



Air Conditioning & Heating

# AWST SERIES

## WALL-MOUNT AIR HANDLER 1-1/2 TO 3 TONS



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### Product Features

- AWST Models: Equipped with a fully adjustable TXV
- Direct-drive, multi-speed motors allows air volume variation for heating/cooling
- Sequence-controlled, rust-resistant nickel chromium heating elements of 3, 5, 8, and 10 kW
- Aluminum tubing coils on all models
- Cabinet air leakage less than 2.0% at 1.0 inch H<sub>2</sub>O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch H<sub>2</sub>O when tested in accordance with ASHRAE standard 193
- Factory-installed pull-type disconnect
- Thermoplastic drain pan with bottom primary and secondary drain connections
- Built-in filter rack (filter included)
- Large chassis (2½- and 3-ton units) – front return only
- Small chassis (1½- and 2-ton units) – front or bottom return
- Wall-hanging bracket provided
- AHRI Certified; ETL Listed

**10** YEARS  
**PARTS**  
**LIMITED**  
**WARRANTY\***



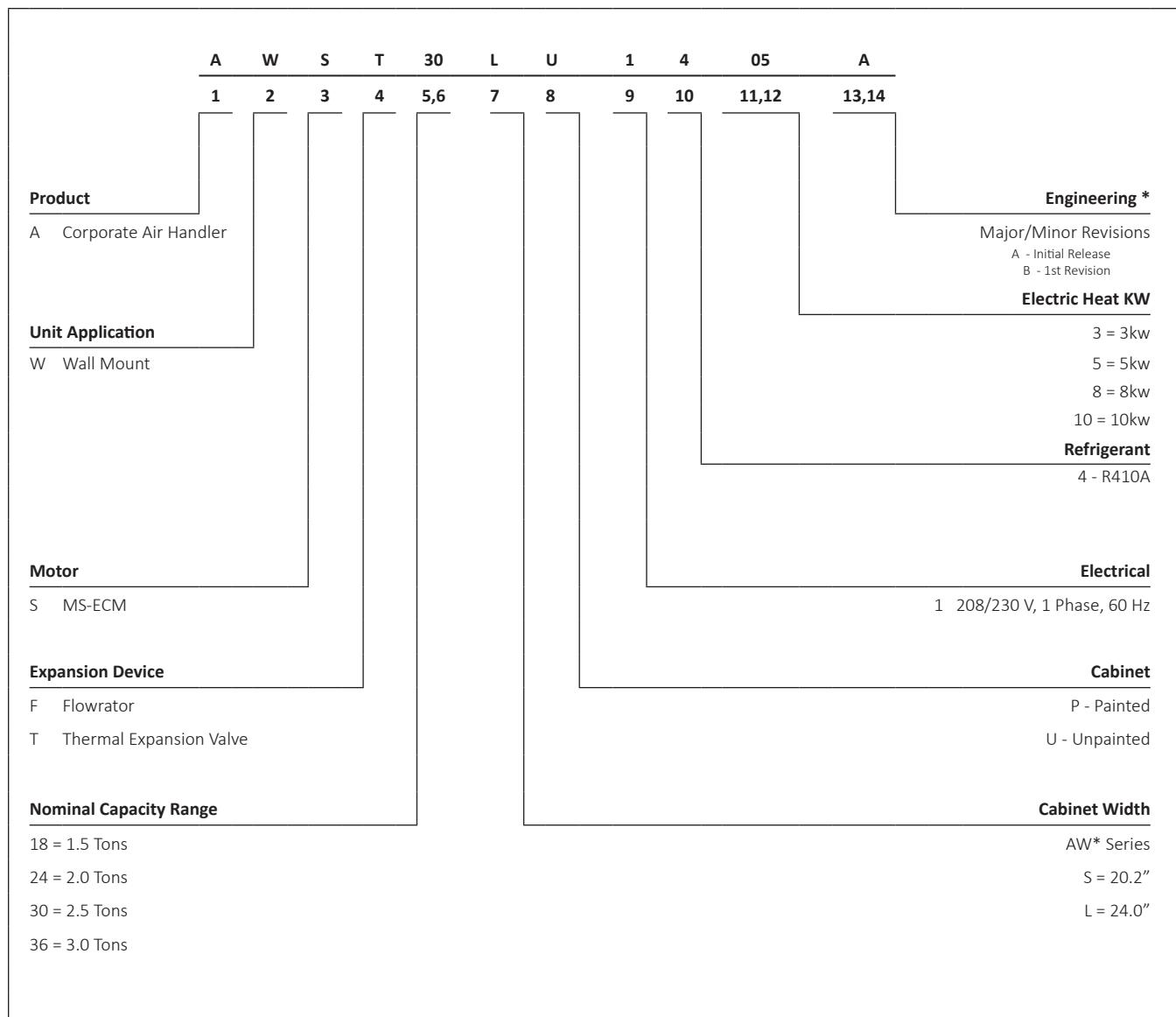
COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
■ ISO 9001 ■

