

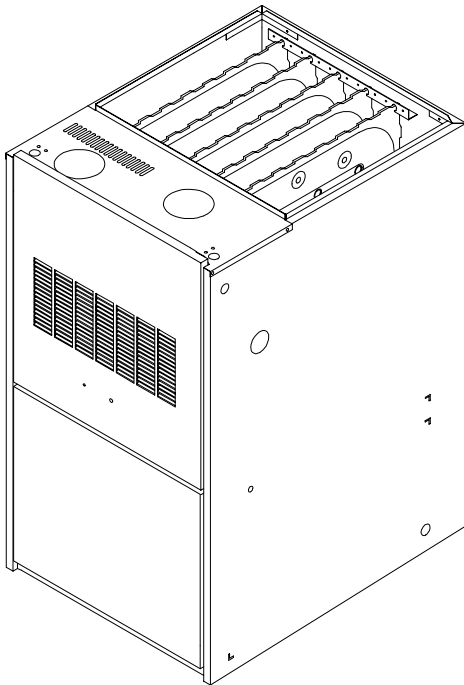
# NTC7 GAS FURNACE

**TEMPSTAR**<sup>®</sup>  
Heating and Cooling Products

UPFLOW/HORIZONTAL 40" - 81% AFUE

**INDUCED  
COMBUSTION**

**DC80** Series



Representative photo only, some models may vary in appearance.

**MANUFACTURED FOR NATURAL GAS  
CONVERTIBLE TO (LP) PROPANE GAS**

**NOTE:** These furnaces are not designed for installation in a corrosive atmosphere, containing Chlorine, Fluorine, or any other damaging chemicals.

#### WARNING

This furnace is not designed for use inside mobile homes, trailers, or recreational vehicles. Such use could result in property damage, bodily injury, and/or death.

#### OPERATION

- 81% AFUE
- Hot surface pilot ignition device.
- Induced draft combustion blower.
- Adjustable electronic fan control with low speed continuous fan feature provides maximum comfort.

#### HEAT EXCHANGER

- Four pass aluminized steel.
- 20 year limited heat exchanger warranty.

#### VENTING

- Category I venting only in accordance with installation instructions and local codes.
- Dual certified for 2 pipe using 100% outside air for combustion air or 1 pipe using inside air for combustion.
- Approved for use with optional linerless chimney vent kit.

#### BURNER ASSEMBLY

- In-shot monoport burners.

#### BLOWER ASSEMBLY

- Multispeed, prelubricated PSC motors. Dynamically balanced.
- Resilient mounted motors to reduce vibration and noise.
- Entire blower assembly mounted on rails for easy service.

#### WIRING CENTER

- 40VA transformer.
- Color coded wiring harness.
- Terminal board allows easy selection of motor speeds.
- Electronic air cleaner and humidifier connections provided.
- Factory pre-wired.

#### CABINET

- Prepainted cabinet & doors.
- Fully insulated.

#### SAFETY

- Flame sensor constantly monitors flame. Provides 100% gas shut off if flame is not sensed.
- Redundant gas valve.
- High temperature limit control.
- Flue blockage pressure switch.
- Blower door interlock switch prevents furnace operation if door is removed.

#### INSTALLATION

- May be installed as an upflow furnace or as a horizontal left or right furnace.
- Compact 40" design.
- Convertible to (LP) Propane Gas.
- 0" clearances on sides and back.
- Twinning kit available to operate two furnaces in tandem.



INTERNATIONAL COMFORT PRODUCTS CORPORATION (USA)  
650 HEIL-QUAKER AVE.  
LEWISBURG, TENNESSEE 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS •  
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CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

