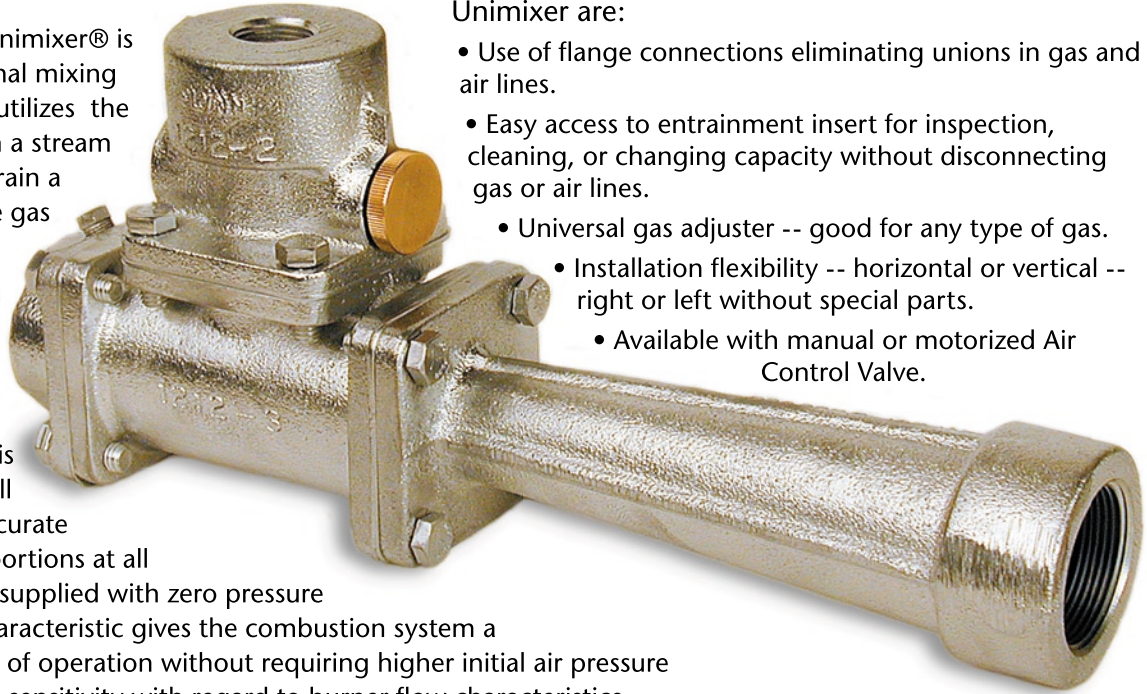


Unimixer®

Description

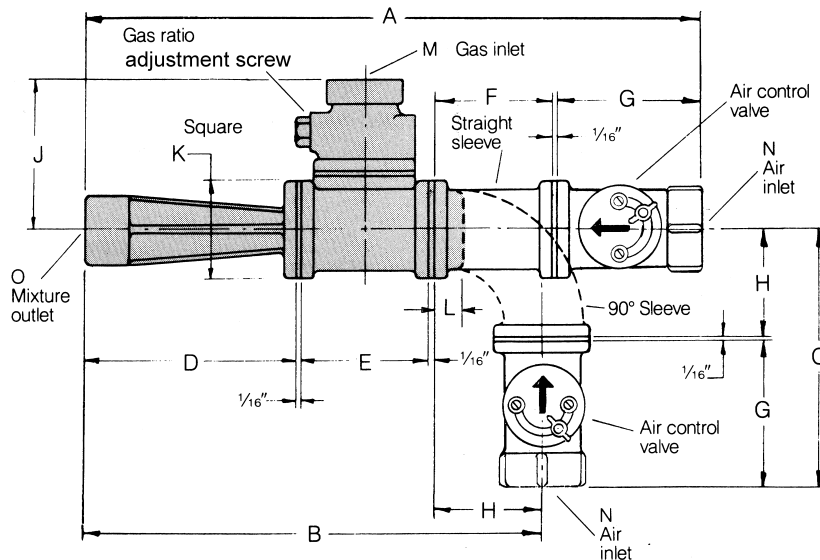
The Flynn Unimixer® is a proportional mixing device that utilizes the energy from a stream of air to entrain a combustible gas and delivers the mixture to the burners. Because of refinements in design this Unimixer will maintain accurate gas-air proportions at all flows when supplied with zero pressure gas. This characteristic gives the combustion system a wider range of operation without requiring higher initial air pressure and reduces sensitivity with regard to burner flow characteristics.



Some Advantages Incorporated in the Design of the Unimixer are:

- Use of flange connections eliminating unions in gas and air lines.
- Easy access to entrainment insert for inspection, cleaning, or changing capacity without disconnecting gas or air lines.
- Universal gas adjuster -- good for any type of gas.
- Installation flexibility -- horizontal or vertical -- right or left without special parts.
- Available with manual or motorized Air Control Valve.

