

International, Inc.

MININUM AND MAXIMUM FLOW RATES

	EXT 450 2S	EXT 600 2S	EXT 800 2S	EXT 1100 2S
Minimum Water Flow at Min. Fire (GPM)	7	9	11	16
Minimum Water Flow at Full Fire (GPM)	18	24	30	42
Maximum Water Flow (GPM)	42	56	71	99

The following primary/secondary piping design guidelines should be used for AERCO Modulex Boiler installations. The following data was calculated based upon systems with Return Water Temperatures above 80°F. A 20 mesh strainer (or finer) is required at each boiler inlet. Water flow rates and pressure drops shown below are for the boiler loop. Boiler water flow rates vary with system design parameters. The boiler loop 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.

Water Flow (GPM) @ Max. ΔT of 50°F 18 24 30 41 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 50°F ΔT Flow 0.50 0.89 0.41 0.80 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.50 0.89 0.41 0.80 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2x Ball Valve) 0.81 1.47 0.65 1.23 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 39127-1 99127-2 99127-3 Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 1-1/2" 1-1/2" 2" 2" 2" Kit includes: Pump Flange Size 1-1/2" 1-1/2" 2" 2" 2" Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 3.3 2.6 2.6 2.7 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 1.30 0.65 1.01 1.89 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('S' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 0.64 0.64		EXT 450 2S	EXT 600 2S	EXT 800 2S	EXT 1100 2S		
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 50°F ΔΤ Flow 2.1 1.7 1.6 1.8 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.50 0.89 0.41 0.80 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.81 1.47 0.65 1.23 ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.81 1.47 0.65 1.23 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F 3.44 4.09 2.67 3.82 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 1-1/2" 2" 2" Recommended AERCO Pumpt-Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-1 99127-2 99127-3 Kit includes: Circuit Setter Size (NPT) 1-1/2" 1-1/2" 1-1/2" 2" 2" A0°F AT Loop Conditions Water Flow (GPM) @ 40°F ΔΤ 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔΤ Flow 3.3 2.6 2.6 2.7 Strainer AP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41	50°F ΔT Loop Conditions						
## S0°F ΔT Flow Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" **Extinic Lodes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 1-1/2" 2" 2" 2" 2" **Extinic Lodes: Circuit Setter Size (NPT) 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" 40°F ΔT Loop Conditions Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations Recommended AERCO Pump+Circuit Setter Kit for piping configurations Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example Kit includes: Pump Flange Size 1-1/2" 99127-2 99127-3 99127-2 99127-3	Water Flow (GPM) @ Max. ΔT of 50°F	18	24	30	41		
ΔP (Ft. of Hd.) – (20° SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 0.81 1.47 0.65 1.23 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F 3.44 4.09 2.67 3.82 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 1-1/2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-1 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2" A0°F AT Loop Conditions Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 <td>1 \</td> <td>2.1</td> <td>1.7</td> <td>1.6</td> <td>1.8</td>	1 \	2.1	1.7	1.6	1.8		
2 x Ball Valve) 0.81 1.47 0.65 1.25 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F 3.44 4.09 2.67 3.82 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 1-1/2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-1 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2" At includes: Circuit Setter Size (NPT) 1-1/2" 1-1/2" 2" 2" Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 <t< td=""><td>Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)</td><td>0.50</td><td>0.89</td><td>0.41</td><td>0.80</td></t<>	Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.50	0.89	0.41	0.80		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 1-1/2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-1 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2" Kit includes: Circuit Setter Size (NPT) 1-1/2" 1-1/2" 2" 2" Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) — ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) — (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations n		0.81	1.47	0.65	1.23		
Strainer ΔP for above piping configurations 1-1/2" 1-1/2" 2" 29127-3	Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F	3.44	4.09	2.67	3.82		
Strainer ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations not exceeding the above example Stit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" 2"		1-1/2"	1-1/2"	2"	2"		
Kit includes: Circuit Setter Size (NPT) 1-1/2" 1-1/2" 2" 2" 40°F AT Loop Conditions Water Flow (GPM) @ 40°F ΔΤ 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔΤ Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-2 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2"		99127-1	99127-1	99127-2	99127-3		
40°F AT Loop Conditions Water Flow (GPM) @ 40°F ΔT 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔT Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20° SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-2 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2" 2"	Kit includes: Pump Flange Size	1-1/2"	1-1/2"	1-1/2"	2"		
Water Flow (GPM) @ 40°F ΔΤ 22 30 37 52 Water Pressure Drop (Ft. of Hd.) across the Boiler @ 40°F ΔΤ Flow 3.3 2.6 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-2 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2"	Kit includes: Circuit Setter Size (NPT)	1-1/2"	1-1/2"	2"	2"		
Water Pressure Drop (Ft. of Hd.) across the Boiler 3.3 2.6 2.7 @ 40°F ΔT Flow 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-2 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2"	40°F ΔΤ Lo	oop Condition	18				
@ 40°F ΔΤ Flow 3.3 2.6 2.7 Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh) 0.78 0.41 0.64 1.26 ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve) 1.30 0.65 1.01 1.89 Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F 5.35 3.69 4.22 5.89 Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations 1-1/2" 2" 2" 2" Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example 99127-1 99127-2 99127-2 99127-3 Kit includes: Pump Flange Size 1-1/2" 1-1/2" 1-1/2" 2"	Water Flow (GPM) @ 40°F ΔT	22	30	37	52		
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)1.300.651.011.89Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F5.353.694.225.89Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations1-1/2"2"2"2"Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example99127-199127-299127-3Kit includes: Pump Flange Size1-1/2"1-1/2"1-1/2"2"		3.3	2.6	2.6	2.7		
2 x Ball Valve)1.300.651.011.89Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F5.353.694.225.89Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations1-1/2"2"2"2"Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example99127-199127-299127-299127-3Kit includes: Pump Flange Size1-1/2"1-1/2"1-1/2"2"	Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.78	0.41	0.64	1.26		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example Kit includes: Pump Flange Size 1-1/2" 2" 2" 2" 2" 99127-2 99127-2 1-1/2" 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" 2" 2" 2"		1.30	0.65	1.01	1.89		
estimate ΔP for above piping configurations Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example Kit includes: Pump Flange Size 1-1/2" 2" 299127-2 99127-2 99127-2 1-1/2" 1-1/2" 2" 2" 2" 2" 2" 2" 2" 2" 2"	Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F	5.35	3.69	4.22	5.89		
configurations not exceeding the above example Kit includes: Pump Flange Size 1-1/2" 9912/-2 9912/-3 9912/-3 2"	estimate ΔP for above piping configurations	1-1/2"	2"	2"	2"		
		99127-1	99127-2	99127-2	99127-3		
Kit includes: Circuit Setter Size (NPT) 1-1/2" 2" 2" 2"	Kit includes: Pump Flange Size	1-1/2"	1-1/2"	1-1/2"	2"		
	Kit includes: Circuit Setter Size (NPT)	1-1/2"	2"	2"	2"		



