

Trane XL80 Furnace Manual

Gas Furnace – Induced Draft – Two Stage Heat

Models:	*UD2A040A9242A	*UD2A060A9362A	*UD2B060A9362A	*UD2B080A9362A
	*UD2B080A9482A	*UD2B100A9362A	*UD2C100A9482A	*UD2C100A9602A
	*UD2D100A9602A	*UD2C120A9542A	*UD2D120A9602A	*UD2D140A9602A
	*DD2A040A9242A	*DD2A060A9362A	*DD2B060A9362A	*DD2B080A9362A
	*DD2B100A9482A	*DD2C100A9482A	*DD2C100A9602A	*DD2D120A9602A
	*DD2D140A9602A	* First letter may be "A" or "T"		

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 ①

MODEL	*UD2A040A9242A	*UD2A060A9362A	*UD2B060A9362A	*UD2B080A9362A
TYPE	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
RATINGS ②				
1st Stage Input BTUH	26,000	36,000	36,000	52,000
1st Stage Capacity BTUH (ACS) ③	20,800	31,200	31,200	41,600
2nd Stage Input BTUH	40,000	60,000	60,000	80,000
2nd Stage Capacity BTUH (ACS) ③	32,000	47,000	47,000	63,000
Temp. rise (Fah.-Max.) °F.	30 - 60	30 - 60	30 - 60	30 - 60
BLOWER DRIVE				
Diameter - Width (in.)	DIRECT 10 x 6"	DIRECT 10 x 6"	DIRECT 10 x 6"	DIRECT 10 x 7"
No. Used	1	1	1	1
Speeds (No.)	4	4	4	4
CFM vs. In. w.p.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/3	1/3	1/3	1/3
R.P.M.	1080	1075	1075	1075
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60	115/1/60
COMBUSTION FAN — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - 2	Direct - 2	Direct - 2	Direct - 2
Motor HP - R.P.M.	1/100 - 2543/1727	1/100 - 2543/1727	1/100 - 2543/1727	1/100 - 2543/1727
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60	115/1/60
FLA	70/40	70/40	70/40	70/40
FILTER — Furnished?	No	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 17x25 - 1in.	1 - 17x25 - 1in.	1 - 17x25 - 1in.	1 - 17x25 - 1in.
VENT — Size (in.)	4 Round	4 Round	4 Round	4 Round
HEAT EXCHANGER				
Type - Fired	Atm. Steel	Atm. Steel	Atm. Steel	Atm. Steel
Unfired				
Capacity (BTUH)	20	20	20	20
ORIFICES — Main				
Nat. Gas Qty. — Orif. Size	2 — 45	3 — 45	3 — 45	4 — 45
L.P. Gas Qty. — Orif. Size	2 — 56	3 — 56	3 — 56	4 — 56
GAS VALVE	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
PILOT SAFETY DEVICE				
Type	Hot Surface Ignition	Hot Surface Ignition	Hot Surface Ignition	Hot Surface Ignition
BURNERS — Type	Multipoint Inshot	Multipoint Inshot	Multipoint Inshot	Multipoint Inshot
Number	2	3	3	4
POWER CONN. — V / Ph / Hz ④				
Ampercy (In Amps)	115/1/60 4.5	115/1/60 8.2	115/1/60 9.0	115/1/60 8.2
Max. Breaker Size (Amps)	75	15	15	55
PWPE CONN. SIZE (IN.)	1/2	1/2	1/2	1/2
DIMENSIONS				
Cased (in.)	H x W x D 41-3/4 x 16-1/2 x 30-1/2	H x W x D 41-3/4 x 16-1/2 x 30-1/2	H x W x D 41-3/4 x 16-1/2 x 30-1/2	H x W x D 41-3/4 x 19-1/2 x 30-1/2
WEIGHT				
Shipping (Lbs.) / Net (Lbs.)	119 / 100	127 / 118	137 / 127	142 / 132

***UD060D03060D was built with a 10 X 7 blower housing, however the 10 X 7 and 10 X 6 have identical airflow in this model.

① Central Furnace heating designs are certified to ANSI Z21.47 and CSA 2-3.

② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, denote 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, denote 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.

UD2-2-SF-1D

Trane Furnace Repair Manual

Yijin Wang



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Table of Contents Trane Furnace Repair Manual

1. Understanding the eBook Trane Furnace Repair Manual
 - The Rise of Digital Reading Trane Furnace Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Trane Furnace Repair Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trane Furnace Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trane Furnace Repair Manual
 - Personalized Recommendations
 - Trane Furnace Repair Manual User Reviews and Ratings
 - Trane Furnace Repair Manual and Bestseller Lists
5. Accessing Trane Furnace Repair Manual Free and Paid eBooks
 - Trane Furnace Repair Manual Public Domain eBooks
 - Trane Furnace Repair Manual eBook Subscription Services
 - Trane Furnace Repair Manual Budget-Friendly Options

6. Navigating Trane Furnace Repair Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Trane Furnace Repair Manual Compatibility with Devices
 - Trane Furnace Repair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trane Furnace Repair Manual
 - Highlighting and Note-Taking Trane Furnace Repair Manual
 - Interactive Elements Trane Furnace Repair Manual
8. Staying Engaged with Trane Furnace Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trane Furnace Repair Manual
9. Balancing eBooks and Physical Books Trane Furnace Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trane Furnace Repair Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Trane Furnace Repair Manual
 - Setting Reading Goals Trane Furnace Repair Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Trane Furnace Repair Manual
 - Fact-Checking eBook Content of Trane Furnace Repair Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web apr 9 2019 in this video i explained multi compression with flash intercooler flash chamber water intercooler sub cooler
1 schematic diagram 2 function of flash inter cooler water

flash intercooling diagram air conditioning beyond discovery - Feb 28 2023

web aug 5 2023 in a flash intercooler cooling of superheated vapor is achieved by passing the vapor through a series of
finned tubes located within a large chamber that is filled with cold air as the vapor passes through the finned tubes it is
cooled by the cold air condensing some of the vapor into liquid

solved the flash chamber intercooler allows the refrigerant to ente - Apr 20 2022

web apr 6 2023 clearly the flash chamber intercooler allows the refrigerant to enter the 2nd state of the compressor of the
vapour compression refrigeration system at the state of superheated vapour after the condenser condenses the refrigerant it
is passed through an expansion valve to reduce its pressure to evaporator pressure