

SPECIFICATIONS: OIL FORCED AIR SERIES

Model	NL2-77	NL2-89	NL2-101	NL2-118	NL3-121	NL3-149	NL3-160	NL3-177
B.T.U.H. Input	90,610	104,550	118,490	139,400	139,400	174,250	188,190	209,100
B.T.U.H. Output	77,000	89,000	101,000	118,000	121,000	149,000	160,000	177,000
Firing Rate – USGPH	.65	.75	.85	1.00	1.00	1.25	1.35	1.50
Flue Draft	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.
Burner	Aero: HF-US-2X or Beckett: AFG or Carlin: EZ1				Aero: HF-US-3 or Beckett: AFG or Carlin: EZ1			
Nozzle	.65	.75	.85	1.00	1.00	1.25	1.35	1.50
Burner	Riello: 40F3				Riello: 40F5			
Nozzle	.60	.65	.75	.85	.85	1.00	1.10	1.25
CFM at 20" & 50" W.C. Static Pressure	1100	1200	1350	1500	1500	1800	1950	2100
Blower	10"	10"	10"	10"	12"	12"	12"	12"
@ 20" W.C. Static Pressure at 85 Temp. Rise								
• Blower Motor	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP
• Motor Pulley	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS
• Fan Pulley	7"	7"	7"	7"	8"	8"	8"	8"
@ 50" W.C. Static Pressure at 85 Temp. Rise								
• Blower Motor	1/3 HP	1/3 HP	1/3 HP	1/2 HP	3/4 HP	3/4 HP	3/4 HP	3/4 HP
• Motor Pulley	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/2 x 1/2 VS	3 1/2 x 1/2 VS	3 1/2 x 1/2 VS	3 1/2 x 1/2 VS
• Fan Pulley	6"	6"	6"	6"	7"	7"	7"	7"
Direct Drive Blower	G10-8	G10-8	G10-8	G10-8				
@ 2 & 5" W.C. S.P. at 85 T.R.	1100 CFM	1200 CFM	1350 CFM	1500 CFM				
4 Speed Blower Motor	1/2 HP	1/2 HP	1/2 HP	1/2 HP				
AC Rating (tons)	3.5	3.5	3.5	3.5	5	5	5	5
Filter	(2) 16 x 24	(2) 16 x 24	(2) 16 x 24	(2) 16 x 24	1-16 x 25	1-16 x 25	1-16 x 25	1-16 x 25
					1-20 x 25	1-20 x 25	1-20 x 25	1-20 x 25
Shipping Weight	350 lbs.	350 lbs.	350 lbs.	350 lbs.	400 lbs.	400 lbs.	400 lbs.	400 lbs.

Model	NLF-77	NLF-89	NLF-101	NLF-118	NMR-77	NMR-89	NMR-101	NMR-118
B.T.U.H. Input	90,610	104,550	118,490	139,400	90,610	104,550	118,490	139,400
B.T.U.H. Output	77,000	89,000	101,000	118,000	77,000	89,000	101,000	118,000
Firing Rate – USGPH	.65	.75	.85	1.00	.65	.75	.85	1.00
Flue Draft	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.	.02 W.C.
Burner	Aero: HF-US-2X or Beckett: AFG or Carlin: EZ1				Aero: HF-US-2X or Beckett: AFG or Carlin: EZ1			
Nozzle	.65	.75	.85	1.00	.65	.75	.85	1.00
Burner	Riello: R40.3				Riello: R40.3			
Nozzle	.60	.65	.75	.85	.60	.65	.75	.85
CFM at 20" & 50" W.C. Static Pressure	1025	1200	1300	1400	1025	1150	1250	1350
Belted Drive Blower	10"	10"	10"	10"	10"	10"	10"	10"
@ 20" W.C. Static Pressure at 85 Temp. Rise								
• Blower Motor	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP
• Motor Pulley	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS
• Fan Pulley	7"	7"	7"	7"	7"	7"	7"	7"
@ 50" W.C. Static Pressure at 85 Temp. Rise								
• Blower Motor	1/3 HP	1/3 HP	1/3 HP	1/2 HP	1/3 HP	1/3 HP	1/3 HP	1/2 HP
• Fan Pulley	6"	6"	6"	6"	6"	6"	6"	6"
Direct Drive Blower	G10-8	G10-8	G10-8	G10-8	G10-8	G10-8	G10-8	G10-8
@ 2 & 5" W.C. S.P. at 85 T.R.	1025 CFM	1200 CFM	1300 CFM	1400 CFM	1025 CFM	1150 CFM	1250 CFM	1350 CFM
4 Speed Blower Motor	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP
AC Rating (tons)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Filter	(2) 16 x 24	(2) 16 x 24	(2) 16 x 24	(2) 16 x 24	(1) 16 x 24 (1) 12 x 24	(1) 16 x 24 (1) 12 x 24	(1) 16 x 24 (1) 12 x 24	(1) 16 x 24 (1) 12 x 24
Shipping Weight	330 lbs.	330 lbs.	330 lbs.	330 lbs.	295 lbs.	295 lbs.	295 lbs.	295 lbs.

