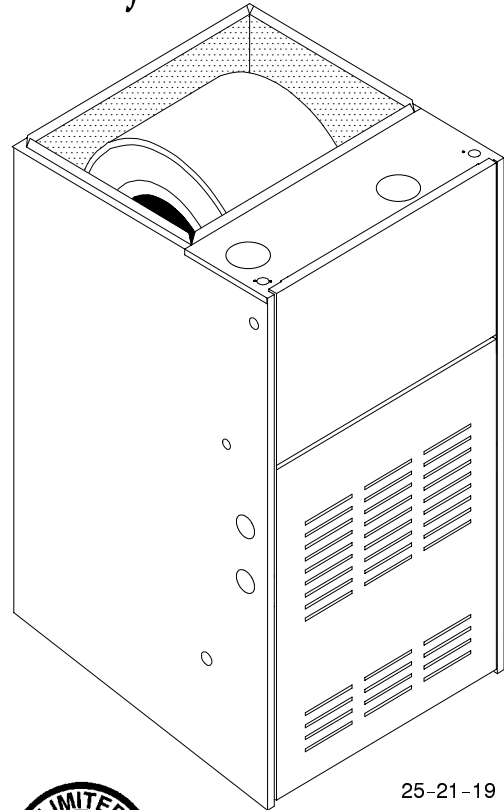


## Standard Equipment

- 90% AFUE efficiency range.
- 2-Stage heating operation.
- Hot surface pilot ignition device.
- 2-Speed induced combustion blower.
- Adjustable electronic fan control with optional low speed continuous fan feature provides maximum comfort.
- Stainless steel rigid pressed-joint serpentine design primary heat exchanger.
- Dual Certified for 1 or 2 pipe operation:
  - Direct Vent** - using 100% outside combustion air (two pipes). Prevents exposure of furnace to corrosive indoor chemicals.
  - Atmospheric Vent** - (Single pipe) using uncontaminated indoor combustion air to reduce installation costs.
- Can be vented with standard Schedule 40 PVC, CPVC, Cellular core PVC, ABS pipe or SDR-26 PVC.
- Pipes can be run horizontally or vertically.
- In-shot monoport, low NOx burners.
- Multispeed, prelubricated PSC motors. Dynamically balanced.
- Resilient mounted motors to reduce vibration and noise.
- Entire blower assembly mounted on rails for easy service.
- 40VA transformer.
- Color coded wiring harness.
- Terminal board allows easy selection of motor speeds.
- Electronic air cleaner and humidifier connections provided.
- Factory pre-wired.
- Architectural stone prepainted cabinet.
- Fully insulated cabinet.
- Controls monitor system for safety.
- Diagnostic fault codes provide fast accurate service.
- Thermally activated flame rollout switch.
- Redundant 2-stage gas valve for quiet, smooth, and safe ignition.
- High temperature limit control prevents overheating.
- Flue blockage pressure switches shut down furnace if flue is restricted.
- Blower door interlock switch prevents furnace operation if door is removed.
- May be installed as downflow or horizontal right.
- Built-in condensate drain trap (upflow application) saves on installation time and expense. Horizontal drain trap is provided.
- Gas line entrance from left or right.
- Natural to LP Gas conversion kits available.
- Electrical entrance from left or right.
- 0" clearances on sides and back.
- Filter and filter rack standard.
- Concentric vent termination kit available.
- Callifornia NOx approved.
- 2-stage thermostat required.

## SoftSound Plus™ 92



25-21-19



Design Certified  
by A.G.A.



## Warranty (Limited)

Standard warranty extended to the original purchaser (homeowner), is a limited 20 year warranty on the primary heat exchanger. Limited warranties applicable to the equipment are set forth in the manufacturer's published warranty statement, which is available from our office (address on this literature) and from local distributors for our product in your area.