COMPANY WITH  
ENVIRONMENTAL SYSTEM  
CERTIFIED BY DNV GL  
■ ISO 14001 ■



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. The duration of warranty coverages in Texas differs in some cases.

## NOMENCLATURE



## ACCESSORIES

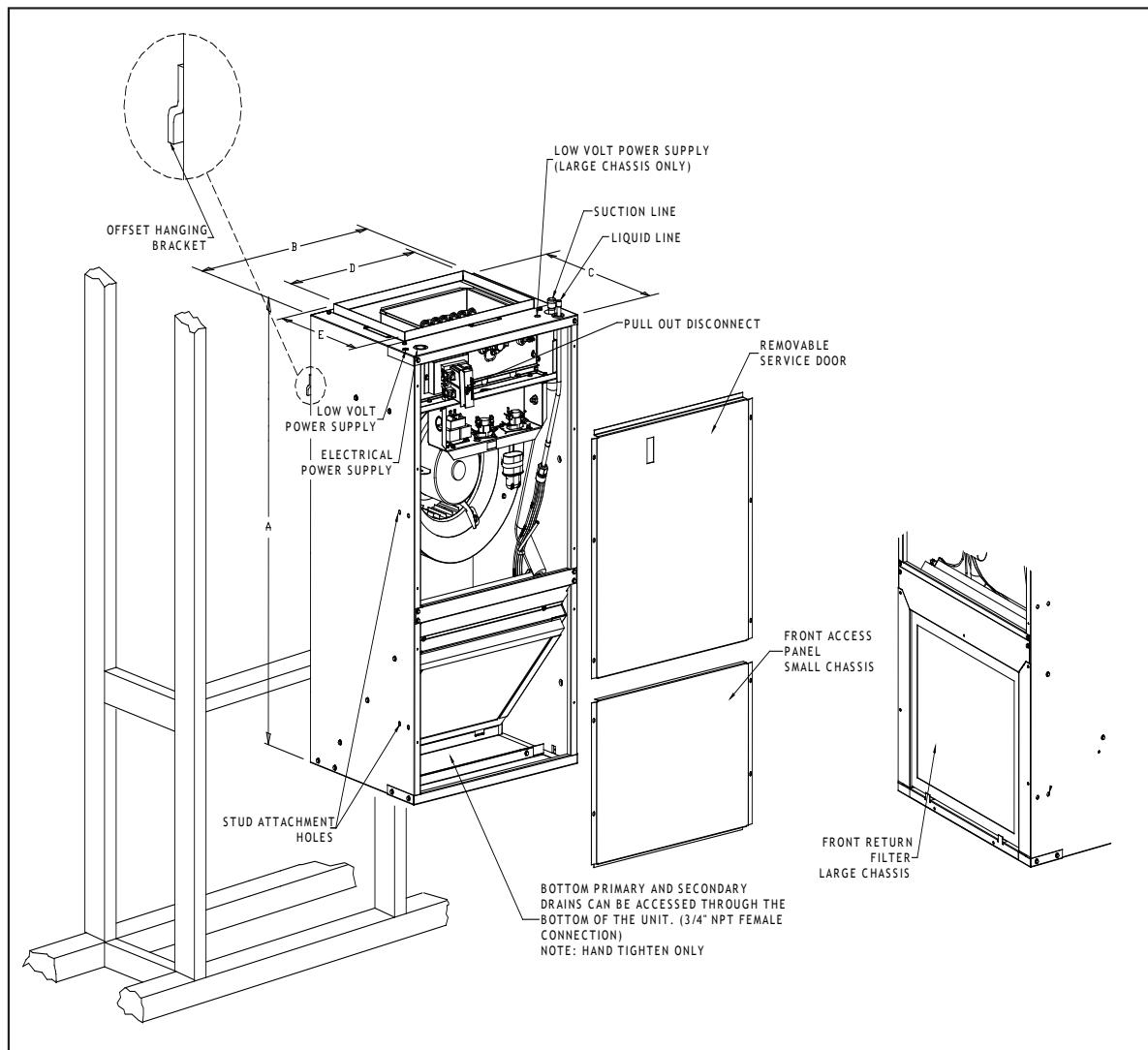
| MODEL         | ITEM # | DESCRIPTION      |
|---------------|--------|------------------|
| AWST18-AWST24 | Wad-1  | Wall access door |
| AWST30-AWST36 | Wad-2  | Wall access door |

