

MUAS 1600

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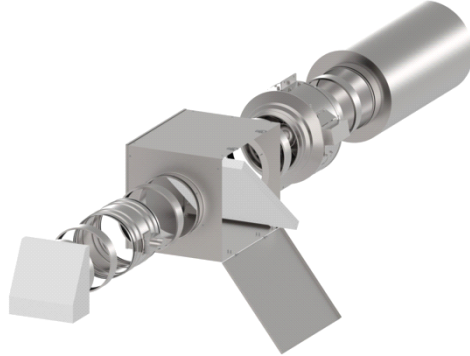
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Description

The Fantech Makeup Air System (MUAS) is a "powered" or "fan-forced" system, which is triggered when the compensated exhaust system is energized: the motorized shut-off damper opens and the MUAS fan is powered on. The MUAS fan is automatically speed-controlled relative to the speed of the compensated exhaust system fan's speed. In other words, as the exhaust fan's speed is increased and decreased the MUAS fan's speed is automatically controlled so that the makeup air flow compensates the exhaust air flow rate proportionally.

- MUAS provides the EXACT amount of air needed - no more, no less
- Particulate matter is filtered from the outdoor air before it is delivered to the home
- Since it is fan-forced, makeup air can be ducted to where it can be most suitably delivered to the home
- Cold outdoor air can be tempered with optional MUAH heater kits
- MUAS can be set up by the installer for a variety of pressure schemes: slightly negative, slightly positive, or balanced
- Complies with the International Residential Code (IRC) for kitchen makeup air requirements



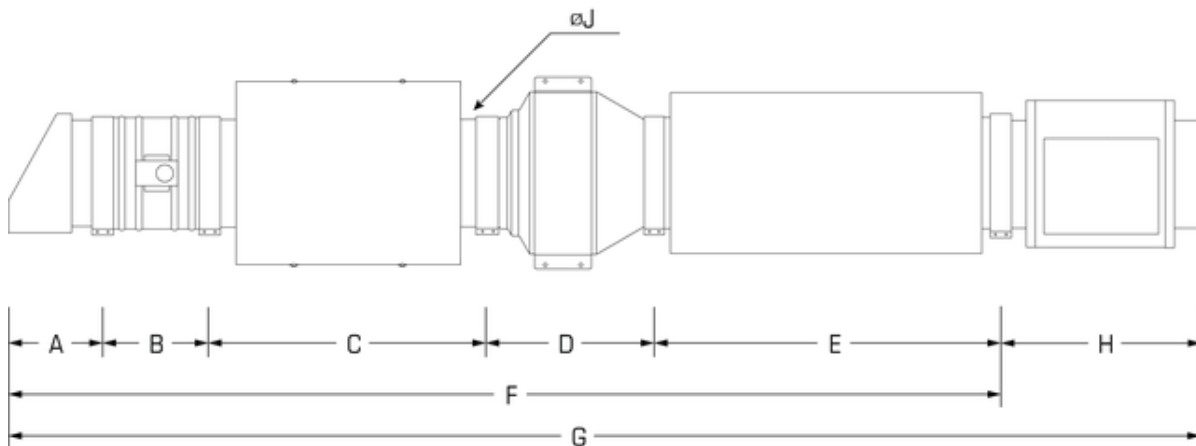
MUAS 1600 includes a 12" EC-motor fan with airflow up to 1,600 cfm (max), 12" metal intake wall hood, 12" motorized shut-off damper, 12" filter cabinet with a pleated filter, 12" duct silencer, 3 pairs of 12" mounting clamps, FMAC controller. Your climate zone might necessitate a heater for the delivery of makeup air into the building. The optional MUAH heater may be chosen separately, if desired.

Each MUAS includes the patent-pending FMAC controller, which provides the automatic operation of the makeup air system. While the compensated exhaust system is operating, the makeup air fan supplies air at a rate necessary to maintain the desired building pressure scheme as set up by the installer. The makeup air flow rate automatically and infinitely varies proportionally with the speed at which the exhaust is operated by the homeowner. A neutral (balanced) pressure scheme is common, but the installer can also employ a slightly positive or negative pressure scheme should it be desired. The FMAC includes a current transducer, system controller, transformer, and a NEMA electrical enclosure.

