

BRAZED PLATE HEAT EXCHANGER

HEATING | SELECTION TABLE

File No: 113.20
 Date: JULY 11, 2012
 Supersedes: 113.20
 Date: FEB. 20, 2012

RADIANT FLOOR HEATING						
DUTY BTU/HR	MODEL	BOILER SIDE WATER 180°F TO 160°F		RADIANT SIDE WATER 100°F TO 120°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABX030-10	2.6	1.7	2.6	1.2	H030010101
30,000	ABX030-10	3.1	2.3	3.0	1.6	H030010101
35,000	ABX030-10	3.6	3.1	3.5	2.1	H030010101
40,000	ABX030-10	4.1	4.0	4.0	2.7	H030010101
45,000	ABX030-10	4.6	5.0	4.5	3.4	H030010101
50,000	ABX030-10	5.2	6.3	5.0	4.3	H030010101
60,000	ABX030-10	6.2	8.8	6.1	6.0	H030010101
75,000	ABX030-20	7.7	3.3	7.6	2.8	H030020101
100,000	ABX030-20	10.3	5.6	10.1	4.9	H030020101
125,000	ABX030-20	12.9	8.7	12.6	7.5	H030020101
150,000	ABX030-30	15.5	6.7	15.2	6.2	H030030101
175,000	ABX030-30	18.0	8.9	17.7	8.3	H030030101
200,000	ABX030-40	20.6	8.6	20.2	8.3	H030040101
225,000	ABX030-50	23.2	9.4	22.7	9.2	H030050101
250,000	ABX050-40	25.8	7.9	25.2	7.4	H050040101
275,000	ABX050-40	28.3	9.5	27.8	8.8	H050040101
300,000	ABX050-50	30.9	7.6	30.3	7.2	H050050101
350,000	ABX050-60	36.1	7.6	35.3	7.4	H050060101
400,000	ABX050-60	51.2	9.8	40.4	9.5	H050060101
450,000	ABX050-70	46.4	9.9	45.4	9.7	H050070101
500,000	ABX050-90	51.5	9.0	50.5	8.9	H050090101
600,000	ABX205-50	61.8	7.7	60.6	7.3	H205050101
700,000	ABX205-60	72.1	7.7	70.7	7.4	H205060101
800,000	ABX205-60	82.4	10.0	80.8	9.6	H205060101
900,000	ABX205-80	92.7	8.4	90.9	8.2	H205080101
1,000,000	ABX205-90	103.0	9.0	101.0	8.8	H205090101
1,100,000	ABX205-100	113.3	9.6	111.1	9.5	H205100101
1,200,000	ABX205-120	123.6	9.6	121.2	9.5	H205120101
1,350,000	ABX205-160	139.1	9.8	136.3	9.8	H205160101

Notes:

Heat load based on 40 Btu/hr/sq.ft.

SNOW MELT

DUTY BTU/HR	MODEL	BOILER SIDE WATER 180°F TO 160°F		40% GLYCOL 100°F TO 130°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABX030-10	2.6	1.7	1.8	0.7	H030010101
30,000	ABX030-10	3.1	2.3	2.1	0.9	H030010101
35,000	ABX030-10	3.6	3.1	2.5	1.2	H030010101
40,000	ABX030-10	4.1	4.0	2.9	1.6	H030010101
45,000	ABX030-10	4.6	5.0	3.2	2.0	H030010101
50,000	ABX030-10	5.2	6.3	3.6	2.5	H030010101
60,000	ABX030-10	6.2	8.8	4.3	3.5	H030010101
75,000	ABX030-10	7.7	3.2	5.4	1.6	H030020101
100,000	ABX030-20	10.3	5.6	7.1	2.8	H030020101
125,000	ABX030-20	12.9	8.7	8.9	4.3	H030020101
150,000	ABX030-20	15.5	6.7	10.7	3.5	H030020101
175,000	ABX030-30	18.0	8.9	12.5	4.6	H030030101
200,000	ABX030-30	20.6	8.6	14.3	4.5	H030030101
225,000	ABX030-40	23.2	9.4	16.1	4.9	H030040101
250,000	ABX030-40	25.8	7.9	17.9	4.3	H030040101
275,000	ABX030-40	28.3	9.4	19.6	5.1	H030040101
300,000	ABX030-40	30.9	7.66	21.4	4.1	H030040101
350,000	ABX050-50	36	7.6	25	4.2	H050050101
400,000	ABX050-60	41.2	9.8	28.6	5.4	H050060101
450,000	ABX050-60	46.4	9.9	32.1	5.4	H050060101
500,000	ABX050-70	51.5	9.0	35.7	4.9	H050070101
600,000	ABX050-90	61.8	7.7	42.9	4.0	H050090101
700,000	ABX205-50	72.1	7.7	50.0	4.0	H205050101
800,000	ABX205-60	82.4	10.0	57.4	5.3	H205060101
900,000	ABX205-80	92.7	8.4	64.3	4.4	H205080101
1,000,000	ABX205-90	103.0	8.9	71.4	4.7	H205090101
1,100,000	ABX205-100	113.3	9.6	78.6	5.1	H205100101
1,200,000	ABX205-120	123.6	9.6	85.7	5.1	H205120101
1,350,000	ABX205-160	139.1	9.8	96.4	5.1	H205160101