|                                | <b>AWST18<br/>SU1403 BA</b> | <b>AWST18<br/>SU1405 BA</b> | <b>AWST18<br/>SU1410 BA</b> | <b>AWST24<br/>SU1405 BA</b> | <b>AWST24<br/>SU1408 BA</b> | <b>AWST24<br/>SU1410 BA</b> |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>NOMINAL RATINGS</b>         |                             |                             |                             |                             |                             |                             |
| Cooling (BTU/h)                | 18,000                      | 18,000                      | 18,000                      | 24,000                      | 24,000                      | 24,000                      |
| Electric Heat (kW)             | 3                           | 5                           | 8                           | 5                           | 8                           | 10                          |
| <b>BLOWER</b>                  |                             |                             |                             |                             |                             |                             |
| Diameter                       | 10                          | 10                          | 10                          | 10                          | 10                          | 10                          |
| Width                          | 6                           | 6                           | 6                           | 6                           | 6                           | 6                           |
| <b>COIL CONNECTIONS</b>        |                             |                             |                             |                             |                             |                             |
| Liquid                         | $\frac{3}{8}$ "             |
| Suction                        | $\frac{5}{8}$ "             |
| Coil Drain Connection (FPT)    | $\frac{3}{4}$ "             |
| <b>ELECTRICAL DATA</b>         |                             |                             |                             |                             |                             |                             |
| Voltage                        | 208/230                     | 208/230                     | 208/230                     | 208/230                     | 208/230                     | 208/230                     |
| Minimum Circuit Ampacity       | 17/18.9                     | 24.9/28                     | 36/41.3                     | 24.9/28                     | 36/41.3                     | 47.5/54                     |
| Max. Overcurrent Device (Amps) | 20/20                       | 25/30                       | 40/45                       | 25/30                       | 40/45                       | 50/60                       |
| Minimum VAC                    | 197                         | 197                         | 197                         | 197                         | 197                         | 197                         |
| Maximum VAC                    | 253                         | 253                         | 253                         | 253                         | 253                         | 253                         |
| <b>BLOWER MOTOR</b>            |                             |                             |                             |                             |                             |                             |
| Full Load Amps (FLA)           | 2.6                         | 2.6                         | 2.6                         | 2.6                         | 2.6                         | 2.6                         |
| Horsepower (HP)                | 1/3                         | 1/3                         | 1/3                         | 1/3                         | 1/3                         | 1/3                         |
| <b>SHIP WEIGHT (LBS)</b>       | 84                          | 84                          | 84                          | 84                          | 84                          | 84                          |

