

MX Series

Indoor Modular Blowers

Electric Heat, Hot Water Heat, or No Heat




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Product Nomenclature

MX E 08 00 N 2 E	
Series MX Series	
Blower Motor C = 3-speed PSC motor ^[1] E = 5-speed ECM motor ^[2]	
Size / Airflow 08 = 800 CFM 12 = 1200 CFM 16 = 1600 CFM 20 = 2000 CFM	
Hot Water Coil 00 = No hot water coil WP = Hot water coil with pump WN = Hot water coil without pump AP = Hot water coil with 130°F aquastat & pump AN = Hot water coil with 130°F aquastat & without pump	
	Heat Size B = 3 row hot water coil ^[1] (available on 08 and 20 models) C = 4 row hot water coil ^[1] (available on 08, 12, and 16 models) E = No heat (electric heat kits sold separately) ^[2]
	Voltage 2 = 208/240 V, 60 Hz, 1 ph., with time delay ^[2] 4 = 120 V, 60 Hz, 1 ph., with time delay ^[1]
	Line Voltage Connection N = Stripped wires

Approved in state of Massachusetts



WARNING



To install the MX Series air handler in the horizontal position a (2") clearance must be maintained between the apex of the evaporator coil and the top of the coil's cabinet. Therefore, the ADP multi-position evaporator coils below cannot be used in horizontal applications with the MX Series air handler.
Slab numbers A07, A15, E27, E37, E48, E50, E55, E57, E87, and E88.



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Maximum Line Lengths for Heating Coils

Using factory installed circulator

All line lengths are total for supply and return

Model Size	Nominal Pipe Size (ID)	Maximum Supply Pipe Length (ft.) type K copper																		
		GPM																		
		1	1.3	1.5	1.8	2	2.3	2.5	2.8	3	3.3	3.5	3.8	4	4.3	4.5	4.8	5	6	7
8	1/2"	256	148	98	70	51	33	20	12	5	-	-	-	-	-	-	-	-	-	-
	3/4"	-	-	-	454	351	251	186	140	105	-	-	-	-	-	-	-	-	-	-
12	3/4"	-	-	-	-	-	-	-	-	126	97	75	57	43	30	19	11	4	-	-
	1"	-	-	-	-	-	-	-	-	-	497	397	319	257	200	156	120	90	-	-
	1 1/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	514	405	315	-	-
16	3/4"	-	-	-	-	-	-	-	-	126	97	75	57	43	30	19	11	4	-	-
	1"	-	-	-	-	-	-	-	-	-	497	397	319	257	200	156	120	90	-	-
	1 1/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	514	405	315	-	-
20	3/4"	-	-	-	-	-	-	-	-	123	94	72	54	40	27	16	8	-	-	-
	1"	-	-	-	-	-	-	-	-	-	485	382	306	244	187	143	106	77	-	-
	1 1/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	476	367	278	-	-

Notes:

- Line lengths are based on water only. To adjust maximum line lengths for glycol, divide length by the factors shown in **Table 2**.
- IMPORTANT:** Glycol should never be used in a potable water system.
- All lengths are based on closed loop systems.
- Line lengths within the shaded areas should not be used when a water heater is the source of heat. For these line lengths, excessive line temperature loss will occur and must be accounted for.
- Supply and return lines must be properly insulated to reduce temperature loss and to prevent freezing when passing through an unconditioned space.
- All lengths include (12) 90° short radius elbows. To adjust for extra or fewer fittings, use the factors in **Table 1**.
- Always use full flow ball or gate valves to minimize pressure drop.

Pipe size	90° SR el	90° LR el	45° el	gate valve
1/2"	1.5	0.8	1	1
3/4"	2	1	1.4	1.4
1"	2.7	1.3	1.9	1.9
1 1/4"	3.6	1.8	2.5	2.5

% Glycol	140° F	160° F	180° F
10	1.04	1.04	1.02
20	1.08	1.07	1.04
30	1.13	1.11	1.08
40	1.19	1.16	1.12
50	1.24	1.21	1.17

Dimensions

Unit Size	A (in)	B (in)	C (in)	Supply Duct Opening		Return Duct Opening	
				Depth (in)	Width (in)	Depth (in)	Width (in)
8 & 12	27	20 1/2	17 1/2	16	15 1/2	19 1/4	16
16	28	20 1/2	21	16	19	19 1/4	19 1/2
20	28	20 1/2	24 1/2	16	22 1/2	19 1/4	23

