

MINIMUM AND MAXIMUM FLOW RATES

	AM 399	AM 500	AM 750	AM 1000
Minimum Water Flow at Min. Fire (GPM)	11	12	12	12
Minimum Water Flow at Full Fire (GPM)	22	24	36	48
Maximum Water Flow (GPM)	40	40	60	80

The following primary/secondary piping design guidelines should be used for AERCO AM Series potable water applications. A 20 mesh strainer (or finer) is required at each inlet. Water flow rates and pressure drops shown below are for the primary loop. Flow rates vary with system design parameters. **The primary loop**

AM 399 AM 500 AM 750 AM 1000

MAXIMUM Potable water hardness = 10 grains per gallon MAXIMUM Total dissolved solids = 200 ppm				
Water Flow (GPM)	22	24	36	48
Water Press. Drop (Ft. of Hd.) across AM Series	10	14	14	17
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) plus ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	2.15	2.15	1.65	2.25
Total Primary Loop ΔP (Ft. of Hd.)	12.15	16.15	15.65	19.25
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99237-1	99237-2	99237-2	99237-5
Kit includes: Pump Flange Size	1-1/4"	1-1/4"	1-1/2"	1-1/2"
Kit includes: Circuit Setter Size (NPT)	1-1/2"	1-1/2"	2"	2"
Recommended AERCO AM DHW Installation Kit (Installation Kit already includes above Pump/Circuit setter kit, plus Strainer, Isolation Valve, and pipe fittings).	58135-1	58135-2	58135-2	58135-3
Installation Kit designed for inlet/outlet piping diameter: Strainer and Isolation valves sizes (NPT):	1-1/2"	2"	2"	2"

MAXIMUM Potable water hardness = 18 grains per gallon MAXIMUM Total dissolved solids = 200 ppm				
Water Flow (GPM)	37	37	60	75
Water Press. Drop (Ft. of Hd.) across AM Series	27	32	38	41
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) plus ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	1.88	1.88	2.20	3.05
Total Primary Loop ΔP (Ft. of Hd.)	28.88	33.88	40.20	44.05
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99237-5	99237-5	99227-5	99227-5
Kit includes: Pump Flange Size	1-1/2"	1-1/2"	2"	2"
Kit includes: Circuit Setter Size (NPT)	2"	2"	2-1/2"	2-1/2"
Recommended AERCO AM DHW Installation Kit (Installation Kit already includes above Pump/Circuit setter kit, plus Strainer, Isolation Valve, and pipe fittings).	58135-3	58135-3	58135-4	58135-4
Installation Kit designed for inlet/outlet piping diameter: Strainer and Isolation valves sizes (NPT):	2"	2"	2-1/2"	2-1/2"

fittings and strainer pressure drops shown below are examples only – actual pressure drops will vary depending on actual piping layout and strainer size/type used.



AERCO AM SERIES – POTABLE APPLICATIONS Primary Loop Design Guidelines

NOTE: Units with outlet connections matching pipe size do not include reducer.