

STEAM BTU/hour

P.D.* with 10 PSI Inlet	3.5 C _v 1-1/4" Valves	2.74 C _v 1" Valves	2.5 C _v 3/4" Valves	1.8 C _v 1/2" Valves
1 psi	48,000	39,000	36,000	28,000
3 psi	87,000	70,000	65,000	46,000
5 psi	113,000	91,000	84,000	63,000
7 psi	130,000	104,000	96,000	72,000
10 psi	162,000	130,000	120,000	90,000

*P.D. = Pressure Drop

Capacity measured with 10 psi inlet pressure.

EDR = Equivalent Direct Radiation (in ft.²)

$$\text{EDR} = \frac{\text{BTU/hr}}{240} \quad \text{BTU/hr} = 240 \times \text{EDR}$$

BTU/hour = lbs. steam/hour x 1000

HOT WATER BTU/hour**

** Pressure Drop Ft.	P.D. PSI	3.5 C _v 1-1/4" Valves	2.74 C _v 1" Valves	2.5 C _v 3/4" Valves	1.8 C _v 1/2" Valves
1	.43	21,000	17,000	16,500	12,000
2	.87	28,000	23,000	22,000	15,500
4	1.7	44,000	35,000	32,500	23,500
6	2.6	53,000	43,000	40,000	29,000
8	3.5	64,000	51,000	47,000	33,500
10	4.3	70,000	56,000	52,000	37,500
12	5.2	77,000	62,000	57,000	41,000
14	6.1	83,000	67,000	62,000	44,500
16	7.0	88,000	71,000	66,000	47,500

** Assumes 20°F drop in water temperature through radiation.

GPM = C_v $\sqrt{P.D.}$ 1psi = 2.31 Ft. H₂O

BTU/hour = GPM x 10,000 1Ft. H₂O = .433 psi

EDR (Equivalent Direct Radiation in ft.²) for Hot Water

Water Temperature	Cast Iron Radiator	Convactor
200°F	209	205
190°F	187	183

BTU/hour = EDR in ft.² x (Appropriate number from above EDR Table)

For example: 205 for 200°F water in convactor



COMPARISON CHART

Description	MACON	Ammark		Bell & Gossett (ITT)	Honeywell Braukmann	Honeywell Sparco/ Braukamnn	Danfoss RA 2000	Taco	
		Old (SYR)	New					Series 53 (Old)	Series 54 (New)
½" Vertical Angle	N10637	70	60	TM12-50	V110E1004	V100E1055/5030	013G8014	5323	5423
½" Horizontal Angle	N10837	77	67	TM42-50	V110F1002	V100F1054	013G8013	5322	5422
½" Straight	N10737	71	61	TM21-50	V110D1000	V100D1056/5057	013G8015	5321	5421
½" Sweat	N10930	-	-	-	-	V100G5054	013G8042	-	5424
¾" Vertical Angle	N10657	70	60	TM12-75	V110E1012	V100E1063	013G8019	5333	5433
¾" Horizontal Angle	N10857	77	67	TM42-75	V110F1010	V100F1062	013G8018	5332	5432
¾" Straight	N10757	71	61	TM21-75	V110D1008	V100D1008	013G8020	5331	5431
¾" Sweat	N10950	-	-	-	-	V100G5062	013G8044	-	5434
1" Vertical Angle	N10677	70	60	TM12-100	V110E1020	V100E1071	013G8024	-	5443
1" Horizontal Angle	N10877	77	67	TM42-100	V110F1018	V100F1070	013G8023	-	5442
1" Straight	N10777	71	61	TM21-100	V110D1016	V100D1072	013G8025	-	5441
1" Sweat	N10970	-	-	-	-	-	-	-	5444
1¼" Vertical Angle	N10697	70	60	-	V110E1028	-	013G8031	-	5453
1¼" Horizontal Angle	N10897	77	67	-	V110F1026	-	013G8030	-	5452
1¼" Straight	N10797	71	61	-	V110D1024	-	013G8032	-	5451
Direct Mount T-Stat	EVO	72	62	TM5	T104A1018/1040	T100A1028/1018	013G8250	5201	5401
Remote Sensor T-Stat	EVO-Z	73	63	TM6	T104F1021/1512	T100F1395/1021	013G8252	5203	5403
Remote Dial T-Stat	ENTL B46000	76	66	TM9	T104B1019/1038	T100B1035/1387	013G8562	5206	5406
Remote Sensor & Dial	ENTLZ B56000	74	-	-	T104C1015/1036	T100C1026/1015	013G8564	5211	5411
One Pipe Steam Valve	OPSK	-	-	TM1PS	Y108P	Y100P	013G0140	5213	5413

						
	EVO*	MTW-HS*	EVO-Z	ENTL B46000	ENTLZ B56000	VA & VM
 Vertical Angle	Not recommended (may shut off prematurely due to poor air circulation)	Yes	Yes	Yes	Yes	Yes
 Straight	Yes, if thermostat is mounted inverted or horizontal	Yes	Yes	Yes	Yes	Yes
 Horizontal Angle	Yes	Yes	Yes	Yes	Yes	Yes
 Sweat	Yes, if thermostat is mounted inverted or horizontal	Yes	Yes	Yes	Yes	Yes

*Not recommended within enclosure.



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We reserve the right to alter designs, specifications and information without notice.

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Section: Valves