## FURNACE SPECIFICATIONS DOWNFLOW

Model Number	NATURAL GAS	TCK050F12A	TCK075F14A	TCK100J16A	TCK125N20A
INPUT (btuh)	Hi Fire Lo Fire	50,000 35,000	75,000 52,500	100,000 70,000	125,000 87,500
HTG. CAP. (btuh)	Hi Fire Lo Fire	45,000 31,200	68,000 47,800	91,000 63,400	113,000 79,500
AFUE % (ICS)		90.0%	90.0%	90.0%	90.0%
CSE		84.9%	85.1%	85.1%	85.1%
NOx (Ng/l)		<40	<40	<40	<40
TEMP. RISE (deg. F)	Hi Fire Lo Fire	40 - 70 30 - 60	40 - 70 30 - 60	40 - 70 30 - 60	45 - 75 30 - 60
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
TRANSFORMER (V.A.)		40	40	40	40
GAS PIPE SIZE (IN.)		1/2	1/2	1/2	1/2
CATEGORY I VENT SIZE (PLASTIC)*		2" OD	2" - 3" OD	2" - 3" OD	3" OD
COOLING CAP.		3.0 TON	3.5 TON	4 TON	5.0 TON
FILTER SIZE (IN.) (2 required)		18 <sup>1</sup> / <sub>4</sub> X 15 <sup>3</sup> / <sub>4</sub> X 1(2)	18 <sup>1</sup> / <sub>4</sub> X 15 <sup>3</sup> / <sub>4</sub> X 1(2)	18 <sup>1</sup> / <sub>4</sub> X 15 <sup>3</sup> / <sub>4</sub> X 1(2)	18 <sup>1</sup> / <sub>4</sub> X 15 <sup>3</sup> / <sub>4</sub> X 1(2)
FILTER SIZE (mm) (2 required)		464 X 400 X 25(2)	464 X 400 X 25(2)	464 X 400 X 25(2)	464 X 400 X 25(2)
SHIPPING WEIGHT (LBS.)		165	180	201	242

\* Vent size may vary depending on length, number of elbows, standard vent or direct vent. See Installation Instructions.

## BLOWER PERFORMANCE

Model Number	TCK050F12A	TCK075F14A	TCK100J16A	TCK125N20A
BLOWER TYPE AND SIZE	DD10-8	DD10-8	DD10-10	DD12-11
MOTOR H.P. (TYPE)	1/3 PSC	1/2 PSC	1/2 PSC	3/4 PSC
MOTOR SPEEDS	4	4	4	4

## AIRFLOW DATA

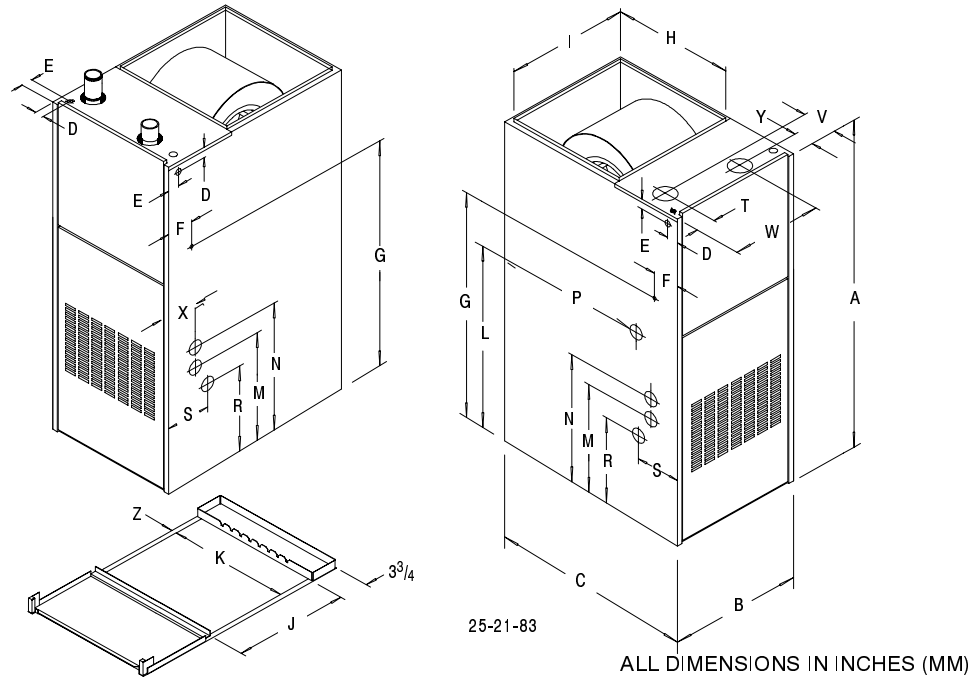
ESP IN.	LOW	TCK050F12A	TCK075F14A	TCK100J16A	TCK125N20A
.10	MEDIUM LOW	840	984	1312	1650
	MEDIUM HIGH	1109	1263	1698	1879
	HIGH	1473	1576	1925	2214
	LOW	718	778	954	1463
.20	MEDIUM LOW	838	1003	1292	1635
	MEDIUM HIGH	1094	1249	1645	1859
	HIGH	1431	1532	1853	2154
	LOW	719	786	950	1429
.30	MEDIUM LOW	837	1003	1265	1614
	MEDIUM HIGH	1086	1244	1596	1838
	HIGH	1396	1489	1780	2152
	LOW	714	790	946	1417
.40	MEDIUM LOW	819	1001	1231	1579
	MEDIUM HIGH	1063	1215	1530	1806
	HIGH	1349	1432	1708	2106
	LOW	692	788	915	1389
.50	MEDIUM LOW	791	982	1175	1556
	MEDIUM HIGH	1027	1186	1455	1773
	HIGH	1291	1371	1638	2049
	LOW	660	781	878	1364
.60	MEDIUM LOW	752	962	1118	1513
	MEDIUM HIGH	986	1146	1362	1725
	HIGH	1222	1308	1546	1981
	LOW	615	765	830	1339
.70	MEDIUM LOW	683	923	1020	1470
	MEDIUM HIGH	934	1094	1241	1668
	HIGH	1141	1229	1435	1903
	LOW	563	743	778	1299