Technical parameters

Nominal data		
Maximum allowable airflow	1600	cfm
Duct connection, Ø (inches)	12"	
Weight	92,1	kg

Dimensions

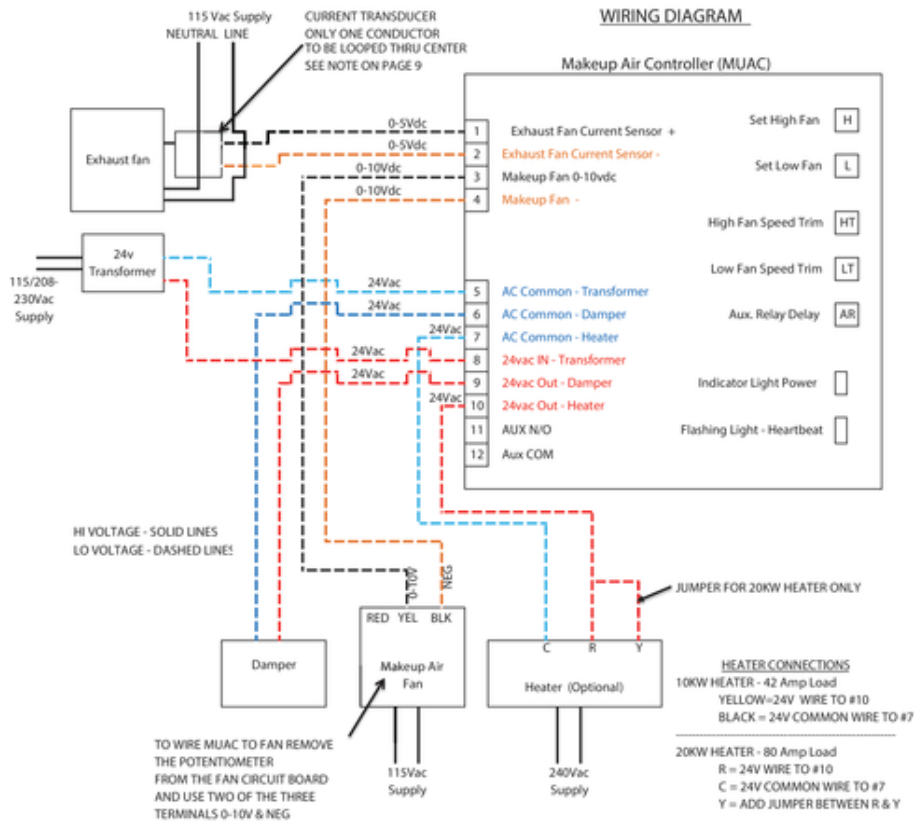


	A	B	C	D	E
MUAS 1600	10 1/2 (267)	11 13/16 (302)	30 1/2 (775)	18 7/8 (454)	38 1/2 (978)
	F	H*	G	J	
MUAS 1600	110 7/32 (2800)	21 (533)	131 7/32 (3333)	12 (305)	

* Optional

All dimensions are in inches

Wiring



Documentation

[PDF](#) 497831 MUAS OIPM.pdf (700,59kB)

[PDF](#) E1574 Makeup Air System.pdf (5,40MB)

[PDF](#) E1583 MUAS Case Study Bob's Heating WA.pdf (622,09kB)

[PDF](#) E1584 MUAS Case Study Skyline CO.pdf (496,66kB)

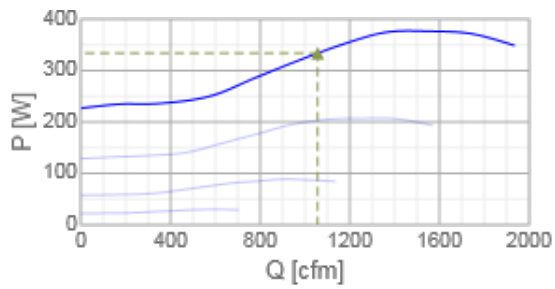
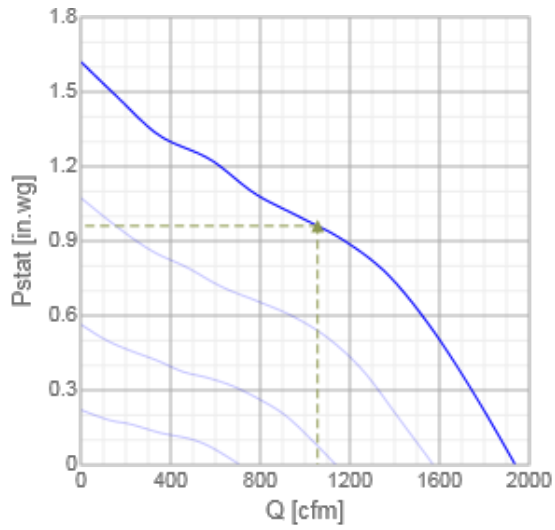
[PDF](#) White Paper - Residential Exhaust Makeup Air.pdf (216,16kB)

EPS diagrams

Accessories

Performance

Diagrams



Hydraulic data

	Working point						
	Q [cfm]	Ps [in.wg]	P [W]	n [r.p.m.]	I [A]	SFP [kW/(m ³ /s)]	U [V]
Max efficiency	1056	0,961	334	1698	2,79	0,671	120

Acoustic data

Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	58	68	73	70	73	68	63	54	78
Outlet	dB(A)	58	63	72	69	73	70	63	54	78

Loudness