

# 58HDX COMFORT 95 DIRECT OR NON-DIRECT VENT 4-WAY MULTIPOISE CONDENSING GAS FURNACE



## Product Data

### 95% AFUE Single Stage Furnace Upflow / Downflow / Horizontal

#### FLEXIBILITY

- Dual certified venting (1 or 2 pipes) Direct Vent furnace
- 40-in. (1016 mm) high with wider cabinets, for ease of installation
- Factory shipped for natural gas, with Propane Gas conversion kits available
- Multipoise - Upflow/downflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

#### SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

#### COMFORT

- Adjustable timed blower Off delay
- Thermal lined, one piece steel cabinet for noise reduction
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal
- Insulated blower compartment

#### EFFICIENCY

- 95% AFUE, upflow / downflow
- Up to 95%\* AFUE, horizontal
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, permanently PSC blower motors
- Induced draft blower
- In-shot burners
- California NOx approved

#### QUALITY

- Stainless steel primary heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Dependable hot surface ignition with Silicon Nitride igniter
- Flame roll-out sensors standard

\*See Furnace Specifications for clarification



A09326

### ⚠ WARNING

#### APPLICATION HAZARD

Failure to follow this warning could result in personal injury or death

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles.



Always Ask For  
**FACTORY  
AUTHORIZED  
PARTS**



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## FURNACE SPECIFICATIONS

Model Number	NATURAL GAS	58HDX060---10112	58HDX080---10112	58HDX080---10116	58HDX100---10120
INPUT (btuh)†		60,000	80,000	80,000	100,000
HTG. CAP. (btuh)		58,000	77,000	77,000	96,000
AFUE* - Upflow / Downflow		95	95	95	95
AFUE* - Horizontal		95	94.4	95	95
NOx (Ng/J)		<40	<40	<40	<40
TEMP. RISE DEGREES - °F (°C)		30-60 (17-33)	35-65 (19-46)	30-60 (17-33)	30-60 (17-33)
VOLTS/HZ/PH		115/1/60	115/1/60	115/1/60	115/1/60
MIN./MAX. VOLTAGE		104/127	104/127	104/127	104/127
RATING PLATE AMPS.		10	10.5	13.6	14.8
TRANSFORMER (V.A.)		40	40	40	40
GAS PIPE SIZE - In (mm)		1/2 (13 mm)	1/2 (13 mm)	1/2 (13 mm)	1/2 (13 mm)
VENT SIZE^		2" or 3" (51 or 76 mm) OD	3" (76 mm) OD	3" (76 mm) OD	3" (76 mm) OD
COOLING CAP.		3.0	3.0	4.0	5.0
FILTER SIZE - In (mm) (1 required)		16 x 25 x 1 (406 x 635 x 25)	16 x 25 x 1 (406 x 635 x 25)	16 x 25 x 1 (2) (406 x 635 x 25)	16 x 25 x 1 (2) (406 x 635 x 25)
DIMENSIONS - HEIGHT In (mm)		40 (1016)	40 (1016)	40 (1016)	40 (1016)
DIMENSIONS - WIDTH X DEPTH - In (mm)		19 <sup>1</sup> / <sub>8</sub> x 29 (487 x 737)	22 <sup>3</sup> / <sub>4</sub> x 29 (573 x 737)	22 <sup>3</sup> / <sub>4</sub> x 29 (573 x 737)	24 <sup>1</sup> / <sub>2</sub> x 29 (622 x 737)
WEIGHT - Lbs. (Kg.)		153 (69.3)	172 (78.0)	180 (81.6)	193 (87.5)

\* Capacity and AFUE in accordance with U.S. Government DOE test procedures.

† Gas input ratings are certified for elevations to 2000 ft. (610 M). For elevations above 2000 ft. (610 M), reduce ratings 2% for each 1000 ft. (305 M) above sea level. In Canada, derate the unit 5% for elevations 2000 to 4500 ft. (610 to 1372 M) above sea level.

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

MAX CFM's for Factory Washable Filters	
Filter Size (In. / mm)	CFM
14" X 25" (356 x 635)	1400
16" X 25" (406 x 635)	1600
20" X 25" (508 x 635)	2000
24" X 25" (610 x 635)	2500
Max CFM based on 600 FPM	

# CFM – Cubic Feet per Minute airflow.

Filter required for each return–air inlet. Airflow performance includes 1" (25 mm) washable (600 FPM max) filter media.

