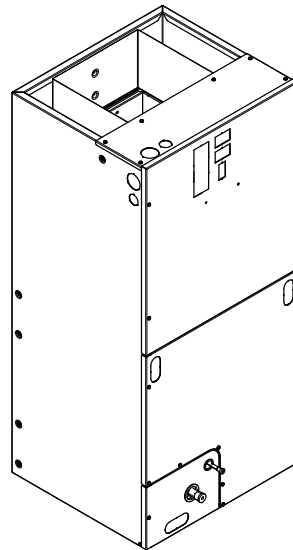


# Submittal

## Variable Speed Convertible Air Handler 4 Ton

TEM6A0D48H41SB



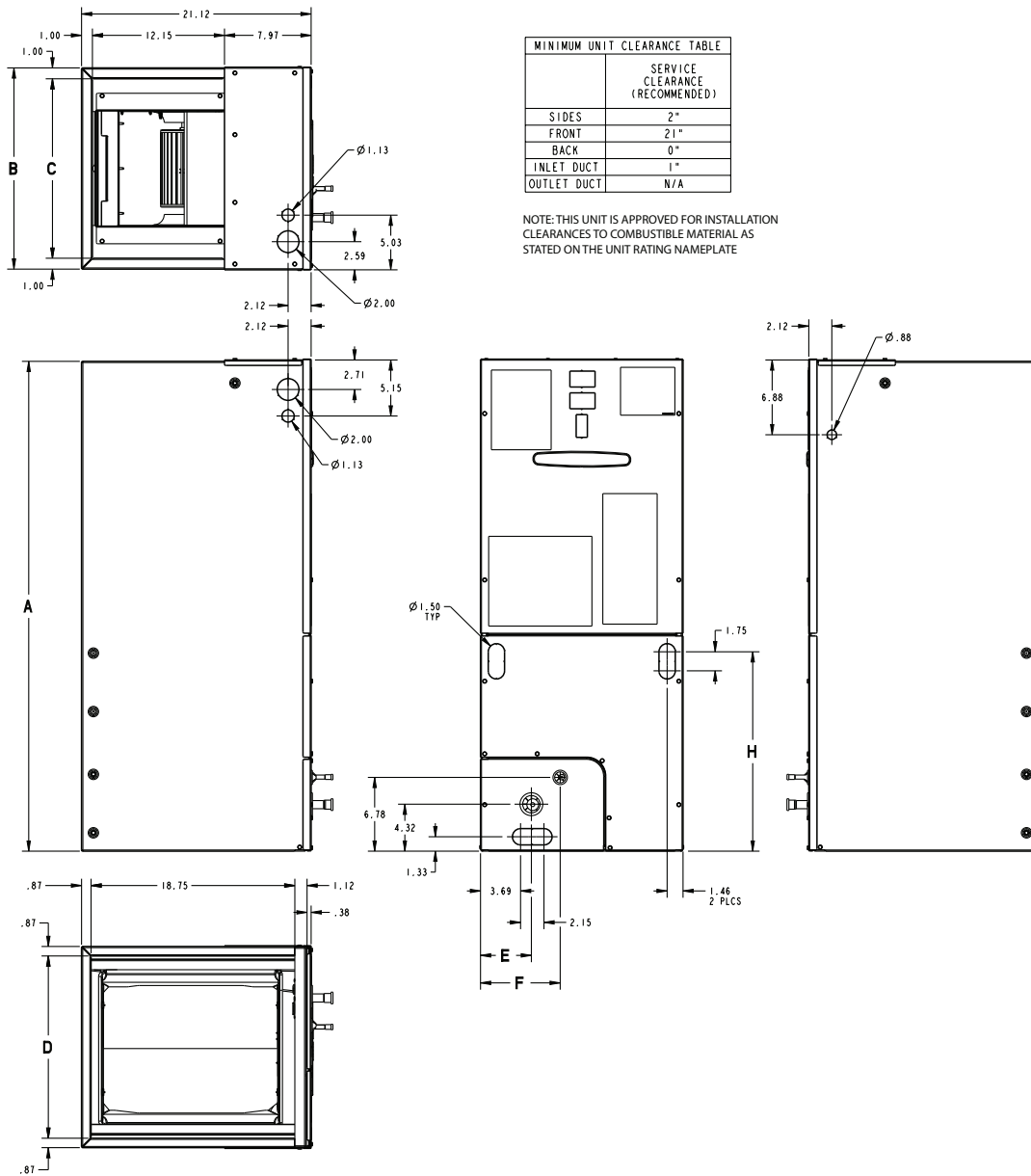
**Note:** The TEM6 series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.

