ZB brazed plate heat exchangers
Z plate and frame heat exchangers

For the temperatures stated below, choose the Heat Capacity (Btu/h) and Flow Rate (Gal/min) for your application to define the proper Heat Exchanger Model and Number of Plates.

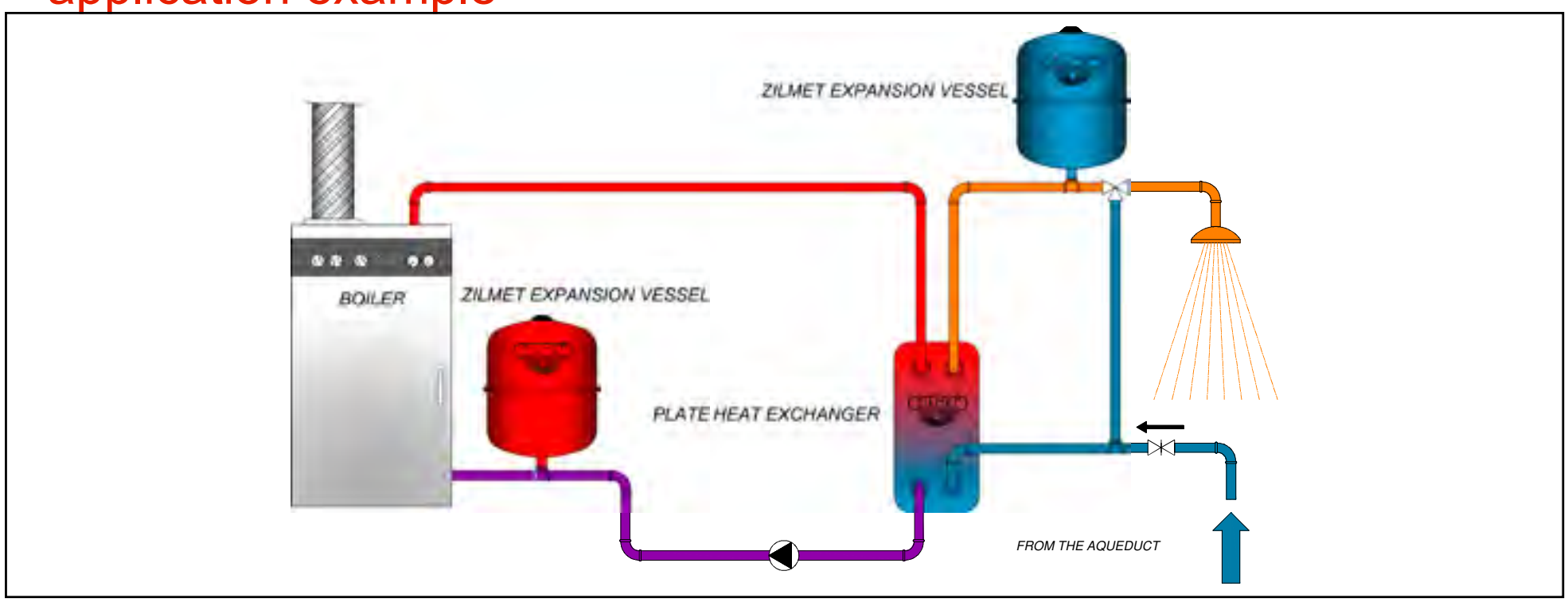
Quick Sizing Table

hot water immediate production

PRIMARY 176°F-140°F SECONDARY 55°F-122°F						
Btu/h	**Model**	**Plates**	**Flow Rate**		**Pressure Drop**	
		Nr.	**Gal/min**		**psi**	
			primary	secondary	primary	secondary
80000	ZB 207	10	4.54	2.40	4	1
	Z2	7			1	1
120000	ZB 207	14	6.81	3.60	4	1
	Z2	7			3	1
160000	ZB 207	16	9.08	4.80	5	2
	Z2	9			3	1
200000	ZB 207	20	11.34	6.00	5	2
	Z2	9			5	2
240000	ZB 207	24	13.61	7.20	5	2
	Z2	11			4	2
320000	ZB 250	30	18.15	9.60	4	1
	Z2	13			5	2
400000	ZB250	40	22.69	12.00	3	1
	Z2	17			5	2
500000	ZB 250	40	28.36	15.01	5	2
	Z2	21			5	2
600000	ZB 250	50	34.03	18.01	5	2
