



TAG:

SUBMITTAL

Ecoer DFi 98% AFUE Gas Furnace

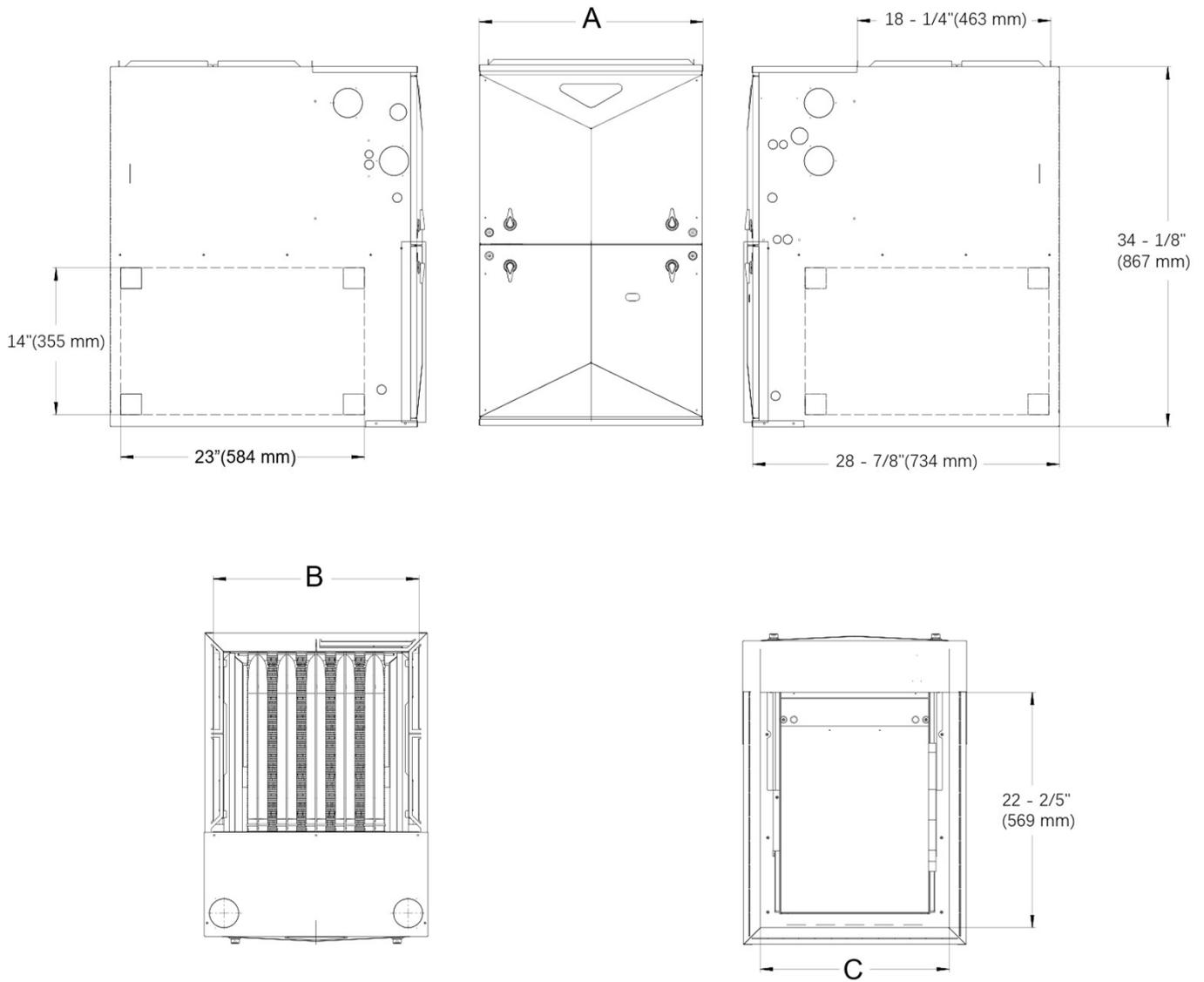
EVMF98M28080B3L



Standard Features

- Efficiency rating of up to 98% AFUE;
- Covering a wide capacity range from 28,000 to 100,000 BTUs with just two SKU;
- Equipped with an IoT Gateway;
- Supports four different installation configurations;
- The furnace automatically adjusts gas volume for different altitudes.