TAG: \_\_\_\_\_

### **▲ SAFETY WARNING**

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

# Outline Drawing



| MINIMUM UNIT CLEARANCE TABLE |                                 |
|------------------------------|---------------------------------|
|                              | SERVICE CLEARANCE (RECOMMENDED) |
| SIDES                        | 2"                              |
| FRONT                        | 21"                             |
| BACK                         | 0"                              |
| INLET DUCT                   | 1"                              |
| OUTLET DUCT                  | N/A                             |

NOTE: THIS UNIT IS APPROVED FOR INSTALLATION CLEARANCES TO COMBUSTIBLE MATERIAL AS STATED ON THE UNIT RATING NAMEPLATE

| PRODUCT DIMENSIONS |       |       |       |       |      |      |       |              |                |
|--------------------|-------|-------|-------|-------|------|------|-------|--------------|----------------|
| Air Handler Model  | A     | B     | C     | D     | E    | F    | H     | Flow Control | Gas Line Braze |
| TEM6A0D48H41SB     | 53.87 | 26.50 | 24.50 | 24.75 | 7.01 | 9.66 | 27.19 | TXV          | 7/8            |

All dimensions are in inches

# Product Specifications

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>MODEL</b>                          | TEM6A0D48H41SB            |
| <b>RATED VOLTS/PH/HZ</b>              | 208-230/1/60              |
| <b>RATINGS<sup>(a)</sup></b>          | See O.D. Specifications   |
| <b>INDOOR COIL — Type</b>             | Plate Fin                 |
| Rows — F.P.I.                         | 4 - 16                    |
| Face Area (sq. ft.)                   | 6.47                      |
| Tube Size (in.)                       | 3/8                       |
| Refrigerant Control                   | TXV                       |
| Drain Conn. Size (in.) <sup>(b)</sup> | 3/4 NPT                   |
| <b>DUCT CONNECTIONS</b>               | See Outline Drawing       |
| <b>INDOOR FAN — Type</b>              | Centrifugal               |
| Diameter-Width (In.)                  | 11 X 11                   |
| No. Used                              | 1                         |
| Drive - No. Speeds                    | Direct - 16               |
| CFM vs. in. w.g.                      | See Fan Performance Table |
| No. Motors — H.P.                     | 1 - 3/4                   |
| Motor Speed R.P.M.                    | Variable                  |
| Volts/Ph/Hz                           | 208-230/1/60              |

|                                   |                          |
|-----------------------------------|--------------------------|
| F.L. Amps                         | 6.8                      |
| <b>FILTER</b>                     |                          |
| Filter Furnished? <sup>(c)</sup>  | No                       |
| <b>REFRIGERANT</b>                | R-410A                   |
| Ref. Line Connections             | Brazed                   |
| Coupling or Conn. Size — in. Gas  | 7/8                      |
| Coupling or Conn. Size — in. Liq. | 3/8                      |
| <b>DIMENSIONS</b>                 | H x W x D                |
| Crated (In.)                      | 55-3/8 x 30-1/2 x 25-1/2 |
| Uncrated                          | 53-7/8 x 26-1/2 x 21-1/8 |
| <b>WEIGHT</b>                     |                          |
| Shipping (Lbs.) / Net (Lbs.)      | 181/168                  |

<sup>(a)</sup> These Air Handlers are A.H.R.I certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

<sup>(b)</sup> 3/4" Male Plastic Pipe (Ref: ASTM 1785-76)

<sup>(c)</sup> Remote filter required.

# Minimum Airflow CFM

| TEM6A0D48H41SB   |                            |                   |
|--|----------------------------|-------------------|
| Heater   | Minimum Heater Airflow CFM |                   |
|  | With Heat Pump             | Without Heat Pump |
| BAYHTR1504BRK, BAYHTR1504LUG<br>BAYHTR1505BRK, BAYHTR1505LUG | 1150                       | 975               |
| BAYHTR1508BRK, BAYHTR1508LUG                                 | 1150                       | 975               |
| BAYHTR1510BRK, BAYHTR1510LUG                                 | 1150                       | 975               |
| BAYHTR1517BRK  | 1300                       | 1125              |
| BAYHTR3510LUG  | 1150                       | 975               |
| BAYHTR3517LUG  | 1300                       | 1125              |
| BAYHTR1523BRK  | 1380                       | 1125              |
| BAYHTR1525BRK  | 1550                       | 1345              |

| TEM6A0D48H41SB Airflow Performance with Auxiliary Heat |                     |          |                 |   |
|--|---------------------|----------|-----------------|---|
| Airflow Settings                                       | Dip Switch Settings |          | Nominal Airflow | See following tables for heater application:<br>- Pressure Drop for Electrical Heaters<br>- Minimum Heating Airflow Matrix (on unit nameplates) |
|  | Switch 7            | Switch 8 |                 |   |
| Low  | ON                  | ON       | 997             |   |
| Med-Lo   | OFF                 | ON       | 1129            |   |
| Med-Hi   | ON                  | OFF      | 1350            |   |
| High   | OFF                 | OFF      | 1597            |   |

