



TAG:

SUBMITTAL

Ecoer DFi 98% AFUE Gas Furnace

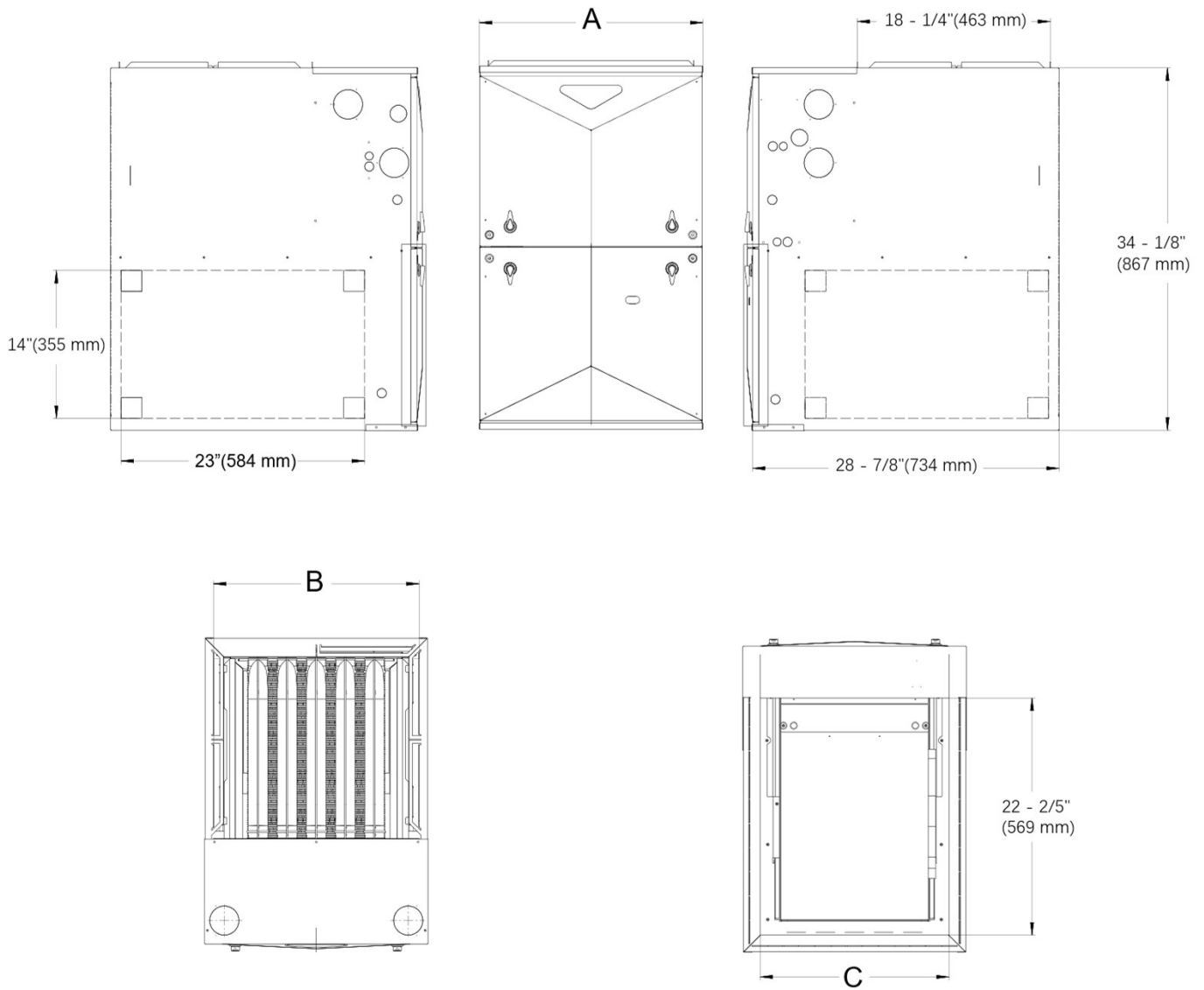
EVMF98M35100C5L



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		
100C	21	19.4	19.9	173 (78.5)	208 (94)

Technical Specifications

Sale Model			EVMF98M35100C5L
Power supply		V-Ph-Hz	115V/60HZ/1PH
MOP		A	20
Gas Type			Natural Gas/Propane Gas
AFUE		%	97.5%
Input	Hi	Btu/h	100000
	Med	Btu/h	70000
	Lo	Btu/h	35000
Output	Hi	Btu/h	98000
	Med	Btu/h	68500
	Lo	Btu/h	34000
Air Temperature Rise		°F	37-52
Design Max. Outlet Air Temperature		°F	170
Blower Fan	material		Metal
	Type		Centrifugal Fan Wheel
	Diameter	mm	325
	Height	mm	285
Inducer Power Input	Model		FASCO 70920361
	(Max)	W	196±10%
	(Min)	W	110±10%
Tons AC		tons	3.5/4/4.5/5
Motor	model		ZWK702E0A3073
	Horsepower	HP	1.0hp
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	5
heat exchangers (Secondary)		pcs	39
Vent Diameter x lenth		Inch	2"x50ft / 3"x150ft
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	5
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
100C	Maximum Heat	CFM	1501	1495	1500	1498	1502	1501	1495	1503	1505	1510
		Temp Rise	55.7	55.9	55.7	55.8	55.6	55.7	55.9	55.6	55.5	55.3
	Intermediate Heat	CFM	1152	1157	1155	1157	1157	1153	1155	1153	1161	1158
		Temp Rise	50.8	50.6	50.6	50.6	50.6	50.7	50.6	50.7	50.4	50.5
	Minimum Heat	CFM	745	749	750	746	750	751	753	751	755	762
		Temp Rise	39.3	39.1	39.0	39.2	39.0	38.9	38.8	38.9	38.7	38.4

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
100C	ON	OFF	OFF	994	997	997	995	1000	995	996	995	1000	996
	ON	OFF	ON	1099	1095	1097	1100	1100	1099	1095	1102	1100	1101
	ON	ON	OFF	1199	1195	1197	1200	1200	1199	1195	1202	1200	1201
	ON	ON	ON	1299	1294	1297	1300	1300	1299	1294	1302	1300	1301
	OFF	OFF	OFF	1399	1394	1397	1400	1400	1399	1394	1403	1400	1401
	*OFF	OFF	ON	1499	1494	1496	1500	1500	1499	1494	1503	1500	1501
	OFF	ON	OFF	1602	1596	1599	1603	1600	1602	1596	1599	1600	1604
	OFF	ON	ON	1699	1693	1696	1700	1700	1699	1693	1703	1700	1701

* 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.
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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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