Notes:

Heat load based on 125 Btu/hr/sq.ft.

BRAZED PLATE HEAT EXCHANGER

DOMESTIC WATER HEATING | SELECTION TABLE

BOILER WATER HEAT SOURCE						
DUTY BTU/HR	MODEL	BOILER SIDE WATER 180°F TO 130°F		DOMESTIC WATER 50°F TO 140°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABX030-10	1.0	0.3	0.6	0.1	H030010101
30,000	ABX030-10	1.2	0.4	0.7	0.1	H030010101
35,000	ABX030-10	1.4	0.5	0.8	0.1	H030010101
40,000	ABX030-10	1.7	0.8	0.9	0.2	H030010101
45,000	ABX030-10	1.9	1.1	1.0	0.9	H030010101
50,000	ABX030-20	2.1	0.3	1.1	0.1	H030020101
60,000	ABX030-20	2.5	0.4	1.3	0.1	H030020101
75,000	ABX030-20	3.1	0.6	1.7	0.2	H030020101
100,000	ABX030-20	4.1	1.0	2.2	0.3	H030020101
125,000	ABX030-30	5.2	0.8	2.8	0.2	H030030101
150,000	ABX030-30	6.2	1.1	3.3	0.3	H030030101
175,000	ABX030-30	7.2	1.5	3.9	0.5	H030030101
200,000	ABX030-40	8.3	1.5	4.4	0.4	H030040101
225,000	ABX030-40	9.3	1.8	5.0	0.6	H030040101
250,000	ABX030-40	10.3	2.2	5.6	0.7	H030040101
275,000	ABX030-50	11.4	2.3	6.1	0.7	H030050101
300,000	ABX030-50	12.4	2.7	6.7	0.8	H030050101
350,000	ABX030-60	14.4	3.3	7.8	1.0	H030060101
400,000	ABX030-60	16.5	4.4	8.9	1.3	H030060101
450,000	ABX050-30	18.6	7.3	10	2.2	H050030101
500,000	ABX050-30	20.6	8.9	11.1	2.6	H050030101
600,000	ABX050-40	24.8	7.4	13.3	2.3	H050040101
700,000	ABX050-40	28.9	9.9	15.6	3.0	H050040101
800,000	ABX050-50	33.0	8.6	17.8	2.7	H050050101
900,000	ABX050-60	37.1	8.1	20.0	2.5	H050060101
1,000,000	ABX050-60	41.3	9.9	22.2	3.1	H050060101
1,100,000	ABX050-70	45.4	9.5	24.4	3.0	H050070101
1,200,000	ABX050-80	49.5	9.5	26.7	3.0	H050080101
1,350,000	ABX050-100	55.7	9.4	30.0	3.0	H050100101
1,500,000	ABX205-50	61.9	7.2	33.3	2.3	H205050101

Notes:

Units listed above are single wall; if double wall is required use ABD models.

