

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

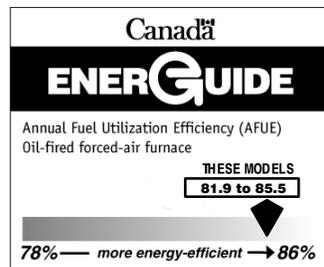
### HI-BOY MULTI-POSITION OIL FURNACE

#### FEATURES

- **Stainless Steel construction** – Heavy gauge heat exchanger quickly transfers heat to the ambient air
- **Multi-position** – True 4-way multipoise unit that opens-up installation possibilities
- **Low profile** – OMF098 is 40-3/4 inches (1035mm) high and OMF112 is 41-1/2 inches (1054mm) high OMF154 is 47-7/8 inches (1216mm) high
- **Sound attenuator** – High density acoustic wool dampens combustion sound
- **Burners** – Choice of high static pressure oil burners Becket NX, Riello 40-F3/40-BF3/40-BF5 (Burners must be ordered separately)
- **Inspection port** – External for easy access and sealed – Adjust combustion parameters and simplify inspections
- **Accessories included** – Barometric draft regulator, external filter rack and air filter
- **High quality finish** – High gloss baked
- **Efficiency** – AFUE up to 86.7% Canada, 86.3% US
- **Approved** – For chimney vent and sealed combustion installations

#### 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.



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.

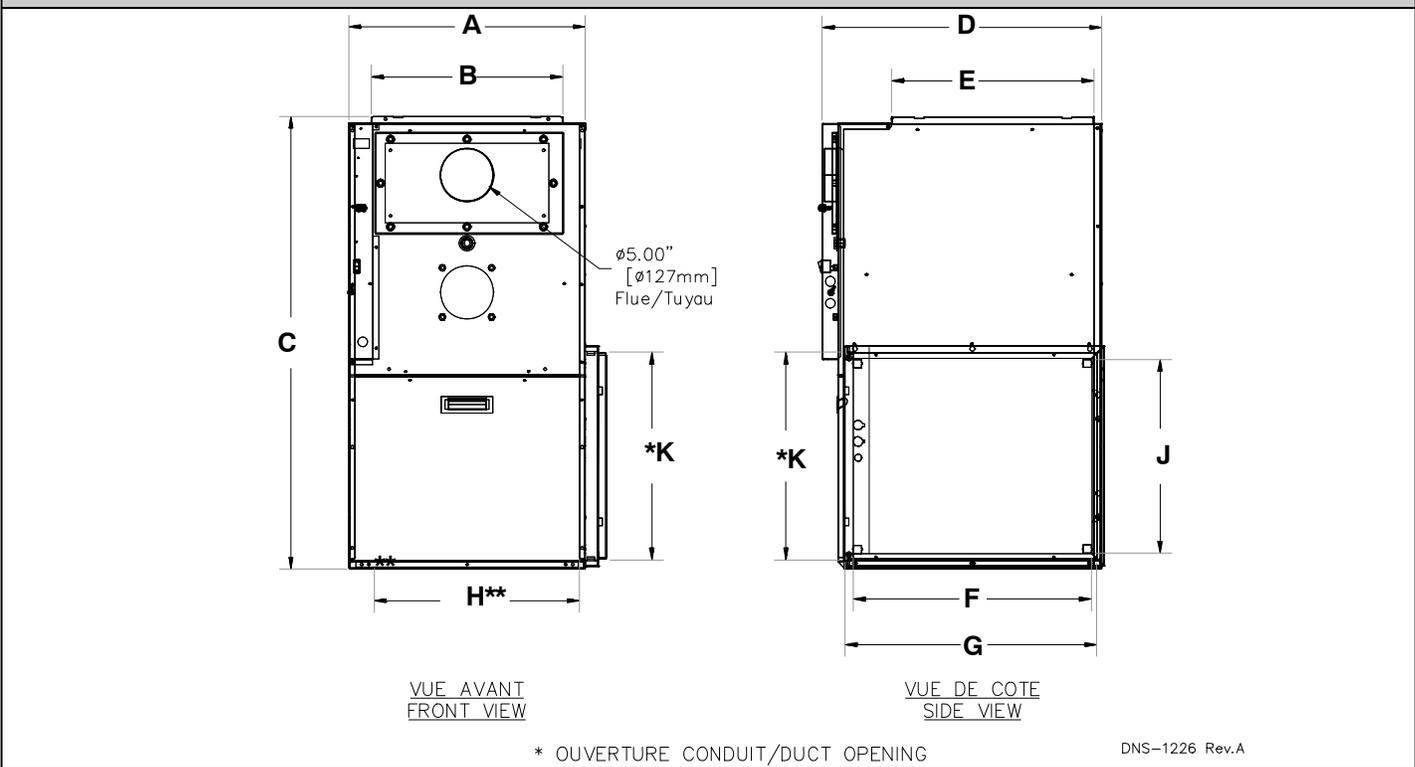
Model Number	Input (BTU/h)	Efficiency AFUE		Cooling capacity @ .5 in wc (125 Pa)	Dimensions in(mm) H x W x D†	Shipping Wt. Lbs. (Kg.)
		CANADA	US			
OMF098J10	70,000–98,000	81.9–85.0‡	81.9–85.0‡	2.5 Tons	40 3/4 x 16 7/8 x 21 1/2 (1035 x 429 x 546)	125 (57)
OMF112K14	95,200–112,000	85.0‡–85.5‡	85.0‡–85.2‡	3.5 Tons	41 1/2 x 21 3/4 x 25 3/4 (1054 x 553 x 654)	153 (70)
OMF154L20	126,000–154,000	85.3‡–86.7‡	85.0‡–86.3‡	5.0 Tons	47-7/8 x 28-1/2 x 25 (1216 x 724 x 635)	200 (90)