	Z2	25			5	2
700000	ZB 250	60	39.70	21.01	4	2
	Z2	27			5	2
800000	ZB 400	40	45.38	24.01	5	2
	Z3	17			5	2
1000000	ZB 450	50	56.72	30.01	4	2
	Z3	23			4	2
1200000	ZB 450	60	68.06	36.01	4	2
	Z3	27			4	2
1400000	ZB 450	80	79.41	42.02	3	1
	Z3	31			5	2
1600000	ZB 450	80	90.75	48.02	4	2
	Z3	33			5	2
1800000	ZB 450	80	102.10	54.02	5	2
	Z3	37			5	2
2000000	ZB 450	100	113.40	60.02	5	2
	Z3	41			5	2
2400000	ZB 450	120	136.10	72.03	4	2
	Z3	49			5	2
2800000	ZB 450	150	158.80	84.03	4	1
	Z3	57			5	2
3200000	ZB 450	150	181.50	96.03	5	2
	Z3	63			5	2

EXAMPLES OF SIZING – for specific applications, please contact us at 843.983.1000

application example



ZB brazed plate heat exchangers
Z plate and frame heat exchangers

For the temperatures stated below, choose the Heat Capacity (Btu/h) and Flow Rate (Gal/min) for your application to define the proper Heat Exchanger Model and Number of Plates.

