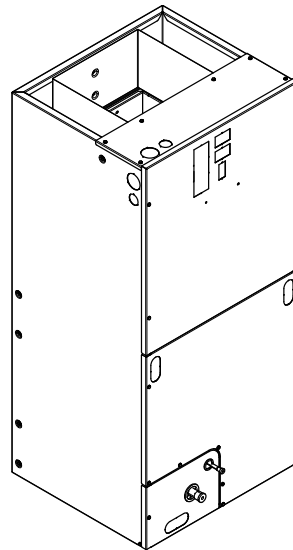


Submittal

Variable Speed Convertible Air Handler 4 Ton

TEM6A0C48H41S



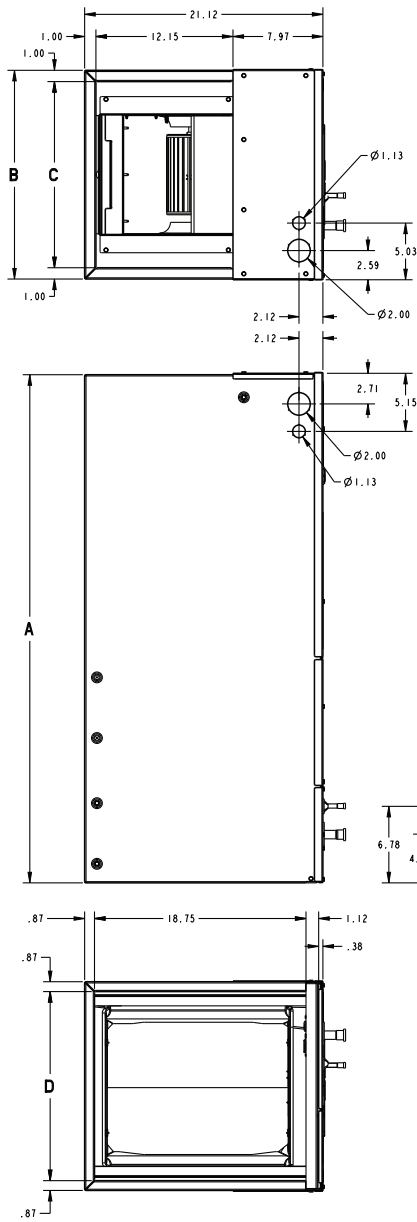
Note: The TEM6 series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment.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

TAG: _____

▲ SAFETY WARNING

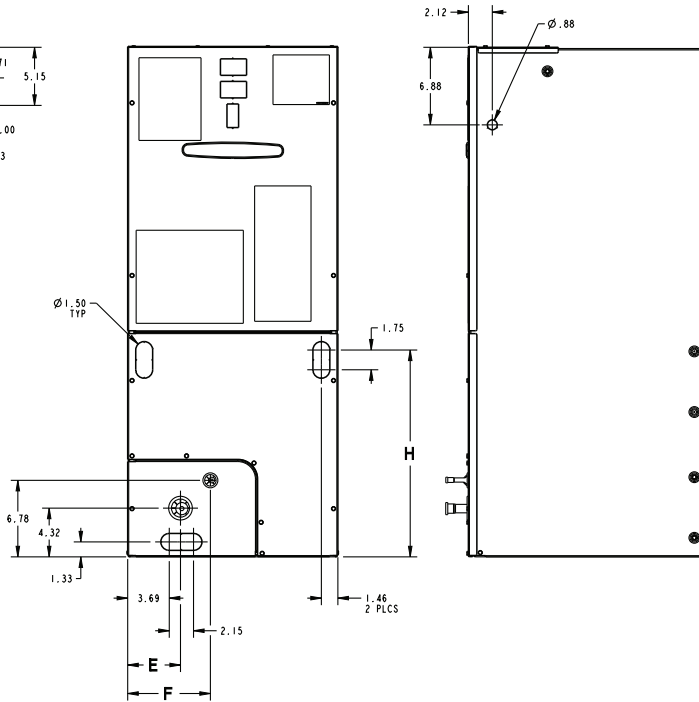
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified 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



| | TO COMBUSTIBLE MATERIAL (REQUIRED) | SERVICE CLEARANCE (RECOMMENDED) |
|-------------|------------------------------------|---------------------------------|
| SIDES | 0" | 2" |
| FRONT | 0" | 21" |
| BACK | 0" | 0" |
| INLET DUCT | 0" | 1" |
| OUTLET DUCT | 1"+ | N/A |