SOLAR PANEL HEAT SOURCE

DUTY BTU/HR	MODEL	SOLAR PANEL WATER 140°F TO 100°F		DOMESTIC WATER 50°F TO 120°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABx030-20	1.3	0.1	0.7	0.1	H030020101
30,000	ABx030-20	1.5	0.2	0.9	0.1	H030020101
35,000	ABx030-30	1.8	0.1	1.0	0.1	H030030101
40,000	ABx030-30	2.0	0.1	1.1	0.1	H030030101
45,000	ABx030-30	2.3	0.2	1.3	0.1	H030030101
50,000	ABx030-30	2.5	0.2	1.4	0.1	H030030101
60,000	ABx030-40	3.0	0.2	1.7	0.1	H030040101
75,000	ABx030-50	3.8	0.3	2.1	0.1	H030050101
100,000	ABx030-60	5.0	0.4	2.9	0.1	H030060101
125,000	ABx050-20	6.3	2.2	3.6	0.6	H050020101
150,000	ABx050-20	7.5	3.0	4.3	0.9	H050020101
175,000	ABx050-30	8.8	1.9	5.0	0.6	H050030101
200,000	ABx050-30	10.0	2.3	5.7	0.7	H050030101
225,000	ABx050-30	11.3	2.9	6.4	0.9	H050030101
250,000	ABx050-40	12.5	2.1	7.1	0.7	H050040101
275,000	ABx050-40	13.8	2.5	7.9	0.8	H050040101
300,000	ABx050-40	15.0	3.0	8.6	1.0	H050040101
350,000	ABx050-50	17.5	2.7	10.0	0.9	H050050101
400,000	ABx050-50	20.0	3.4	11.4	1.1	H050050101
450,000	ABx050-60	22.5	3.2	12.9	1.1	H050060101
500,000	ABx050-60	25.0	3.9	14.3	1.3	H050060101
600,000	ABx050-70	30.0	4.4	17.1	1.5	H050070101
700,000	ABx050-80	35.0	5.0	20.0	1.7	H050080101
800,000	ABx050-90	40.0	5.7	22.9	1.9	H050090101
900,000	ABx050-100	45.0	6.4	25.8	2.1	H050100101
1,000,000	ABx095-100	50.0	9.7	28.6	3.3	H095100101
1,100,000	ABx095-120	55.0	9.6	31.4	3.3	H095120101
1,200,000	ABx205-50	60.0	7.5	34.3	2.4	H205050101
1,350,000	ABx205-50	67.5	9.5	38.6	3.0	H205050101
1,500,000	ABx205-60	75.0	8.6	42.9	2.8	H205060101

Notes:

Units listed above are single wall; if double wall is required use ABD models.

BRAZED PLATE HEAT EXCHANGER

DOMESTIC WATER HEATING WITH DOUBLE WALL | SELECTION TABLE

BOILER WATER HEAT SOURCE						
DUTY BTU/HR	MODEL	BOILER SIDE WATER 180°F TO 130°F		DOMESTIC WATER 50°F TO 140°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABD55-10	1.0	0.3	0.6	0.1	H055010101
30,000	ABD55-10	1.2	0.4	0.7	0.1	H055010101
35,000	ABD55-10	1.4	0.5	0.8	0.1	H055010101
40,000	ABD55-10	1.7	0.6	0.9	0.1	H055010101
45,000	ABD55-10	1.9	0.8	1.0	0.2	H055010101
50,000	ABD55-10	2.1	1.0	1.1	0.2	H055010101
60,000	ABD55-10	2.5	1.4	1.3	0.3	H055010101
75,000	ABD55-10	3.1	2.1	1.7	0.5	H055010101
100,000	ABD55-10	4.1	3.6	2.2	0.8	H055010101
125,000	ABD55-10	5.2	5.5	2.8	1.2	H055010101
150,000	ABD55-10	6.2	7.7	3.3	1.7	H055010101
175,000	ABD55-20	7.2	2.2	3.9	0.6	H055020101
200,000	ABD55-20	8.3	2.9	4.4	0.8	H055020101
225,000	ABD55-20	9.3	3.6	5.0	1.0	H055020101
250,000	ABD55-20	10.3	4.5	5.6	1.3	H055020101
275,000	ABD55-20	11.4	5.4	6.1	1.5	H055020101
300,000	ABD55-20	12.4	6.3	6.7	1.8	H055020101
350,000	ABD55-20	14.4	8.5	7.8	2.4	H055020101
400,000	ABD55-40	16.5	5.0	8.9	1.5	H055040101
450,000	ABD55-40	18.6	5.2	10	1.6	H055040101
500,000	ABD55-40	20.6	5.7	11.1	2.0	H055040101
600,000	ABD55-40	24.8	6.6	13.3	1.7	H055040101
700,000	ABD100-60	28.9	4.6	15.6	1.8	H100060101
800,000	ABD100-60	33.0	4.6	17.8	1.8	H100060101
900,000	ABD100-60	37.1	6.3	20.0	2.3	H100060101
1,000,000	ABD100-60	41.3	7.3	22.2	2.0	H100060101
1,100,000	ABD100-80	45.4	8.8	24.4	2.5	H100080101
1,200,000	ABD100-60	49.5	6.0	26.7	2.2	H100060101
1,350,000	ABD100-60	55.7	8.2	30.0	2.3	H100060101
1,500,000	ABD100-100	61.9	5.8	33.3	2.0	H100100101

Notes:

Units are double wall construction.