Model	NH3-77	NH3-89	NH3-101
B.T.U.H. Input	90,610	104,550	118,490
B.T.U.H. Output	77,000	89,000	101,000
Firing Rate U.S.G.P.H.	.65	.75	.85
Flue Draft	.02 W.C.	.02 W.C.	.02 W.C.
Burner	AERO: HF-US-2X or BECKETT: AFG or CARLIN: EZ-1		
Delevan 70 A or Monarch 70 NS	.65	.75	.85
Burner	RIELLO: 40F3		
Delevan 60 B or Monarch 60 R	.60	.65	.75
CFM at 20" & 50" W.C. Static Pressure	900	1,000	1,100
Blower	9"	9"	9"
Belt Drive Models			
• Blower Motor	1/2 HP	1/2 HP	1/2 HP
• Motor Pulley	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS	3 1/4 x 1/2 VS
@ 20" W.C. Static Pressure			
• Fan Pulley	6"	6"	6"
• Belt Size	34"	34"	34"
@ 50" W.C. Static Pressure			
• Fan Pulley	5"	5"	5"
• Belt Size	33"	33"	33"
Direct Drive			
@ 20" & 50" W.C.	9"	9"	9"
4 Speed Blower Motor	1/3 HP	1/3 HP	1/3 HP
AC Rating (tons)	3	3	3
Filter (Qty.)	(1) 16 x 24	(1) 16 x 24	(1) 16 x 24
Shipping Weight (lbs.)	290 lbs.	290 lbs.	290 lbs.

Model	LFR -63	LFR -75	LFR -88	LFR -66	LFR -80	LFR -89	LFR -72	LFR -87	LFR -78	LFR -90
B.T.U.H. Input	71,094	85,034	101,762	75,276	93,398	101,368	85,034	101,762	90,610	104,550
B.T.U.H. Output	63,000	75,000	88,000	66,000	81,000	89,000	73,000	87,000	78,000	90,000
Firing Rate – USGPH	0.51	0.61	0.73	0.54	0.67	0.73	0.61	0.73	0.65	0.75
Flue Draft (W.C.)	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Burner	Riello F40 F3 Riello BF3		Beckett AFG 70 MM		Carlin EZ-1	Aero SSV -12-5				
Nozzle	0.40	0.50	0.60	0.40	0.50	0.55	0.50	0.60	0.65	0.75
Direct Drive Blower	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
CFM at 20" & 50" W.C. at 85 Temp. Rise	750	875	1000	750	875	1000	875	1000	875	1000
4 Speed Blower Motor	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP
AC Rating (tons)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Filter	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25	20 x 25
Shipping Weight (lbs)	250	250	250	250	250	250	250	250	250	250

- LFR and NL2 models approved for Sealed Balance Flue (SVS) (Other models pending approval)
- Optional 5 tons available on NL2 model

