

Hamilton 3VO Technical Information

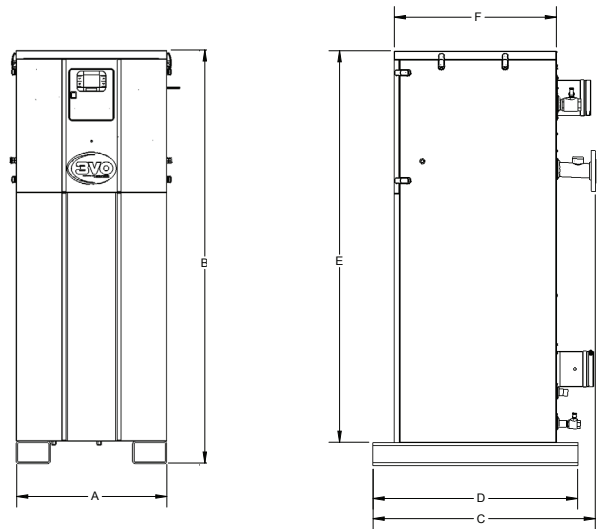
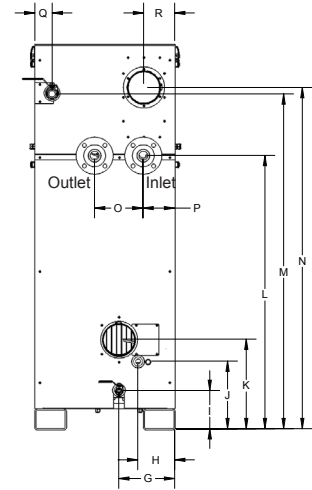


Standard Equipment

- Water heater or heating boiler
- 316L stainless steel heat exchanger - 125 PSI working pressure—H
- Modulating stainless steel burner - up to 5:1 turndown
- Self diagnostic HOT™ microprocessor controls
- Externally and remotely adjustable settings
- Sealed combustion or room air
- AL 29-4C stainless, PP, CPVC, or PVC vent
- Flue temperature sensor
- Water flow, (pressure) sensors
- Pressure relief valve
- Dual high limit sensors (fixed and adjustable)
- Gas pressure sensor
- Modbus communication port
- 24/7 customer service

Optional Equipment

- Circulating pump - on/off or modulating
- Cascade controls (masterless)
- Individually switched electrical power
- Condensate drain neutralizer
- Common gas supply with individual shut-offs and test ports

