Sizing Boiler or Water Heater Piping Manifolds

Data shown is for standard flow rates. For high-flow (CUNI applications), see form 34-207.

GPM Flow Rates of PRIMERA (design flow)						
Model	Number of PRIMERA Boilers Sharing Pipe Run					
	1	2	3	4	5	6
400 / 540	30	60	90	120	150	180
750	61	122	183	244	305	366
1000	76	152	228	304	380	456
1200	46	92	138	184	230	276
1600	61	122	183	244	305	366
2000	76	152	228	304	380	456

Minimum Required Pipe Size - Type L Copper						
Model	Number of PRIMERAs Sharing Pipe Run					
	1	2	3	4	5	6
400 / 540	2"	2-1/2"	3"	3"	3-1/2"	3-1/2"
750	2"	3"	3-1/2"	4"	5"	5"
1000	2-1/2"	3-1/2"	4"	5"	5"	6"
1200	2"	3"	3-1/2"	4"	5"	5"
1600	2"	3"	3-1/2"	4"	5"	5"
2000	2-1/2"	3-1/2"	4"	5"	5"	6"

Minimum Required Pipe Size - Schedule 40 New Steel (hydronic only)						
Model	Number of PRIMERA Boilers Sharing Pipe Run					
	1	2	3	4	5	6
400B / 540B	2"	2"	2"	2-1/2"	2-1/2"	3"
750B	2"	2-1/2"	3"	3-1/2"	3-1/2"	4"
1000B	2"	2-1/2"	3"	3-1/2"	4"	5"
1200B	2"	2"	2-1/2"	3"	3"	3-1/2"
1600B	2"	2-1/2"	3"	3-1/2"	3-1/2"	4"
2000B	2"	2-1/2"	3"	3-1/2"	4"	5"

NOTES:
1. Steel pipe is for hydronic heating systems only and not domestic water heating.
2. Total head loss of the boiler piping (primary loop), valves, fittings and boiler must be calculated to properly size boiler pumps. For information on pumps available from Riverside Hydronics, refer to form 34-113.