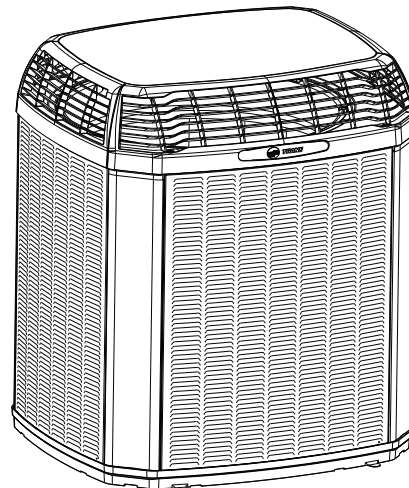


Product Data

American Standard Link or AccuLink™ Variable Speed Heat Pumps

4A6V0X24A1000A
4A6V0X36A1000A
4A6V0X48A1000A
4A6V0X60A1000A



Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From -10° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

American Standard Link or AccuLink™ Heat Pumps

This outdoor unit contains the American Standard Link or AccuLink™ Heat Pumps digital communication with 2 wire connection to outdoor and Plug-n-Play set up.

Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraBase™.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high and low pressure switches. A factory supplied, field installed filter is standard.

Compressor

Inverter driven scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

The 1050/950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.

Product Specifications

HEAT PUMP MODELS

| OUTDOOR UNIT ^{(a) (b)} | 4A6V0X24A1000A | 4A6V0X36A1000A | 4A6V0X48A1000A | 4A6V0X60A1000A |
|--|-------------------|--------------------|--------------------|-------------------|
| POWER CONNS. — V/PH/HZ ^(c) | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 |
| MIN. BRCH. CIR. AMPACITY | 17.0 | 26.0 | 29.0 | 37.0 |
| BR. CIR. PROT. RTG. — MAX. (AMPS) | 25 | 40 | 45 | 50 |
| COMPRESSOR | SCROLL | SCROLL | SCROLL | SCROLL |
| NO. USED — NO. SPEEDS | 1-VARIABLE | 1-VARIABLE | 1-VARIABLE | 1-VARIABLE |
| R.L. AMPS ^(d) — L.R. AMPS | 11.5 — 10.2 | 18.4 — 10.2 | 21.1 — 12.0 | 27.5 — 12.0 |
| FACTORY INSTALLED | | | | |
| START COMPONENTS ^(e) | NA | NA | NA | NA |
| INSULATION/SOUND BLANKET | YES | YES | YES | YES |
| COMPRESSOR HEAT | YES | YES | YES | YES |
| OUTDOOR FAN | | | | |
| DIA. (IN.) — NO. USED | 23 — 1 | 27.5 — 1 | 27.5 — 1 | 27.5 — 1 |
| TYPE DRIVE — NO. SPEEDS | DIRECT — VARIABLE | DIRECT — VARIABLE | DIRECT — VARIABLE | DIRECT — VARIABLE |
| CFM @ 0.0 IN. W.G. ^(f) | 2680 | 3670 | 4517 | 4757 |
| NO. MOTORS — HP | 1 — 1/3 | 1 — 1/3 | 1 — 1/3 | 1 — 1/3 |
| MOTOR SPEED R.P.M. | 200 — 1200 | 200 — 1200 | 200 — 1200 | 200 — 1200 |
| VOLTS/PH/HZ | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 |
| F.L. AMPS | 2.8 | 2.8 | 2.8 | 2.8 |
| OUTDOOR COIL — TYPE | SPINE FIN™ | SPINE FIN™ | SPINE FIN™ | SPINE FIN™ |
| ROWS — F.P.I. | 1 — 24 | 1 — 24 | 1 — 24 | 1 — 24 |
| FACE AREA (SQ. FT.) | 19.77 | 27.87 | 27.87 | 30.80 |
| TUBE SIZE (IN.) | 3/8 | 3/8 | 3/8 | 3/8 |
| REFRIGERANT | R410-A | R410-A | R410-A | R410-A |
| LBS. — R-410A (O.D. UNIT) ^(g) | 7 lb — 6 oz | 9 lb — 15 oz | 11 lb — 5 oz | 13 lb — 2 oz |
| FACTORY SUPPLIED | YES | YES | YES | YES |
| LINE SIZE — IN. O.D. GAS ^(h) | 5/8 | 3/4 | 7/8 | 7/8 |
| LINE SIZE — IN. O.D. LIQ. ^(h) | 3/8 | 3/8 | 3/8 | 3/8 |
| CHARGING SPECIFICATIONS | | | | |
| SUBCOOLING | 10° | 9° | 10° | 10° |
| DIMENSIONS | H X W X D | H X W X D | H X W X D | H X W X D |
| CRATED (IN.) | 46 X 30.1 X 33 | 46.4 X 35.1 X 38.7 | 46.4 X 35.1 X 38.7 | 51 X 35.1 X 38.7 |
| WEIGHT | | | | |
| SHIPPING (LBS.) | 225 | 263 | 275 | 285 |
| NET (LBS.) | 204 | 238 | 250 | 259 |

