










SPACE HEATING APPLICATIONS - Series 44 System

Series 44 Basic System				Options	
Valves	Amplifier	Selectrastat	Discharge Temp. Sensor	Space Temperature Selector	Space Temperature Sensor
M411, M511, M611, MR212D, E, G, or J (see pg. 4)	A1044, A1044U	T244	TS144 / MT1 or 2	TD244	TS244

NOTE: Selector and sensor must have the same temperature range to be compatible.

SYSTEM COMPONENTS

Amplifiers		Valves	
 <p>A1044U</p>	<p>A1044U (replaces all A1044L1, suitable replacement for A1044 [C,D,E,H]) (includes 0, 10, or 20 second low fire start capability.) A1044UF (replacement for A1044FL1) A1044UG (replacement for A1044G[L1])</p>		<p><i>Pipe Sizes:</i> M411.....3/8" & 1/2" M511.....1/2" & 3/4" M611.....3/4" & 1" MR212D.....1", 1-1/4", 1-1/2" MR212E.....1-1/2" & 2" MR212G.....2-1/2" & 3" MR212J.....4" Flanged MR212-2D, E, G, J(used for 2-speed blower or dual fuel operation)</p>
 <p>A1044 Amplifier</p>	<p>A1044 (min. 40° to 80°F / max. 80° to 140°F) A1044C (min. 20° to 60°F / max. 80° to 140°F) A1044D (min. 20° to 60°F / max. 35° to 75°F) A1044E (min. 20° to 60°F / max. 60° to 120°F) A1044G (min. 40° to 80°F / max. 160° to 210°F) A1044H (min. 40° to 80°F / max. 100° to 160°F)</p> <p>NOTE: Amplifier and Discharge Temperature Sensor must have same temperature range to be compatible.</p>		<p>NOTE: M (Modulator) valve requires a pressure regulator for high fire setting. MR (Modulator-Regulator) valve requires no pressure regulator up to 5 psi. (See Bulletin MMR_MT_EN).</p>
Discharge Temperature Sensors: use with Mixing Tube		Selectrastat (Senses and Selects)	
	<p>Sensors compatible with A1044U: TS144 (min. 40° to 80°F / max. 80° to 140°F) TS144C (min. 20° to 60°F / max. 80° to 140°F) TS144D (min. 20° to 60°F / max. 35° to 75°F) TS144E (min. 20° to 60°F / max. 60° to 120°F) TS144H (min. 40° to 80°F / max. 100° to 160°F)</p> <p>Sensors compatible with A1044UF: TS144F (min. 40° to 80°F / max. 60° to 95°F)</p> <p>Sensors compatible with A1044UG: TS144G (min. 40° to 80°F / max. 160° to 210°F)</p>		<p>T244 (55° to 90°F) T244A (40° to 80°F) or optional pair to replace Selectrastat</p>
Mixing Tubes: used with sensors		Space Temperature Selector	
	<p><i>Lengths:</i> MT1-9 or 2-9.....9" MT1-12 or 2-12.....12" MT1-23 or 2-23.....23" MT1-28 or 2-28.....28" MT1-57.....57"</p>		<p>TD244 (wall mount 55° to 90°F) TD244A (wall mount 40° to 80°F) TD244P (panel mount 55° to 90°F) TD244AP (panel mount 40° to 80°F)</p>
		Space Temperature Sensor	
			<p>TS244 (55° to 90°F) TS244A (40° to 80°F)</p> <p>NOTE: Space Temperature Selector and Space Temperature Sensor must have same temperature range to be compatible.</p>

DIMENSIONS: inches(millimeters)

M/MR Valves					
Model Number	Swing Radius	Call-Outs			
		A	B	C	D
M411	3.1 (79)	3.9 (100)	2 (51)	2.1 (54)	.9 (24)
M511	4.3 (109)	5.3 (135)	3.25 (83)	3.4 (86)	1.2 (30)
M611	7.2 (183)	7.4 (188)	3.9 (99)	4 (102)	1.5 (37)
MR212D	8.1 (206)	10.2 (259)	7 (178)	5.5 (140)	2.3 (59)
MR212E	8.6 (218)	11.25 (286)	9.1 (232)	8 (203)	3 (76)
MR212G	10.4 (264)	14.75 (375)	13.5 (343)	11.75 (298)	4.6 (118)
MR212J*	—	24 (610)	21.5 (546)	13.9 (352)	5.9 (149)

NOTE: Dimensions are to be used only as an aid in designing clearance. Actual production dimensions may vary somewhat from those shown