*PRODUCT SPECIFICATIONS (CONTD.)*

|                                | <b>AWST30<br/>LU1405 BA</b> | <b>AWST30<br/>LU1408 BA</b> | <b>AWST30<br/>LU1410 BA</b> | <b>AWST36<br/>LU1405 BA</b> | <b>AWST36<br/>LU1408 BA</b> | <b>AWST36<br/>LU1410 BA</b> |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>NOMINAL RATINGS</b>         |                             |                             |                             |                             |                             |                             |
| Cooling (BTU/h)                | 30,000                      | 30,000                      | 30,000                      | 36,000                      | 36,000                      | 36,000                      |
| Electric Heat (kW)             | 5                           | 8                           | 10                          | 5                           | 8                           | 10                          |
| <b>BLOWER</b>                  |                             |                             |                             |                             |                             |                             |
| Diameter                       | 10                          | 10                          | 10                          | 10                          | 10                          | 10                          |
| Width                          | 8                           | 8                           | 8                           | 8                           | 8                           | 8                           |
| <b>COIL CONNECTIONS</b>        |                             |                             |                             |                             |                             |                             |
| Liquid                         | $\frac{3}{8}$ "             |
| Suction                        | $\frac{3}{4}$ "             |
| Coil Drain Connection (FPT)    | $\frac{3}{4}$ "             |
| <b>ELECTRICAL DATA</b>         |                             |                             |                             |                             |                             |                             |
