

Mfr's minimum recommendations

Below minimum recommendation

Exceeds diameter of supply tapping

XXX not enough supply tapplings for this number of risers

Enter pressure (psig)

to calculate at here → 0

Enter Specific Volume in

cubic feet (ft<sup>3</sup>) here → 26.8

					Riser Diameter And Count						Header Diameter					
					2"	2-1/2"	2"	3"	2-1/2"	3"	2"	2-1/2"	3"	4"	5"	6"
Diameter (sch 40)					3.36	4.78	3.36	7.39	4.78	7.39	3.36	4.78	7.39	12.73	19.99	28.89
Internal area																
number of Risers					1	1	2	1	2	2						
					Steam Velocity in Risers (in ft/sec)						Steam Velocity in Header (in ft/sec)					
Make	Model	Fuel	Model #	Boiler output (lbs/hr)												
Utica Boilers	PEG-E	Gas	PEG075EID	65	20.7	14.6	10.4	9.4	7.3	4.7	20.7	14.6	9.4	5.5	3.5	2.4
Utica Boilers	PEG-E	Gas	PEG112EID	97	30.9	21.8	15.5	14.1	10.9	7.0	30.9	21.8	14.1	8.2	5.2	3.6
Utica Boilers	PEG-E	Gas	PEG150EID	130	41.5	29.2	20.7	18.9	14.6	9.4	41.5	29.2	18.9	10.9	7.0	4.8
Utica Boilers	PEG-E	Gas	PEG187EID	163	52.0	36.6	26.0	23.6	18.3	11.8	52.0	36.6	23.6	13.7	8.7	6.0
Utica Boilers	PEG-E	Gas	PEG225EID	196	62.5	44.0	31.3	28.4	22.0	14.2	62.5	44.0	28.4	16.5	10.5	7.3
Utica Boilers	PEG-E	Gas	PEG262EID	228	72.7	51.1	36.4	33.1	25.6	16.5	72.7	51.1	33.1	19.2	12.2	8.5
Utica Boilers	PEG-E	Gas	PEG299EID	260	83.0	58.3	41.5	37.7	29.2	18.9	83.0	58.3	37.7	21.9	13.9	9.6
Columbia	CGEID	Gas	CEG075EID	65	20.7	14.6	10.4	9.4	7.3	4.7	20.7	14.6	9.4	5.5	3.5	2.4
Columbia	CGEID	Gas	CEG112EID	97	30.9	21.8	15.5	14.1	10.9	7.0	30.9	21.8	14.1	8.2	5.2	3.6
Columbia	CGEID	Gas	CEG150EID	130	41.5	29.2	20.7	18.9	14.6	9.4	41.5	29.2	18.9	10.9	7.0	4.8
Columbia	CGEID	Gas	CEG187EID	163	52.0	36.6	26.0	23.6	18.3	11.8	52.0	36.6	23.6	13.7	8.7	6.0
Columbia	CGEID	Gas	CEG225EID	196	62.5	44.0	31.3	28.4	22.0	14.2	62.5	44.0	28.4	16.5	10.5	7.3
Columbia	CGEID	Gas	CEG262EID	228	72.7	51.1	36.4	33.1	25.6	16.5	72.7	51.1	33.1	19.2	12.2	8.5
Columbia	CGEID	Gas	CEG299EID	260	83.0	58.3	41.5	37.7	29.2	18.9	83.0	58.3	37.7	21.9	13.9	9.6
Dunkirk	PSB	Gas	PSB-3D	65	20.7	14.6	10.4	9.4	7.3	4.7	20.7	14.6	9.4	5.5	3.5	2.4
Dunkirk	PSB	Gas	PSB-4D	95	30.3	21.3	15.2	13.8	10.7	6.9	30.3	21.3	13.8	8.0	5.1	3.5
Dunkirk	PSB	Gas	PSB-5D	127	40.5	28.5	20.3	18.4	14.2	9.2	40.5	28.5	18.4	10.7	6.8	4.7
Dunkirk	PSB	Gas	PSB-6D	159	50.7	35.7	25.4	23.1	17.8	11.5	50.7	35.7	23.1	13.4	8.5	5.9
Dunkirk	PSB	Gas	PSB-7D	191	60.9	42.8	30.5	27.7	21.4	13.9	60.9	42.8	27.7	16.1	10.2	7.1
Dunkirk	PSB	Gas	PSB-8D	223	71.1	50.0	35.6	32.3	25.0	16.2	71.1	50.0	32.3	18.8	12.0	8.3
Dunkirk	PSB	Gas	PSB-9D	255	81.4	57.2	40.7	37.0	28.6	18.5	81.4	57.2	37.0	21.5	13.7	9.5