*1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED; 0" AFTER THE FIRST 3 FT.



| PRODUCT DIMENSIONS | | | | | | | | | |
|--------------------|-------|-------|-------|-------|------|------|-------|--------------|----------------|
| Air Handler Model | A | B | C | D | E | F | H | Flow Control | Gas Line Braze |
| TEM6A0C48H41SA | 55.87 | 23.50 | 21.50 | 21.75 | 4.68 | 9.66 | 27.19 | TXV | 7/8 |

All dimensions are in inches

Product Specifications

| | |
|---------------------------------------|---------------------------|
| MODEL | TEM6A0C48H41SA |
| RATED VOLTS/PH/HZ | 208-230/1/60 |
| RATINGS^(a) | See O.D. Specifications |
| INDOOR COIL — Type | Plate Fin |
| Rows — F.P.I. | 3 - 16 |
| Face Area (sq. ft.) | 7.9 |
| Tube Size (in.) | 3/8 |
| Refrigerant Control | TXV |
| Drain Conn. Size (in.) ^(b) | 3/4 NPT |
| DUCT CONNECTIONS | See Outline Drawing |
| INDOOR FAN — Type | Centrifugal |
| Diameter-Width (In.) | 11 X 10 |
| 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 |
| FILTER | |
| Filter Furnished? ^(c) | No |
| REFRIGERANT | R-410A |
| Ref. Line Connections | Brazed |
| Coupling or Conn. Size — in. Gas | 7/8 |
| Coupling or Conn. Size — in. Liq. | 3/8 |
| DIMENSIONS | H x W x D |
| Crated (In.) | 57-1/8 x 27-1/2 x 25-1/2 |
| Uncrated | 55-3/4 x 23-1/2 x 21-1/8 |
| WEIGHT | |
| Shipping (Lbs.) / Net (Lbs.) | 185/174 |

^(a) 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.

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

^(c) Remote filter required.

Minimum Airflow CFM

| TEM6A0C48H41S | | |
|--|----------------------------|-------------------|
| Heater | Minimum Heater Airflow CFM | |
| | With Heat Pump | Without Heat Pump |
| BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB | 1200 | 975 |
| BAYHTR1508BRKC, BAYHTR1508LUGB | 1200 | 975 |
| BAYHTR1510BRKC, BAYHTR1510LUGB | 1200 | 975 |
| BAYHTR1516BRKA | 1200 | 975 |
| BAYHTR3510LUGC | 1200 | 975 |
| BAYHTR3515LUGC | 1200 | 975 |
| BAYHTR1522BRKA | 1350 | 1125 |
| BAYHTR1525BRKA | 1500 | 1350 |

| TEM6A0C48H41 Airflow Performance with Auxiliary Heat | | | | |
|--|---------------------|----------|-----------------|--|
| Airflow Settings | Dip Switch Settings | | Nominal Airflow | See following tables for heater application: - Pressure Drop for Electrical Heters - Minimum Heating Airflow Matrix (on unit nameplates) |
| | Switch 7 | Switch 8 | | |
| Low | ON | ON | 1000 | |
| Med-Lo | OFF | ON | 1130 | |
| Med-Hi | ON | OFF | 1354 | |
| High | OFF | OFF | 1596 | |

Heater Pressure Drop Table

| Airflow 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 | BAYHTR3510 | 3 |
| 1200 | 0.01 | 0.04 | 0.05 | 0.10 | BAYHTR3515 | 3 |
| 1100 | 0.01 | 0.03 | 0.05 | 0.09 | BAYHTR1522 | 4 |
| 1000 | 0.01 | 0.03 | 0.04 | 0.09 | BAYHTR1525 | 4 |
| 900 | 0.01 | 0.03 | 0.04 | 0.08 | | |
| 800 | 0.01 | 0.03 | | | | |
| 700 | 0.01 | 0.02 | | | | |
| 600 | 0.01 | 0.02 | | | | |

