



18000 BTU / H (208/230V) WALL MOUNTED HEAT PUMP SYSTEM

SUBMITTAL DATA: TW18HQ2C2D

| | | |
|------------------|--------------|--|
| Job Name | Location | Date |
| Purchaser | Engineer | |
| Submitted To | For | <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Unit Designation | Schedule No. | |

**AHRI CERTIFIED REF
NO:9108747**



| SYSTEM RATINGS | | | INDOOR UNIT DATA | |
|--------------------------------|--------------------|----------------------------|---------------------------|---------------------------|
| Cooling | | | Fan Motor | |
| Rated Capacity | 18,000 BTU/H | Type | Cross-flow | |
| Capacity Range | 6,800-20,000 BTU/H | Output Power | 60 W | |
| Power Input (Max) | 2,600 W | FLA | 0.24 A | |
| SEER | 20.0 | Air flow | | |
| EER | 12.5 | Cooling Wet (Lo/Hi) | 335/559 CFM | |
| Heating at 47° F | | | Heating Dry (Lo/Hi) | 335/559 CFM |
| Rated Capacity | 19,800 BTU/H | Sound Level | | |
| Capacity Range | 7,340-23,500 BTU/H | Cooling (Min/Max) | 39/47 db(A) | |
| Power Input (Max) | 2,600 W | Heating (Min/Max) | 39/47 db(A) | |
| HSPF | 10.5 | Dehumidification | | |
| COP | 4.7 | 3.80 pt/hr | | |
| Heating at 17° F | | | OUTDOOR UNIT DATA | |
| Rated Capacity | 12,400 BTU/H | Compressor | | |
| Operating Range | | | Type | DC Inverter Driven Rotary |
| Cooling | (Max) | 115°F (46°C) | RLA | 12.1 A |
| | (Min) | 0°F (-18°C) | Refrigerant Type | |
| Heating | (Max) | 75°F (24°C) | R410A | |
| | (Min) | -4°F (-20°C) | Fan Motor | |
| REFRIGERANT PIPING DATA | | | Output Power | 60 W |
| Gas Pipe Size (OD) | 5/8-in | FLA | 0.49 A | |
| Liquid Pipe Size (OD) | 1/4-in | Sound Level | | |
| Connection Method | Flared | Cooling/Heating | 55/55 db(A) | |
| ELECTRICAL DATA | | | Power Supply | |
| Factory Charge | 56.4 oz | Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz | |
| Additional Charge | 0.21 oz/ft | Voltage Range | 187 - 253 V | |
| Pre-Charge Length | 25-ft | MCA | 16 A | |
| MAX Refrigerant Pipe Length | 82-ft | MOCP/Breaker Size | 15 A | |
| MIN Refrigerant Pipe Length | 10-ft | Main Power Wire Size | 10-2 AWG | |
| MAX Refrigerant Pipe Elevation | 33-ft | | | |

GENERAL FEATURES

- Compact and Quiet Design
- High Efficiency DC Inverter Technology
- Wireless Remote with LCD Display
- Wi-Fi Ready (Sold Separately Kit PN: WSBE07)
- XK-41 Wired Tether Controller (Sold Separately)
- Low Ambient Cool to 0 deg F
- Blue Fin Condenser Coil



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FEATURES & FUNCTION SUMMARY: TW18HQ2C2D

| SYSTEM FEATURES | |
|------------------------------------|----------------------------|
| Inverter Type | G10 |
| Ultra Low Frequency Torque Control | Yes |
| Power Factor Correction | Yes |
| Compressor Type | High Eff. Rotary |
| Refrigerant Type | R410A |
| Basepan With Electric Heater | YES |
| Compressor With Electric Heater | YES |
| Outdoor Fin Coating | Blue Fin |
| Intelligent Defrosting | YES |
| Intelligent Preheating | YES |
| Low Voltage Startup | YES |
| Memory/Power Failure Recovery | YES |
| Self Diagnosis | YES |
| Wired Controller Interface (XK-41) | YES |
| Wi-Fi Interface Capable | Optional (see PN: WSBEC07) |
| Indoor Fan Type | Crossflow |
| Multi Fan Speeds | 4 Speeds |
| Indoor Unit Display | YES |
| Advance Filter | Optional (see Filter Kits) |
| Auxiliary Electrical Heater | NO |
| Ventilation (Outdoor Air) | NO |
| REMOTE CONTROLLER FUNCTIONS | |
| Auto Mode | YES |
| Auto Fan | YES |
| Auto Swing (Horizontal Auto Swing) | NO |
| Auto Swing (Vertical Auto Swing) | YES |
| Clock on Remote Controller | YES |
| Dry Mode | YES |
| Dry Anti-Mildew (X-Fan) Mode | NO |
| Energy Saving Mode | YES |
| Dirty Filter Alert | NO |
| I Feel Function | YES |
| Lock on Remote Controller | YES |
| Quiet Mode | NO |
| Room Temperature Display | YES |
| Sleep Mode | YES |
| 4 Sleep Modes Options | NO |
| Timer Mode | YES |
| Turbo Mode | YES |
| Display On/Off Control | YES |
| Freeze Guard Mode | YES |
| Display On/Off Control | YES |
| Freeze Guard Mode | YES |

