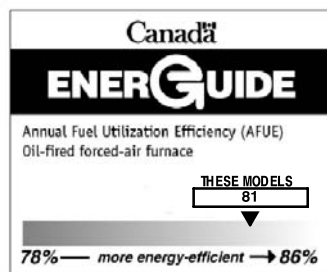




Illustrations and photographs are only representative.
Some product models may vary.



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 Becket 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" clearance to combustibles** – for tight installations
- **Ceramic combustion chamber** – withstands temperature of 2600° F 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** – Up to 81% AFUE
- **Front Flue (Breech)**
- **Warranty** – Limited lifetime on heat exchanger, five(5) years on burner and most other parts

DOWNFLOW/HORIZONTAL OIL FURNACE				
Model Number	Heat Exchangers *	Dimensions H x W x D (in.)	Input (BTU/h)	Cooling capacity @ .5 in wc
OCF105A12	Lifetime	57 x 21 x 21	70,000 – 100,800	1.5 – 3 TON

* Lifetime Limited Warranty

FURNACE SPECIFICATIONS

Model: OCF		OCF105A12C			
Rating and Performance					
Firing Rate		.50	.63	.75	.72
Pump Pressure (PSIG)		100	156	156	145
Input (BTUh)		70,000	88,200	105,000	100,800
Heating capacity, chimney installation (BTUh)		58,000	72,500	85,200	NA
Heating capacity, side-wall installation (BTUh)		58,200	72,600	85,700	83,000
Minimum - maximum Temperature Rise	13 to 24° C / 55 - 70° F				
Stack draft, (Chimney), (Side-wall)	(-0.035" to -0.06") (+0.04" to +0.16")				
Overfire pressure (Chimney), (Side-wall)	(0.00" to +0.035") (+0.10" to +0.25")				
Beckett Burner, Chimney Installation		AFG-F0 (tube insertion 5 ¹ / ₈ ")			
Low firing rate baffle	Yes	Yes	No	NA	
Static disc. model	2 ³ / ₄ #3383				NA
Nozzle (Delavan)	0.50-70A			0.60-70B	NA
Combustion air adjustment (shutter/band)	0 / 4.5	0 / 8	0 / 7.5	NA	
Riello Burner, Chimney Installation		40-F3 (tube insertion 5 ³ / ₁₆ ")			
Nozzle (Delavan)	NA	0.50-60A	0.60-60A	NA	
Combustion air adjustment (turbulator/damper)	NA	0 / 3	0 / 4	NA	
Beckett Burner, Side-wall Installation (VTK- 1)		AFII-85 (tube insertion 4 ¹⁵ / ₁₆ ")			
Nozzle (Delavan)	0.50-60W			0.60-60W	NA
Combustion air adjustment (screw/dial)	3 / 1.5	3 / 3	3 / 4.5	NA	
Riello Burner, Side-wall Installation (VTK- 1)		40-BF3 (K7R) (tube insertion 5 ³ / ₁₆ ")			
Nozzle (Delavan)	NA	0.50-60W	NA	0.60-60W	
Combustion air adjustment (turbulator/damper)	NA	0 / 6	NA	0 / 7.5	
Electrical System					
Volts - Hertz - Phase	115-60-1				
Operating voltage range	104 - 132				
Rated voltage Amp	12.2				
Minimum ampacity for wiring sizing	13.7				
Max. fuse size (Amps.)	15				
Control transformer	40 VAC				
Ext. control power available, cooling and accessories	30 VAC				
Blower Data					
Motor (HP) / number of speeds	1 ¹ / ₃ HP / 4 speeds				
Blower wheel size (in.)	10" x 10"				
Filter Quantity and size (in.)	(1) 20 x 20				
Weight (Lbs.)	202				