# Heater Pressure Drop Table

| Airflow<br>CFM | Number of Racks                 |      |      |      | Heater Racks |              |
|----------------|---------------------------------|------|------|------|--------------|--------------|
|                | 1                               | 2    | 3    | 4    | Heater Model | No. of Racks |
|                | Air Pressure Drop — Inches W.G. |      |      |      |              |              |
| 1800           | 0.02                            | 0.04 | 0.06 | 0.14 | BAYHTR1504   | 1            |
| 1700           | 0.02                            | 0.04 | 0.06 | 0.14 | BAYHTR1505   | 1            |
| 1600           | 0.02                            | 0.04 | 0.06 | 0.13 | BAYHTR1508   | 2            |
| 1500           | 0.02                            | 0.04 | 0.06 | 0.12 | BAYHTR1510   | 2            |
| 1400           | 0.02                            | 0.04 | 0.06 | 0.12 | BAYHTR1516   | 3            |
| 1300           | 0.02                            | 0.04 | 0.05 | 0.11 | BAYHTR1517   | 3            |
| 1200           | 0.01                            | 0.04 | 0.05 | 0.10 | BAYHTR3510   | 3            |
| 1100           | 0.01                            | 0.03 | 0.05 | 0.09 | BAYHTR3517   | 3            |
| 1000           | 0.01                            | 0.03 | 0.04 | 0.09 | BAYHTR3515   | 3            |
| 900            | 0.01                            | 0.03 | 0.04 | 0.08 | BAYHTR1522   | 4            |
| 800            | 0.01                            | 0.03 |      |      | BAYHTR1523   | 4            |
| 700            | 0.01                            | 0.02 |      |      | BAYHTR1525   | 4            |
| 600            | 0.01                            | 0.02 |      |      |              |              |

# Performance and Electrical Data

**Table 1. Air Flow Performance**

| TEM6A0D48H41SB, TEM6A0D60H51SB COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER |                       |                 |                    |     |     |     |               |                          |             |             |             |             |
|--|-----------------------|-----------------|--------------------|-----|-----|-----|---------------|--------------------------|-------------|-------------|-------------|-------------|
| OUTDOOR UNIT SIZE (TONS)   | SPEED SETTING         | AIRFLOW SETTING | DIP SWITCH SETTING |     |     |     | AIRFLOW POWER | EXTERNAL STATIC PRESSURE |             |             |             |             |
|  |                       |                 | SW1                | SW2 | SW3 | SW4 |               | 0.1                      | 0.3         | 0.5         | 0.7         | 0.9         |
| 3  | LOW                   | 323 CFM/ton     | ON                 | ON  | OFF | ON  | CFM Watts     | 979<br>87                | 978<br>126  | 959<br>170  | 922<br>217  | 867<br>269  |
|  | NORMAL                | 367 CFM/ton     | ON                 | ON  | OFF | OFF | CFM Watts     | 1111<br>124              | 1113<br>168 | 1101<br>215 | 1075<br>265 | 1036<br>317 |
|  | HIGH                  | 415 CFM/ton     | ON                 | ON  | ON  | OFF | CFM Watts     | 1252<br>165              | 1259<br>214 | 1254<br>264 | 1239<br>314 | 1212<br>364 |
| 3.5  | LOW                   | 315 CFM/ton     | OFF                | ON  | OFF | ON  | CFM Watts     | 1111<br>124              | 1113<br>168 | 1101<br>215 | 1075<br>265 | 1036<br>317 |
|  | NORMAL                | 358 CFM/ton     | OFF                | ON  | OFF | OFF | CFM Watts     | 1259<br>167              | 1266<br>217 | 1261<br>267 | 1246<br>317 | 1220<br>368 |
|  | HIGH                  | 404 CFM/ton     | OFF                | ON  | ON  | OFF | CFM Watts     | 1419<br>223              | 1428<br>279 | 1425<br>334 | 1411<br>389 | 1386<br>444 |
| 4  | LOW                   | 309 CFM/ton     | ON                 | OFF | OFF | ON  | CFM Watts     | 1241<br>161              | 1248<br>210 | 1243<br>259 | 1227<br>309 | 1201<br>359 |
|  | NORMAL                | 351 CFM/ton     | ON                 | OFF | OFF | OFF | CFM Watts     | 1407<br>218              | 1416<br>273 | 1413<br>328 | 1399<br>383 | 1373<br>437 |
|  | HIGH                  | 396 CFM/ton     | ON                 | OFF | ON  | OFF | CFM Watts     | 1583<br>296              | 1593<br>359 | 1594<br>422 | 1586<br>485 | 1570<br>547 |
| 5  | LOW                   | 295 CFM/ton     | OFF                | OFF | OFF | ON  | CFM Watts     | 1478<br>249              | 1487<br>307 | 1486<br>365 | 1474<br>423 | 1452<br>481 |
|  | NORMAL <sup>(a)</sup> | 335 CFM/ton     | OFF                | OFF | OFF | OFF | CFM Watts     | 1671<br>344              | 1681<br>412 | 1684<br>479 | 1678<br>545 | 1635<br>565 |
|  | HIGH                  | 379 CFM/ton     | OFF                | OFF | ON  | OFF | CFM Watts     | 1880<br>476              | 1892<br>556 | 1900<br>635 | 1902<br>714 | 1760<br>650 |