Dimensions



Dimensions in inches

DP No.	Mixer	A	B	C	D	E	F	G	H	J	K	L	M Gas Inlet	N Air Inlet	O Mixture Outlet
093500	88	14-3/16	10-1/2	5-15/16	4-7/8	3	2-3/4	3-3/8	2-1/2	3-1/2	2-5/16	11/16	3/4	1	1
094000	810	16-15/16	13-1/4	6-3/16	7-5/8	3	2-3/4	3-3/8	2-1/2	3-1/2	2-5/16	11/16	3/4	1	1-1/4
094500	1212	21-15/16	16-7/8	7-9/16	8-1/4	4-1/2	5-1/2	3-1/2	4	4-5/16	3	3/4	3/4	1-1/2	1-1/2
095000	1616	25-3/8	20-1/8	8-3/4	9-7/8	5-1/8	6-1/2	3-11/16	5-7/16	3-7/8	3-7/16	1	1	2	2
095500	2420	32-1/16	26-1/8	10-7/16	14	6	7-1/2	4-3/8	6	6-9/16	4-3/8	1-1/2	1-1/2	3	3

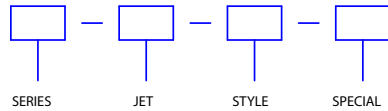
Unimixer®

Capacities at Various Pressures BTU/hr x 1000

Unimixer No.	2 oz.	4 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	24 oz.	28 oz.	32 oz.
88-10	25	39	54	63	68	75	82	87	89	94
88-11	31	46	67	74	78	90	99	105	108	114
88-12	47	68	97	108	118	130	140	151	157	164
88-13	58	75	108	118	126	140	154	165	172	183
88-14	75	82	114	126	130	151	164	180	189	210
88-15	85	92	126	140	151	172	189	210	222	236
88-16	95	116	150	171	180	200	225	240	257	277
88-17	102	135	180	199	222	252	270	291	315	344
810-10	26	40	60	70	77	90	102	114	125	138
810-11	35	51	73	81	85	110	125	138	152	160
810-12	49	70	100	110	122	135	150	165	180	190
810-13	60	76	110	120	135	145	164	180	195	210
810-14	76	85	120	136	155	175	195	208	220	235
810-15	86	100	151	173	190	220	240	256	270	280
810-16	96	125	185	210	230	260	285	308	325	333
810-17	104	160	230	252	275	305	330	357	380	400
1212-18	100	145	200	220	235	265	290	320	345	372
1212-19	125	172	235	255	275	305	340	375	405	437
1212-20	150	200	261	285	310	345	385	425	462	500
1212-21	170	220	293	316	340	383	430	470	516	560
1212-22	190	245	320	350	378	430	480	530	580	630
1212-23	210	265	343	375	410	470	540	600	665	730
1212-24	225	290	380	420	460	535	612	690	770	840
1212-25	280	340	445	490	530	603	680	750	825	900
1616-24	214	303	429	479	525	606	678	742	802	857
1616-25	233	329	465	520	570	658	735	805	870	930
1616-26	251	356	503	562	616	711	795	871	941	1006
1616-27	271	384	542	606	664	767	858	939	1015	1085
1616-28	292	412	583	652	714	825	922	1010	1091	1167
1616-29	313	442	626	700	766	885	989	1084	1171	1251
1616-30	335	474	670	749	820	947	1059	1160	1253	1339
1616-31	358	506	715	799	876	1011	1131	1238	1338	1430
1616-32	381	539	762	852	933	1077	1205	1320	1425	1524
1616-33	405	573	810	906	992	1146	1281	1403	1516	1621
2420-32	400	566	800	894	980	1131	1265	1386	1497	1600
2420-33	425	602	851	951	1042	1203	1345	1474	1592	1702
2420-34	452	639	903	1010	1106	1277	1428	1564	1690	1806
2420-35	479	677	957	1070	1172	1353	1513	1658	1790	1914
2420-36	506	716	1012	1132	1240	1432	1601	1754	1894	2025
2420-37	535	756	1070	1196	1310	1513	1691	1852	2001	2139
2420-38	564	798	1128	1261	1382	1595	1784	1954	2111	2256
2420-39	594	840	1188	1329	1455	1680	1879	2058	2223	2377
2420-40	625	884	1250	1398	1531	1768	1968	2165	2339	2500