^(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

^(b) Rated in accordance with AHRI standard 270/275.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

^(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(f) Standard Air — Dry Coil — Outdoor

^(g) This value approximate. For more precise value see unit nameplate.

^(h) Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.

Sound Data

| Model | Mode | Speed | A-Weighted Sound Power Level [dB(A)] | Full Octave Sound Power [dB] | | | | | | | |
|-----------|------|-------|--------------------------------------|------------------------------|--------|--------|--------|---------|---------|---------|---------|
| | | | | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4A6V0X24A | Cool | Min | 54 | 70.9 | 50.3 | 51.8 | 52.3 | 50.4 | 42.0 | 37.7 | 39.9 |
| | Cool | Max | 65 | 76.3 | 65.2 | 62.7 | 64.1 | 60.5 | 55.7 | 49.5 | 45.0 |
| | Heat | Min | 60 | 69.8 | 52.9 | 52.8 | 57.5 | 55.2 | 51.9 | 47.4 | 46.5 |
| | Heat | Max | 69 | 75.9 | 66.0 | 64.7 | 67.3 | 65.6 | 57.0 | 52.2 | 47.7 |
| 4A6V0X36A | Cool | Min | 59 | 69.3 | 56.0 | 54.8 | 54.5 | 56.8 | 46.6 | 38.0 | 39.0 |
| | Cool | Max | 70 | 79.7 | 70.2 | 68.5 | 66.3 | 65.8 | 63.2 | 56.9 | 51.4 |
| | Heat | Min | 60 | 69.8 | 53.0 | 53.8 | 53.9 | 59.5 | 45.3 | 39.1 | 45.3 |
| | Heat | Max | 72 | 84.9 | 70.6 | 73.8 | 70.9 | 66.5 | 62.6 | 58.7 | 53.9 |
| 4A6V0X48A | Cool | Min | 61 | 70.6 | 55.0 | 55.9 | 55.8 | 59.0 | 49.9 | 41.1 | 42.9 |
| | Cool | Max | 74 | 75.7 | 71.9 | 73.0 | 74.2 | 68.5 | 63.4 | 59.1 | 54.3 |
| | Heat | Min | 62 | 72.1 | 59.3 | 58.7 | 60.3 | 58.6 | 51.3 | 46.0 | 45.2 |
| | Heat | Max | 76 | 77.9 | 74.5 | 77.0 | 75.4 | 69.5 | 64.4 | 60.8 | 56.2 |
| 4A6V0X60A | Cool | Min | 57 | 69.7 | 59.5 | 57.6 | 55.1 | 52.0 | 45.0 | 41.6 | 42.3 |
| | Cool | Max | 73 | 83.9 | 73.7 | 73.1 | 71.2 | 67.9 | 64.4 | 58.9 | 51.8 |
| | Heat | Min | 61 | 71.9 | 61.3 | 59.0 | 61.3 | 56.2 | 48.7 | 45.1 | 45.5 |
| | Heat | Max | 74 | 85.8 | 75.7 | 74.4 | 73.2 | 68.5 | 63.6 | 59.6 | 55.9 |