Disposable filters are typically rated at 300 FPM and only allow half of the airflow when compared to 600 FPM filters.

Example: 20 x 25 @ 600 FPM = 2000 CFM, @ 300 FPM = 1000 CFM.

## ACCESSORIES

Model Number	Description	Used With Models
KGANP48011HW	Gas Conversion Kits - Natural gas to propane conversion Kit. Allows field conversion to propane gas.	58HDX
KGAPN41011HW	Gas Conversion Kits - Propane to natural gas conversion kit. Allows field conversion to natural gas.	58HDX
KGAFR0901P16	Filter Kits - External filter frame. 16" x 25" (406 x 635 mm)	58HDX
KGAFR1001P20	Filter Kits - External filter frame. 20" x 25 (508 x 635 mm)	58HDX
P908-0001 <sup>+</sup>	Condensate neutralizer kit - for condensing gas furnaces	All if required
KGAVT0801CVT	3" (76 mm) Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).	58HDX060 58HDX080 58HDX100
KGAVT0701CVT	2" (51 mm) Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).	58HDX060 58HDX080 58HDX100
KGAHA6201PSW	High Altitude Pressure Switch Kit	58HDX060
KGAHA6301PSW	High Altitude Pressure Switch Kit	58HDX080
KGAHA6401PSW	High Altitude Pressure Switch Kit	58HDX100
KGALB0201KIT	Downflow Door Label Kit	All if required
KGASB0301P01 KGASB0401P02 KGASB0801P06	Combustible Floor Base used without cased coil used	58HDX
KGASB0501P03 KGASB0601P04 KGASB0701P05	Combustible Floor Base used with cased coil used	58HDX
KGADA0101PYN	Downflow Coil Adapter used between furnace and coil	58HDX
333730-701	Orifice Kit <sup>+</sup> (Qty. 5)	Size 41
333730-702		Size 42
333730-703		Size 43
333730-704		Size 44
333730-705		Size 45
333730-709		Size 46
333730-710		Size 47
333730-711		Size 48
333730-712		Size 49
333730-706		Size 54
333730-707		Size 55
333730-708		Size 56

<sup>+</sup> Must be ordered from Replacement Components Division

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## BLOWER PERFORMANCE

Model Number	58HDX060---10112 (1)(2)	58HDX080---10112 (1)(2)	58HDX080---10116 (1)(2)	58HDX100---10120 (1)(2)
BLOWER SIZE IN. (mm) (DIA. x WIDTH)	11 x 10 (279 x 254)	11 x 10 (279 x 254)	11 x 10 (279 x 254)	11 x 10 (279 x 254)
MOTOR H.P. (TYPE)	1/2 (PSC)	1/3 (PSC)	1/2 (PSC)	3/4 (PSC)
MOTOR SPEEDS	4	4	4	4

## AIRFLOW DATA (CFM)

Furnace External Static Pressing (in wc)	Furnace Motor Speed Selection	Airflow - CFM			
		58HDX060	58HDX080	58HDX080	58HDX100
.10 ESP in wc	LOW	703	976	922	1820
	MEDIUM LOW	901	1123	1246	1993
	MEDIUM HIGH	1204	1326	1690	2137
	HIGH	1478	1456	2032	2240
.20 ESP in wc	LOW	649	941	898	1768
	MEDIUM LOW	864	1112	1250	1934
	MEDIUM HIGH	1154	1312	1650	2062
	HIGH	1418	1440	1952	2163
.30 ESP in wc	LOW	588	909	872	1722
	MEDIUM LOW	818	1085	1226	1872
	MEDIUM HIGH	1103	1280	1601	1992
	HIGH	1350	1420	1874	2083
.40 ESP in wc	LOW	538	870	838	1656
	MEDIUM LOW	765	1043	1187	1801
	MEDIUM HIGH	1053	1241	1533	1916
	HIGH	1280	1379	1785	2002
.50 ESP in wc	LOW	488	818	806	1590
	MEDIUM LOW	720	1002	1151	1723
	MEDIUM HIGH	993	1209	1462	1833
	HIGH	1201	1325	1688	1912
.60 ESP in wc	LOW	459	784	769	1513
	MEDIUM LOW	672	952	1090	1636
	MEDIUM HIGH	924	1155	1381	1745
	HIGH	1116	1261	1593	1821
.70 ESP in wc	LOW	408	714	711	1426
	MEDIUM LOW	620	893	1014	1547
	MEDIUM HIGH	846	1082	1287	1654
	HIGH	1023	1208	1482	1727
.80 ESP in wc	LOW	365	640	643	1325
	MEDIUM LOW	558	792	918	1437
	MEDIUM HIGH	764	1001	1182	1551
	HIGH	931	1115	1360	1618
.90 ESP in wc	LOW	317	567	570	1199
	MEDIUM LOW	489	702	790	1315
	MEDIUM HIGH	683	868	1053	1430
	HIGH	825	1007	1231	1502
1.00 ESP in wc	LOW	233	491	488	1047
	MEDIUM LOW	428	608	678	1159
	MEDIUM HIGH	590	746	850	1275
	HIGH	730	830	1052	1356