| Voltage                        | 208/230                     | 208/230                     | 208/230                     | 208/230                     | 208/230                     | 208/230                     |
| Minimum Circuit Ampacity       | 26/29.8                     | 37.8/43                     | 49/55.8                     | 26/29.8                     | 37.8/43                     | 49/55.8                     |
| Max. Overcurrent Device (Amps) | 30/30                       | 40/45                       | 50/60                       | 30/30                       | 40/45                       | 50/60                       |
| Minimum VAC                    | 197                         | 197                         | 197                         | 197                         | 197                         | 197                         |
| Maximum VAC                    | 253                         | 253                         | 253                         | 253                         | 253                         | 253                         |
| <b>BLOWER MOTOR</b>            |                             |                             |                             |                             |                             |                             |
| Full Load Amps (FLA)           | 3.9                         | 3.9                         | 3.9                         | 3.9                         | 3.9                         | 3.9                         |
| Horsepower (HP)                | 1/2                         | 1/2                         | 1/2                         | 1/2                         | 1/2                         | 1/2                         |
| <b>SHIP WEIGHT (LBS)</b>       | 109                         | 109                         | 109                         | 109                         | 109                         | 109                         |

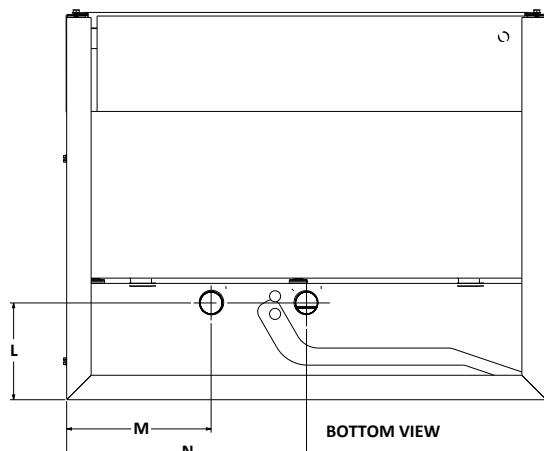
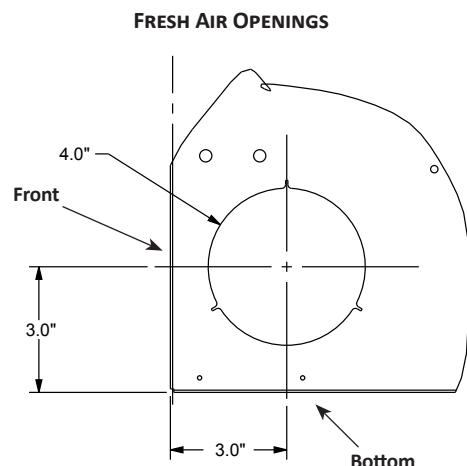
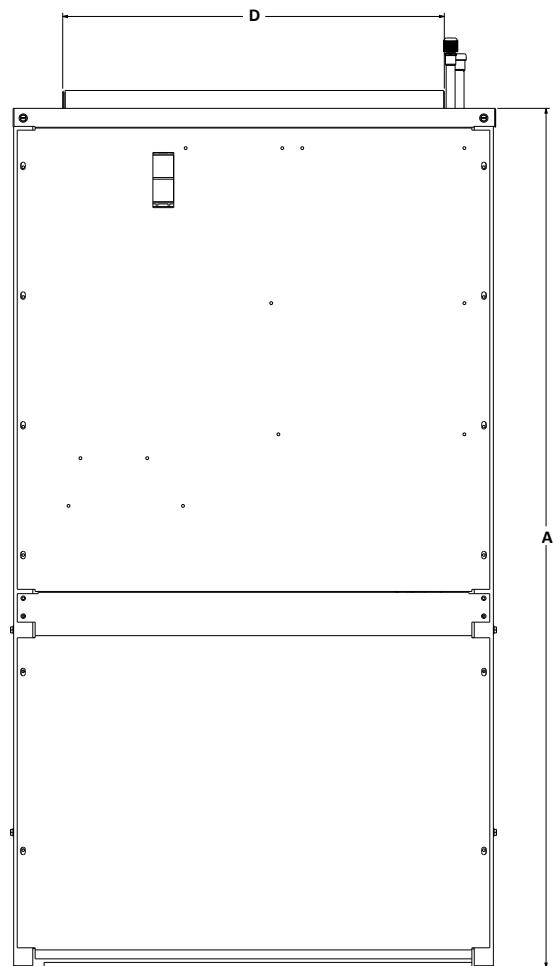
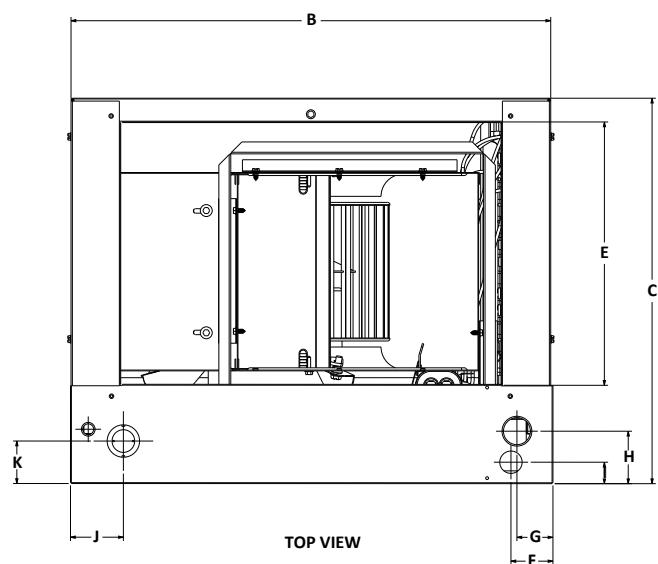
**Note** - Once installed, top of unit must be level or slightly tilted back to ensure proper condensate drainage.



