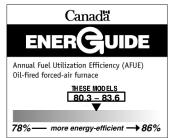


OCF105 Product Specifications



Illustrations and photographs are only representative. Some product models may vary.





ONLY applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.

DOWNFLOW/HORIZONTAL OIL FURNACE

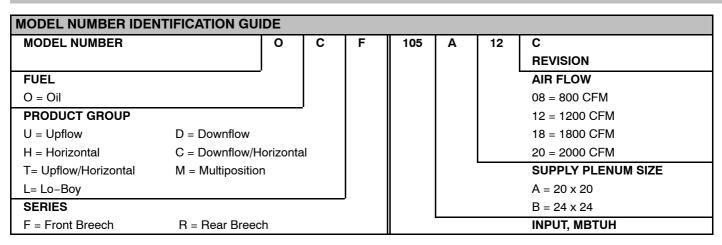
FEATURES

- Fan Control Switch for continuous speed
- Accessory terminals prewired for easy add–on electronic air cleaner and power humidifier. Air conditioning ready for easy add–on.
- · Large external front clean out for easy cleaning
- Clean out sealed from blower compartment (no soot to spread)
- Easy Access control panel
- Sight Glass/View Port
- Furnaces are available with your choice of high efficiency Riello and Beckett burners. (Burners ordered and shipped separately.)
- Test Ports factory installed to provide efficient access for set–up and service
- "Easy Access" heat exchanger manufactured from heavy gauge steel
- Multi-Speed Direct Drive Motors permanently lubricated for long life performance
- Heavy-duty insulated cabinet for quiet operation
- Approved for 1" (25mm) clearance to combustibles for tight installations
- Ceramic combustion chamber withstands temperature of 2600°F (1427°C) with unique "self aligning" design
- Precision balanced blower ensures quiet, efficient air distribution
- Raised cabinet base allows air to circulate under the cabinet, eliminates dampness
- Approved Chimney Vent and Direct Vent applications
- Combustible Floor Base For Downflow/horizontal models
- Efficient AFUE up to 83.6% Canada, 81.5% US
- Front Flue (Breech)

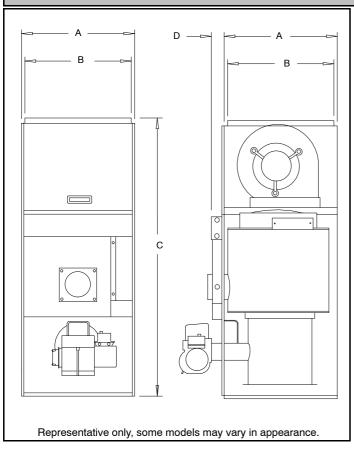
WARRANTY *

- Lifetime heat exchanger limited warranty with timely registration
- · 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.

Model Number	Input	Efficienc	y AFUE	Cooling capacity	Dimensions in(mm)	Operating Wt.
Woder Number	(BTU/h)	CANADA	US	@ .5 in wc (125 Pa)	H x W x D†	Lbs.(Kg)
OCF105A12	70,000 – 100,800	80.3 - 83.6	80.3 – 81.5	1.5 – 3 TON	57 x 21 x 21 (1448 x 533 x 533)	220 (100)



DIMENSIONS AND CLEARANCES



	Furnace Dimensions - in(mm)				
Α	В	С	D	Flue	
	in				
21	19-3/4	57	2.4	5	
	mm				
533	502	1448	610	127	

	Minimum Installation Clearances from Combustible Materials – in(mn	n)
	Furnace	1" (25.4 mm)
Sides	Supply plenum, warm air duct within 6 ' (1.8m) of furnace	1" (25.4 mm)
Back	Furnace	1" (25.4 mm)
Тор	Furnace casing or plenum	1" (25.4 mm)
Bottom	Furnace - combustible floor*	0"
Front	Furnace	24" (609.6 mm)