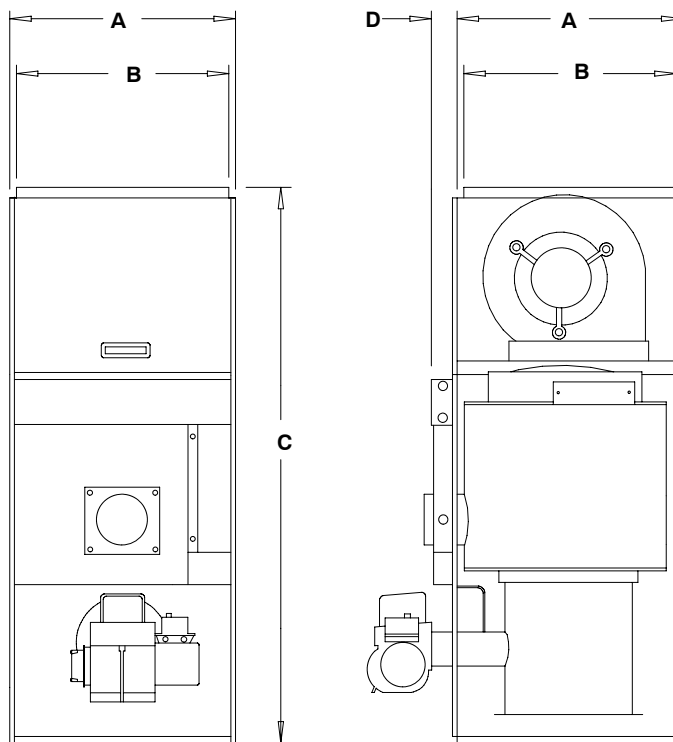
BLOWER PERFORMANCE DATA (Air delivery - CFM with air filter)

Model No.	OCF105A12						
	External Static Pressure with Air filter						
Speed	0.1"	0.2"	0.3"	0.4"	0.5"	0.6"	0.7"
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

NEW MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER	O	C	F	105	A	12	C
FUEL O = Oil							REVISION
PRODUCT GROUP U = Upflow H = Horizontal T = Upflow/Horizontal L = Lowboy D = Downflow C = Downflow/Horizontal M = Multiposition							AIR FLOW 08 = 800 CFM 12 = 1200 CFM 18 = 1800 CFM 20 = 2000 CFM
SERIES F = Front Breech R = Rear Breech							SUPPLY PLENUM SIZE A = 20 x 20 B = 24 x 24
							INPUT, MBTUH

DIMENSIONS



Representative only, some models may vary in appearance.
ALL DIMENSIONS IN INCHES (1 INCH = 25.4 MM)

27-11-25

Furnace Dimensions (inches)					
Model No.	A	B	C	D	Flue
OCF105A12	21	19 ³ / ₄	57	2.4	5

Minimum Installation Clearances from Combustible Materials		
		OCF105
Sides	Furnace	1" (25.4 mm)
	Supply plenum, warm air duct within 6' of furnace	1" (25.4 mm)
Back	Furnace	1" (25.4 mm)
Top	Furnace casing or plenum	1" (25.4 mm)
Bottom	Furnace - combustible floor*	0"
Front	Furnace	24" (609.6 mm)

* Combustible floor requires accessory base CFB-1

ACCESSORIES

Product Model No.	Burners	Nozzle (not supplied)	Direct Vent Terminal	Direct Vent Pipe	Accessories	Combustible Floor Base
OCF105A12	N01J040 (Beckett-chimney)	(0.50 - 70A) - N03F015	--	--	DFVEST1 Vestibule Kit	CFB1
		0.60-70B - N03H014	--	--		
	N01F032 (Riello-chimney)	(0.50 - 60A) - N03F014	--	--		
		0.60-60A - N03F017	--	--		
	N01J038 (Beckett-direct vent)	(0.50 - 60W) - N03G010	VTK1 5"	IFV315, IFV323 or IFV330		
		0.60 - 60W - N03G011				
	N01F034 (Riello-direct vent)	(0.50 - 60W) - N03G010				
		0.60 - 60W - N03G011				

ADDITIONAL ACCESSORIES

Accessories Model No	Description	Use With
CAS2B	Outside Air Intake Kit Beckett Direct Vent Burners	ALL Models
CAD1	Flexible Air Duct - 25' 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 DESCRIPTION

Accessories Model No	Description
N01J040	Beckett AFG-F0 Oil Burner for 5" Breech Models
N01F032	Riello 40-F3 Oil Burner for 5" Breech Models
N01J038	Beckett AFII-85 Oil Burner for 5" Breech Models
N01F034	Riello 40-BF3 Oil Burner for 5" Breech Models
VTK1	Vent Terminal Kit for 5" Breech Models
IFV315	15' x 3" Insulated Flex Vent for 5" Breech Models
IFV323	23' x 3" Insulated Flex Vent for 5" Breech Models
IFV330	30' x 3" Insulated Flex Vent for 5" Breech Models
DBVEST1	Vestibule Kit for Downflow Models
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
CFB1	Combustion Floor Base