SOLAR PANEL HEAT SOURCE						
DUTY BTU/HR	MODEL	SOLAR PANEL WATER 140°F TO 100°F		DOMESTIC WATER 50°F TO 120°F		PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi	
25,000	ABD55-10	1.3	0.1	0.7	0.1	H055010101
30,000	ABD55-10	1.5	0.6	0.9	0.1	H055010101
35,000	ABD55-10	1.8	0.8	1.0	0.2	H055010101
40,000	ABD55-10	2.0	1.0	1.1	0.2	H055010101
45,000	ABD55-10	2.3	1.2	1.3	0.3	H055010101
50,000	ABD55-10	2.5	1.5	1.4	0.3	H055010101
60,000	ABD55-10	3.0	2.1	1.7	0.5	H055010101
75,000	ABD55-20	3.8	0.7	2.1	0.2	H055020101
100,000	ABD55-20	5.0	1.2	2.9	0.4	H055020101
125,000	ABD55-20	6.3	1.9	3.6	0.5	H055020101
150,000	ABD55-20	7.5	2.6	4.3	0.8	H055020101
175,000	ABD55-40	8.8	1.3	5.0	0.4	H055040101
200,000	ABD55-40	10.0	2.8	5.7	0.6	H055040101
225,000	ABD55-40	11.3	2.3	6.4	0.7	H055040101
250,000	ABD55-40	12.5	2.9	7.1	0.9	H055040101
275,000	ABD55-40	13.8	2.3	7.9	0.7	H055040101
300,000	ABD55-40	15.0	2.7	8.6	0.9	H055040101
350,000	ABD55-40	17.5	3.7	10.0	1.2	H055040101
400,000	ABD55-40	20.0	9.0	11.4	2.3	H055040101
450,000	ABD100-60	22.5	3.9	12.9	1.2	H010060101
500,000	ABD100-60	25.0	3.8	14.3	1.1	H010060101
600,000	ABD100-60	30.0	8.7	17.1	2.7	H010060101
700,000	ABD100-60	35.0	7.7	20.0	2.3	H010060101
800,000	ABD100-60	40.0	7.5	22.9	2.5	H010060101
900,000	ABD100-60	45.0	9.4	25.8	3.1	H010060101
1,000,000	ABD100-100	50.0	8.0	28.6	2.2	H100100101
1,100,000	ABD100-100	55.0	7.8	31.4	2.3	H100100101
1,200,000	ABD100-100	60.0	8.3	34.3	2.5	H100100101
1,350,000	ABD100-100	67.5	9.3	38.6	3.1	H100100101
1,500,000	ABD100-100	75.0	11.0	42.9	3.9	H100100101

Notes:

Units are double wall construction.

BRAZED PLATE HEAT EXCHANGER

SWIMMING POOL HEATING | SELECTION TABLE

SWIMMING POOL HEATING							
POOL SIZE GALLONS	MODEL	BOILER SIDE WATER 180°F TO 130°F		POOL WATER 100°F TO 120°F		DUTY BTU/HR	PART NO
		WATER FLOW GPM	PRESS DROP psi	WATER FLOW GPM	PRESS DROP psi		
5,000	ABX030-10	2.6	1.7	2.6	1.2	85,000	H030010101
10,000	ABX030-20	3.1	2.3	3.0	1.6	170,000	H030020101
15,000	ABX030-20	3.6	3.1	3.5	2.1	255,000	H030020101
20,000	ABX030-30	4.1	4.0	4.0	2.7	340,000	H030030101
25,000	ABX030-50	4.6	5.0	4.5	3.4	425,000	H030050101
30,000	ABX050-40	5.2	6.3	5.0	4.3	510,000	H050040101
35,000	ABX050-50	6.2	8.8	6.1	6.0	595,000	H050050101
40,000	ABX050-60	7.7	3.3	7.6	2.8	680,000	H050060101
50,000	ABX050-80	10.3	5.6	10.1	4.9	850,000	H050080101
60,000	ABX050-100	12.9	8.7	12.6	7.5	1,020,000	H050100101
70,000	ABX205-50	15.5	6.7	15.2	6.2	1,190,000	H205050101
80,000	ABX205-60	18.0	8.9	17.7	8.3	1,360,000	H205060101
90,000	ABX205-70	20.6	8.6	20.2	8.3	1,530,000	H205070101
100,000	ABX205-80	23.2	9.4	22.7	9.2	1,700,000	H205080101

Notes:

- 1 Heat load based on 17 Btu/hr/gallon
- 2 Heat exchanger raises pool 2°F per hour to maintain 80°F pool temperature.
- 3 Pool flow to heat exchanger may be less than normal recirculation rate.
- 4 Pool water may corrode 316LSS plates. If corrosion may be expected chose NIMo SS corrosion resistant stainless steel plates.

TORONTO

+416 755 2291

BUFFALO

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