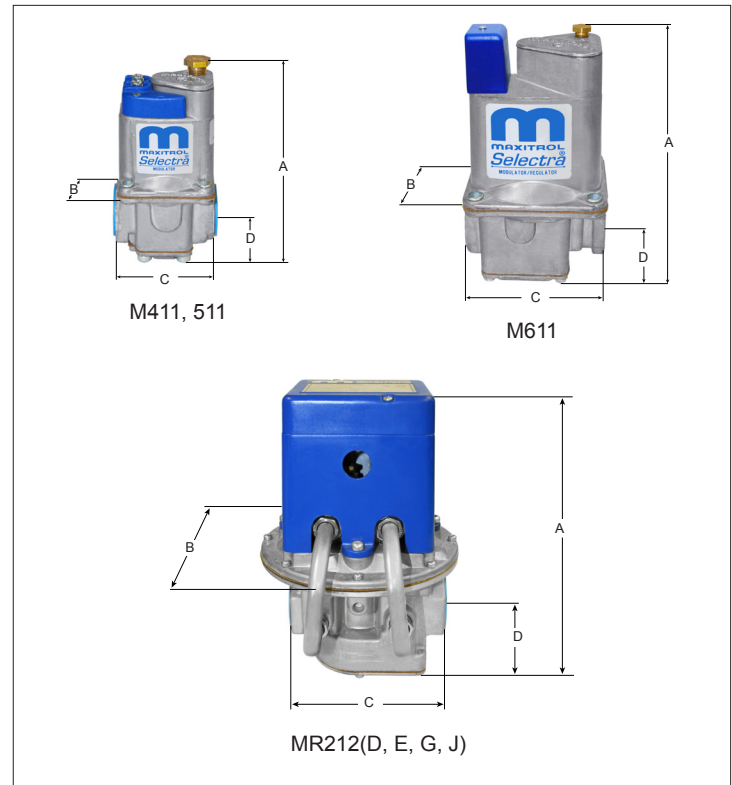


Figure 2: M/MR Valve Call-Outs

Series 14 System	
Model Number	Dimensions
A1014R Amplifier	4.51" (115) x 2.62" (67) x 1.34" (34)
AD1214 Dual Temp. Amplifier-Selector	5.75" (146) x 2.62 (67) x 1.34" (34)
TD114 Remote Temp. Selector	2.62" (67) x 3" (76) x 1.75" (44)
T115 Override Stat	2.96" (75) x 4.69" (119) x 2.56" (65)
ETD- 1 (opt. TD114 enclosure), MT1 Mixing Tube encl. (for sensor)	4.19" (106) x 4.19" (106) x 1.88" (48) <i>Tube lengths:</i> 9" (229), 12" (305), 23" (584), 28" (711), 57" (1448)
MT2 Mixing Tube enclosure (for sensor)	2.19" (56) x 4.19" (106) x 1.88" (48) <i>Tube lengths:</i> 9" (229), 12" (305), 23" (584), 28" (711)

Series 44 System	
Model Number	Dimensions
A1044 Amplifier	5.75" (146) x 2.62" (67) x 1.34" (34)
A1044U Amplifier	6" (152) x 3.38" (86) x 2" (51)
T244 Selectrastat	2.56" (65) x 4.5" (114) x 1.79" (46)
TD244 Space Temp. Selector	2.56" (65) x 4.5" (114) x 1.79" (46)
TS244 Space Temp. Sensor	2.56" (65) x 4.5" (114) x 1.53" (39)
MT1 Mixing Tube enclosure (for TS144 sensor)	19" (106) x 4.19" (106) x 1.88" (48) <i>Tube lengths:</i> 9" (229), 12" (305), 23" (584), 28" (711), 57" (1448)
MT2 Mixing Tube enclosure (for TS144 sensor)	2.19" (56) x 4.19" (106) x 1.88" (48) <i>Tube lengths:</i> 9" (229), 12" (305), 23" (584), 28" (711)

NOTE: Dimensions are to be used only as an aid in designing clearance. Actual production dimensions may vary somewhat from those shown

VALVE PRESSURE

M411, M511, M611 - CSA tested for 1/2 psi inlet pressure, Maxitrol tested for 1 psi maximum operating inlet pressure.

MR212D, E, G, J - CSA rated for 5 psi inlet pressure, Maxitrol tested for 5 psi maximum operating inlet pressure.

See Bulletin MMR_MT_EN for additional valve information.