Subcooling Adjustment for TEM6A0C48H41 & TEM6A0C60H51

| Sub-Cooling Charge Specification For AHRI Rated Performance | | |
|---|----------------------|------------------------------|
| OD Equipment | Up Flow / Horizontal | Down Flow |
| AC UNIT | OD Name Plate | OD Name Plate |
| HP UNIT ≤ 3.5 Tons | OD Name Plate | OD Name Plate + 4 Degrees |
| HP UNIT = 4 and 5 Tons | OD Name Plate | OD Name Plate |

Performance and Electrical Data

Table 1. Air Flow Performance

| TEM6A0C48, TEM6A0C60 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 | 324 CFM/ton | ON | ON | OFF | ON | CFM Watts | 991 89 | 985 133 | 974 186 | 984 237 | 994 303 |
| | NORMAL | 368 CFM/ton | ON | ON | OFF | OFF | CFM Watts | 1120 118 | 1119 167 | 1110 224 | 1116 279 | 1122 333 |
| | HIGH | 423 CFM/ton | ON | ON | ON | OFF | CFM Watts | 1282 162 | 1286 219 | 1281 280 | 1280 343 | 1282 402 |
| 3.5 | LOW | 314 CFM/ton | OFF | ON | OFF | ON | CFM Watts | 1116 117 | 1114 165 | 1105 222 | 1111 277 | 1117 331 |
| | NORMAL | 357 CFM/ton | OFF | ON | OFF | OFF | CFM Watts | 1263 156 | 1266 212 | 1261 273 | 1261 334 | 1263 392 |
| | HIGH | 411 CFM/ton | OFF | ON | ON | OFF | CFM Watts | 1449 218 | 1458 287 | 1456 352 | 1449 421 | 1447 496 |
| 4 | LOW | 298 CFM/ton | ON | OFF | OFF | ON | CFM Watts | 1207 140 | 1208 193 | 1201 252 | 1203 311 | 1207 366 |
| | NORMAL | 339 CFM/ton | ON | OFF | OFF | OFF | CFM Watts | 1368 190 | 1374 252 | 1370 315 | 1367 381 | 1367 448 |
| | HIGH | 389 CFM/ton | ON | OFF | ON | OFF | CFM Watts | 1564 264 | 1577 343 | 1577 411 | 1567 484 | 1561 570 |
| 5 | LOW | 305 CFM/ton | OFF | OFF | OFF | ON | CFM Watts | 1534 251 | 1545 328 | 1545 394 | 1536 467 | 1531 550 |
| | NORMAL ^(a) | 347 CFM/ton | OFF | OFF | OFF | OFF | CFM Watts | 1740 344 | 1758 444 | 1762 518 | 1745 594 | 1734 684 |
| | HIGH ^(b) | 399 CFM/ton | OFF | OFF | ON | OFF | CFM Watts | 1995 484 | 2022 629 | 2030 717 | 2005 783 | 1987 828 |

^(a) Factory Default Setting

^(b) Airflow must not exceed 1800 cfm in horizontal right, horizontal left, and downflow applications due to condensate blowoff. The 5 ton high tap shall not be used in these applications.

Table 2. Air Flow Performance

| TEM6A0C48, TEM6A0C60 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 | 1097 112 | 1094 160 | 1086 216 | 1092 271 | 1099 326 |
| | NORMAL | 400 CFM/ton | ON | ON | OFF | OFF | CFM Watts | 1215 142 | 1216 196 | 1210 255 | 1211 314 | 1215 369 |
| | HIGH | 440 CFM/ton | ON | ON | ON | OFF | CFM Watts | 1333 178 | 1338 238 | 1333 300 | 1331 365 | 1332 428 |
| 3.5 | LOW | 348 CFM/ton | OFF | ON | OFF | ON | CFM Watts | 1232 147 | 1234 202 | 1228 261 | 1229 322 | 1233 377 |
| | NORMAL | 387 CFM/ton | OFF | ON | OFF | OFF | CFM Watts | 1366 189 | 1373 252 | 1369 314 | 1366 381 | 1365 447 |
| | HIGH | 426 CFM/ton | OFF | ON | ON | OFF | CFM Watts | 1500 238 | 1511 311 | 1510 377 | 1502 449 | 1498 529 |
| 4 | LOW | 338 CFM/ton | ON | OFF | OFF | ON | CFM Watts | 1364 188 | 1370 251 | 1366 313 | 1363 379 | 1363 446 |
| | NORMAL | 375 CFM/ton | ON | OFF | OFF | OFF | CFM Watts | 1509 241 | 1520 315 | 1519 382 | 1511 453 | 1506 535 |
| | HIGH | 413 CFM/ton | ON | OFF | ON | OFF | CFM Watts | 1659 305 | 1674 395 | 1676 466 | 1662 541 | 1654 632 |

