



# Direct Fired Make-Up Air Unit



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Modine offers a complete line of both indoor and outdoor heating and ventilating equipment.

Direct Fired Make-Up Air Units are ideal for applications that require 100% outside air. Direct fired units provide the best efficiency (100% thermal efficiency, 92% sensible). The make-up air is heated directly by the gas flame, eliminating the need for a heat exchanger and its associated efficiency losses.

Direct Fired Make-Up Air units are configurable with an evaporative cooler, CELdek or GLASdek media, with the option of side access prefilters. With these configurations, the unit can satisfy a building’s heating, make-up air, cooling, or ventilating requirements.



## DIRECT-FIRED INDOOR/OUTDOOR MAKE-UP AIR (MCV/MVV)

**Model MCV:** 100% outside air, constant speed fan

**Model MVV:** 100% outside air, variable speed fan (provides reduction from rated speed down to 35%)

100% thermal efficiency and 92% sensible heating

Maximum application flexibility with input ratings up to 2,100,000 Btu/hr

Airflow capability from as low as 800 CFM up to 14,000 CFM

Best-in-class features to simplify installation and reduce maintenance costs

Auto-Velocity™ profile system monitors burner profile pressure drop and automatically adjusts burner air velocity for optimum combustion

Direct Spark Ignition (DSI) to simplify operation and minimize cost on units rated 1125 MBH and smaller

Neoprene blower/motor vibration isolation for quiet operation

### Performance Capabilities

Casing Size (Digit 4)	Blower Size (Digits 5, 6)	Airflow Range (CFM)		Max Air Temp Rise (°F)		Maximum MBH		Max Supply Air Temp (°F)
		Min.	Max.	Natural Gas	Propane Gas	Natural Gas	Propane Gas	
1	08	800	2,200	130	95	293	185	120
2	10	1,400	3,500	130	95	346	270	120
	12	2,400	3,500	130	95	375	375	120
3	15	3,200	8,000	130	95	938	907	120
4	18	5,000	9,500	130	95	1,428	1,077	120
5	20	5,500	14,000	130	95	2,100	1,587	120

1. Maximum Btu/Hr based on Max CFM and temp rise (where possible) with -30°F entering air. Actual capability may vary with different job conditions.  
2. Please refer to our online Breeze® AccuSpec selection program with specific conditions.



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