BURNERS

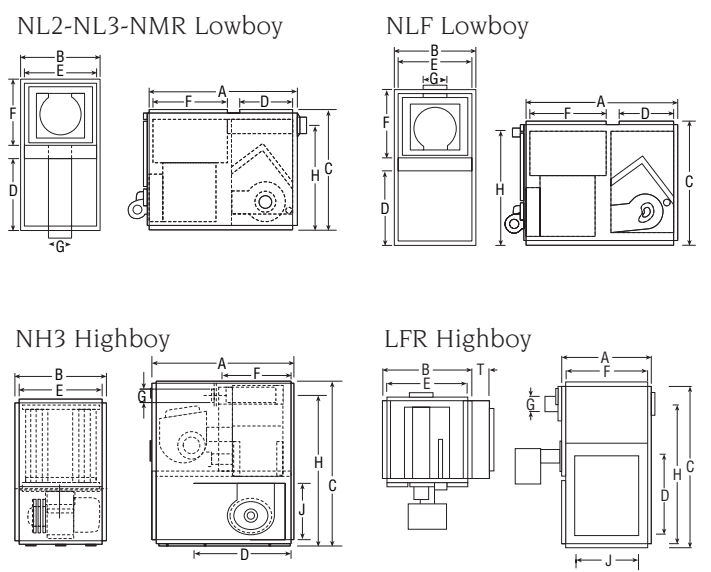
Approved with either Aero, Beckett, Riello or Carlin burners with flame retention head for maximum efficiency and minimum maintenance requirements.



DIMENSIONS

Model	NL2	NL3	NLF	NMR	NH3	LFR
A Length	46 1/2"	54 1/2"	46 1/2"	46 1/2"	34 1/4"	24 1/4"
B Width	24"	24"	24"	24"	20"	22"
C Height	44 1/2"	46"	44 1/2"	35"	50 3/4"	41 1/2"
D&E Return Air Plenum	18" x 22"	23 3/4" x 24"	18" x 22"	18" x 22"		
D&J Return Air Plenum					22" x 14"	16" x 20"
E&F Warm Air Plenum	22 x 22	24" x 23 3/4"	22" x 22"	22" x 22"	20" x 18"	20" x 20"
G Flue Pipe Dia.	6"	7"	6"	6"	5"	4"
H Floor to Center of Flue Pipe	37"	39"	37"	29"	45 3/4"	36"
T Width of Filter Rack						4"
Overall Length, including Burner & Flue Pipe	57 1/2"	66"	53 1/2"	57 1/2"	34 1/4"	36 1/2"

FOOTPRINTS



Ask about Newmac's complete line of oil fired forced air furnaces/boilers and combination oil/solid fuel furnaces.

Available From:



Due to our continuous development and improvement program specifications are subject to change without notice.



Newmac Manufacturing Inc.

P.O. Box 9,
Debert, Nova Scotia
B0M 1G0 Canada
Tel: 902-662-3840
Fax: 902-662-2581

P.O. Box 545,
Woodstock, Ontario
N4S 7Y5 Canada
Tel: 519-539-6147
Fax: 519-539-0048