NOTE: Rated in accordance with AHRI Standard 270

| Model | Mode | Speed | Sound Pressure in dBA | | | |
|-----------|------|-------|-----------------------|-------|--------|--------|
| | | | at 3' | at 5' | at 10' | at 15' |
| 4A6V0X24A | Cool | Min | 47 | 42 | 36 | 33 |
| | Cool | Max | 58 | 53 | 47 | 44 |
| | Heat | Min | 53 | 48 | 42 | 39 |
| | Heat | Max | 62 | 57 | 51 | 48 |
| 4A6V0X36A | Cool | Min | 52 | 47 | 41 | 38 |
| | Cool | Max | 63 | 58 | 52 | 49 |
| | Heat | Min | 53 | 48 | 42 | 39 |
| | Heat | Max | 65 | 60 | 54 | 51 |
| 4A6V0X48A | Cool | Min | 54 | 49 | 43 | 40 |
| | Cool | Max | 67 | 62 | 56 | 53 |
| | Heat | Min | 55 | 50 | 44 | 41 |
| | Heat | Max | 69 | 64 | 58 | 55 |
| 4A6V0X60A | Cool | Min | 50 | 45 | 39 | 36 |
| | Cool | Max | 66 | 61 | 55 | 52 |
| | Heat | Min | 54 | 49 | 43 | 40 |
| | Heat | Max | 67 | 62 | 56 | 53 |

NOTE: Rated in accordance with AHRI Standard 275

Optional Accessories:

| Model | 4A6V0X24A | 4A6V0X36A | 4A6V00X48A | 4A6V0X60A |
|------------------------------------|------------|------------|------------|------------|
| Rubber Isolator Kit | BAYISLT101 | BAYISLT101 | BAYISLT101 | BAYISLT101 |
| Snow Leg — Base & Cap 4" High | BAYLEGS002 | BAYLEG2002 | BAYLEGS002 | BAYLEGS002 |
| Snow Leg — 4" Extension | BAYLEGS003 | BAYLEGS003 | BAYLEGS003 | BAYLEGS003 |
| Extreme Condition Mounting Kit | BAYECMT023 | BAYECMT023 | BAYECMT004 | BAYECMT004 |
| Refrigerant Lineset ^(a) | | | | |

^(a) 25, 30, 35, and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the American Standard Quick Reference Guide.

General Data

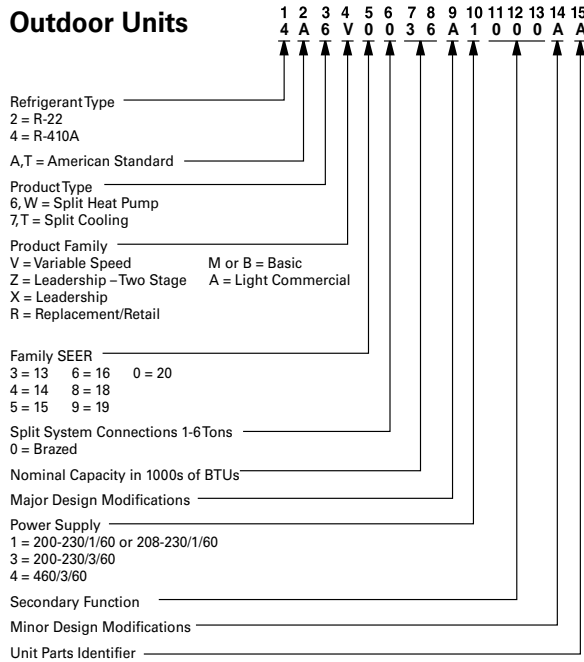
AHRI STANDARD 210/240 RATING CONDITIONS

- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- Rated indoor airflow for heating is the same as for cooling.

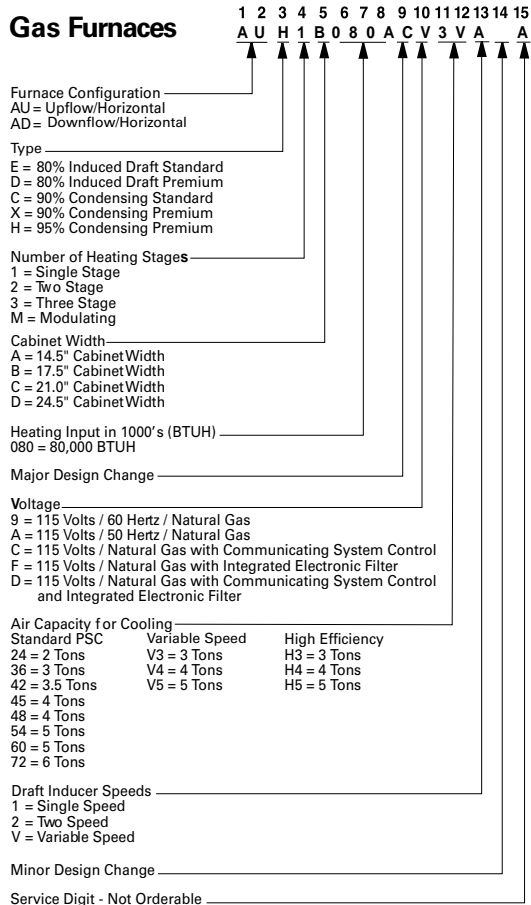
AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation) Standard Noise Rating number is at 95°F outdoor air.

