

# Trane XL80 Furnace Manual

## Gas Furnace – Induced Draft – Two Stage Heat

|                |                |                                  |                |                |
|----------------|----------------|----------------------------------|----------------|----------------|
| <b>Models:</b> | *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

| MODEL                                                                                                                | *UD2A040A9242A            | *UD2A060A9362A            | *UD2B060A9362A            | *UD2B080A9362A            |
|----------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE                                                                                                                 | Upflow / Horizontal       | Upflow / Horizontal       | Upflow / Horizontal       | Upflow / Horizontal       |
| <b>RATINGS</b>                      |                           |                           |                           |                           |
| 1st Stage Input (BTUH)                                                                                               | 25,000                    | 35,000                    | 35,000                    | 52,000                    |
| 1st Stage Capacity (BTUH) (ACS)     | 25,000                    | 31,200                    | 31,200                    | 41,600                    |
| 2nd Stage Input (BTUH)                                                                                               | 40,000                    | 60,000                    | 60,000                    | 80,000                    |
| 2nd Stage Capacity (BTUH) (ACS)     | 32,000                    | 47,000                    | 47,000                    | 63,000                    |
| Temp. rise (Rise, Max.) °F.                                                                                          | 30 - 60                   | 30 - 60                   | 30 - 60                   | 30 - 60                   |
| <b>BLOWER DRIVE</b>                                                                                                  | Direct-CT                 | Direct-CT                 | Direct-CT                 | Direct-CT                 |
| Diameter - Width (in.)                                                                                               | 10 x 6                    | 10 x 6**                  | 10 x 6**                  | 10 x 7                    |
| No. Speeds                                                                                                           | 1                         | 1                         | 1                         | 1                         |
| Speeds (No.)                                                                                                         | 4                         | 4                         | 4                         | 4                         |
| CFM vs. In. wg.                                                                                                      | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| Motor HP                                                                                                             | 1/5                       | 1/5                       | 1/5                       | 1/5                       |
| ECFM                                                                                                                 | 1080                      | 1675                      | 1675                      | 1675                      |
| Volts / Ph / Hz                                                                                                      | 115/1/60                  | 115/1/60                  | 115/1/60                  | 115/1/60                  |
| <b>COMBUSTION FAN</b> — Type                                                                                         | Centrifugal               | Centrifugal               | Centrifugal               | Centrifugal               |
| Drive - No. Speeds                                                                                                   | Direct - 2                | Direct - 2                | Direct - 2                | Direct - 2                |
| Motor HP - CFM                                                                                                       | 1/100 - 2543/1327         | 1/100 - 2543/1327         | 1/100 - 2543/1327         | 1/100 - 2543/1327         |
| Volts / Ph / Hz                                                                                                      | 115/1/60                  | 115/1/60                  | 115/1/60                  | 115/1/60                  |
| FLA                                                                                                                  | 70/40                     | 70/40                     | 70/40                     | 70/40                     |
| <b>FILTER</b> — Furnished?                                                                                           | No                        | No                        | No                        | No                        |
| Type Recommended                                                                                                     | High Velocity             | High Velocity             | High Velocity             | High Velocity             |
| Ht. Vel. (No./Sq. Ft.)                                                                                               | 1 - 17x25 - 5in.          | 1 - 17x25 - 5in.          | 1 - 17x25 - 5in.          | 1 - 17x25 - 5in.          |
| <b>VENT</b> — Size (in.)                                                                                             | 4 Round                   | 4 Round                   | 4 Round                   | 4 Round                   |
| <b>HEAT EXCHANGER</b>                                                                                                |                           |                           |                           |                           |
| Type - First                                                                                                         | Alum. Steel               | Alum. Steel               | Alum. Steel               | Alum. Steel               |
| — Unfired                                                                                                            |                           |                           |                           |                           |
| Coil (First)                                                                                                         | 20                        | 20                        | 20                        | 20                        |
| <b>COILS/CS</b> — 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                    |
| <b>GAS VALVE</b>                                                                                                     | Redundant - Two Stage     | Redundant - Two Stage     | Redundant - Two Stage     | Redundant - Two Stage     |
| <b>PILOT SAFETY DEVICE</b>                                                                                           |                           |                           |                           |                           |
| Type                                                                                                                 | Hot Surface Ignition      | Hot Surface Ignition      | Hot Surface Ignition      | Hot Surface Ignition      |
| <b>BURNERS</b> — Type                                                                                                | Multipoint Inshot         | Multipoint Inshot         | Multipoint Inshot         | Multipoint Inshot         |
| Number                                                                                                               | 2                         | 3                         | 3                         | 4                         |
| <b>POWER CONN.</b> — V / Ph / Hz  | 115/1/60                  | 115/1/60                  | 115/1/60                  | 115/1/60                  |
| Ampacity (In. Amps)                                                                                                  | 4.5                       | 8.2                       | 8.0                       | 8.2                       |
| Max. Breaker Size (Amps)                                                                                             | 15                        | 15                        | 15                        | 15                        |
| <b>PIPE CONN. SIZE (in.)</b>                                                                                         | 1/2                       | 1/2                       | 1/2                       | 1/2                       |
| <b>DIMENSIONS</b>                                                                                                    |                           |                           |                           |                           |
| Cased (in.)                                                                                                          | H x W x D                 | H x W x D                 | H x W x D                 | H x W x D                 |
|                                                                                                                      | 43-3/4 x 36-1/2 x 30-1/2  | 43-3/4 x 36-1/2 x 30-1/2  | 43-3/4 x 36-1/2 x 30-1/2  | 43-3/4 x 39-1/2 x 30-1/2  |
| <b>WEIGHT</b>                                                                                                        |                           |                           |                           |                           |
| Shipping (Elev.) / Net (Elev.)                                                                                       | 119 / 119                 | 127 / 118                 | 132 / 127                 | 142 / 132                 |

\*\*UD2B080A9362 was built with a 10 X 7 blower housing, however the 10 X 7 and 10 X 6 have identical airflow in this model.

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

 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.

 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.

 Based on I.S. (government) standard tests.

 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 Xl80 Manual

**Lingjun Ying**



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