| <b>SMALL CHASSIS<br/>(AWST18-24)</b> |                                   |
|--------------------------------------|-----------------------------------|
| A                                    | 36"                               |
| B                                    | 20 <sup>3</sup> / <sub>16</sub> " |
| C                                    | 16 <sup>1</sup> / <sub>8</sub> "  |
| D                                    | 16"                               |
| E                                    | 11"                               |
| Filter                               | 14" x 18" x 1"                    |

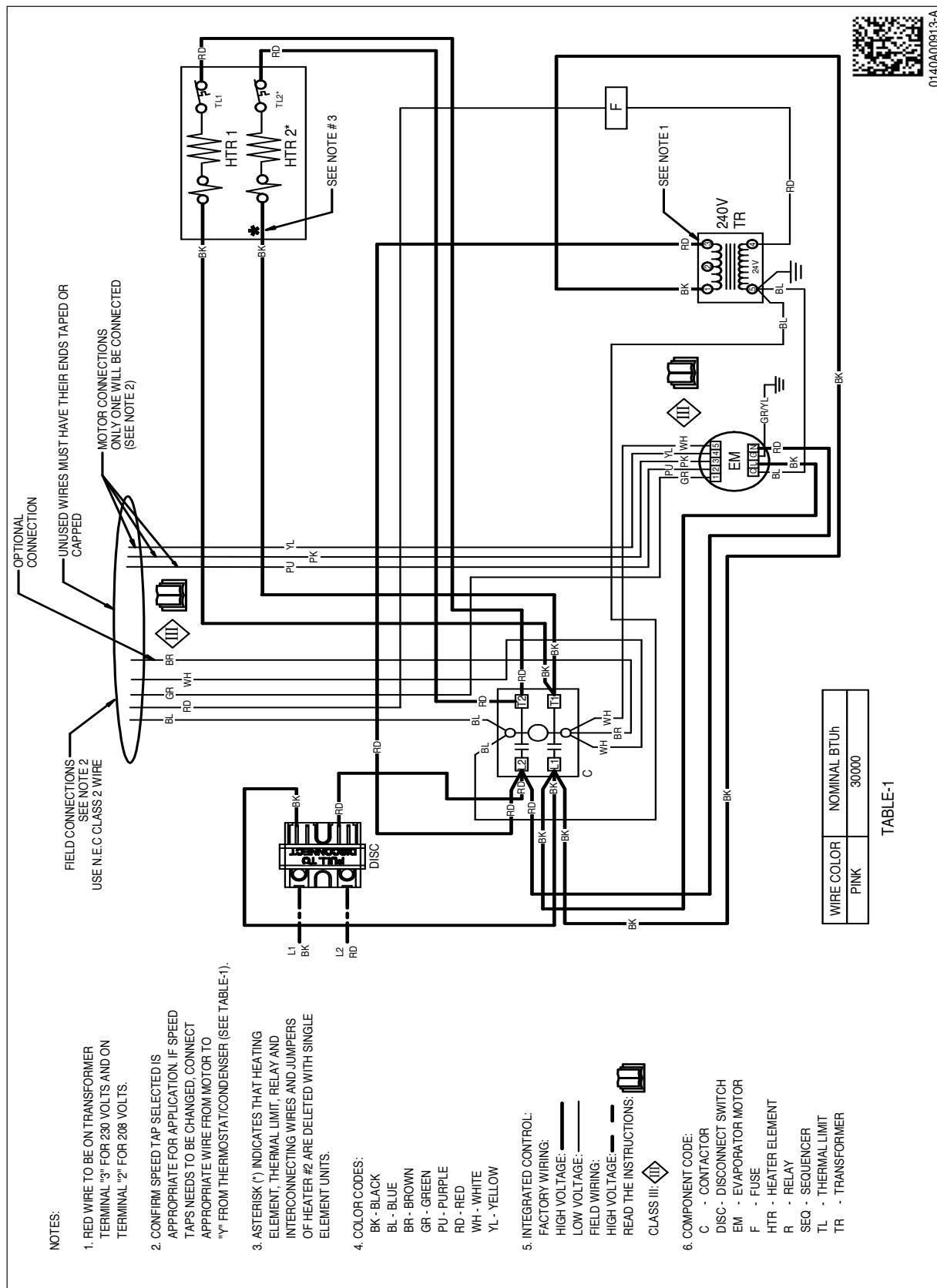
| <b>LARGE CHASSIS<br/>(AWST30-36)</b> |                                  |
|--------------------------------------|----------------------------------|
| A                                    | 36"                              |
| B                                    | 24"                              |
| C                                    | 21"                              |
| D                                    | 19 <sup>7</sup> / <sub>8</sub> " |
| E                                    | 15 <sup>7</sup> / <sub>8</sub> " |
| Filter (30, 36, 31, 32, 37)          | 18" x 20" x 1"                   |