Model Nomenclature

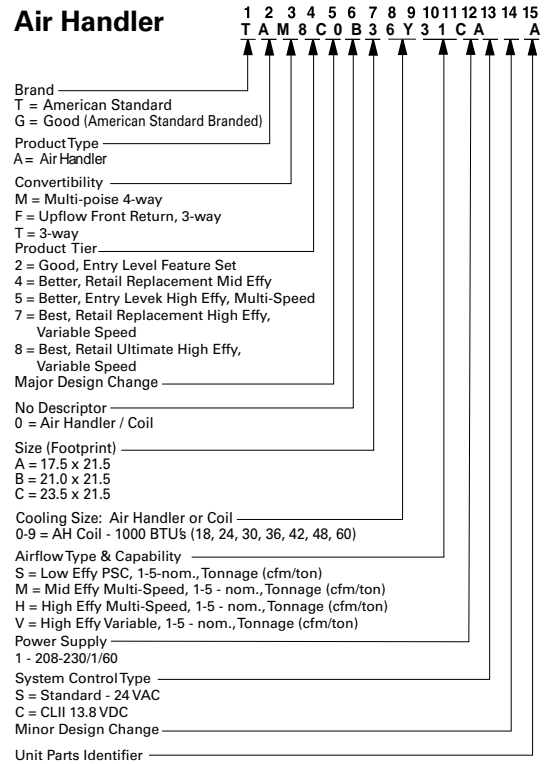
Outdoor Units



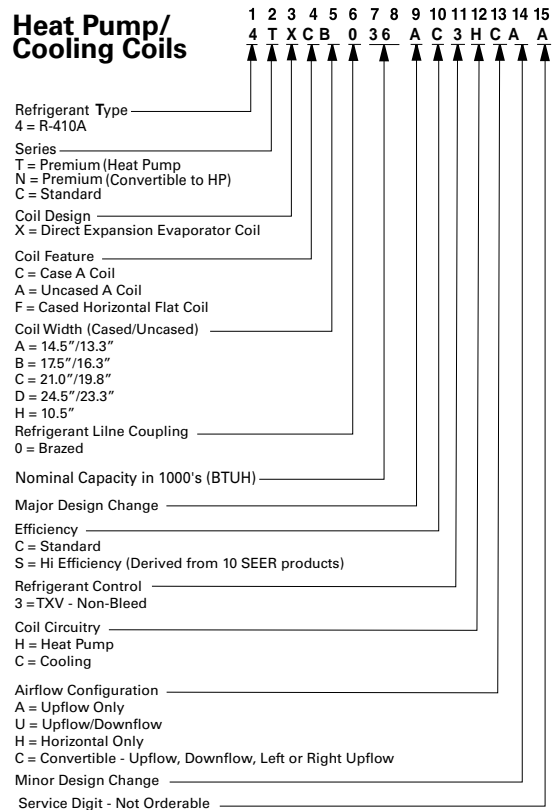
Gas Furnaces



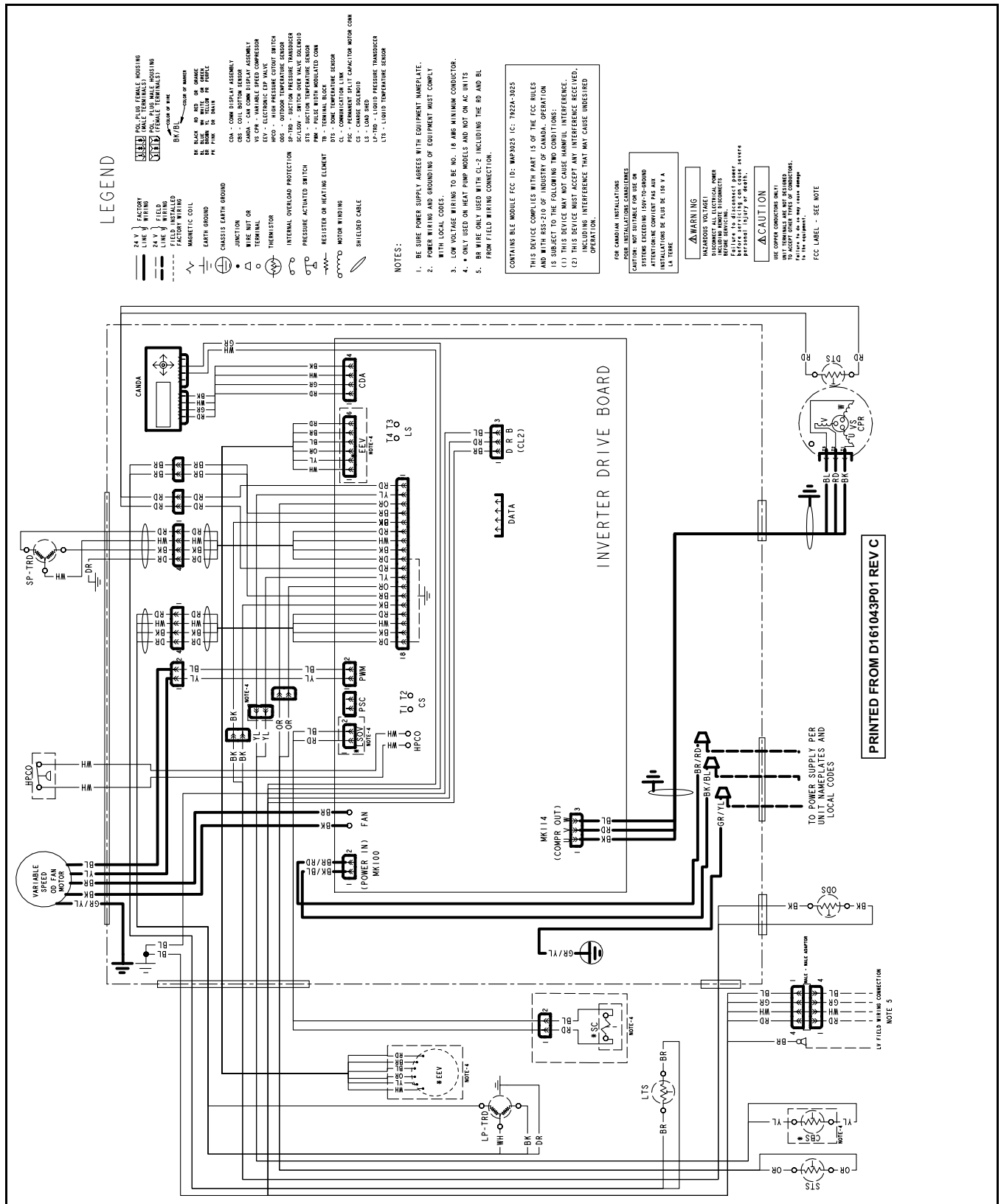
Air Handler



Heat Pump/ Cooling Coils



Wiring



LEGEND

- 24 V FACTORY WIRING (MALE TERMINALS)
- 24 V FIELD WIRING (MALE TERMINALS)
- 24 V FACTORY WIRING (FEMALE TERMINALS)
- 24 V FIELD WIRING (FEMALE TERMINALS)
- MAGNETIC COIL
- EARTH GROUND
- CHASSIS EARTH GROUND
- JUNCTION
- WIRE NUT OR TERMINAL
- THERMISTOR
- INTERNAL OVERLOAD PROTECTION
- PRESSURE ACTIVATED SWITCH
- RESISTOR OR HEATING ELEMENT
- MOTOR WINDING
- SHIELDED CABLE
- 24 V - COOL DISPLAY ASSEMBLY
- CDA - COOL DISPLAY ASSEMBLY
- VC - VARIABLE SPEED COMPRESSOR
- HPFCO - HIGH PRESSURE CUT-OUT SWITCH
- OT - OUTDOOR TEMPERATURE SENSOR
- OSTS - OUTDOOR TEMPERATURE SENSOR
- SC - SENSATION CONTROL VALVE SOLENOID
- STB - SECTION TEMPERATURE SENSOR
- PTM - PRESSURE WITH MODULATED COMMON
- CL - COMMUNICATION LINK
- CS - CAPACITOR MOTOR COMMON
- LS - LOAD SHED
- LP-TRD - LIQUID PRESSURE TRANSDUCER
- LTS - LIQUID TEMPERATURE SENSOR