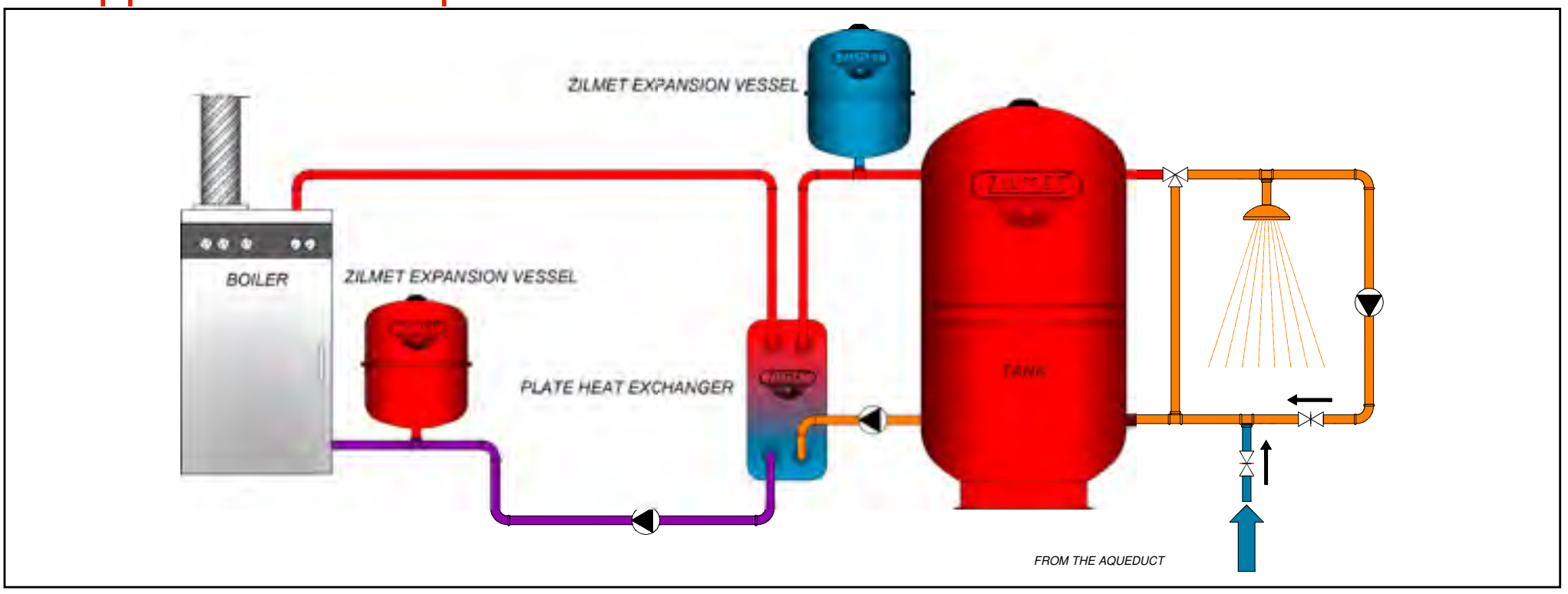
Quick Sizing Table

hot water production with tank

PRIMARY 176°F-158°F SECONDARY 138°F-156°F						
BTU/H	**MODEL**	**PLATES**	**Flow Rates**		**Pressure Drop**	
		Nr.	Gal/min		psi	
			primary	secondary	primary	secondary
80000	ZB 207	30	9.10	9.05	1	1
	Z2	13			1	2
120000	ZB 207	40	13.64	13.57	2	2
	Z2	19			1	2
160000	ZB 250	30	18.19	18.10	4	4
	Z2	23			2	2
200000	ZB 250	40	22.74	22.62	3	3
	Z2	29			2	2
240000	ZB 250	40	27.29	27.15	5	5
	Z2	33			2	2
320000	ZB 250	50	36.39	36.2	5	5
	Z2	43			2	2
400000	ZB450	40	45.48	45.25	4	4
	Z3	19			4	4
500000	ZB 450	50	56.85	56.56	4	4
	Z3	23			4	4
600000	ZB 450	60	68.22	67.87	4	4
	Z3	27			4	5
700000	ZB 450	80	79.60	79.18	3	3
	Z3	31			4	5
800000	ZB 450	80	90.97	90.49	4	4
	Z3	33			5	5
1000000	ZB 450	100	113.70	113.10	4	4
	Z3	41			5	5
1200000	ZB 450	120	136.40	135.70	4	4
	Z3	49			5	5
1400000	ZB 450	150	159.20	158.40	4	4
	Z3	57			5	5
1600000	ZB 450	150	181.9	181	5	5
	Z3	65			5	5
1800000	ZB 700	80	204.70	203.60	5	5
	Z3	73			5	5
2000000	ZB 700	100	227.40	226.20	4	4
	Z4	73			5	5
2400000	ZB 700	120	272.90	271.50	4	4
	Z4	87			5	5
2800000	ZB 700	120	318.40	316.70	5	5
	Z4	105			5	5
3200000	ZB 700	150	363.90	362.00	4	4
	Z4	117			5	5

EXAMPLES OF SIZING – ***for specific applications, please call us at 843.983.1000***

application example



ZB brazed plate heat exchangers
Z plate and frame heat exchangers

For the temperatures stated below, choose the Heat Capacity (Btu/h) and Flow Rate (Gal/min) for your application to define the proper Heat Exchanger Model and Number of Plates.