*DIMENSIONS (CONTD.)*



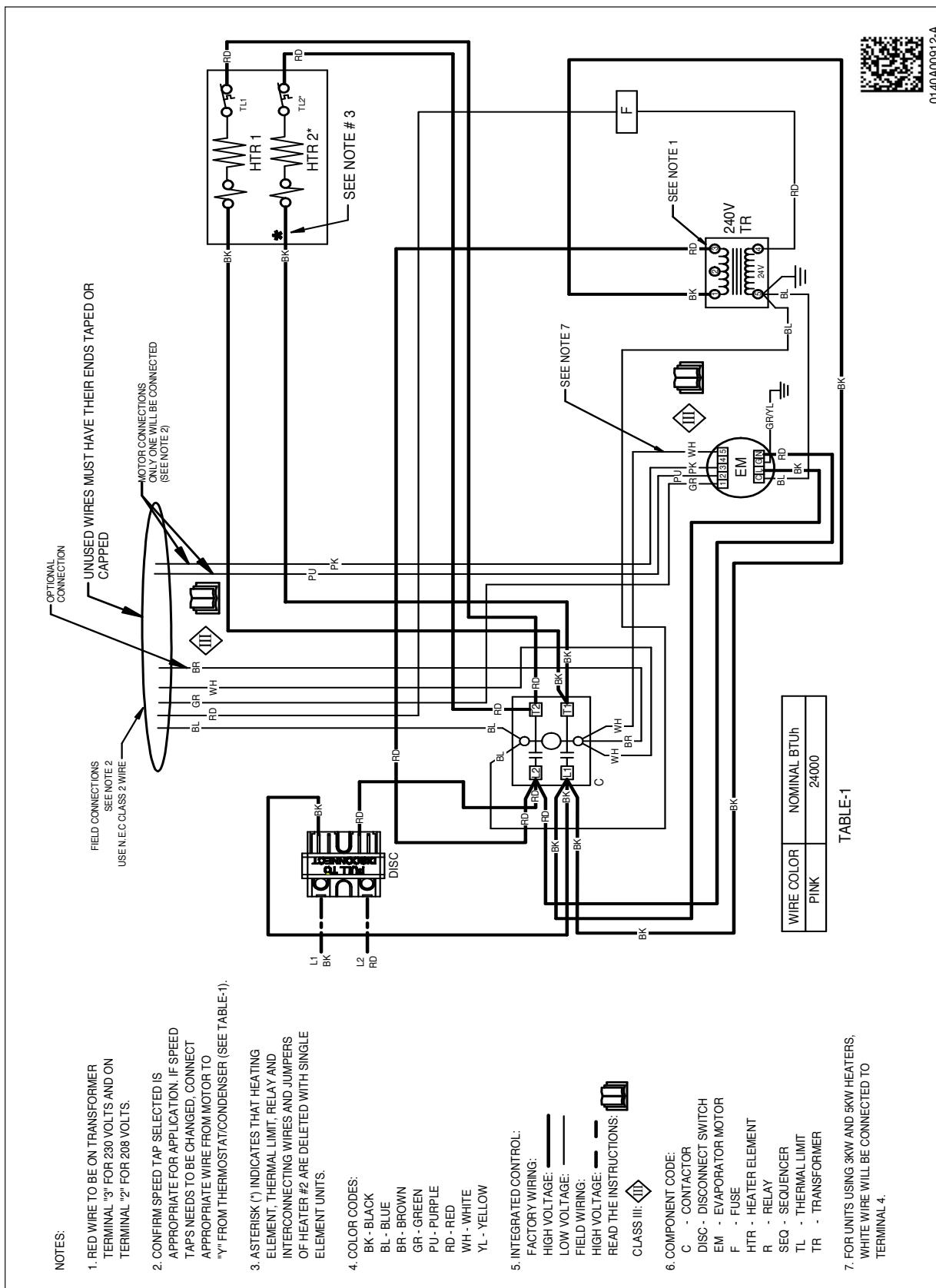
|            | A   | B    | C    | D    | E   | F   | G   | H   | I  | J   | K   | L  | M  | N   |
|------------|-----|------|------|------|-----|-----|-----|-----|----|-----|-----|----|----|-----|
| AWST 18-24 | 36" | 20½" | 16½" | 16"  | 11" | 1¼" | 1½" | 2¼" | ⅞" | 1½" | 1¾" | 4" | 6" | 10" |
| AWST 30-36 | 36" | 24"  | 21"  | 19½" | 16" | 4½" | 1½" | 1¾" | 2" | 1¼" | 2¾" | 4" | 8" | 12" |

| MODEL           | MOTOR SPEED | CFM DELIVERED AGAINST EXTERNAL STATIC PRESSURE |      |      |      |      |
|-----------------|-------------|--|------|------|------|------|
|                 |             | 0.1"   | 0.2" | 0.3" | 0.4" | 0.5" |
| AWST18SU14** BA | T1          | 630  | 602  | 576  | 550  | 521  |
|                 | T2          | 630  | 602  | 576  | 550  | 521  |
|                 | T3          | 637  | 609  | 586  | 557  | 531  |
|                 | T4          | 630  | 602  | 576  | 550  | 521  |
|                 | T5          | 846  | 824  | 800  | 777  | 756  |
| AWST24SU14** BA | T1          | 630  | 602  | 576  | 550  | 521  |
|                 | T2          | 630  | 602  | 576  | 550  | 521  |
|                 | T3          | 784  | 763  | 742  | 728  | 705  |
|                 | T4          | 630  | 602  | 576  | 550  | 521  |
|                 | T5          | 846  | 823  | 800  | 777  | 756  |
| AWST30LU14** BA | T1          | 683  | 604  | 525  | 460  | 369  |
|                 | T2          | 900  | 856  | 803  | 734  | 681  |
|                 | T3          | 1079   | 1025 | 989  | 949  | 889  |
|                 | T4          | 944  | 897  | 848  | 783  | 733  |
|                 | T5          | 1168   | 1127 | 1083 | 1050 | 1005 |
| AWST36LU14** BA | T1          | 1114   | 1072 | 1031 | 982  | 924  |
|                 | T2          | 1114   | 1072 | 1031 | 982  | 924  |
|                 | T3          | 1225   | 1191 | 1152 | 1112 | 1071 |
|                 | T4          | 1287   | 1255 | 1219 | 1183 | 1146 |
|                 |             | 1360   | 1329 | 1299 | 1264 | 1230 |