International, Inc.

	EXT 450 2S	EXT 600 2S	EXT 800 2S	EXT 1100 2S		
30°F ΔT Loop Conditions						
Water Flow (GPM) @ $30^{\circ}F \Delta T$	30	39	49	69		
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 30°F ΔT Flow	5.7	4.6	4.6	4.8		
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.41	0.73	1.14	1.09		
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	0.65	1.12	1.70	1.24		
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 30°F	6.80	6.43	7.47	7.10		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	2"	2"	2"	2-1/2"		
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99127-2	99127-3	99127-3	99127-4		
Kit includes: Pump Flange Size	1-1/2"	2"	2"	2"		
Kit includes: Circuit Setter Size (NPT)	2"	2"	2"	2-1/2"		
20°F ΔΤ Lo	oop Condition	ıs				
Water Flow (GPM) @ Min. ΔT of 20°F	42	56	71	99		
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 20°F ΔΤ Flow	11.8	9.2	9.7	9.5		
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.92	0.80	1.26	2.46		
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	1.49	0.91	1.49	2.71		
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 20°F	14.19	10.91	12.41	14.71		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	2"	2-1/2"	2-1/2"	2-1/2"		
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99127-3	99127-4	99127-4	99127-9		
Kit includes: Pump Flange Size	2"	2"	2"	2"		
Kit includes: Circuit Setter Size (NPT)	2"	2-1/2"	2-1/2"	2-1/2"		



International, Inc.