!! Last Two Digits of Unimixer No. Denotes Air Jet Size

CATALOG NUMBER



PARTS DESCRIPTION

PART NAME	PATTERN #	RAW CASTING DWG. #	RAW CASTING D.P. #	MACH. CASTING DWG. #	MACH. CASTING D.P. #	Q	U	A	N	T	I	T	Y
MIXTURE OUTLET A	888-1	1478J 1/4	106110	10169	084080	1		1		1		1	
	810-1	1479E	106250	10170	084110	1		1		1		1	
	1212-1	3274C 1/6	107210	10171	084150		1		1		1		1
	1616-1	4773B 1/3	107710	10172	084220		1		1		1		1
	2420-1	5395 1/3	108000	10173	084270		1		1		1		1
RATIO VALVE BODY B	888-2	1478J 2/4	106120	10168-A	084090	1	1		1	1		1	1
	1212-2	3274C 2/6	107220	10179	084160		1		1		1		1
	1616-2	4773B 2/3	107720	10163	084225		1		1		1		1
AIR JET BODY C	2420-5	5396A 2/2	108040	10164	084283		1		1		1		1
	888-3	1478J 3/4	106130	10167	084100	1	1		1	1		1	1
	1212-3	3274C 3/6	107230	10187	084170		1		1		1		1
	1616-3	4773B 3/3	107730	10165	084230		1		1		1		1
STRAIGHT AIR SLEEVE D	2420-4	5396A 1/2	108030	10174	084282		1		1		1		1
	888-5	1478J 4/4	106150	10166	084095		1	1		1		1	
	1212-5	3274C 5/6	107250	10175	084190		1		1		1		1
	1616-5	4774B 2/3	107750	10176	084250		1		1		1		1
90° ELBOW E	2420-2	5395 2/3	108010	10177	084280			1			1		1
	1" PURCHASED D.P. # 107140							1	1			1	1
	1212-4	3274C 4/6	107240	10178	084180				1			1	
	1616-4	4774B 1/3	107740	10180	084240				1			1	
FLANGE F	2420-6	5407A	108050	10181	084289				1			1	
	8UMF	52-415C	102450	3364	088508	1	1		1	1		1	
	1212-6	3274C 6/6	107260	10209	084200		1		1		1		1
	1616-6	4774B 3/3	107760	10182	084260		1		1		1		1
BUTTERFLY VALVE G	2420-3	5395 3/3	108020	10183	084281		1		1		1		1
	#8BV-1			D.P. # 177770						1	1		1
	#12BV-1 1/2			D.P. # 177780						1		1	
	#16BV-2			D.P. # 177790						1		1	
FLANGE GASKET	#24BV-3			D.P. # 177800						1		1	
	DWG. # 6751A			D.P. # 119900		3	3		4	4		4	4
	DWG. # 3424B			D.P. # 120050			3		4		4		4
	DWG. # 4784A			D.P. # 120150				3		4		4	
GAS RATIO ADJ. SCREW	DWG. # 5401A			D.P. # 120170					4		4		4
	DWG. # 2188-A			D.P. # 166250		1	1		1	1		1	1
	DWG. # 10223-C			D.P. # 403006			1		1		1		1
	DWG. # 4778			D.P. # 166350			1		1		1		1
GAS RATIO ADJ. SCREW LOCKNUT	DWG. # 5400			D.P. # 166370			1		1		1		1
	DWG. # 10188			D.P. # 128700		1	1		1	1		1	1
	DWG. # 10224			D.P. # 403005			1		1		1		1
	1 1/8-12			D.P. # 128800			1		1		1		1
GAS RATIO ADJ. SCREW PLUG	1 1/2-12			D.P. # 128850			1		1		1		1
	DWG. # 10189			D.P. # 404486			1		1		1		1
	DWG. # 10225-A			D.P. # 403004		1		1		1		1	
	DWG. #			D.P. #									1
JET	DWG. #			D.P. #									1
	DWG. # 5060D 1/4			D.P. # 120270		1	1		1	1		1	1
	DWG. # 5060C 2/4			D.P. # 403003			1		1		1		1
	DWG. # 5060C 3/4			D.P. # 120272			1		1		1		1
RATIO VALVE BODY ASS'Y	DWG. # 5060C 4/4			D.P. # 120273			1		1		1		1
	DWG. # 5097 & 2189B			D.P. # 126150		1	1		1	1		1	1
	DWG. # 4704B			D.P. # 126200			1		1		1		1
	DWG. # 4777C			D.P. # 126250			1		1		1		1
5/16-18X3/4" HEX CAP SCREW	DWG. # 5399A			D.P. # 126300			1		1		1		1
	DWG. # 165200			D.P. # 165200		8	8		8	8		8	8
	DWG. # 165025			D.P. # 165025		4	4		4	4		4	4
	DWG. # 164868			D.P. # 164868			4	4		4	4		4
5/16-18 PLAIN NUT	DWG. # 128465			D.P. # 128465			4	4		4	4		4
	DWG. # 165210			D.P. # 165210		8	8		8	8		8	8
	DWG. # 165250			D.P. # 165250		4	4		4	4		4	4
	DWG. # 165220			D.P. # 165220			4	4		4	4		4
3/8-16X1 1/8" HEX CAP SCREW	DWG. # 128470			D.P. # 128470			4	4		4	4		4
	DWG. # 165230			D.P. # 165230			8		8		8		8
	DWG. # 165260			D.P. # 165260		8			8		8		8
	DWG. # 165240			D.P. # 165240			4		4		4		4
RATIO VALVE BODY ASS'Y	DWG. # 10185			D.P. # 127345					4		4		4
	DWG. # 10184			D.P. # 127350								1	1
	DWG. #												1
	DWG. #												1