- NOTES:**
- BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
 - POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
 - LOW VOLTAGE WIRING TO BE NO. 18 AWG MINIMUM CONDUCTOR.
 - ONLY USED ON HEAT PUMP MODELS AND NOT ON AC UNITS.
 - RD WIRE ONLY USED WITH CL-2, INCLUDING THE RD AND BL FROM FIELD WIRING CONNECTION.
- CONTAINS BLE MODULE FCC ID: WMP3025 IC: 7822A-3025
- THIS DEVICE COMPLETES WITH PART 15 OF THE FCC RULES AND WITH RSS-210 OF INDUSTRY OF CANADA. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
- THIS DEVICE MUST NOT CAUSE HARMFUL INTERFERENCE.
 - THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

- FOR CANADIAN INSTALLATIONS**
- CAUTION:** NOT SUITABLE FOR USE ON SYSTEMS WITH 240V/60Hz AND INSTANTANEOUS CURRENT FUSE AND INSTALLATIONS BE FUSE BE 150 V A LA TERRE
- WARNING**
- HAZARDOUS VOLTAGE! DO NOT TOUCH ELECTRICAL PARTS INCLUDING WIRING TERMINALS AND DISCONNECTS. FAILURE TO DISCONNECT POWER TO THE UNIT MAY CAUSE PERSONAL INJURY OR DEATH.
- CAUTION**
- USE CORRECT CONNECTIONS ONLY TO ACCEPT OTHER TYPES OF CONDUCTORS. 18-16 AWG MINIMUM. SEE NOTE
- FCC LABEL - SEE NOTE

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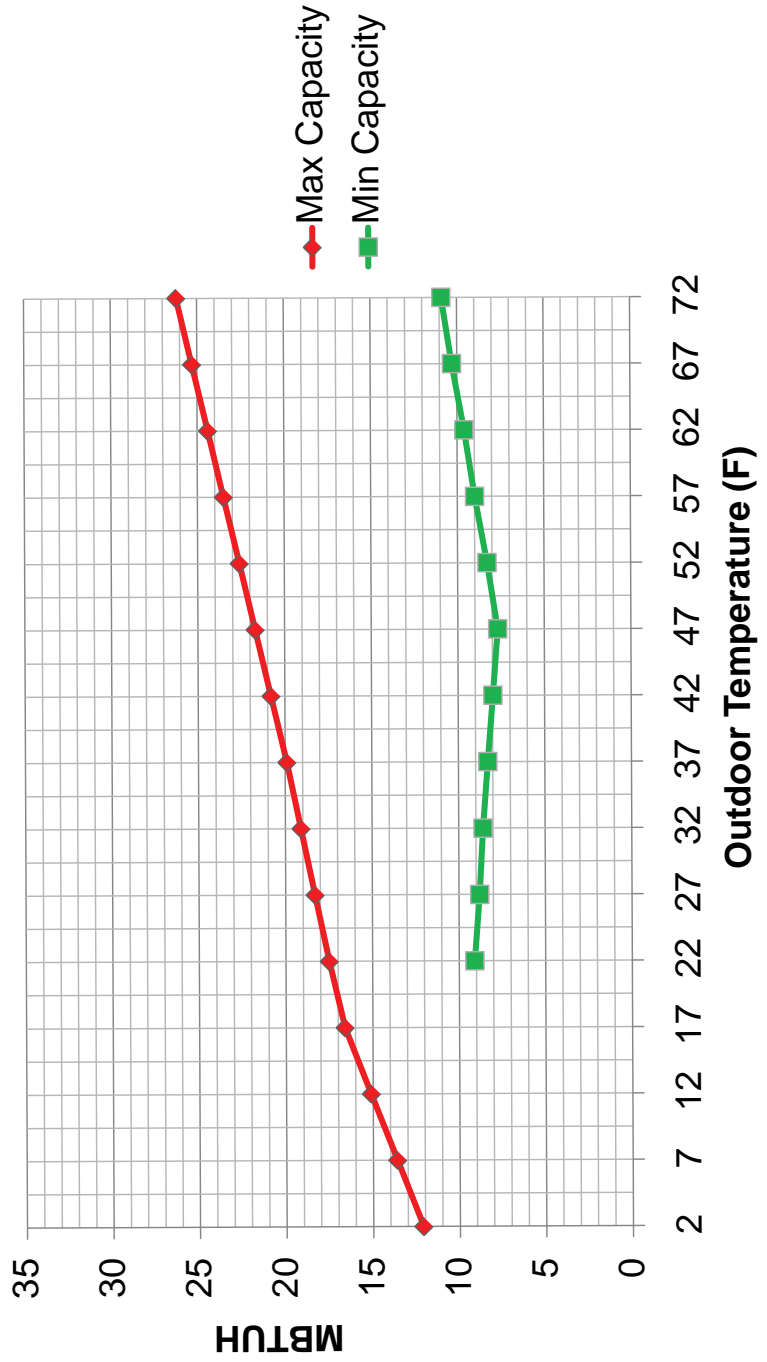
US FIELD WIRING CONNECTION NOTE 5