MININUM AND MAXIMUM FLOW RATES

	EXT	EXT	EXT	EXT
	1530/1500	2295/2300	2677/2600	3060/3000
Minimum Water Flow at Min. Fire (GPM)	4.4	4.4	8.8	8.8
Minimum Water Flow at Full Fire (GPM)	56	84	99	113
Maximum Water Flow (GPM)	113	169	197	225

	EXT 1530/1500	EXT 2295/2300	EXT 2677/2600	EXT 3060/3000	
50°F ΔT Loop Conditions					
Water Flow (GPM) @ Max. ΔT of 50°F	56	84	99	113	
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 50°F ΔT Flow	2.6	3.3	3.6	3.0	
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.29	0.64	0.29	0.37	
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	0.41	0.91	0.33	0.43	
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 50°F	3.32	4.83	4.22	3.75	
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	3"	3"	4"	4"	
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99127-6	99127-7	99127-7	99127-7	
Kit includes: Pump Flange Size	2"	3"	3"	3"	
Kit includes: Circuit Setter Size (NPT)	2 ½"	3"	3"	3"	
40°F ΔT L	oop Condition	ıs			
Water Flow (GPM) @ 40°F ΔT	70	106	123	141	
Water Pressure Drop (Ft. of Hd.) across the Boiler $@40^{\circ}F \Delta T$ Flow	3.6	4.9	5.2	4.6	
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.45	1.00	0.45	0.58	
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	0.63	1.42	0.50	0.66	
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 40°F	4.69	7.35	6.20	5.83	
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	3"	3"	4"	4"	
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99127-7	99127-7	99208-3	99208-3	
Kit includes: Pump Flange Size	3"	3"	3"	3"	
Kit includes: Circuit Setter Size (NPT)	3"	3"	3"	3"	



International, Inc.

	EXT 1530/1500	EXT 2295/2300	EXT 2677/2600	EXT 3060/3000		
30°F ΔT Loop Conditions						
Water Flow (GPM) @ 30°F ΔT	94	141	164	188		
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 30°F ΔT Flow	5.2	9.5	9.8	8.5		
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	0.79	1.79	0.79	1.04		
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	1.12	3.81	0.88	1.15		
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 30°F	7.17	15.11	11.52	10.72		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	3"	3"	4"	4"		
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99127-7	99208-5	99208-5	99208-6		
Kit includes: Pump Flange Size	3"	3"	3"	3"		
Kit includes: Circuit Setter Size (NPT)	3"	3"	3"	3"		
25°F ΔΤ Lo	oop Condition	S				
Water Flow (GPM) @ Min. ΔT of 25°F	113	169	197	225		
Water Pressure Drop (Ft. of Hd.) across the Boiler @ 25°F ΔT Flow	7.9	16.4	17.7	13.1		
Strainer ΔP (Ft. of Hd.) – ('Y' Strainer, 20 mesh)	1.14	2.57	1.14	1.49		
ΔP (Ft. of Hd.) – (20' SCH.40, 4 x 90°, 2 x reducing couplings, 2 x Ball Valve)	2.27	4.97	1.79	2.31		
Total Primary Loop ΔP (Ft. of Hd.) @ ΔT of 25°F	11.28	23.95	20.65	16.92		
Strainer, Pipes, Valves and Fittings Sizes used to estimate ΔP for above piping configurations	3"	3"	4"	4"		
Recommended AERCO Pump+Circuit Setter Kit for piping configurations not exceeding the above example	99208-4	99208-7	99208-7	99208-7		
Kit includes: Pump Flange Size	3"	3"	3"	3"		
Kit includes: Circuit Setter Size (NPT)	3"	3"	3"	3"		