**WARNING** **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

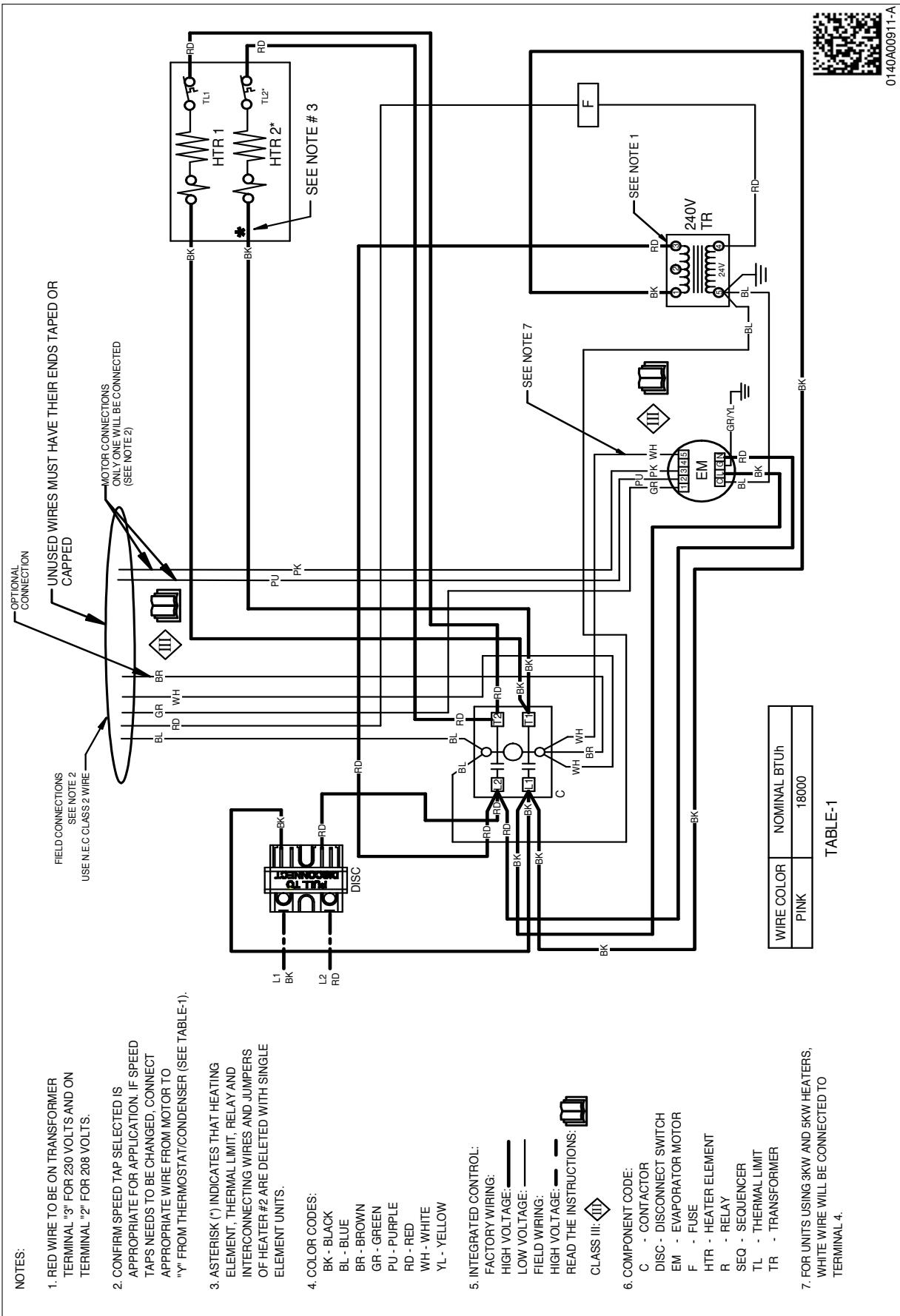
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



**WARNING** **High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

# AIR HANDLER WIRING DIAGRAM GAWST18SU14\*\*



0140A00911-A

|   |                |   |
|---|----------------|---|
|  | <b>WARNING</b> | <b>High Voltage:</b> Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death. |
|---|----------------|---|

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



## *NOTES*

Our continuing commitment to quality products may mean a change in specifications without notice.

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