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## FURNACE SPECIFICATIONS UPFLOW HORIZONTAL

Model Number	NATURAL GAS	NTC7050BF	NTC7075BF	NTC7100BH	NTC7125BK
INPUT (btuh)		50,000	75,000	100,000	125,000
HTG. CAP. (btuh)		40,000	60,000	80,000	100,000
AFUE % (ICS)		81%	81%	81%	81%
TEMP. RISE (° F)		35 - 65	35 - 65	35 - 65	45 - 75
VOLTS/PH/HZ		115/60/1	115/60/1	115/60/1	115/60/1
F.L.A.		5.3	7.5	9.2	12.0
TRANSFORMER (V.A.)		40	40	40	40
GAS PIPE SIZE (IN.)		1/2	1/2	1/2	1/2
CATEGORY I VENT SIZE		3"	4"	4"	5"
COOLING CAP.		3.0 TON	3.0 TON	4.0 TON	5.0 TON
FILTER SIZE (IN.) (# required)		16 x 25 x 1 (1)	16 x 25 x 1 (1)	16 x 25 x 1 (1)	16 x 25 x 1 (2)
SHIPPING WEIGHT (LBS.)		134	157	175	180
DIMENSIONS (in.) HEIGHT		40	40	40	40
WIDTH X DEPTH		19 <sup>1</sup> / <sub>8</sub> x 28 <sup>1</sup> / <sub>2</sub>	19 <sup>1</sup> / <sub>8</sub> x 28 <sup>1</sup> / <sub>2</sub>	22 <sup>3</sup> / <sub>4</sub> x 28 <sup>1</sup> / <sub>2</sub>	22 <sup>3</sup> / <sub>4</sub> x 28 <sup>1</sup> / <sub>2</sub>

## BLOWER PERFORMANCE

Model Number	NATURAL GAS	NTC7050BF	NTC7075BF	NTC7100BH	NTC7125BK
BLOWER TYPE AND SIZE		10 x 8	10 x 8	10 x 10	11 x 10
MOTOR H.P. (TYPE)		1/3	1/2	1/2	3/4
MOTOR SPEEDS		4	4	4	4

## AIRFLOW DATA

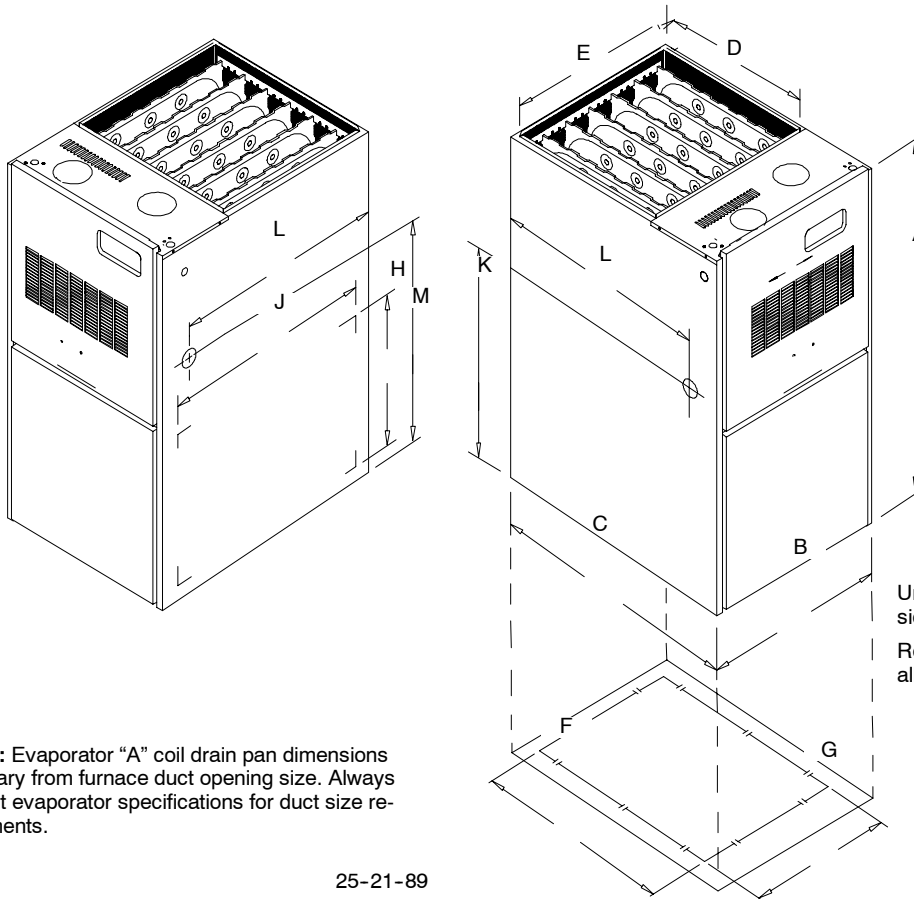
.10 ESP IN. W.C.	LOW	675	778	954	1463
	MEDIUM LOW	859	984	1312	1650
	MEDIUM HIGH	1015	1263	1698	1879
	HIGH	1306	1576	1925	2214
.20 ESP IN. W.C.	LOW	662	786	950	1429
	MEDIUM LOW	846	1003	1292	1635
	MEDIUM HIGH	999	1249	1645	1859
	HIGH	1268	1532	1853	2154
.30 ESP IN. W.C.	LOW	651	790	946	1417
	MEDIUM LOW	819	1003	1265	1614
	MEDIUM HIGH	1203	1244	1596	1838
	HIGH	1324	1489	1780	2152
.40 ESP IN. W.C.	LOW	636	788	915	1389
	MEDIUM LOW	795	1001	1231	1579
	MEDIUM HIGH	952	1215	1530	1806
	HIGH	1193	1432	1708	2106
.50 ESP IN. W.C.	LOW	608	781	878	1364
	MEDIUM LOW	765	982	1175	1556
	MEDIUM HIGH	914	1186	1455	1773
	HIGH	1133	1371	1638	2049
.60 ESP IN. W.C.	LOW	564	765	830	1339
	MEDIUM LOW	735	962	1118	1515
	MEDIUM HIGH	870	1146	1362	1725
	HIGH	1056	1308	1546	1981
.70 ESP IN. W.C.	LOW	514	743	778	1299
	MEDIUM LOW	685	923	1020	1470
	MEDIUM HIGH	818	1094	1241	1668
	HIGH	980	1229	1435	1903

