

SmartPlate EV Sizing Tables

SmartPlate EV 30						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	11	0.23	40	102	6.39
	130	15	0.28	40	99	6.39
	140	21	0.60	40	96	6.39
	160	32	0.73	40	93	6.39
	180	40	0.95	37	90	5.47

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	10	0.19	40	118	6.39
	150	14	0.35	40	113	6.39
	160	20	0.67	40	109	6.39
	180	29	1.35	40	105	6.39

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	13	0.31	40	105	6.39
	130	17	0.50	40	103	6.39
	140	25	1.02	40	102	6.39
	160	39	2.38	40	100	6.39
	180	40	2.50	28	92	3.13

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	11	0.23	40	121	6.39
	150	16	0.33	40	117	6.39
	160	22	0.80	40	114	6.39
	180	33	1.73	40	111	6.39

SmartPlate EV 40						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	15	0.28	60	104	10.50
	130	21	0.63	60	101	10.50
	140	31	1.52	60	98	10.50
	160	47	3.74	60	96	10.50
	180	60	6.27	58	94	9.83

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	15	0.28	60	119	10.50
	150	20	0.56	60	115	10.50
	160	28	1.21	60	111	10.50
	180	42	2.94	60	108	10.50

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	17	0.38	60	107	10.50
	130	25	0.94	60	104	10.50
	140	37	2.24	60	102	10.50
	160	56	5.42	60	102	10.50
	180	60	6.27	44	95	7.74

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	17	0.38	60	122	10.50
	150	22	0.70	60	119	10.50
	160	33	1.75	60	115	10.50
	180	48	3.91	60	113	10.50

SmartPlate EV 60						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	21	0.60	75	102	12.98
	130	30	1.20	75	98	12.98
	140	41	2.21	75	95	12.98
	160	62	5.00	75	92	12.98
	180	75	7.29	67	87	10.41

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	20	0.54	75	117	12.98
	150	28	1.05	75	112	12.98
	160	39	2.01	75	107	12.98
	180	56	4.09	75	103	12.98

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	24	0.78	75	105	12.98
	130	34	1.53	75	102	12.98
	140	49	3.14	75	100	12.98
	160	75	7.29	75	98	12.98
	180	75	7.29	52	90	6.35

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	23	0.71	75	120	12.98
	150	31	1.28	75	116	12.98
	160	43	2.43	75	113	12.98
	180	64	5.33	75	109	12.98

SmartPlate EV 90						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	30	0.67	90	99	16.69
	130	39	0.96	90	95	16.69
	140	55	1.58	90	90	16.69
	160	81	2.88	90	86	16.69
	180	90	3.42	74	80	11.18

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	27	0.58	90	114	16.69
	150	37	0.89	90	108	16.69
	160	51	1.42	90	102	16.69
	180	72	2.39	90	97	16.69

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	32	0.73	90	103	16.69
	130	46	1.22	90	99	16.69
	140	65	2.04	90	96	16.69
	160	90	3.42	81	92	13.45
	180	90	3.42	58	83	6.77

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	31	0.70	90	117	16.69
	150	41	1.03	90	113	16.69
	160	57	1.67	90	108	16.69
	180	84	3.06	90	103	16.69

SmartPlate EV 140						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	34	0.67	90	94	14.91
	130	46	1.28	90	88	14.91
	140	63	2.46	90	83	14.91
	160	90	5.14	89	77	14.57
	180	90	5.14	74	80	10.00

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	33	0.63	90	107	14.91
	150	44	1.16	90	100	14.91
	160	59	2.15	90	93	14.91
	180	83	4.36	90	85	14.91

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	40	0.95	90	98	14.91
	130	53	1.72	90	94	14.91
	140	74	3.44	90	90	14.91
	160	90	5.14	70	81	8.93
	180	90	5.14	56	80	5.65

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	37	0.80	90	111	14.91
	150	48	1.40	90	106	14.91
	160	66	2.71	90	100	14.91
	180	90	5.14	86	93	13.59

SmartPlate EV 140 HF						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	45	0.66	140	99	12.16
	130	60	1.15	140	95	12.16
	140	86	2.32	140	90	12.16
	160	126	4.90	140	86	12.16
	180	140	6.04	113	76	5.24

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	44	0.63	140	113	12.16
	150	57	1.04	140	108	12.16
	160	79	1.96	140	102	12.16
	180	113	3.96	140	97	12.16

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	50	0.81	140	103	12.16
	130	71	1.59	140	99	12.16
	140	101	3.17	140	96	12.16
	160	140	6.04	124	91	9.60
	180	140	6.04	89	83	5.06

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	48	0.75	140	117	12.16
	150	65	1.34	140	112	12.16
	160	89	2.48	140	108	12.16
	180	131	5.30	140	103	12.16

SmartPlate EV 200 HF						
Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-120	125	52	0.87	140	95	8.00
	130	69	1.50	140	90	8.00
	140	96	2.86	140	84	8.00
	160	140	6.00	140	78	8.00
	180	140	6.00	105	70	4.53

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
40-140	145	51	0.84	140	108	8.00
	150	66	1.38	140	102	8.00
	160	89	2.46	140	95	8.00
	180	125	4.80	140	88	8.00

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-120	125	60	1.15	140	99	8.00
	130	80	2.00	140	95	8.00
	140	112	3.87	140	91	8.00
	160	140	6.00	111	83	5.06
	180	140	6.00	83	76	2.85

Domestic Water Inlet - Outlet (°F)	Boiler Water Inlet Temp (°F)	Domestic side		Boiler side		
		Flow (GPM)	Total Pressure Drop (PSI)	Flow (GPM)	Outlet Temp (°F)	Total Pressure Drop (PSI)
60-140	145	56	1.00	140	112	8.00
	150	74	1.72	140	107	8.00
	160	101	3.16	140	101	8.00
	180	140	6.00	134	94	7.34