EXTENDED & RATINGS: TW18HQ2C2D

COOLING PERFORMANCE (BtuH)*

| Outdoor Ambient DB | Indoor Ambient Temperature | | | | | | | |
|--------------------|----------------------------|--------|----------------|--------|----------------|--------|----------------|--------|
| | 68°F DB (20°C) | | 73°F DB (23°C) | | 80°F DB (27°C) | | 82°F DB (28°C) | |
| | 57°F WB (14°C) | | 61°F WB (16°C) | | 67°F WB (19°C) | | 68°F WB (20°C) | |
| | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 5°F | 11,484 | 9,007 | 12,132 | 9,511 | 13,692 | 10,739 | 14,072 | 11,037 |
| 14°F | 11,778 | 9,238 | 12,438 | 9,754 | 14,214 | 11,146 | 14,609 | 11,456 |
| 23°F | 12,582 | 9,870 | 13,458 | 10,557 | 15,420 | 12,094 | 15,848 | 12,430 |
| 32°F | 15,258 | 11,967 | 16,320 | 12,799 | 17,874 | 14,015 | 18,371 | 14,404 |
| 41°F | 17,280 | 13,553 | 18,360 | 14,398 | 19,620 | 15,388 | 20,165 | 15,816 |
| 50°F | 17,076 | 13,395 | 18,162 | 14,246 | 19,440 | 15,248 | 19,980 | 15,672 |
| 59°F | 16,656 | 13,061 | 17,736 | 13,911 | 19,260 | 15,109 | 19,795 | 15,528 |
| 68°F | 16,236 | 12,732 | 17,316 | 13,583 | 18,900 | 14,823 | 19,425 | 15,235 |
| 77°F | 15,822 | 12,410 | 16,896 | 13,249 | 18,540 | 14,543 | 19,055 | 14,947 |
| 86°F | 15,366 | 12,052 | 16,440 | 12,890 | 18,000 | 14,118 | 18,500 | 14,510 |
| 95°F | 14,994 | 11,760 | 16,062 | 12,599 | 17,766 | 13,936 | 18,260 | 14,323 |
| 104°F | 14,622 | 11,468 | 15,690 | 12,307 | 17,532 | 13,753 | 18,019 | 14,135 |
| 113°F | 13,872 | 10,879 | 14,940 | 11,717 | 16,788 | 13,164 | 17,254 | 13,530 |

HEATING PERFORMANCE (BtuH)*

| Outdoor Ambient DB | Indoor Ambient Temperature | | | | | | | |
|--------------------|----------------------------|--------|----------------|--------|----------------|--------|----------------|--------|
| | 68°F DB (20°C) | | 73°F DB (23°C) | | 80°F DB (27°C) | | 86°F DB (30°C) | |
| | 57°F WB (14°C) | | 61°F WB (16°C) | | 67°F WB (19°C) | | 72°F WB (22°C) | |
| | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| -4°F | 10,389 | 10,389 | 10,290 | 10,290 | 10,117 | 10,117 | 9,708 | 9,708 |
| 0°F | 11,255 | 11,255 | 11,150 | 11,150 | 10,964 | 10,964 | 10,513 | 10,513 |
| 6°F | 11,874 | 11,874 | 11,762 | 11,762 | 11,564 | 11,564 | 11,088 | 11,088 |
| 10°F | 12,369 | 12,369 | 12,251 | 12,251 | 12,047 | 12,047 | 11,552 | 11,552 |
| 16°F | 12,740 | 12,740 | 12,623 | 12,623 | 12,412 | 12,412 | 11,899 | 11,899 |
| 19°F | 12,994 | 12,994 | 12,864 | 12,864 | 12,653 | 12,653 | 12,128 | 12,128 |
| 24°F | 14,435 | 14,435 | 14,312 | 14,312 | 14,095 | 14,095 | 13,575 | 13,575 |
| 32°F | 16,118 | 16,118 | 15,995 | 15,995 | 15,778 | 15,778 | 15,258 | 15,258 |
| 41°F | 18,043 | 18,043 | 17,919 | 17,919 | 17,709 | 17,709 | 17,183 | 17,183 |
| 43°F | 18,525 | 18,525 | 18,402 | 18,402 | 18,185 | 18,185 | 17,665 | 17,665 |
| 47°F | 20,202 | 20,202 | 19,998 | 19,998 | 19,652 | 19,652 | 18,798 | 18,798 |
| 53°F | 20,406 | 20,406 | 20,196 | 20,196 | 19,843 | 19,843 | 18,983 | 18,983 |
| 59°F | 20,870 | 20,870 | 20,660 | 20,660 | 20,295 | 20,295 | 19,416 | 19,416 |
| 64°F | 21,316 | 21,316 | 21,099 | 21,099 | 20,728 | 20,728 | 19,831 | 19,831 |
| 70°F | 21,718 | 21,718 | 21,495 | 21,495 | 21,124 | 21,124 | 20,208 | 20,208 |
| 75°F | 22,021 | 22,021 | 21,799 | 21,799 | 21,415 | 21,415 | 20,487 | 20,487 |

