



Pure and Simple Solutions

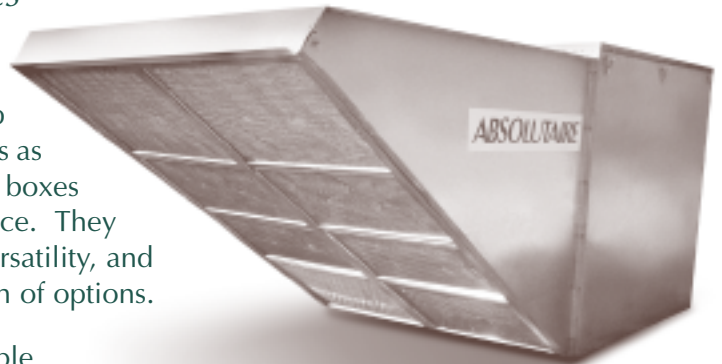
# The M-Series

## Fan Boxes for Untempered Make-Up Air

- Economical, Versatile, and Durable
- Wide Range of CFM Capacities
- Rooftop & In-Line Models

For untempered ventilation and make-up air in commercial and institutional kitchens as well as in other applications, M-Series fan boxes from AbsolutAire are an excellent choice. They offer outstanding economy, installation versatility, and operating durability, along with a selection of options.

Six different M-Series models are available with a range of capacities from 800 to 14,000 CFM under various static pressure conditions. Rooftop units can be curb mounted and provide either down- or end-discharge supply air, while indoor (in-line) units can provide end-discharge supply air.



### Standard Features

- ▲ Durable Non-Corrosive Steel or Aluminum Sheet-Metal Construction
- ▲ Weatherproof Control Enclosure
- ▲ Belt-Driven Centrifugal Fan (with Variable-Pitch Motor Sheave)
- ▲ End- or Down-Discharge Air Supply
- ▲ Non-Fused Disconnect
- ▲ Remote Start-Stop Switch
- ▲ Two-Year Parts / 90-Day Labor Warranty

### Available Options

- ▲ Roof Curbs (Flat and Pitched)
- ▲ Exhaust Fan Combination Curbs
- ▲ Filtered Inlet Hoods
- ▲ Side-Access Filter Sections (V-Bank)
- ▲ Motorized or Gravity Dampers (Inlet or Discharge)
- ▲ Exhaust Fan Motor Starters
- ▲ Industrial Enamel Painted Exterior
- ▲ Cooling Modules (DX or CW Coils or Evaporative)

# M-Series Technical Data

M-Series fan box models from AbsolutAire offer a range of CFM capacities to precisely match your application needs. Different motor sizes can be selected to deliver accurate air volumes, based on the Total Static Pressure (TSP).

## Motor Horsepower (HP) Selection Charts

To select the correct motor size for the desired ventilating capacity, first calculate TSP, which includes the fan box, filtered inlet hood, options, and external static pressures.

### Total Static Pressure (TSP) Calculation Chart

	Inches, W.C.	Extended
M-Series Fan Box	0.10"	0.10"
Filtered Inlet Hood	0.20"	0.30"
Other (Options)	--	+
External Static Pressure (ESP) (ducts, etc.)		+
<b>Total Static Pressure (TSP)</b>		<b>=</b>

#### EXAMPLE:

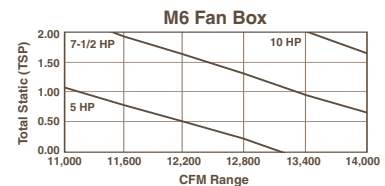
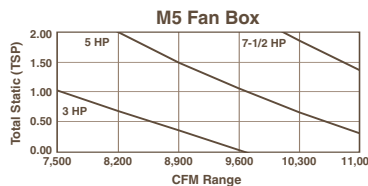
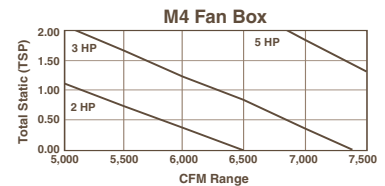
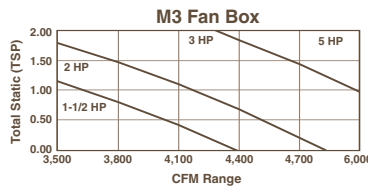
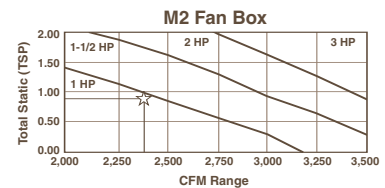
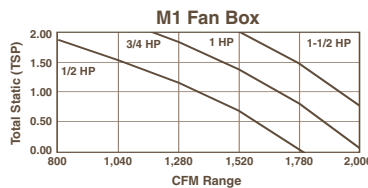
Select a fan box and motor to deliver 2,375 CFM @ 0.60" ESP.

#### 1. Calculate Total Static Pressure (TSP):

Fan Box 0.10"  
 Filtered Hood 0.20"  
 ESP 0.60  
 TSP 0.90"

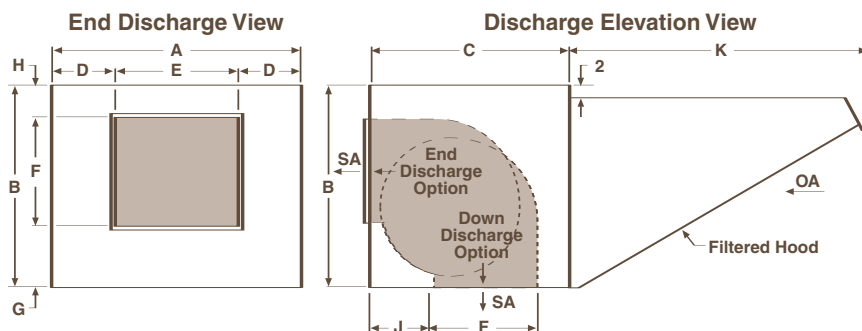
#### 2. Select M2 fan box, based on desired CFM.

#### 3. See M2 Chart. The TSP and CFM plots intersect nearest the graph for a 1 HP motor size.

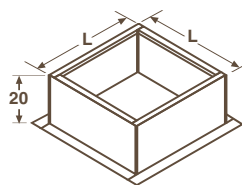


## Dimensions & Weights

Model	CFM Range	Dimensions, inches											Weights, lbs.	
		A	B	C	D	E	F	G	H	J	K	L	Fan Box	Hood
M1	800-2,000	23	22	23	6-1/2	10	11	6-1/2	4-1/2	6-1/4	23-5/8	19	93	18
M2	2,000-3,500	28	25	25	7-1/16	13-7/8	12-1/8	7-1/8	5-3/4	6-3/4	32-3/4	21	120	25
M3	3,500-5,000	35	28	28	9-5/16	16-3/8	14-3/16	8-5/16	5-1/2	8	36	24	146	35
M4	5,000-7,500	43	31	31	11-13/16	19-3/8	16-5/8	9-1/2	4-7/8	9-1/4	46-3/8	27	210	60
M5	7,500-11,000	48	36	39	12-11/16	22-5/8	19-5/8	11-1/4	5-1/8	11-1/4	55-1/8	35	305	75
M6	11,000-14,000	55	47	50	14-3/4	25-1/2	25-1/2	12-7/8	8-5/8	11-15/16	61-1/4	46	485	100



### Supply Air Roof Curb



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