Dimension



Unit Size	A	B	C	NET WT. LB (KG)	SHIP WT. LB (KG)
	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH		
80B	17.5	15.9	16.4	150 (68)	182 (83)

Technical Specifications

Sale Model			EVMF98M28080B3L
Power supply		V-Ph-Hz	115V/60HZ/1PH
MOP		A	15
Gas Type			Natural Gas/Propane Gas
AFUE		%	98.0%
Input	Hi	Btu/h	80000
	Med	Btu/h	56000
	Lo	Btu/h	28000
Output	Hi	Btu/h	78500
	Med	Btu/h	55000
	Lo	Btu/h	27500
Air Temperature Rise		°F	36-51
Design Max. Outlet Air Temperature		°F	165
Blower Fan	material		Metal
	Type		Centrifugal Fan Wheel
	Diameter	mm	314
	Height	mm	203
Inducer Power Input	Model		FASCO 70920361
	(Max)	W	196±10%
	(Min)	W	110±10%
Tons AC		tons	1.5/2/2.5/3
Motor	model		ZWK702B5A3142
	Horsepower	HP	1/2hp
Max.Inlet Gas Press	Nature Gas	IN W.C.	10.5
	Propane Gas	IN W.C.	13
Min.Inlet Gas Press	Nature Gas	IN W.C.	4.5
	Propane Gas	IN W.C.	10
Manifold Gas Press-NG	Hi	IN W.C.	3.8
	Med	IN W.C.	1.86
	Lo	IN W.C.	0.6
Manifold Gas Press-Pro	Hi	IN W.C.	9
	Med	IN W.C.	4.4
	Lo	IN W.C.	1.2
heat exchanger Diameter (Primary)		mm	Clamshell
heat exchanger Diameter (Secondary)		mm	9.52
heat exchangers (Primary)		pcs	4
heat exchangers (Secondary)		pcs	33
Vent Diameter x length		Inch	2"x100ft / 3"x175ft
Pressure Switch	(HIGH)	IN W.C.	1.1
	(MED)	IN W.C.	0.75
	(LOW)	IN W.C.	0.55
Pressure Sensor	/	/	5V analog signal-±500pa
Flame Rollout Temperature Limit	Off/On	°F	300(manual reset)
Outlet High Temperature Limit Switch	Off/On	°F	180/150
Reflow High Temperature Limit Switch	Off/On	°F	120/90
Burners		pcs	4
Natural Gas Factory Orifice		#	44
Propane Gas Factory Orifice		#	54
Gas Connection Size		NPT	1/2
Ignition Type			Hot surface

Air Delivery

Heating Air Delivery -- CFM (Bottom Return Without Filter)

Model	Speed		External Static Pressure (ESP)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
80B	Maximum Heat	CFM	1298	1295	1300	1300	1305	1304	1301	1309	1209	-
		Temp Rise	51.5	51.6	51.4	51.4	51.2	51.3	51.4	51.1	55.3	-
	Intermediate Heat	CFM	994	998	1001	1002	1005	1004	1010	1008	1013	1015
		Temp Rise	47.1	46.9	46.8	46.7	46.6	46.6	46.3	46.4	46.2	46.1
	Minimum Heat	CFM	651	652	650	649	651	648	654	653	655	658
		Temp Rise	35.9	35.9	36.0	36.1	35.9	36.1	35.8	35.8	35.7	35.6

1. A filter is required for each return -air Inlet. Airflow performance Included 3/4-In. (19 mm) washable filter media such as contained In factory-authorized accessory filter rack. To determine airflow performance with this filter, assume an additional 0.1 in. wc available external static pressure.
2. The airflows in the above table is based on bottom return or both bottom and side return air.
3. All airflows are 5% less on side return only installations.

Cooling Air Delivery -- CFM (Bottom Return Without Filter)

Unit Size	CF Switch Settings			External Static Pressure (ESP)									
	SW2-1	SW2-2	SW2-3	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
80B	ON	OFF	OFF	548	549	546	548	550	546	550	547	550	549
	ON	OFF	ON	640	642	641	645	650	644	644	648	650	648
	ON	ON	OFF	743	745	744	748	750	747	748	756	750	751
	ON	ON	ON	842	844	843	848	850	847	848	857	850	851
	OFF	OFF	OFF	941	942	947	944	950	944	945	947	950	941
	*OFF	OFF	ON	1041	1042	1047	1043	1050	1043	1044	1047	1050	1041
	OFF	ON	OFF	1119	1119	1125	1121	1120	1121	1122	1125	1120	1081
	OFF	ON	ON	1190	1191	1197	1193	1200	1193	1194	1197	1200	1142

* Factory default settings.

Through different dialing settings, 8 optional air volumes can be set.

#"Speed model" has three modes (standard/high speed/Low speed), which can be set through "press bottom" or Internet app. If not, the factory default standard model will be used.

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2. The airflows in the above table is based on bottom return or both bottom and side return air.
3. All airflows are 5% less on side return only installations.

NOTE: To set these setup switches for the appropriate requirement

1. Remove blower door.
2. Locate setup switches on furnace control.
3. Configure the set-up switches as necessary for the application.
4. Replace blower door

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