PolyPro UV Resistant	123
VNT 80410	4" PolyPro 90 Elbow	112
VNT 80411	4" PolyPro 90 Elbow UV Resistant	123
VNT 80412	4" PolyPro 90 Extended Elbow UV Resistant	227
VNT 80413	4" PolyPro Drain Condensate	284
VNT 80414	4" Tee Cap PolyPro	71
VNT 80417	4" Tee w/Cap PolyPro UV Resistant	223
VNT 80418	4" Tee w/Drain Cap PolyPro	256
VNT 50464	4" PolyPro to FasNSeal Outlet Adaptor	169
VNT 50468	4" PVC Male x 4" PolyPro Appliance Adaptor	145
VNT 84319	4"x3" Reducer PolyPro	196
VNT 85420	5 x 4 PolyPro Vent Increaser	224
5"		
VNT 80501	5" x 12" PolyPro Pipe	160
VNT 80502	5" x 36" PolyPro Pipe	291
VNT 80503	5" x 72" PolyPro Pipe	405
VNT 80506	5" Adjustable PolyPro Pipe	279
VNT 80507	5" Test Port PolyPro	380
VNT 80508	5" Vent Elbow 45 PolyPro	149
VNT 80510	5" PolyPro 90 Elbow	156
VNT 80513	5" PolyPro Drain Condensate	515