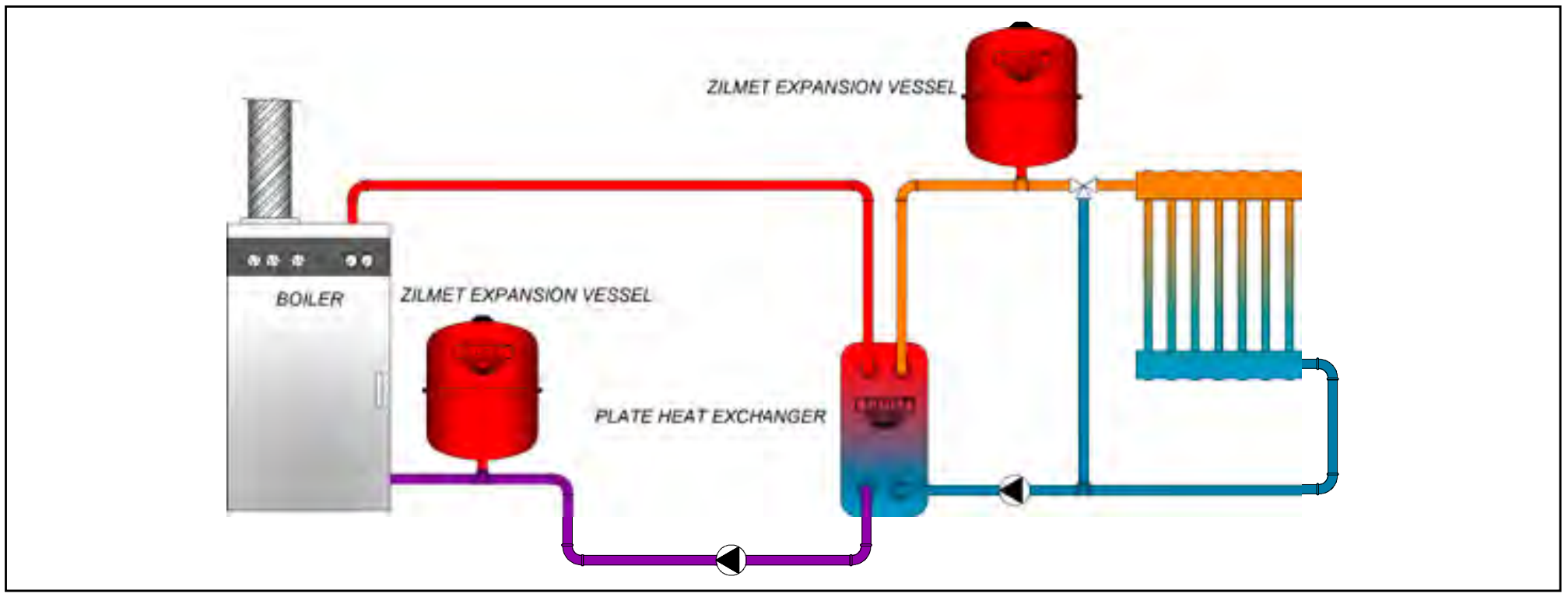
Quick Sizing Table

traditional boiler heating

PRIMARY.176°F-149°F SECONDARY.131°F-158°F						
BTU/H	**Model**	**Plates**	**Flow Rate**		**Pressure Drop**	
		Nr.	**Gal/min**		**psi**	
			Primary	Secondary	Primary	Secondary
80000	ZB 207	40	6.06	6.03	0	0
	Z2	15			1	1
120000	ZB 315	24	9.09	9.04	4	4
	Z2	23			0	1
160000	ZB 315	30	12.11	12.06	4	4
	Z2	29			1	1
200000	ZB 315	40	15.14	15.07	4	4
	Z2	35			1	1
240000	ZB 250	30	18.17	18.09	4	4
	Z2	41			1	1
320000	ZB 250	40	24.23	24.12	4	4
	Z2	53			1	1
400000	ZB250	50	30.29	30.14	4	4
	Z3	17			2	3
500000	ZB400	40	37.86	37.68	4	4
	Z3	19			3	3
600000	ZB 450	40	45.43	45.22	4	4
	Z3	23			3	3
700000	ZB 450	50	53.00	52.75	4	4
	Z3	27			3	3
800000	ZB 450	50	60.57	60.29	5	5
	Z3	29			3	3
1000000	ZB 450	60	75.72	75.36	5	5
	Z3	37			3	3
1200000	ZB 450	80	90.86	90.43	4	4
	Z3	43			3	3
1400000	ZB 450	100	106.00	105.50	4	4
	Z3	51			3	3
1600000	ZB 450	100	121.10	120.60	5	5
	Z3	57			3	3
1800000	ZB 450	120	136.30	135.60	4	4
	Z3	63			4	4
2000000	ZB 450	120	151.40	150.70	5	5
	Z3	69			4	4
2400000	ZB 450	150	181.70	180.90	5	5
	Z3	83			3	3
2800000	ZB 700	80	212.20	211.00	5	5
	Z4	69			5	5
3200000	ZB 700	100	242.50	241.20	4	4
	Z4	79			5	5