‡ Meets EnergyStar guidelines (Only specific firing rates meet the ENERGY STAR® guidelines).  
† Depth is without the burner

**MODEL NUMBER IDENTIFICATION GUIDE**

<b>MODEL NUMBER</b>	<b>O</b>	<b>M</b>	<b>F</b>	<b>098</b>	<b>J</b>	<b>10</b>	<b>#</b>	<b>REVISION</b>
<b>FUEL</b> O = Oil								<b>AIR FLOW</b> 10 = 1000 CFM 12 = 1200 CFM 14 = 1400 CFM
<b>PRODUCT GROUP</b> U = Upflow H = Horizontal T = Upflow/Horizontal L = Lo-Boy	D = Downflow C = Downflow/Horizontal M = Multiposition							<b>SUPPLY PLENUM SIZE</b> A = 20 x 20 B = 24 x 24 C = 21 <sup>1</sup> / <sub>8</sub> x 21 <sup>1</sup> / <sub>2</sub> G = 22 x 30 K = 17 <sup>1</sup> / <sub>2</sub> x 19
<b>SERIES</b> F = Front Breech R = Rear Breech V = Variable Motor								D = 19 x 20 E = 19 x 24 F = 20 x 24 J = 16 x 19 L = 20 x 22
								<b>INPUT, MBTUH</b>

**DIMENSIONS AND CLEARANCES**



**FURNACE DIMENSIONS - in(mm)**

OMF	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
098	16-7/8(429)	16(406)	40-3/4(1035)	21-1/2(546)	19(483)	17-3/4(451)	19	18-3/4(476)	17-3/4(451)	19(483)
112	21-5/8(550)	17-1/2(444)	41-1/2(1054)	25-1/2(649)	19(483)	21-3/4(552)	23(584)	18-3/4(476)	17-3/4(451)	19(483)
154	23(584)	20(508)	47-7/8(1216)	28-1/2(725)	22(559)	21-3/4(552)	23(584)	25(635)	21-3/4(552)	23(584)

\*\* For the 098, use Floor Return Base (FRB101) accessory to achieve 18-3/4 return air opening.