NOTE: (1) Data based on Bottom Only or One Side return.

NOTE: (2) Gray area is above maximum temperature rise range.

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**DIMENSIONS - IN. (MM)**

Cabinet to Combustible Clearances						
TOP	BOTTOM	RH	LH	BACK	FRONT	FLUE
1" (25)	0" (0)	0" (0)	0" (0)	0" (0)	3" (76)	0" (0)

**MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS - in (mm)**

REAR	0
FRONT (combustion air openings in furnace and in structure)	3" (76.2)
Required For Service	*24" (609.6)
ALL SIDES OF SUPPLY PLENUM	1" (25.4)
SIDES	0
VENT	0
TOP OF FURNACE	1" (25.4)

\*30" (762mm) clearance recommended for furnace removal.

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs or framing.

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

Furnace is designed for bottom return or side return. Return air through back of furnace is NOT allowed.

ALL DIMENSIONS: in (mm)

Unit Capacity	Cabinet		Bottom		Top			
	A	B	C	D	E	F	G	H
58HDX060-12	19 <sup>1</sup> / <sub>8</sub> (485.6)	17 <sup>3</sup> / <sub>8</sub> (447.7)	2 <sup>1</sup> / <sub>8</sub> (54)	14 <sup>3</sup> / <sub>4</sub> (374.7)	4 <sup>3</sup> / <sub>8</sub> (111.1)	4 <sup>1</sup> / <sub>2</sub> (114.3)	2 <sup>1</sup> / <sub>2</sub> (63.5)	9 <sup>1</sup> / <sub>2</sub> (241.3)
58HDX080-12	22 <sup>3</sup> / <sub>4</sub> (577.9)	21 <sup>1</sup> / <sub>4</sub> (539.8)	1 <sup>5</sup> / <sub>16</sub> (49.2)	18 <sup>3</sup> / <sub>4</sub> (476.3)	4 <sup>3</sup> / <sub>8</sub> (111.1)	4 <sup>1</sup> / <sub>2</sub> (114.3)	2 <sup>1</sup> / <sub>2</sub> (63.5)	9 <sup>1</sup> / <sub>2</sub> (241.3)
58HDX080-16	22 <sup>3</sup> / <sub>4</sub> (577.9)	21 <sup>1</sup> / <sub>4</sub> (539.8)	1 <sup>5</sup> / <sub>16</sub> (49.2)	18 <sup>3</sup> / <sub>4</sub> (476.3)	4 <sup>3</sup> / <sub>8</sub> (111.1)	4 <sup>1</sup> / <sub>2</sub> (114.3)	2 <sup>5</sup> / <sub>8</sub> (66.7)	11 <sup>3</sup> / <sub>8</sub> (288.9)
58HDX100-20	24 <sup>1</sup> / <sub>2</sub> (622.3)	23 (584.2)	7 <sup>1</sup> / <sub>16</sub> (11.1)	23 (584.2)	4 <sup>3</sup> / <sub>8</sub> (111.1)	4 <sup>1</sup> / <sub>2</sub> (114.3)	2 <sup>1</sup> / <sub>4</sub> (57.2)	12 <sup>1</sup> / <sub>4</sub> (311.2)

**58HDX**

Specifications are subject to change without notice.