Table 2. Air Flow Performance (continued)

| TEM6A0C48, TEM6A0C60 HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER | | | | | | | | | | | | |
|--|---------------|-------------|-----|-----|-----|-----|-----------|-------------|-------------|-------------|-------------|-------------|
| 5 | LOW | 326 CFM/ton | OFF | OFF | OFF | ON | CFM Watts | 1637 295 | 1652 383 | 1653 453 | 1641 528 | 1632 618 |
| | NORMAL (a) | 362 CFM/ton | OFF | OFF | OFF | OFF | CFM Watts | 1814 381 | 1834 493 | 1839 570 | 1820 645 | 1807 730 |
| | HIGH | 398 CFM/ton | OFF | OFF | ON | OFF | CFM Watts | 1990 481 | 2017 625 | 2025 713 | 2000 779 | 1982 826 |

(a) 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

| TEM6A0C48, TEM6A0C60 HEATER DATA | | | | | | | | | | | |
|----------------------------------|----------------------------|----------|-------|-------------------------|--------------------------|-----------------------------|----------|-------|-------------------------|--------------------------|-----------------------------|
| Heater Model No. | No. of Circuits/ 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 |
| BAYHTR1504BRKC BAYHTR1504LUGB | 1/1 | 3.84 | 13100 | 16.0 | 29 | 30 | 2.88 | 9800 | 13.8 | 26 | 30 |
| BAYHTR1505BRKC BAYHTR1505LUGB | 1/1 | 4.80 | 16400 | 20.0 | 34 | 35 | 3.60 | 12300 | 17.3 | 30 | 30 |
| BAYHTR1508BRKC BAYHTR1508LUGB | 1/1 | 7.68 | 26200 | 32.0 | 49 | 50 | 5.76 | 19700 | 27.7 | 43 | 45 |
| BAYHTR1510BRKC BAYHTR1510LUGB | 1/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |
| BAYHTR1516BRKA Circuit 1 (a) | 2/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |
| BAYHTR1516BRKA Circuit 2 | | 4.80 | 16400 | 20.0 | 25 | 25 | 3.60 | 12300 | 17.3 | 22 | 25 |
| BAYHTR1522BRKA Circuit 1 (a) | 2/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |
| BAYHTR1522BRKA Circuit 2 | | 9.60 | 32800 | 40.0 | 50 | 50 | 7.20 | 24600 | 34.6 | 43 | 45 |
| BAYHTR1525BRKA Circuit 1 (a) | 4/1 | 6.00 | 20500 | 25.0 | 40 | 40 | 4.50 | 15400 | 21.6 | 36 | 40 |
| BAYHTR1525BRKA Circuit 2 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRKA Circuit 3 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRKA Circuit 4 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR3510LUGC | 1/3 | 9.60 | 32800 | 23.1 | 36 | 40 | 7.20 | 24600 | 20.0 | 33 | 35 |
| BAYHTR3515LUGC | 1/3 | 14.40 | 49100 | 34.6 | 51 | 60 | 10.80 | 36900 | 30.0 | 45 | 45 |

* = Motor Amps

(a) 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
- **1 year warranty**
- **10-year warranty registered**
- **Optional extended warranty available**



The manufacturer optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, the manufacturer offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.IRCO.com.

The manufacturer has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice.

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TEM6A0C48-SUB-1A-EN 03 Feb 2016
Supersedes (New)