NOTE: Applications of NTC7125BK above 1650 CFM requires two side returns, bottom return or use accessory stand-off filter kit for single side return. To achieve 2000 CFM with the stand-off filter kit you will still need a bottom return or two side filters.

## MODEL NUMBER IDENTIFICATION GUIDE

<b>MODEL NUMBER</b>	N	T	C	7	050	B	F	G		
<b>PRODUCT FAMILY</b>									<b>MARKETING REVISION</b>	
<b>PRODUCT GROUP</b>									<b>NOMINAL AIR FLOW (Tons)</b>	
U = Upflow	T = Upflow / Horizontal								A = Heat Only	G = 3.5
H = Horizontal	C = Downflow / Horizontal								B = 1	H = 4
D = Downflow	L = Lowboy								C = 2	J = 4.5
F = Floor Furnace	M = Multiposition								D = 2	K = 5
<b>FUEL</b>									<b>AFUE</b>	
C = Natural Gas	E = Electric								A = 78%	
N = Natural Gas California NOx	O = Oil								B = 80% - 81%	
L = L.P. Gas	H = High Altitude Natural Gas								E = 90% IID Standard Vent	
<b>SERIES</b>									F = 90% Sealed Combustion	
5 = 5000	6 = 6000								G = 90% TAS	
7 = 7000	8 = 8000								<b>NOMINAL INPUT MBTUH</b>	
9 = 9000										

## UNIT DIMENSIONS



Unit is designed for bottom return or side return.  
Return air through back of unit is NOT allowed.

**NOTE:** Evaporator "A" coil drain pan dimensions may vary from furnace duct opening size. Always consult evaporator specifications for duct size requirements.

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Unit Dimensions	A	B	C	D	E	F	G	H	J	K	L	M
050BF, 075BF	40	19 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	17 <sup>5</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	28 <sup>1</sup> / <sub>4</sub>	23	30 <sup>3</sup> / <sub>8</sub>
100BH, 125BK	40	22 <sup>3</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>4</sub>	23 <sup>1</sup> / <sub>8</sub>	18 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	28 <sup>1</sup> / <sub>4</sub>	23	30 <sup>3</sup> / <sub>8</sub>

**ACCESSORIES**

Furnace Model Number	Draft Hood Kit	Nat. To LP Kit	Twinning Kit	LP To Nat. Gas Kit	20"x25" Duct Stand-off with Filter	20"x25" Bottom Return Filter Kit
NTC7050BF NTC7075BF	NAHL001DH	NAHF002LP or NAHL002LP	NAHA003WK	NAHF002NG	NAHA001TK*	NAHA002FF
NTC7100BH NTC7125BK	NAHL002DH					

\* Applications of NTC7125BK above 1650 CFM requires two side returns, bottom return or NAHA001TK 20" x 25" side return duct stand-off filter kit for single side return.

To achieve 2000 CFM with the stand-off filter kit you will still need a bottom return or two side filters.