NOTE: Air flow data without filter. Filter supplied in unit allows 600 fpm velocity air flow each. See installation instructions.

## MODEL NUMBER IDENTIFICATION GUIDE

<b>MODEL NUMBER</b>	<b>T</b>	<b>C</b>	<b>K</b>	<b>050</b>	<b>F</b>	<b>12</b>	<b>A</b>
<b>FUEL</b>	G = Gas T = 2-Stage Gas						<b>MARKETING REVISION</b>
<b>PRODUCT GROUP</b>	C = Downflow / Horizontal D = Downflow H = Horizontal N = Upflow / Horizontal U = Upflow						<b>NOMINAL AIR FLOW (Cfm)</b>
<b>SERIES</b>							08 = 800      16 = 1600 12 = 1200      18 = 1800 14 = 1400      20 = 2000
							<b>FURNACE WIDTH</b>
							B = 15 <sup>1</sup> / <sub>2</sub> J = 22 <sup>3</sup> / <sub>4</sub> F = 19 <sup>1</sup> / <sub>8</sub> N = 26 <sup>3</sup> / <sub>8</sub>
							<b>NOMINAL INPUT MBTUH</b>

## DIMENSIONS



UNIT CAPACITY	CABINET			ELECTRICAL CONNECTIONS						RETURN AIR TOP		SUPPLY AIR		
				TOP		LEFT SIDE		LOW VOLT						
	A	B	C	D	E	D	E	F	G	H	I	J	K	Z
50,000	48	19 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	34 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	17 <sup>5</sup> / <sub>8</sub>	17	17 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>
75,000	48	19 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	34 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	17 <sup>5</sup> / <sub>8</sub>	17	17 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>
100,000	48	22 <sup>3</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	34 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>4</sub>	17	22 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>
125,000	48	26 <sup>3</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	34 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	24 <sup>7</sup> / <sub>8</sub>	17	24 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>

UNIT CAPACITY	GAS CONNECTIONS						DRAIN CONNECTIONS						FLUE OUTLET		AIR INLET	
	RIGHT SIDE			LEFT SIDE			RIGHT SIDE		LEFT SIDE							
	M	N	X	M	N	X	R	S	L	P	R	S	T	V	W	Y
50,000	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	13	6 <sup>1</sup> / <sub>2</sub>	25 <sup>3</sup> / <sub>16</sub>	24	13	6 <sup>1</sup> / <sub>2</sub>	3	5 <sup>3</sup> / <sub>16</sub>	12 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>
75,000	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	13	6 <sup>1</sup> / <sub>2</sub>	25 <sup>3</sup> / <sub>16</sub>	24	13	6 <sup>1</sup> / <sub>2</sub>	3	5 <sup>3</sup> / <sub>16</sub>	12 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>
100,000	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	13	6 <sup>1</sup> / <sub>2</sub>	25 <sup>3</sup> / <sub>16</sub>	24	13	6 <sup>1</sup> / <sub>2</sub>	3	5 <sup>3</sup> / <sub>16</sub>	17	3 <sup>13</sup> / <sub>16</sub>
125,000	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	16 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	13	6 <sup>1</sup> / <sub>2</sub>	25 <sup>3</sup> / <sub>16</sub>	24	13	6 <sup>1</sup> / <sub>2</sub>	3	5 <sup>3</sup> / <sub>16</sub>	20	3 <sup>13</sup> / <sub>16</sub>