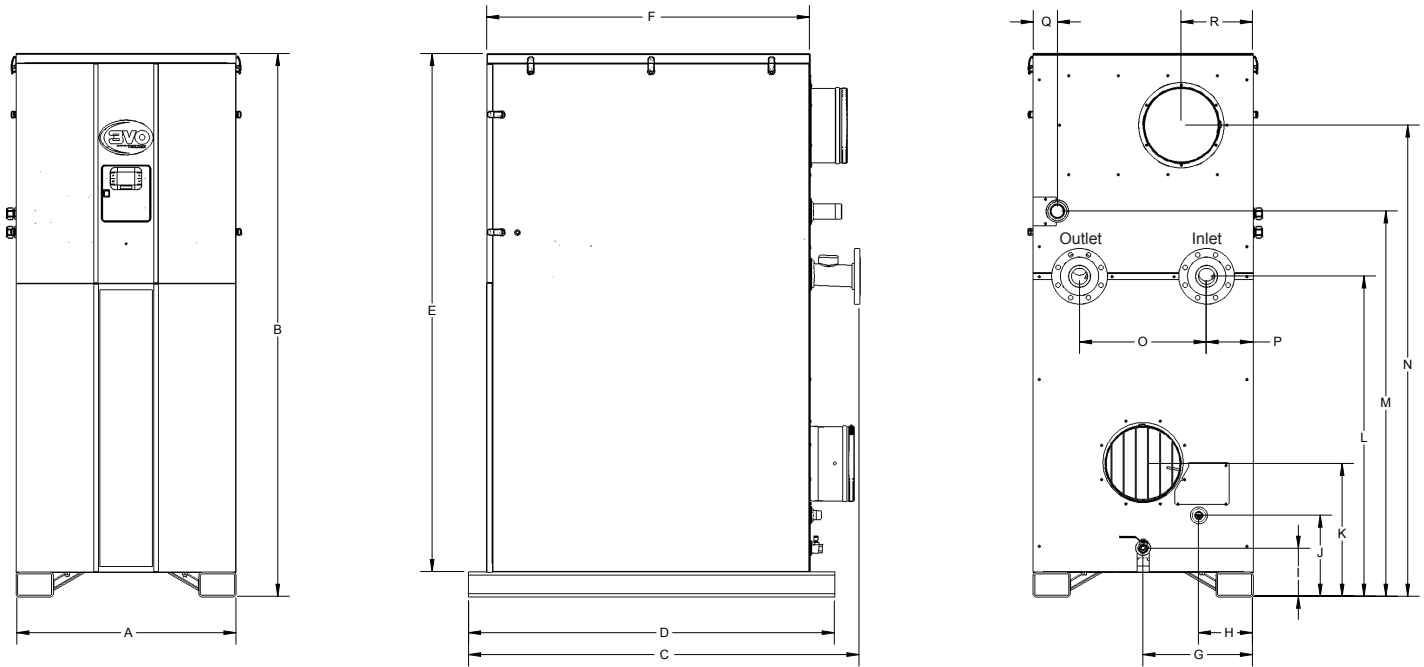


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	Water Conn.	Gas Conn.	Flue Outlet & Inlet Air	Condensate Conn.	Boiler Drain Conn.
750	26.5"	73"	39"	36"	69"	28.5"	10.5"	5"	7"	13"	17"	52"	63.5"	64.5"	9"	6"	3.5"	6"	2.5"	1.25"	5"	0.75"	3 @ 0.75"
850	26.5"	73"	39"	36"	69"	28.5"	10.5"	5"	7"	13"	17"	52"	63.5"	64.5"	9"	6"	3.5"	6"	2.5"	1.25"	6"	0.75"	3 @ 0.75"
1000	26.5"	73"	39"	36"	69"	28.5"	10.5"	5"	7"	13"	17"	52"	63.5"	64.5"	9"	6"	3.5"	6"	2.5"	1.25"	6"	0.75"	3 @ 0.75"

Model	Input BTU/hr	Output BTU/hr @ 54°F incoming water	Output BTU/hr @ 120°F incoming water	GPH Recovery @ 100°FΔT	Water Flow Rate & Pressure Drop @ 50°FΔT	Water Flow Rate & Pressure Drop @ 20°FΔT	Shipping Weight
750	747,684	736,469	669,177	884	28.5 @ 0.9'	71.3 @ 4.8'	1431 lbs
850	848,561	835,833	767,948	1,003	32.3 @ 1.0'	80.8 @ 5.7'	1451 lbs
1000	1,000,754	985,743	915,690	1,183	38.0 @ 1.3'	95.0 @ 7.0'	1463 lbs

See reverse side for larger sizes and notes for all model sizes





Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	Water Conn.	Gas Conn.	Flue Outlet & Inlet Air	Condensate Conn.	Boiler Drain Conn.
1500	32"	80"	53"	47.5"	76"	41"	13"	7.5"	7.5"	13"	21.5"	52"	61.5"	68.5"	13.5"	7"	3.5"	10"	3"	1.5"	7"	1.0"	3 @ 0.75"
2000	32"	80"	53"	47.5"	76"	41"	13"	7.5"	7.5"	13"	21.5"	52"	61.5"	68.5"	13.5"	7"	3.5"	10"	3"	1.5"	8"	1.0"	3 @ 0.75"
2500	32"	80"	53"	47.5"	76"	41"	13"	7.5"	7.5"	13"	21.5"	52"	61.5"	68.5"	13.5"	7"	3.5"	10"	3"	2.0"	10"	1.0"	3 @ 0.75"
3000	35.5"	88"	63"	59.5"	84"	52.5"	18"	8.5"	8"	13"	21.5"	52"	62.5"	76.5"	20.5"	7.5"	4"	11.5"	4"	2.0"	10"	1.0"	3 @ 0.75"
3500	35.5"	88"	63"	59.5"	84"	52.5"	18"	8.5"	8"	13"	21.5"	52"	62.5"	76.5"	20.5"	7.5"	4"	11.5"	4"	2.0"	10"	1.0"	3 @ 0.75"
4000	35.5"	88"	63"	59.5"	84"	52.5"	18"	8.5"	8"	13"	21.5"	52"	62.5"	76.5"	20.5"	7.5"	4"	11.5"	4"	2.0"	12"	1.0"	3 @ 0.75"

Model	Input BTU/hr	Output BTU/hr @ 54°F incoming water	Output BTU/hr @ 120°F incoming water	GPH Recovery @ 100°FΔT	Water Flow Rate & Pressure Drop @ 50°FΔT	Water Flow Rate & Pressure Drop @ 20°FΔT	Shipping Weight
1500	1,536,244	1,513,200	1,397,982	1,817	57.0 @ 1.1'	142.6 @ 6.19'	1639 lbs
2000	1,993,316	1,963,416	1,803,951	2,357	76.0 @ 1.5'	190.1 @ 8.2'	1688 lbs
2500	2,554,213	2,515,900	2,298,792	3,020	95.0 @ 1.7'	237.6 @ 9.5'	1731 lbs
3000	3,025,288	2,979,909	2,753,012	3,577	114.0 @ 1.6'	285.1 @ 8.9'	1860 lbs
3500	3,437,291	3,385,732	3,093,562	4,065	133.1 @ 2.1'	332.6 @ 11.2'	1925 lbs
4000	4,000,000	3,940,000	3,600,000	4,643	148.0 @ 2.4'	370.1 @ 13.3'	2500 lbs

- Rates shown are for natural or propane gas, and elevations up to 9,000 feet
- Pressure drop is for heat exchanger only
- Dimensions not to be used for construction purposes. Please consult the factory for construction planning details
- Models 750–850 maximum amperage draw at 120 volts single phase.
- Models 1000–3000 maximum amperage draw at 240 volts single phase.
- Models 3500–4000 maximum amperage draw at 480 volts three phase, is less than 5 amps, plus pump.



UL 795-2011/CSA3.4
Classified Commercial
Industrial Gas Fired
Heating Equipment