**MINIMUM INSTALLATION CLEARANCES FROM COMBUSTIBLE MATERIALS - in(mm)**

Location	Application	Upflow	Downflow	Horizontal
Sides	Furnace <sup>1</sup>	1 (25)	1 (25)	N / A
	Supply plenum - within 6ft (1.8m) of furnace <sup>1</sup>	2 (51)	2 (51)	1 (25)
Bottom	Furnace <sup>2</sup> (*use sub-base on combustible floor)	0	2 (51) <sup>4</sup>	1 (25) <sup>3</sup>
Back	OMF098 Furnace (opposite end of burner) <sup>1</sup>	3 (76)	3 (76)	1 (25)
	OMF112 & OMF154 Furnace (opposite end of burner) <sup>1</sup>	3 (76)	3 (76)	3 (76)
Top	Furnace <sup>2</sup> or Plenum	N / A	N / A	2 (51)
	OMF098 & OMF154 Horizontal warm air duct - within 6ft (1.8m) of furnace	2 (51)	2 (51)	2 (51)
	OMF112 Horizontal warm air duct - within 6ft (1.8m) of furnace	2 (51)	2 (51)	3 (76)
Flue pipe	Vertically above flue pipe	9 (229)	9 (229)	9 (229)
Front	Furnace (burner end) <sup>1</sup>	18 (457)	18 (457)	18 (457)

<sup>1</sup> Horizontal dimensions

<sup>2</sup> Vertical dimensions

<sup>3</sup> This dimension can be obtained by using Horizontal Flow Base # HFB101

<sup>4</sup> This dimension can be obtained by using Downflow Base # DFB102 for OMF098 or DFB103 for OMF112 & DFB104 for OMF154