EXAMPLES OF SIZING – ***for specific applications, please contact us at 843.983.1000***

application example



ZB brazed plate heat exchangers
Z plate and frame heat exchangers

For the temperatures stated below, choose the Heat Capacity (Btu/h) and Flow Rate (Gal/min) for your application to define the proper Heat Exchanger Model and Number of Plates.

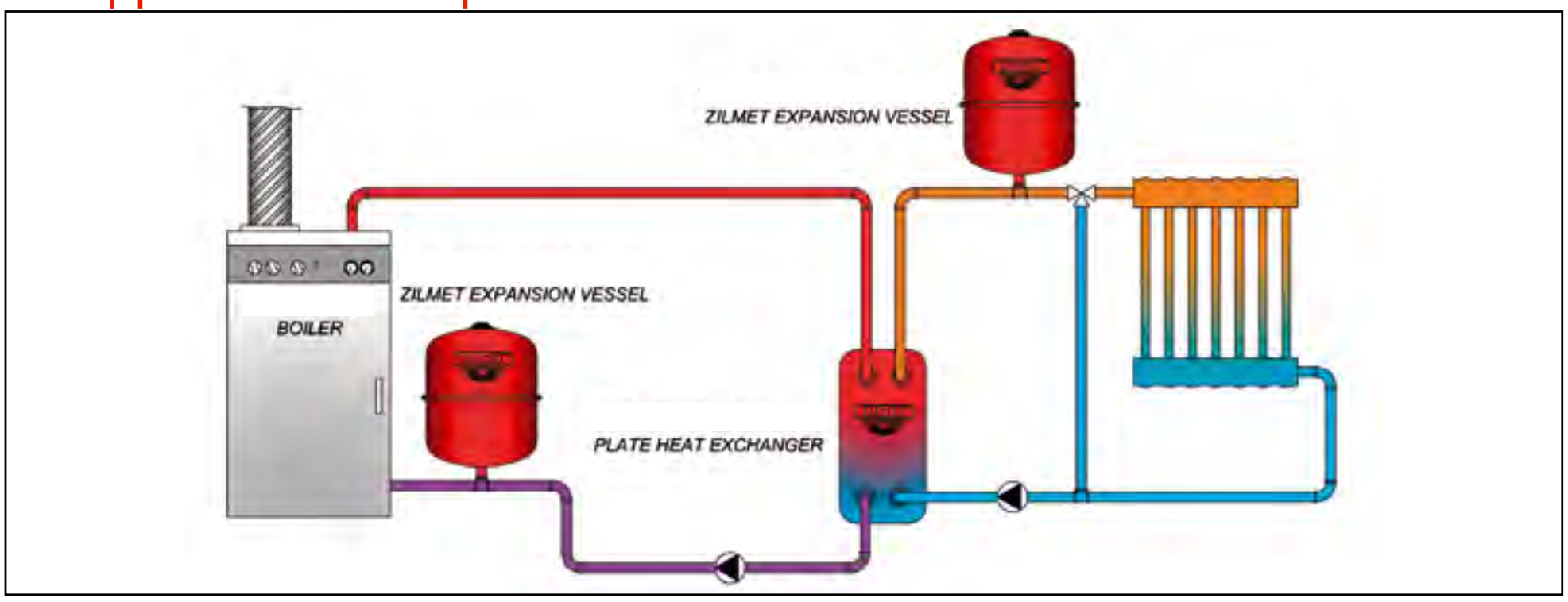
Quick Sizing Table

condensing boiler heating

PRIMARY 122°F-104°F SECONDARY 95°F-113°F						
Btu/h	Model	Plates	Flow Rate		Pressure Drop	
		NR.	Gal/min		psi	
			Primary	Secondary	Primary	Secondary
80000	ZB 315	40	8.98	8.96	1	1
	Z2	35			0	0
120000	ZB 500	30	13.47	13.44	4	4
	Z2	51			0	0
160000	ZB 500	40	17.96	17.93	4	4
	Z3	15			1	1
200000	ZB 500	50	22.45	22.41	4	4
	Z3	19			1	1
240000	ZB 500	60	26.94	26.89	4	4
	Z3	21			1	1
320000	ZB 500	80	35.92	35.85	4	4
	Z3	27			2	2
400000	ZB 400	60	44.90	44.81	3	3
	Z3	33			2	2
500000	ZB450	50	56.12	56.02	5	5
	Z3	39			2	2
600000	ZB 450	60	67.35	67.22	5	5
	Z3	47			2	2
700000	ZB 450	80	78.57	78.42	4	4
	Z3	55			2	2
800000	ZB 450	80	89.80	89.63	5	5
	Z3	61			2	2
1000000	ZB 450	100	112.20	112.00	5	5
	Z3	75			2	2
1200000	ZB 450	120	134.70	134.40	4	5
	Z3	91			2	2
1400000	ZB 450	150	157.10	156.80	4	4
	Z3	105			2	2
1600000	ZB 450	150	179.60	179.30	5	5
	Z3	119			3	3
1800000	ZB 700	100	202.00	201.70	3	3
	Z4	71			5	5
2000000	ZB 700	100	224.50	224.10	4	4
	Z4	79			5	5
2400000	ZB 700	150	269.40	268.90	3	3