<sup>(a)</sup> Factory Default Setting

**Table 2. Air Flow Performance**

| TEM6A0D48H41SB, TEM6A0D60H51SB HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER |                       |                 |                    |     |     |     |               |                          |             |             |             |             |
|--|-----------------------|-----------------|--------------------|-----|-----|-----|---------------|--------------------------|-------------|-------------|-------------|-------------|
| OUTDOOR UNIT SIZE (TONS)   | SPEED SETTING         | AIRFLOW SETTING | DIP SWITCH SETTING |     |     |     | AIRFLOW POWER | EXTERNAL STATIC PRESSURE |             |             |             |             |
|  |                       |                 | SW1                | SW2 | SW3 | SW4 |               | 0.1                      | 0.3         | 0.5         | 0.7         | 0.9         |
| 3  | LOW                   | 360 CFM/ton     | ON                 | ON  | OFF | ON  | CFM Watts     | 1087<br>111              | 1091<br>153 | 1081<br>199 | 1055<br>249 | 1015<br>301 |
|  | NORMAL                | 400 CFM/ton     | ON                 | ON  | OFF | OFF | CFM Watts     | 1205<br>139              | 1213<br>186 | 1211<br>234 | 1198<br>283 | 1173<br>333 |
|  | HIGH                  | 440 CFM/ton     | ON                 | ON  | ON  | OFF | CFM Watts     | 1322<br>175              | 1333<br>227 | 1332<br>279 | 1321<br>332 | 1297<br>384 |
| 3.5  | LOW                   | 347 CFM/ton     | OFF                | ON  | OFF | ON  | CFM Watts     | 1219<br>143              | 1228<br>191 | 1226<br>240 | 1213<br>289 | 1189<br>339 |
|  | NORMAL                | 386 CFM/ton     | OFF                | ON  | OFF | OFF | CFM Watts     | 1351<br>184              | 1363<br>237 | 1363<br>290 | 1351<br>344 | 1328<br>397 |
|  | HIGH                  | 424 CFM/ton     | OFF                | ON  | ON  | OFF | CFM Watts     | 1482<br>232              | 1495<br>291 | 1497<br>349 | 1489<br>408 | 1471<br>466 |
| 4  | LOW                   | 351 CFM/ton     | ON                 | OFF | OFF | ON  | CFM Watts     | 1405<br>201              | 1417<br>256 | 1418<br>311 | 1408<br>367 | 1385<br>422 |
|  | NORMAL                | 390 CFM/ton     | ON                 | OFF | OFF | OFF | CFM Watts     | 1555<br>262              | 1568<br>323 | 1572<br>385 | 1567<br>447 | 1553<br>509 |
|  | HIGH                  | 429 CFM/ton     | ON                 | OFF | ON  | OFF | CFM Watts     | 1703<br>334              | 1717<br>403 | 1723<br>472 | 1722<br>540 | 1665<br>560 |
| 5  | LOW                   | 327 CFM/ton     | OFF                | OFF | OFF | ON  | CFM Watts     | 1625<br>294              | 1639<br>359 | 1644<br>424 | 1641<br>489 | 1630<br>554 |
|  | NORMAL <sup>(a)</sup> | 363 CFM/ton     | OFF                | OFF | OFF | OFF | CFM Watts     | 1797<br>384              | 1812<br>459 | 1820<br>533 | 1822<br>606 | 1750<br>615 |
|  | HIGH                  | 400 CFM/ton     | OFF                | OFF | ON  | OFF | CFM Watts     | 1970<br>495              | 1986<br>581 | 1999<br>667 | 2010<br>740 | 1910<br>680 |

<sup>(a)</sup> Factory Default Setting

1. See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters.
2. Heater model numbers may have additional suffix digits.