FURNACE SPECIFICATIONS							
Model:	OMF098			OMF112		OMF154	
<b>Rating &amp; Performance</b>							
Firing rate (USGPH)*	0.50	0.60	0.70	0.68	0.80	0.90	1.10
Input (BTU/h)*	70,000	84,000	98,000	95,200	112,000	126,000	154,000
Maximum heating capacity (BTU/h)*	59,200	70,400	80,800	81,200	94,200	107,000	129,000
Heating temperature rise *	31 - 47°C / 55 - 85°F			31 - 42°C / 55 - 75°F		31 - 42°C / 55 - 75°F	
Flue draft with chimney (in. w.c. / Pa)	-0.06 to -0.025 / -14.9 to -6.2			-0.06 to -0.025 / -14.9 to -6.2		-0.06 to -0.035 / -14.9 to -8.7	
Overfire pressure with chimney (in. w.c. / Pa)	-0.035 to +0.010 / -8.7 to +2.5			-0.035 to +0.025 / -8.7 to +6.2		-0.035 to +0.045/-8.7 to +11.2	
Flue draft with direct vent (in. w.c. / Pa)	+0.05 to +0.20 / +12.5 to +50			+0.03 to +0.15 / +7.5 to +37.5		+0.05 to +0.16 / +12.5 to +40	
Overfire pressure with direct vent (in. w.c. / Pa)	+0.03 to +0.15 / +7.5 to +37.5			+0.05 to +0.17 / +12.5 to +42.3		+0.06 to +0.22/+14.9 to +54.8	
<b>Beckett Burner, Chimney or Direct Vent</b>							
	NX56LQ			NX56LQ		NX	
Burner tube insertion length	2-3/4" (70mm)			1-3/4" (45mm)		1-3/4" (45mm)	
Head type	6-slot LQ head			6-slot LQ head		6-slot LC head	
Nozzle (Delavan)	0.40-60A	0.50-60A	0.60-60A	0.60 - 60A	0.70 - 60A	0.75-60B	0.90-60B
Pump pressure (PSIG)*	155	145	135	130	130	145	150
(kPa)*	1069	1000	931	896	896	1000	1034
Head/Air setting	0.5	1.5	2.5	1.5	2.5	3.5	4.0
CANADIAN regulations and CSA B212 standard ** AFUE %	85.0 ‡	84.2	81.9	85.5 ‡	85.0 ‡	86.7 ‡	85.3 ‡
US regulations and ASHRAE 103 standard AFUE %	85.0 ‡	83.9	81.9	85.2 ‡	85.0 ‡	86.3 ‡	85.0 ‡
<b>Riello Burner, Chimney</b>							
	40-F3 with Air Inlet Damper			40-F3 with Air Inlet Damper		F5	
Burner tube insertion length	2 3/4" (70mm)			2 3/4" (70mm)		2 3/4" (70mm)	
Nozzle (Delavan)	0.40-70A	0.50-70A	0.60-70A	0.60 - 70A	0.70 - 70A	0.75-60A	0.90-70A
Pump pressure (PSIG)*	155	145	135	130	130	145	150
(kPa)*	1069	1000	931	896	896	1000	1034
Combustion air adjustment (turbulator/damper)	0 / 1.5	0 / 2.5	1 / 3.5	1 / 2.6	2 / 3.1	1.5/2.25	2.5/2.75
CANADIAN regulations and CSA B212 standard ** AFUE %	85.0 ‡	84.3	81.9	85.5 ‡	85.0 ‡	86.7 ‡	85.3 ‡
US regulations and ASHRAE 103 standard AFUE %	85.0 ‡	83.9	81.9	85.2 ‡	85.0 ‡	86.3 ‡	85.0 ‡
<b>Riello Burner, Direct Vent</b>							
	40-BF3			40-BF5		40-BF5	
Burner tube insertion length	2 3/4" (70mm)			2 3/4" (70mm)		2 3/4" (70mm)	
Nozzle (Delavan)	0.40-70A	0.50-70A	0.60-70A	0.60 - 70A	0.70 - 70A	0.75-70A	0.90-70A
Pump pressure (PSIG)*	155	145	135	130	130	145	150
(kPa)*	1069	1000	931	896	896	1000	1034
Combustion air adjustment (turbulator/damper)	0 / 3.25	0 / 4	1 / 5.25	0 / 2.75	0 / 3.25	1.0/3.75	3.0/4.25
CANADIAN regulations and CSA B212 standard ** AFUE %	85.0 ‡	84.2	81.9	85.5 ‡	85.0 ‡	86.7 ‡	85.3 ‡
US regulations and ASHRAE 103 standard AFUE %	85.0 ‡	83.9	81.9	85.2 ‡	85.0 ‡	86.3 ‡	85.0 ‡
<b>Electrical System</b>							
Volts - Hz - Phase	115 - 60 - 1			115 - 60 - 1		115 - 60 - 1	
Rated current (Amps)	12.2			12.6		16.9	
Minimum ampacity for wire sizing (Amps)	13.7			15.2		19.5	
Max. fuse size (Amps)	15			20		20	
Control Transformer (VA)	40			40		40	
External control power available Heating (VA)	40			40		40	
Cooling (VA)	30			30		30	
<b>Blower Data, Side Air Return</b>							
Heating blower speed at 0.25 in. w.c. (62 Pa)	Med-Low	Med-High	High	Med-Low	Med-High	Med-Low	Med-High
Heating blower speed at 0.50 in. w.c. (125 Pa)	Med-Low	Med-High	High	Med-Low	Med-High	Med-Low	Med-High
Heating Air flow at 0.25 in. w.c. (62 Pa) - side air return - CFM(L/s)	850 (401)	1050 (496)	1165 (550)	1180 (597)	1320 (623)	1515 (715)	1875(885)
Cooling Air flow at 0.50 in. w.c. (125 Pa) - side air return - CFM(L/s)	795 (375)	925 (437)	1050 (496)	1080 (510)	1200 (566)	1915(903)	1915(903)
Motor (HP) / Number of speeds	1/3 HP / 4 speeds			1/2 HP / 4 speeds		1 HP / 4 speeds	
Blower wheel size in(mm)	10 x 8 (254 x 203)			10 x 10 (254 x 254) (tight housing)		12 x 10 (304 x 254)	
<b>General Information</b>							
Overall dimensions W x D x H - in(mm)	16-7/8" x 21-1/8" x 40-3/4" (429 x 537 x 1035)			21-3/4" x 25-3/4" x 41-1/2" (553 x 654 x 1054)		25" x28-1/2" x 47-7/8" (635 x 724 x 1216)	
Supply air opening - in(mm)	16" x 19" (406 x 483)			17-1/2" x 19" (445 x 483)		20" x 22" (508 x 559)	
Return air opening - in(mm)	19" x 19" (483 x 483)			23" x 19" (584 x 483)		23" x 23" (584 x584)	
Filter size - in(mm)	20" x 20" (508 x 508)			24" x 20" x 1" (610 x 508 x 25)		24" x 24" x 1"	
Shipping weight - lbs(kg)	125 (57)			153 (70)		200 (90)	
Air conditioning, maximum output - tons	2.5			3.5		5.0	