* Maximum system capacity TC- Total Capacity (BtuH) SHC- Sensible Capacity (BtuH)

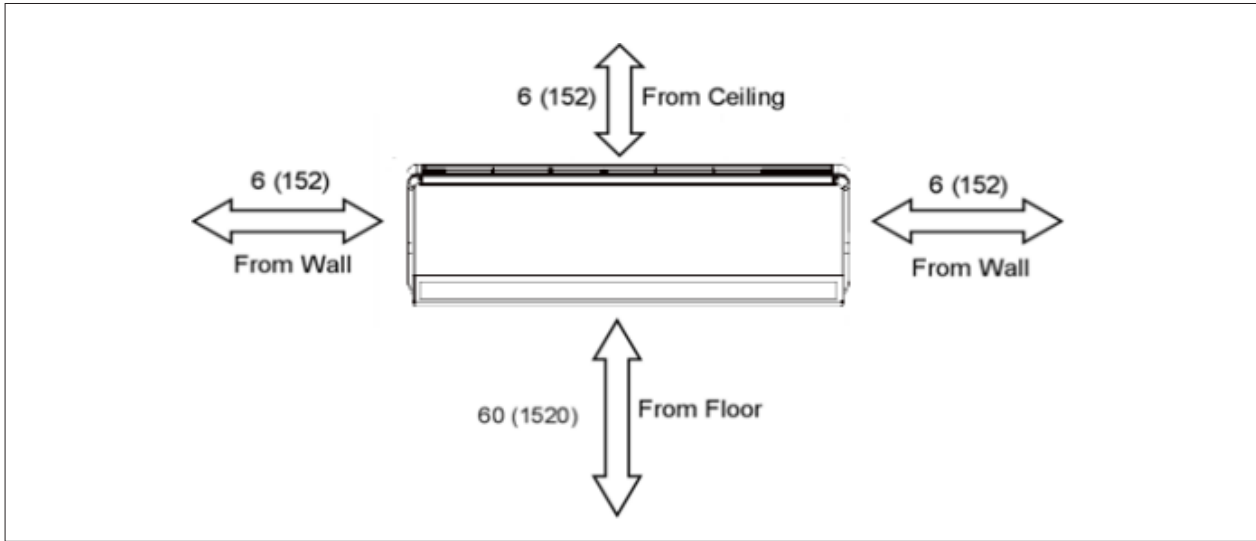


DIMENSIONAL SPECIFICATIONS: TW18HQ2C2D

MINIMUM SPACING REQUIREMENTS

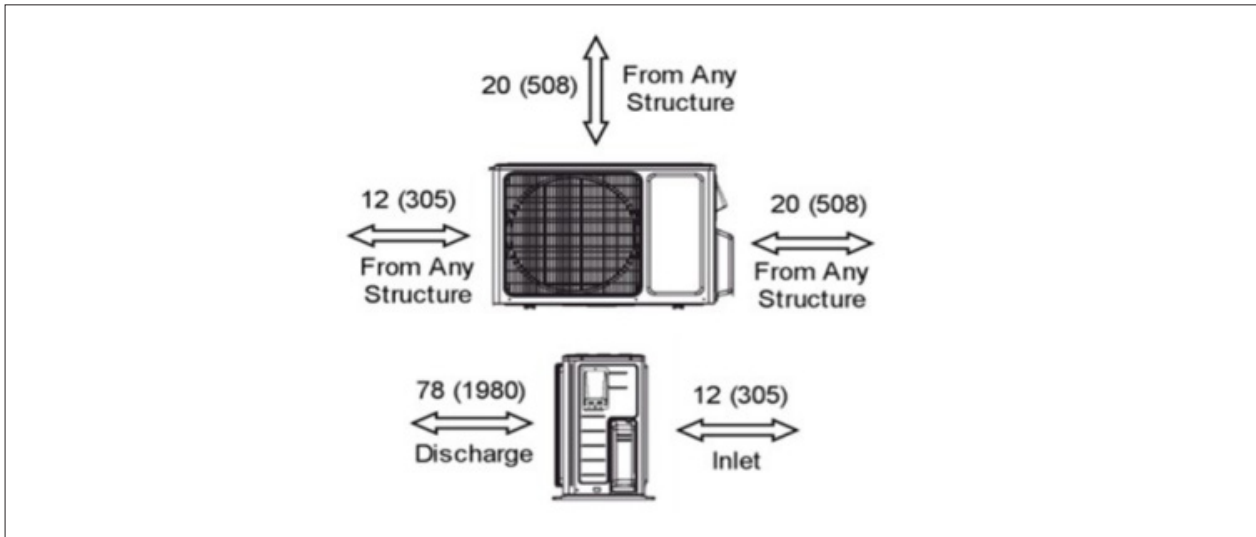
INDOOR

Units: inch (mm)



OUTDOOR

Units: inch (mm)



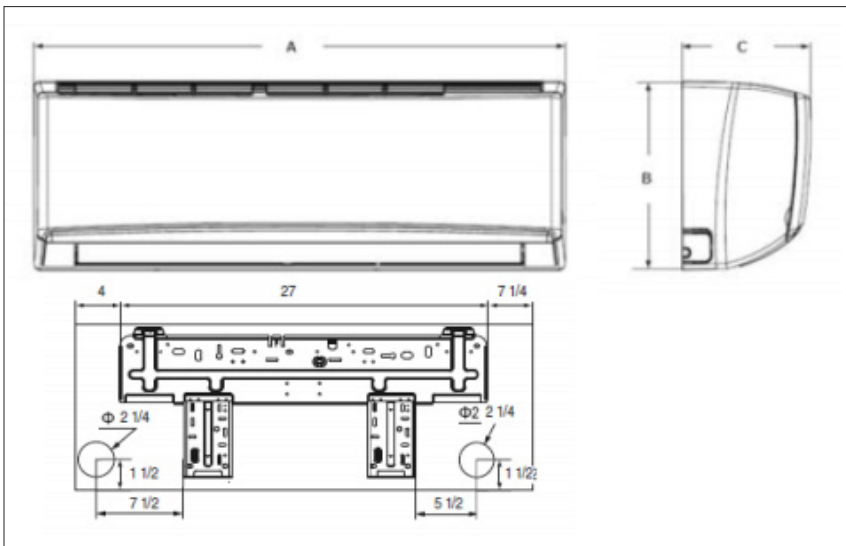
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DIMENSIONAL SPECIFICATIONS: TW18HQ2C2D

INDOOR UNIT DIMENSIONS

Model No:TW18HQ2C2DI

Units: inch



| Dimensions | |
|------------|------|
| A | 38.2 |
| B | 11.8 |
| C | 8.8 |

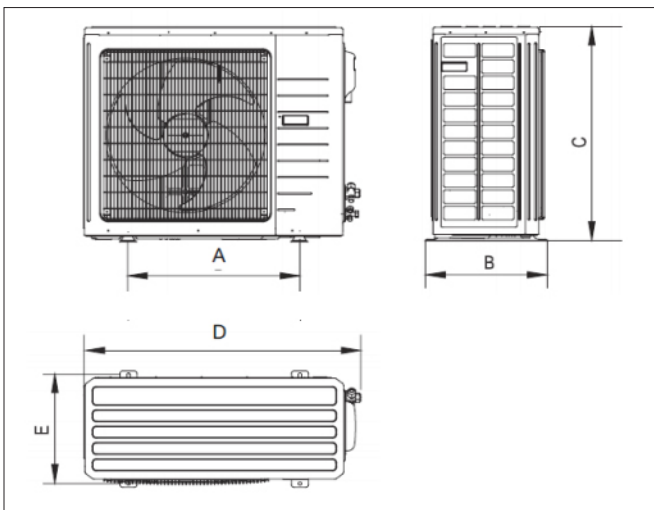
Weight (Net/Gross) 28.7/35.3 lbs

| | |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve | 5/8-in OD Flared |
| Drain Connector | 5/8-in OD |

OUTDOOR UNIT DIMENSIONS

Model No:TW18HQ2C2DO

Units: inch



| Dimensions | |
|------------|------|
| A | 22.0 |
| B | 15.6 |
| C | 27.6 |
| D | 37.6 |
| E | 14.3 |

Weight (Net/Gross) 115.0/125.0 lbs

| | |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve | 5/8-in OD Flared |

Notes:

1. Recommended Interconnecting Cable Type 14 AWG-4 Stranded Copper Conductors Wire.
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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