mm Equivalents	48 = (1219)	19 <sup>1</sup> / <sub>8</sub> = (486)	22 <sup>3</sup> / <sub>4</sub> = (578)	26 <sup>3</sup> / <sub>8</sub> = (670)	28 <sup>1</sup> / <sub>2</sub> = (724)	1 <sup>1</sup> / <sub>2</sub> = (38)	1 <sup>5</sup> / <sub>8</sub> = (41)
	2 <sup>1</sup> / <sub>2</sub> = (64)	3 <sup>3</sup> / <sub>4</sub> = (95)	34 <sup>1</sup> / <sub>2</sub> = (875)	18 <sup>1</sup> / <sub>2</sub> = (470)	17 <sup>5</sup> / <sub>8</sub> = (448)	21 <sup>1</sup> / <sub>4</sub> = (540)	17 = (432)
	22 <sup>1</sup> / <sub>2</sub> = (572)	3 <sup>3</sup> / <sub>4</sub> = (95)	16 <sup>3</sup> / <sub>8</sub> = (416)	4 <sup>3</sup> / <sub>8</sub> = (112)	19 <sup>3</sup> / <sub>8</sub> = (492)	13 = (330)	25 <sup>3</sup> / <sub>16</sub> = (640)
	24 = (610)	13 = (330)	6 <sup>1</sup> / <sub>2</sub> = (165)	3 = (76)	5 <sup>3</sup> / <sub>16</sub> = (132)	12 <sup>13</sup> / <sub>16</sub> = (325)	3 <sup>13</sup> / <sub>16</sub> = (97)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

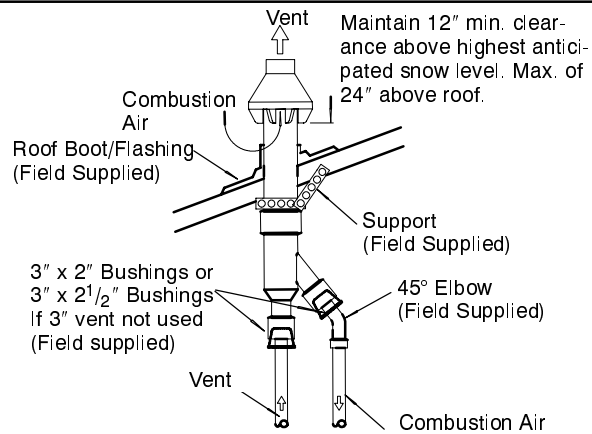
## ACCESSORIES

Description	Service Parts	Model Number	Used With
Natural to LP Conversion Kit	1011789	---	ALL MODELS
LP to Natural Conversion Kit	1011787	---	ALL MODELS
Twinning Kit	--	NAHA003WK	ALL MODELS
Subbase *	--	NAHH002SB (8G01011)	TCK050F12A TCK075G14A
Subbase *	--	NAHH003SB (8G01012)	TCK100J16A
Subbase **	--	NAHH005SB (8G01007)	TCK050F12A TCK075G14A
Subbase **	--	NAHH006SB (8G01008)	TCK100J16A
Subbase *	--	NAHH007SB (8G01013)	TCK125N20A
Subbase **	--	NAHH008SB (8G01009)	TCK125N20A
LP Low Pressure Switch Detects low line pressure. Opens at 6.5" W.C.	--	NAHA001PS	ALL LP FURNACES
Concentric Vent Kit	1011129	NAHA001CV	ALL MODELS

\* Furnace only Subbase

\*\* Coil Box and Furnace Subbase, Coil Box on Bottom

### Concentric Vent Kit Roof Installation

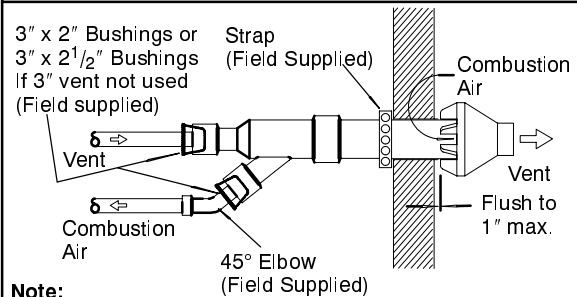


**Note:**

Support must be field installed to secure termination kit to structure.

25-22-02

### Concentric Vent Kit Sidewall Attachment



**Note:**

Securing strap must be field installed to prevent movement of termination kit in side wall.

25-22-02