\* INPUT & OUTPUT ADJUSTMENT  
 Pump pressure can be increased up to 190 PSIG.  
 Adjust flue gas temperature between 400 and 575 °F/204 and 301°C  
 Adjust fan speed for air temperature rise of 55 to 85 °F/30 to 47°C.

\*\* AFUE value established after minimum 20 hours of continuous operation.  
 ‡ Meets EnergyStar guidelines (Only specific firing rates meet the ENERGY STAR® guidelines).

**BLOWER PERFORMANCE DATA (Air delivery – with air filter)**

**OMF098**

OMF098	External Static Pressure – in. w.c.								
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Speed	CFM								
HIGH	1230	1185	1150	1095	1050	990	920	810	595
MED-HIGH	1090	1055	1005	970	925	875	810	700	550
MED-LOW	865	860	860	845	795	745	695	600	460
LOW	675	680	690	680	665	640	565	480	390

OMF098	External Static Pressure – Pa								
	25	50	75	100	125	149	174	199	224
Speed	L/s								
HIGH	580	559	543	517	496	467	434	382	281
MED-HIGH	514	498	474	458	437	413	382	330	260
MED-LOW	408	406	406	399	375	349	328	283	217
LOW	319	321	326	321	314	302	267	227	184

**OMF112**

OMF112	External Static Pressure – in. w.c.					
	0.2	0.3	0.4	0.5	0.6	0.7
Speed	CFM					
HIGH	1550	1510	1460	1400	1320	1220
MED-HIGH	1320	1280	1240	1200	1160	1020
MED-LOW	1180	1150	1110	1080	1040	940
LOW	1070	1040	1010	980	910	840

OMF112	External Static Pressure – Pa					
	50	75	100	125	149	174
Speed	L/s					
HIGH	731	713	689	661	623	576
MED-HIGH	623	604	585	566	547	481
MED-LOW	557	543	524	510	491	444
LOW	505	491	477	462	429	396

**OMF154**

OMF154	External Static Pressure – in. w.c.					
	0.2	0.3	0.4	0.5	0.6	0.7
Speed	CFM					
HIGH	2130	2085	1995	1915	1820	1745
MED-HIGH	1930	1855	1800	1750	1675	1615
MED-LOW	1565	1495	1460	1430	1400	1360
LOW	1185	1170	1140	1105	1080	1065

OMF154	External Static Pressure – Pa					
	50	75	100	125	149	174
Speed	L/s					
HIGH	1005	984	941	904	859	824
MED-HIGH	911	875	849	826	790	762
MED-LOW	739	706	689	675	661	642
LOW	559	552	538	521	510	503