BLOWER PERFORMANCE DATA (Air delivery – with air filter)

EXTERNAL STATIC PRESSURE – in wc							
Speed	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Speed	CFM						
Low	720	700	680	660	640	620	600
Med-Lo	818	806	794	782	770	758	746
Med-Hi	1114	1078	1042	1006	970	934	898
High	1434	1378	1322	1266	1210	1154	1098

EXTERNAL STATIC PRESSURE - Pa								
Speed	25	50	75	100	125	149	174	
Speed	L/s							
Low	340	330	321	311	302	293	283	
Med-Lo	386	380	375	369	363	358	652	
Med-Hi	526	509	492	475	458	441	424	
High	677	650	624	597	571	545	518	

Model:	I	OCF10	05A12C		
Rating and Performance					
Firing Rate	.50	.63	.75	.72	
Input (BTUh)	70.000	88,200	105,000	100,800	
Heating capacity, chimney installation (BTUh)	58,000	72,500	85,200	NA NA	
Heating capacity, side-wall installation (BTUh)	58,200	72,600	85,700	83,000	
Minimum – maximum Temperature Rise	33,233	1	/ 28 – 39° C	33,555	
Stack draft, Chimney, (Side-wall)			(+0.04" to +0.16")		
Overfire pressure Chimney, (Side-wall)			(+0.10" to +0.25")		
Beckett Burner, Chimney Installation		•	nsertion 5-1/8")		
Low firing rate baffle	Yes	Yes	No	NA	
Static disc. model	100	23/4 #3383	110	NA NA	
Nozzle (Delavan)	0.50-70A	0.50-70A	0.60-70B	NA NA	
Pump Pressure (PSIG)	100	156	156	NA NA	
Combustion air adjustment (shutter/band)	0 / 4.5	0 / 8	0 / 7.5	NA NA	
CANADIAN regulation and CSA B212 standard ** AFUE %	81.5	81.0	80.3	NA NA	
US regulation ASHRAE 103 standard AFUE %	81.5	81.0	80.3	NA NA	
	61.5			INA	
Riello Burner, Chimney Installation Nozzle (Delavan)	0.40-60A	0.50-60A	sertion 5-3/16") 0.60-60A	NA	
Pump Pressure (PSIG)	0.40-60A 156	0.50-60A 156	156	NA NA	
Combustion air adjustment (turbulator/damper)	0/2	0/3	0 / 4	NA NA	
CANADIAN regulation and CSA B212 standard ** AFUE %	83.6	83.1	81.6	NA NA	
US regulation ASHRAE 103 standard AFUE %	81.5	81.0	80.3	NA	
Beckett Burner, Side-wall Installation	0.50.00\4/		sertion 4-15/16")		
Nozzle (Delavan)	0.50-60W	0.50-60W	0.60-60W	NA	
Pump Pressure (PSIG)	130	140	160	NA	
Combustion air adjustment (turbulator/damper)	3 / 1.5	3/3	3 / 4.5	NA	
CANADIAN regulation and CSA B212 standard ** AFUE %	81.5	81.0	80.3	NA	
US regulation ASHRAE 103 standard AFUE %	81.5	81.0	80.3	NA	
Riello Burner, Side-wall Installation	40-BF3 with AL1009 post purge control (tube insertion 5-3/16")				
Nozzle (Delavan)	0.50-60W	0.50-60W	NA NA	0.60-60W	
Pump Pressure (PSIG)	135	140	NA	155	
Combustion air adjustment (turbulator/damper)	0/3	0 / 6	NA	0 / 7.5	
CANADIAN regulation and CSA B212 standard ** AFUE %	83.6	83.1	NA	81.6	
US regulation ASHRAE 103 standard AFUE %	81.5	81.0	NA	80.3	
Electrical System					
Volts - Hertz - Phase			-60–1		
Operating voltage range			- 132		
Rated voltage Amp			2.2		
Minimum ampacity for wiring sizing			3.7		
Max. fuse size (Amps.)			5		
Control transformer	40 VAC				
Ext. control power available, cooling and accessories		30	VAC		
Blower Data					
Blower speed at .50 in wc (125Pa) static pressure	MED-LO	MED-HI	HIGH	HIGH	
Blower speed at .25 in wc (62 Pa) static pressure	MED-LO	MED-HI	HIGH	HIGH	
Maximum cooling speed	LOW	MED-LO	MED-HI	HIGH	
Maximum cooling tons @ .5 in wc (125 Pa)	1.5	2	2.5	3	
Blower wheel size - in(mm)		10" x 10"	(254 x 254)		
Filter Quantity and size - in(mm)		(1) 20 x 20	(508 x 508)		
Weight (Lbs.)		202 (92)			