	Z4	95			5	5
2800000	ZB 700	150	314.30	313.70	4	4
	Z4	109			5	5
3200000	ZB 700	200	359.20	358.50	3	3
	Z4	125			5	5

EXAMPLES OF SIZING – for *specific applications, please call us at 843.983.1000*

application example



Z plate and frame heat exchangers

For the temperatures stated below, choose the Heat Capacity (Btu/h) and Flow Rate (Gal/min) for your application to define the proper Heat Exchanger Model and Number of Plates.

Quick Sizing Table

pool heating

PRIMARY 158°F-122°F SECONDARY 77°F-104°F						
BTU/H	MODEL	PLATES	Flow Rate		Pressure Drop	
		NR.	Gal/min		psi	
			primary	secondary	primary	secondary
80000	Z2	7	4.52	5.96	2	3
120000	Z2	9	6.77	8.94	2	3
160000	Z2	11	9.03	11.92	2	4
200000	Z2	13	11.29	14.90	2	4
240000	Z2	15	13.55	17.88	2	4
320000	Z2	19	18.07	23.84	3	5
400000	Z2	25	22.58	29.80	2	4
500000	Z2	29	28.23	37.25	3	5
600000	Z3	19	33.87	44.70	3	5
700000	Z3	23	39.52	52.15	2	4
800000	Z3	25	45.16	59.60	3	5
1000000	Z3	29	56.45	74.50	3	5
1200000	Z3	35	67.74	89.40	3	5
1400000	Z3	41	79.03	104.3	3	5
1600000	Z3	45	90.33	119.2	3	5
1800000	Z3	51	101.60	134.10	3	5
2000000	Z3	57	112.90	149.00	3	5
2400000	Z3	67	135.50	178.80	3	5
2800000	Z4	73	158.10	208.60	3	5
3200000	Z4	83	180.70	238.40	3	5

EXAMPLES OF SIZING – for *specific applications, please call us at 843.983.1000*

Plate material is 316L stainless steel for chlorine applications.
For salt water pools, titanium plates are available upon request.

application example