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Enter pressure (psig) to calculate at here→

0

Enter Specific Volume in cubic feet (ft<sup>3</sup>) here→

26.8

					Riser Diameter And Count						Header Diameter						
					2"	2-1/2"	2"	3"	2-1/2"	3"	2"	2-1/2"	3"	4"	5"	6"	
					Internal area	3.36	4.78	3.36	7.39	4.78	7.39	3.36	4.78	7.39	12.73	19.99	28.89
					number of Risers	1	1	2	1	2	2						
					Steam Velocity in Risers (in ft/sec)						Steam Velocity in Header (in ft/sec)						
Make	Model	Fuel	Model #	Boiler output (lbs/hr)													
Dunkirk	PSB	LPG	PSB-3DP	60	19.1	13.5	9.6	8.7	6.7	4.4	19.1	13.5	8.7	5.1	3.2	2.2	
Dunkirk	PSB	LPG	PSB-4DP	89	28.4	20.0	14.2	12.9	10.0	6.5	28.4	20.0	12.9	7.5	4.8	3.3	
Dunkirk	PSB	LPG	PSB-5DP	119	38.0	26.7	19.0	17.3	13.3	8.6	38.0	26.7	17.3	10.0	6.4	4.4	
Dunkirk	PSB	LPG	PSB-6DP	149	47.5	33.4	23.8	21.6	16.7	10.8	47.5	33.4	21.6	12.5	8.0	5.5	
Dunkirk	PSB	LPG	PSB-7DP	178	56.8	39.9	28.4	25.8	20.0	12.9	56.8	39.9	25.8	15.0	9.5	6.6	
Dunkirk	PSB	LPG	PSB-8DP	208	66.4	46.6	33.2	30.2	23.3	15.1	66.4	46.6	30.2	17.5	11.2	7.7	
Dunkirk	PSB	LPG	PSB-9DP	239	76.3	53.6	38.1	34.7	26.8	17.3	76.3	53.6	34.7	20.1	12.8	8.9	
Pennco	16 Series	Gas	1603HSID	65	20.7	14.6	10.4	9.4	7.3	4.7	20.7	14.6	9.4	5.5	3.5	2.4	
Pennco	16 Series	Gas	1604HSID	95	30.3	21.3	15.2	13.8	10.7	6.9	30.3	21.3	13.8	8.0	5.1	3.5	
Pennco	16 Series	Gas	1605HSID	127	40.5	28.5	20.3	18.4	14.2	9.2	40.5	28.5	18.4	10.7	6.8	4.7	
Pennco	16 Series	Gas	1606HSID	159	50.7	35.7	25.4	23.1	17.8	11.5	50.7	35.7	23.1	13.4	8.5	5.9	
Pennco	16 Series	Gas	1607HSID	191	60.9	42.8	30.5	27.7	21.4	13.9	60.9	42.8	27.7	16.1	10.2	7.1	
Pennco	16 Series	Gas	1608HSID	223	71.1	50.0	35.6	32.3	25.0	16.2	71.1	50.0	32.3	18.8	12.0	8.3	
Pennco	16 Series	Gas	1609HSID	255	81.4	57.2	40.7	37.0	28.6	18.5	81.4	57.2	37.0	21.5	13.7	9.5	
Pennco	16 Series	LPG	1603HSID	60	19.1	13.5	9.6	8.7	6.7	4.4	19.1	13.5	8.7	5.1	3.2	2.2	
Pennco	16 Series	LPG	1604HSID	89	28.4	20.0	14.2	12.9	10.0	6.5	28.4	20.0	12.9	7.5	4.8	3.3	
Pennco	16 Series	LPG	1605HSID	119	38.0	26.7	19.0	17.3	13.3	8.6	38.0	26.7	17.3	10.0	6.4	4.4	
Pennco	16 Series	LPG	1606HSID	149	47.5	33.4	23.8	21.6	16.7	10.8	47.5	33.4	21.6	12.5	8.0	5.5	
Pennco	16 Series	LPG	1607HSID	178	56.8	39.9	28.4	25.8	20.0	12.9	56.8	39.9	25.8	15.0	9.5	6.6	
Pennco	16 Series	LPG	1608HSID	208	66.4	46.6	33.2	30.2	23.3	15.1	66.4	46.6	30.2	17.5	11.2	7.7	
Pennco	16 Series	LPG	1609HSID	239	76.3	53.6	38.1	34.7	26.8	17.3	76.3	53.6	34.7	20.1	12.8	8.9	