email: newmac@fox.nstn.ca
website: NewmacFurnaces.com

ENERGYGUIDE

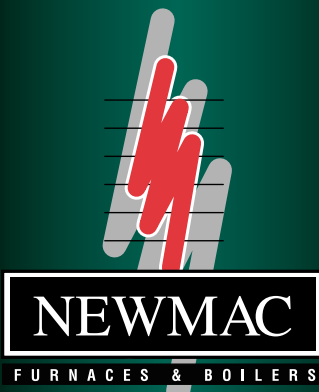
VERIFIED FOR ENERGY PERFORMANCE



oil fired forced air FURNACES



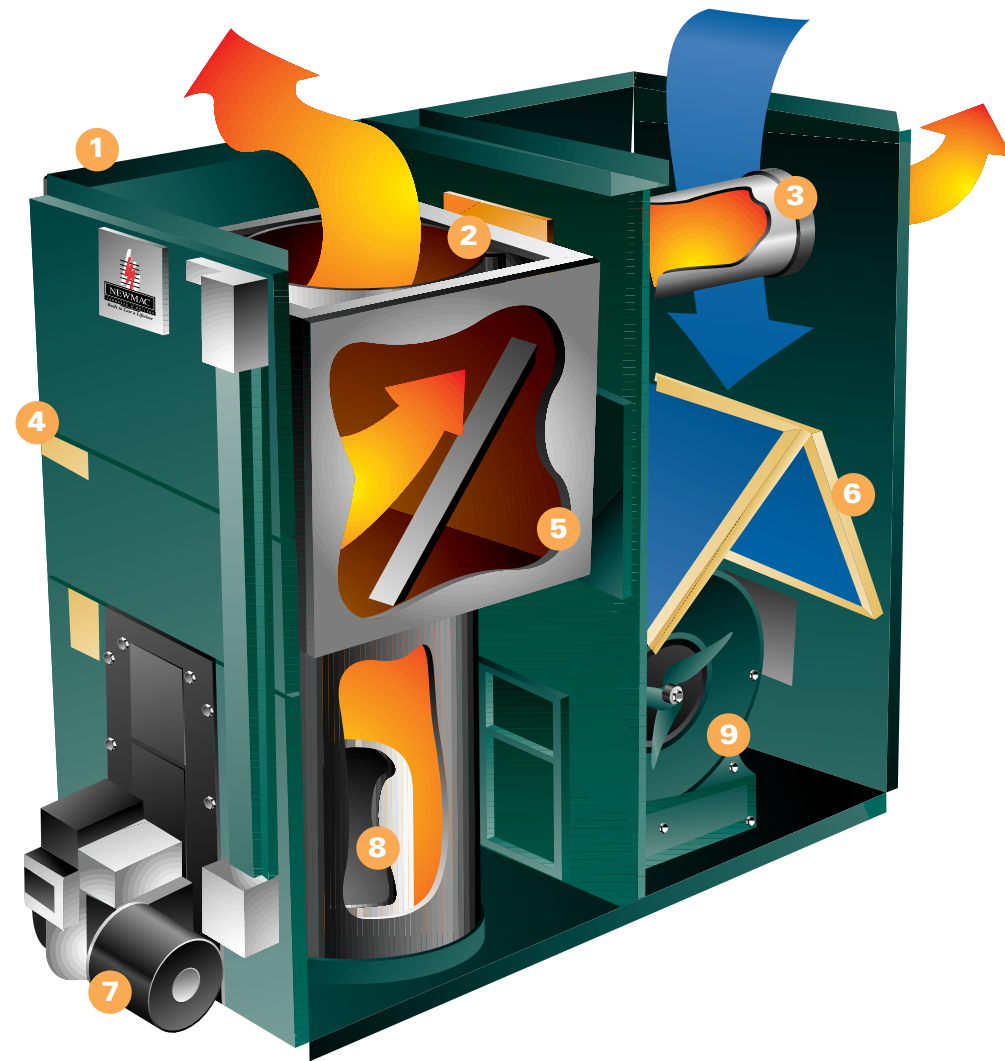
BUILT TO LAST A LIFETIME



TOTAL COMFORT

NEWMAC ~ QUIET, CLEAN, HIGH EFFICIENCY HEATING SOLUTIONS

Over the past twenty-five years Newmac has gained a reputation for developing the kind of high efficiency furnaces and boilers that our customers demand. Our multi-fired units are competitively priced and built under strict ISO 9001 standards to ensure years of dependability. All units are backed by the best warranties in the business and Newmac offers technical support that you can count on.