**Table 3. Electrical Data**

| <b>TEM6A0D48H41SB, TEM6A0D60H51SB HEATER DATA</b> |                            |          |       |                         |                          |                             |          |       |                         |                          |                             |
|---|----------------------------|----------|-------|-------------------------|--------------------------|-----------------------------|----------|-------|-------------------------|--------------------------|-----------------------------|
| Heater Model No.                                  | No. of Circuits/<br>Phases | 240 Volt |       |                         |                          |                             | 208 Volt |       |                         |                          |                             |
|   |                            | Capacity |       | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity |       | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
|   |                            | kW       | BTUH  |                         |                          |                             | kW       | BTUH  |                         |                          |                             |
| No Heater   |                            |          |       | 6.8 *                   | 9                        | 15                          |          |       | 6.8 *                   | 9                        | 15                          |
| BAYHTR1504BRK<br>BAYHTR1504LUG                    | 1/1                        | 3.84     | 13100 | 16.0                    | 29                       | 30                          | 2.88     | 9800  | 13.8                    | 26                       | 30                          |
| BAYHTR1505BRK<br>BAYHTR1505LUG                    | 1/1                        | 4.80     | 16400 | 20.0                    | 34                       | 35                          | 3.60     | 12300 | 17.3                    | 30                       | 30                          |
| BAYHTR1508BRK<br>BAYHTR1508LUG                    | 1/1                        | 7.68     | 26200 | 32.0                    | 49                       | 50                          | 5.76     | 19700 | 27.7                    | 43                       | 45                          |
| BAYHTR1510BRK<br>BAYHTR1510LUG                    | 1/1                        | 9.60     | 32800 | 40.0                    | 59                       | 60                          | 7.20     | 24600 | 34.6                    | 52                       | 60                          |
| BAYHTR1517BRK<br>Circuit 1 <sup>(a)</sup>         | 2/1                        | 9.60     | 32800 | 40.0                    | 59                       | 60                          | 7.20     | 24600 | 34.6                    | 52                       | 60                          |
| BAYHTR1517BRK<br>Circuit 2                        |                            | 4.80     | 16400 | 20.0                    | 25                       | 25                          | 3.60     | 12300 | 17.3                    | 22                       | 25                          |
| BAYHTR1523BRK<br>Circuit 1                        | 2/1                        | 9.60     | 32800 | 40.0                    | 59                       | 60                          | 7.20     | 24600 | 34.6                    | 52                       | 60                          |
| BAYHTR1523BRK<br>Circuit 2                        |                            | 9.60     | 32800 | 40.0                    | 50                       | 50                          | 7.20     | 24600 | 34.6                    | 43                       | 45                          |
| BAYHTR1525BRK<br>Circuit 1                        | 4/1                        | 6.00     | 20500 | 25.0                    | 40                       | 40                          | 4.50     | 15400 | 21.6                    | 36                       | 40                          |
| BAYHTR1525BRK<br>Circuit 2                        |                            | 6.00     | 20500 | 25.0                    | 31                       | 35                          | 4.50     | 15400 | 21.6                    | 27                       | 30                          |
| BAYHTR1525BRK<br>Circuit 3                        |                            | 6.00     | 20500 | 25.0                    | 31                       | 35                          | 4.50     | 15400 | 21.6                    | 27                       | 30                          |
| BAYHTR1525BRK<br>Circuit 4                        |                            | 6.00     | 20500 | 25.0                    | 31                       | 35                          | 4.50     | 15400 | 21.6                    | 27                       | 30                          |
| BAYHTR3510LUG                                     | 1/3                        | 9.60     | 32800 | 23.1                    | 36                       | 40                          | 7.20     | 24600 | 20.0                    | 33                       | 35                          |
| BAYHTR3517LUG                                     | 1/3                        | 14.40    | 49100 | 34.6                    | 51                       | 60                          | 10.80    | 36900 | 30.0                    | 45                       | 45                          |

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

## Features and Benefits

- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil with Enhanced Patented Coil Fin
- Electric Heaters with polarized plug connections (sold as accessory)
- R-410A Thermal Expansion Valve
- Variable Speed ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain Pan
- Single Color
- Fused 24V Power
- **3 year warranty**
- **10-year warranty registered**
- **Optional extended warranty available**



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