**ACCESSORIES**

Model Number	Burners	Nozzle (supplied)	Model Number	Burners	Nozzle (supplied)
OMF098	N01J050 Beckett (chimney or direct)	0.40 – 60A – N03F027	OMF112	N01F051 Riello (chimney)	(0.60–70A – N03F026)
		(0.50–60A) – N03F014			0.70–70A – N03F024
		0.60–60A – N03F017		N01F052 Riello (direct)	(0.60–70A – N03F026)
	N01F054 Riello (chimney)	0.40–70A – N03F018		0.70–70A – N03F024	
		(0.50 – 70A) – N03F015		N01J053 Beckett (chimney)	(0.75–60B – N03H010)
		0.60–70A – N03F026		0.90–60B – N03H029	
	N01F055 Riello (direct)	0.40 – 70A – N03F018		(0.75–70A – N03F028)	
(0.50 – 70A) – N03F015		0.90–70A – N03F029			
0.60–70A – N03F026		(0.75–70A – N03F028)			
OMF112	N01J052 Beckett (direct)	(0.60–60A – N03F017)	N01F056 Riello (direct)	0.90–70A – N03F029	
		0.70–60A – N03F030			

**ACCESSORY DESCRIPTION**

Model No	Description
N03F014	Nozzle, Oil Burner, Delavan, 0.50 GPH/60°A–Beckett (supplied with burner) for OMF098
N03F015	Nozzle, Oil Burner, Delavan, 0.50 GPH/70° A–Riello (supplied with burner) for OMF098
N03F017	Nozzle, Oil Burner, Delavan, 0.60 GPH/60°A–Beckett for OMF098 & OMF112
N03F018	Nozzle, Oil Burner, Delavan, 0.40 GPH/70°A–Riello for OMF098
N03F024	Nozzle, Oil Burner, Delavan, 0.70 GPH/70° A–Riello for OMF112
N03F026	Nozzle, Oil Burner, Delavan, 0.60 GPH/70° A–Riello for OMF098 & OMF112
N03F027	Nozzle, Oil Burner, Delavan, 0.40 GPH/60°A–Beckett for OMF098
N03F028	Nozzle, Oil Burner, Delavan, 0.40 GPH/70°A–Reillo for OMF154
N03F029	Nozzle, Oil Burner, Delavan, 0.40 GPH/70°A–Reillo for OMF154
N03F030	Nozzle, Oil Burner, Delavan, 0.70 GPH/60° A–Beckett for OMF112
N03H010	Nozzle, Oil Burner, 0.75 GPH/60° B–Beckett for OMF154
N03H029	Nozzle, Oil Burner, 0.90 GPH/60° B–Beckett for OMF154
N01F051	Riello Burner (Chimney Vent) for OMF112
N01F052	Riello Burner (Direct Vent) for OMF112
N01F053	Riello Burner (Chimney Vent) for OMF154
N01F054	Riello Burner (Chimney Vent) for OMF098
N01F055	Riello Burner (Direct Vent) for OMF098
N01F056	Riello Burner (Direct Vent) for OMF154
N01J050	Beckett NX Oil Burner for OMF098
N01J052	Beckett NX Oil Burner for OMF112
N01J053	Beckett NX Oil Burner for OMF154
DFB102	Downflow Subbase for OMF098
DFB103	Downflow Subbase for OMF112
DFB104	Downflow Subbase for OMF154
FRB101	Floor Return Base for OMF098
HFB101	Horizontal Floor Base
IFV508	5" Ø x 8' Insulated Flex Vent for 5" Breech Models 8ft (2.4m) for OMF154
IFV520	5" Ø x 20' Insulated Flex Vent for 5" Breech Models 20ft (6m) for OMF154
IFV09810	4" Ø x 10' (102mm x 3m) Insulated Flex Vent for 4" (102mm) Breech Models 10ft (3m)
IFV09820	4" Ø x 20' (102mm x 6m) Insulated Flex Vent for 4" (102mm) Breech Models 20ft (6m)
VTK3	Vent Terminal Kit for 5"
VTK098	Vent Terminal Kit for 4"

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