

Gas Furnace — Induced Draft — Upflow / Horizontal and Downflow / Horizontal — Single Stage Heat

Models:

* - First letter may be "A" or "T"

*UD1A040A9241A	*UD1B080A9361A	*UD1C100A9601A	*DD1A040A9241A	*DD1B100A9451A
*UD1A040A9301A	*UD1B080A9481A	*UD1D100A9721A	*DD1A060A9241A	*DD1C100A9481A
*UD1A060A9241A	*UD1C080A9601A	*UD1C120A9541A	*DD1A060A9361A	*DD1C100A9541A
*UD1A060A9361A	*UD1B100A9361A	*UD1D120A9601A	*DD1B060A9361A	*DD1C120A9541A
*UD1B060A9361A	*UD1B100A9451A	*UD1D140A9601A	*DD1B080A9361A	*DD1D120A9601A
*UD1B080A9241A	*UD1C100A9481A		*DD1B080A9451A	*DD1D140A9601A

IMPORTANT — This document contains a wiring diagram and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.



WARNING

DISCONNECT POWER BEFORE SERVICING

PRODUCT SPECIFICATIONS

MODEL	*UD1A040A9241A	*UD1A060A9361A	*UD1A060A9361A
TYPE	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
RATINGS			
Input BTUH	40,000	40,000	40,000
Capacity BTUH (ACS)	32,000	32,000	47,500
Temp. rise (Min./Max.) °F	30 - 60	30 - 60	35 - 65
BLOWER DRIVE			
Diameter - Width (in.)	DIRECT 10 x 6	DIRECT 10 x 6	DIRECT 10 x 6
No. Speed	1	1	1
Speeds (RPM)	4	4	4
CFM vs. V. Hg.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/5	1/5	1/5
RPM	1080	1075	1080
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60
COMBUSTION FAN — Type			
Drive - No. Speeds	Centrifugal Direct - 1	Centrifugal Direct - 1	Centrifugal Direct - 1
Motor HP - RPM	1/50 - 3180	1/50 - 3180	1/50 - 3180
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60
PLA	1 - 0.9	1 - 0.9	1 - 0.9
FILTER — Furnished?	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity
Shipped (No./Size/Thk.)	1 - 17x25 - 1in.	1 - 17x25 - 1in.	1 - 17x25 - 1in.
VENT — Size (in.)	4 Round	4 Round	4 Round
HEAT EXCHANGER			
Type - Fired	Alum. Steel	Alum. Steel	Alum. Steel
Gauge (Fired)	20	20	20
ORIFICES — Main			
Nat. Gas Qty. — Orif. Size	2 — 45	2 — 45	3 — 45
L.P. Gas Qty. — Orif. Size	2 — 56	2 — 56	3 — 56
GAS VALVE	Redundant - Single Stage	Redundant - Single Stage	Redundant - Single Stage
PILOT SAFETY DEVICE			
Type	Hot Surface Ignition	Hot Surface Ignition	Hot Surface Ignition
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	2	2	3
POWER CORD — V/Ph/Hz	115/1/60	115/1/60	115/1/60
Ampacity (In./Amps)	5.4	5.0	5.4
Max. Overcurrent Protection (Amps)	15	15	15
PIPE CORD. SIZE (in.)	1/2	1/2	1/2
CONNECTIONS	H x W x D	H x W x D	H x W x D
Cabinet (in.)	41-3/4 x 16-1/2 x 30-1/2	41-3/4 x 16-1/2 x 30-1/2	41-3/4 x 16-1/2 x 30-1/2
WEIGHT			
Shipping (Lbs.) / Net (Lbs.)	119 / 110	122 / 113	124 / 115

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.2.

② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.

③ For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

④ Based on U.S. government standard tests.

⑤ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

NOTICE: Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.

2015 Xr80 Service Manual

American Honda Motor Company

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the American Honda Motor Company text.

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 XR100 1981 1984 XR100R 1985 1991 *Honda Service Manual, 85-87* ,1986 Honda XL/XR 250 and 500 Owners
Workshop Manual Pete Shoemark,1984 **Honda Common Service Manual** American Honda Motor Company,2013
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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g}) \quad \Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \quad \Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g}) \quad \Delta h = 283 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g})$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l}) \quad \Delta h = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l}) \quad \Delta h = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + 1/2 \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 285 \text{ kJ/mole}$

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = 55.8 \text{ kJ}$ as shown note

that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}} > \Delta H_{\text{reactants}}$

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web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in solution eventually allowing an individual to prove or disprove hess s law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

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web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions $\text{NaOH (s)} + \text{NaOH (aq)} \rightarrow \text{H}_2\text{O (l)}$ $\text{NaOH (s)} + \text{HCl (aq)} \rightarrow \text{H}_2\text{O (l)}$ $\text{NaOH (aq)} + \text{HCl (aq)} \rightarrow \text{H}_2\text{O (l)}$

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