Based on 70F
Indoor Return Air

2 Ton Heat Capacity

Balance Point Worksheet

4A6V0X24A1

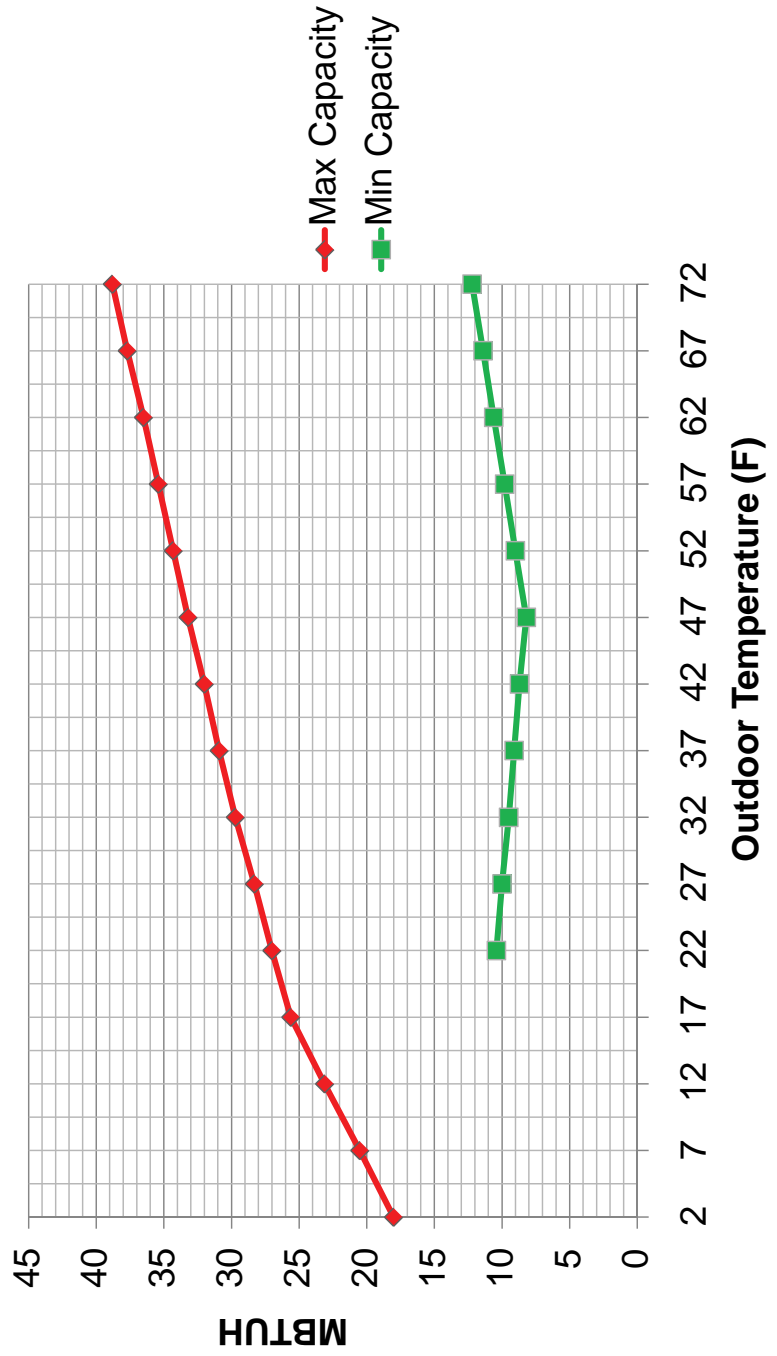


4A6V0X36A1

3 Ton Heat Capacity

