

MULTIFLO™ MIXERS

1" to 3" SIZE

MODEL: 2331 - MF, 2332-MF-T

Revision: 0

BULLETIN
2331-2332



#16 MF MULTIFLO-MIXER

Multiflo Mixers are patented design adjustable high efficiency proportional mixers. The energy of the air passing through the jet produces a suction to entrain a combustible gas and deliver the mixture to the burners.

The patented Air Adjuster provides wide capacity ranges in the same size mixer. A simple hand adjustment changes the air capacity and matches the mixer to the burners.

The Multiflo Mixer uses a Zero Regulator (See Bulletin 5101) to regulate the gas flow in correct ratio to air flow. A butterfly air valve (see Section 1) in the air lines is used to vary air flow and heat output of the mixer. This valve maybe operated by automatic control devices.

FEATURES

1. Patented Air Adjuster matches any burner area within its range - over 2.5 to 1 change.
2. Individual burner adjustments on common mixer now possible.
3. Optimum shape factors in air jet and entraining throat are fixed - no jets, sleeves, rods, etc., to change.
4. Compact, rugged, heavy-duty construction.
5. Constant high entrainment efficiency in all ranges.
6. Axial adjustment of air tube balances the mixture pressure to the burners.
7. Air to gas ratio easily set and held.
8. Single valve control of heat input.

CAPACITY TABLE									
CATALOG NUMBER	MIXER PIPE SIZE	CAPACITY RANGES (1000 Btu/Hr.) AT VARIOUS AIR PRESSURES AT 100% AERATION							
		4 osi	8 osi	12 osi	16 osi	24 osi	32 osi		
		MINIMUM MIXTURE PRESSURES							
		2" W.C.	4" W.C.	6" W.C.	8" W.C.	12" W.C.	16" W.C.		
8 MF	1"	35	45	55	65	80	90		
		80	110	140	160	195	220		
12 MF	1-1/2"	70	100	120	140	170	200		
		150	210	260	300	365	420		
16 MF	2"	130	185	225	260	315	370		
		280	400	485	560	685	800		
24 MF	3"	250	350	435	500	510	700		
		750	925	1130	1300	1585	1825		
CAPACITY MULTIPLIER TABLE									
PERCENT AERATION (Primary Air)		50%	60%	70%	80%	90%	100%	110%	120%
CAPACITY MULTIPLIER		2.0	1.67	1.43	1.25	1.1	1.0	0.91	0.83

CAUTION: Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.



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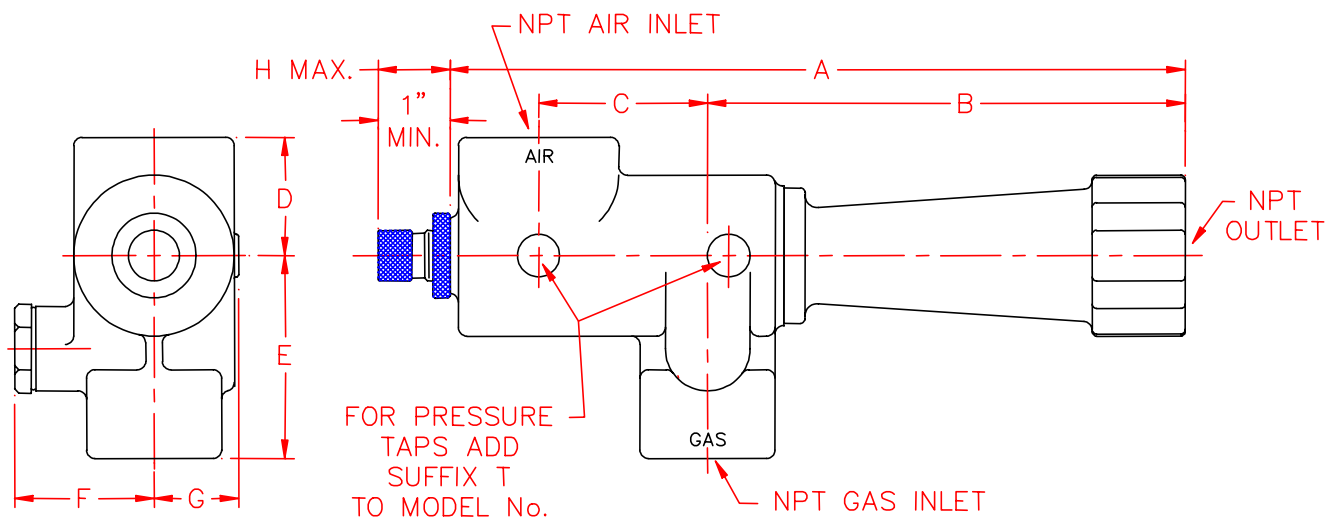
NOTICE: PYRONICS practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

MULTIFLO MIXERS

INSTALLATION AND ADJUSTMENT

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DIMENSIONS



Catalog Number	Air Pipe	Gas Pipe	Mixture Pipe	A	B	C	D	E	F	G	H	Weight Lbs.
8 MF	1"	3/4"	1"	7-3/16	4	2-1/8	1-1/2	2-1/4	1-11/16	1-1/4	2	4.2
12 MF	1-1/2"	1-1/4"	1-1/2"	10-7/8	7-1/16	2-1/2	1-3/4	3	2-1/16	1-1/2	2-3/8	8.0
16 MF	2"	1-1/2"	2"	12-1/2	8-1/8	2-3/4	2	3-1/4	2-5/16	1-3/8	2-3/4	12.4
24 MF	3"	2"	3"	20-3/4	14-1/8	4-3/8	3-1/4	5	3-9/16	2-1/16	4	30.9

OPERATING INSTRUCTIONS

1. The air and gas supply piping and mixture manifold should be the same size or larger than the pipe sizes on the multiflo mixer body.
2. Check that the air and gas supply, valves and regulators are adequate for requirements.
3. Check that gas supply is off and the gas Adjuster is approximately 1/2 open on the Multiflo Mixer Body.
4. Set air tube at minimum position (See dimension drawing). Alternate: with air valve wide open and gas closed, adjust air tube position so that mixture pressure is about one-fourth the air pressure.
5. Set Butterfly Valve one-quarter open.
6. Apply torch or igniter to burner and open gas cock to full open. (Flame will probably be too rich).
7. Back air tube out until burner(s) operate with the desired flame characteristics.

8. If burners are unstable, position air tube where flame goes rich then close the gas adjuster to desired flame characteristics. Apply same procedure when flame varies from hi to lo fire.
9. Lock air tube in position and replace seal plug on the Gas Adjuster.
10. Heat input can then be varied by using only the air control valve.

ORDERING INFORMATION

1. Select quantity and size of mixers required.
2. Select Balanced Zero Regulators required (Bulletin 5101).
3. Select Butterfly Valves required from Section 1.
4. Complete shipping instructions.

NOTE: For special applications -- send details on burners, type of gas and air pressure.