NOTE: AFUE value established after minimum 20 hours of continuous operation.

** Applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.

ACCESSORIES							
Product Model No.	Burners	Nozzle (not supplied)	Direct Vent Terminal	Direct Vent Pipe	Accessories	Combustible Floor Base	
	N01J040 (Beckett-chimney)	(0.50 – 70A) – N03F015				CFB1	
		0.60-70B - N03H014					
	N01F032 (Riello-chimney) N01J038 (Beckett-direct vent) N01F034	(0.50 – 60A) – N03F014					
OCF105A12		0.60-60A - N03F017			DFVEST1M		
OCFIOSAIZ		(0.50 – 60W) – N03G010	5″(127mm) IFV323 d		Vestibule Kit		
		0.60 - 60W - N03G011		IFV315,			
		(0.50 – 60W) – N03G010		IFV323 01 IFV330			
	(Riello-direct vent)	0.60 – 60W – N03G011					

ADDITIONAL ACCESSORIES					
Accessories Model No	cessories Model No Description				
CAS2B	Outside Air Intake Kit Beckett Direct Vent Burners	ALL Models			
CAD1	Flexible Air Duct – 25' (7.6m) Class 1 for CAS2B	ALL Models			
C7001025	Riello Two-pipe Change over Kit	ALL Models			
Q034	Mounting Bracket Kit for Filters	ALL Models			
Q035	Mounting Mounting Restriction Gauge	ALL Models			
Z08F001	7 Micron Media Filter and Head	ALL Models			
Z08F004	7 Micron Media Filter Replacement	ALL Models			

ACCESSORY DESCR	CCESSORY DESCRIPTION					
Accessories Model No	Description					
N01J040	Beckett AFG-F0 Oil Burner for 5" (127mm) Breech Models					
N01F032	Riello 40-F3 Oil Burner for 5" (127mm) Breech Models					
N01J038	Beckett AFII-85 Oil Burner for 5" (127mm) Breech Models					
N01F034	Riello 40-BF3 Oil Burner for 5" (127mm) Breech Models					
VTK1	Vent Terminal Kit for 5" (127mm) Breech Models					
IFV315	15' x 3" (4.6m x 76mm) Insulated Flex Vent for 5" Breech Models					
IFV323	23' x 3" (7m x 76mm) Insulated Flex Vent for 5" Breech Models					
IFV330	30' x 3" (9m x 76mm) Insulated Flex Vent for 5" Breech Models					
DFVEST1M	Vestibule Kit for Downflow Models					
CFB1	Combustion Floor Base					
N03F014	Nozzle, Oil Burner, Delavan, 0.5 GPH/60° A					
N03F017	Nozzle, Oil Burner, Delavan, 0.6 GPH/60° A					
N03F015	Nozzle, Oil Burner, Delavan, 0.5 GPH/70° A					
N03H014	Nozzle, Oil Burner, Delavan, 0.6 GPH/70° B					
N03G010	Nozzle, Oil Burner, Delavan, 0.5 GPH/60° W					
N03G011	Nozzle, Oil Burner, Delavan, 0.6 GPH/60° W					