THE LOWBOY FEATURES INCLUDE:

- 1 Steel liners to give durable, insulating protection
- 2 Heat Exchanger engineered for efficiency using 14 gauge steel with a lifetime limited warranty
- 3 Detachable stack assembly on NL series
- 4 Heavy duty 20 ga panel construction
- 5 Easy access clean out covers to allow complete servicing of heat exchanger
- 6 Large filter area for high air filtration capacity
- 7 The latest in burner technology for chimney or sealed vent installations
- 8 Ceramic Corbel chamber to provide quiet, high efficiency combustion
- 9 Four speed optional direct drive or belted blower assembly

Newmac's complete line of multi-fired oil furnaces combine innovative engineering with top quality materials and construction, providing some of the highest oil furnace ratings. AFUE Ratings - GAMA Listed

- NL2 83.8 - 84.8%
- NLF 81.6 - 82.6%
- NMR 80.1 - 83.9%
- NL3 80.4 - 83%
- NH3 81.7 - 82.7%
- LFR 82.9 - 84.6%

Newmac Oil Furnaces provide you with efficient heating and quiet, automatic operation that delivers clean, warm air throughout your home for total comfort. Furnaces are CSA, UL, ETLM or ETL approved to allow worry-free, reliable heating and include these features:

- Large air filters for better air filtration
- Large circulating belted blower or direct drive blower for quiet operation
- Steel inner liners for better insulation and durability
- Corbel ceramic fiber combustion chamber for quieter operation and more efficient combustion
- Fan and limit control with summer fan switch
- Optional air conditioning models

Newmac Oil Furnaces are supported by a wide range of parts and service representation with excellent warranty programs. In addition, these units are easy and inexpensive to install and service because of features such as:

- Easily serviced efficient flame retention burner
- Conventional service switch on NL2 and NL3
- Removable panels and ports for easy access cleanouts
- Limited Lifetime Warranty on 14 gauge heat exchanger
- All units come complete with barometric control



Model NLF Front Flue

Is the model for traditional replacement or new home construction requiring front flue within 77,000 to 118,000 BTU output.

Model LFR 2000 Front /Rear Flue

The LFR chamberless unit is designed for compact installations requiring front or rear flue. The unit is approved for chimney or balanced flue venting and is ideal for electric conversions. The large filter rack can be placed either side, bottom or rear. Ranging from 62,000 to 90,000 BTU output.



Model NL2 Rear Flue

Our highest efficiency model is suitable for all new homes or replacement where rear flue models are required. Ranging from 77,000 to 118,000 BTU output.



Model NL3 Rear Flue

The largest of the Newmac Lowboy family is designed for heating requirements ranging from 121,000 to 177,000 BTU output.

Model NH3 Top Flue

This traditional Highboy provides full forced air capability and is approved for closet clearances. It ranges from 77,000 to 101,000 BTU.



Model NMR Rear Flue

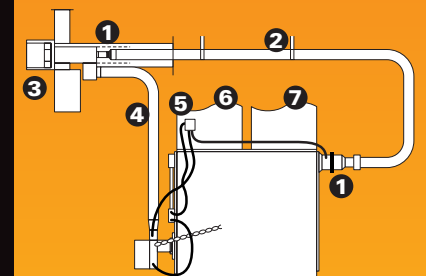
This is primarily used for lower basements or where a low model is required at ranges from 77,000 to 118,000 BTU output.



The Newmac Balanced Flue Sealed Vent System (SVS) is the latest technology for venting of oil fired appliances. System features:

- Combined single wall terminal for flue exhaust gases and pre-heated combustion air
- Truly sealed system eliminating odour problems from house depressurization
- Flue gases jetted away from building exterior
- Superior performance in all wind and weather conditions
- All stainless steel construction
- Serviceable seals and connections to permit ease of cleaning and inspection
- Exceptional quiet operation
- Positive blockage safety sensor
- Multi fire range of 0.5 - 1.50 U.S.G.P.H.
- System uses a pre and post-purge burner cycle for complete flue gas removal

Furnace/SVS Balance Installation Layout



- 1 Servicable Connections
- 2 Flexible Flue Pipe
- 3 SVS Terminal
- 4 Combustion Air
- 5 Blockage Control
- 6 Supply Air
- 7 Return Air