Balance Point Worksheet

Based on 70F
Indoor Return Air

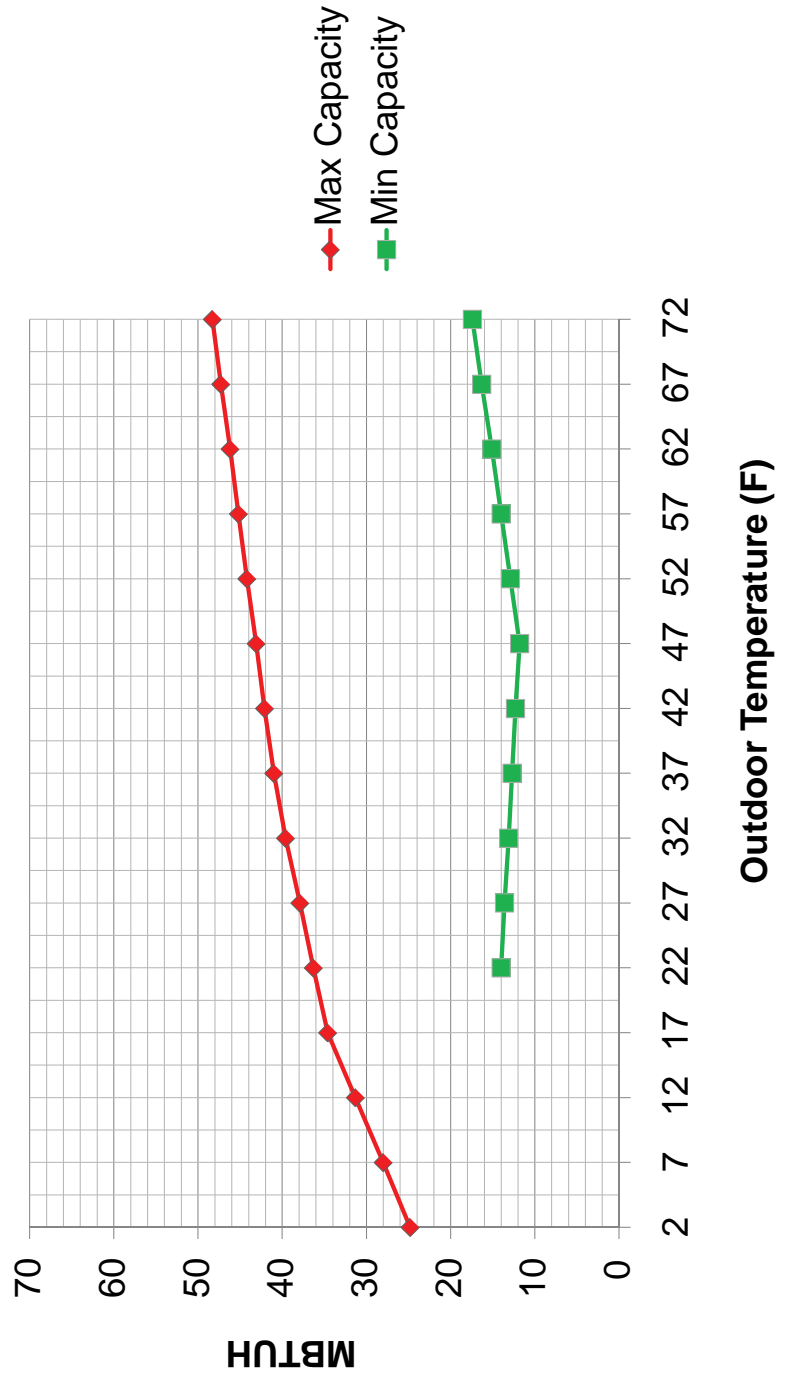


Based on 70F
Indoor Return Air

4 Ton Heat Capacity

Balance Point Worksheet

4A6V0X48A1

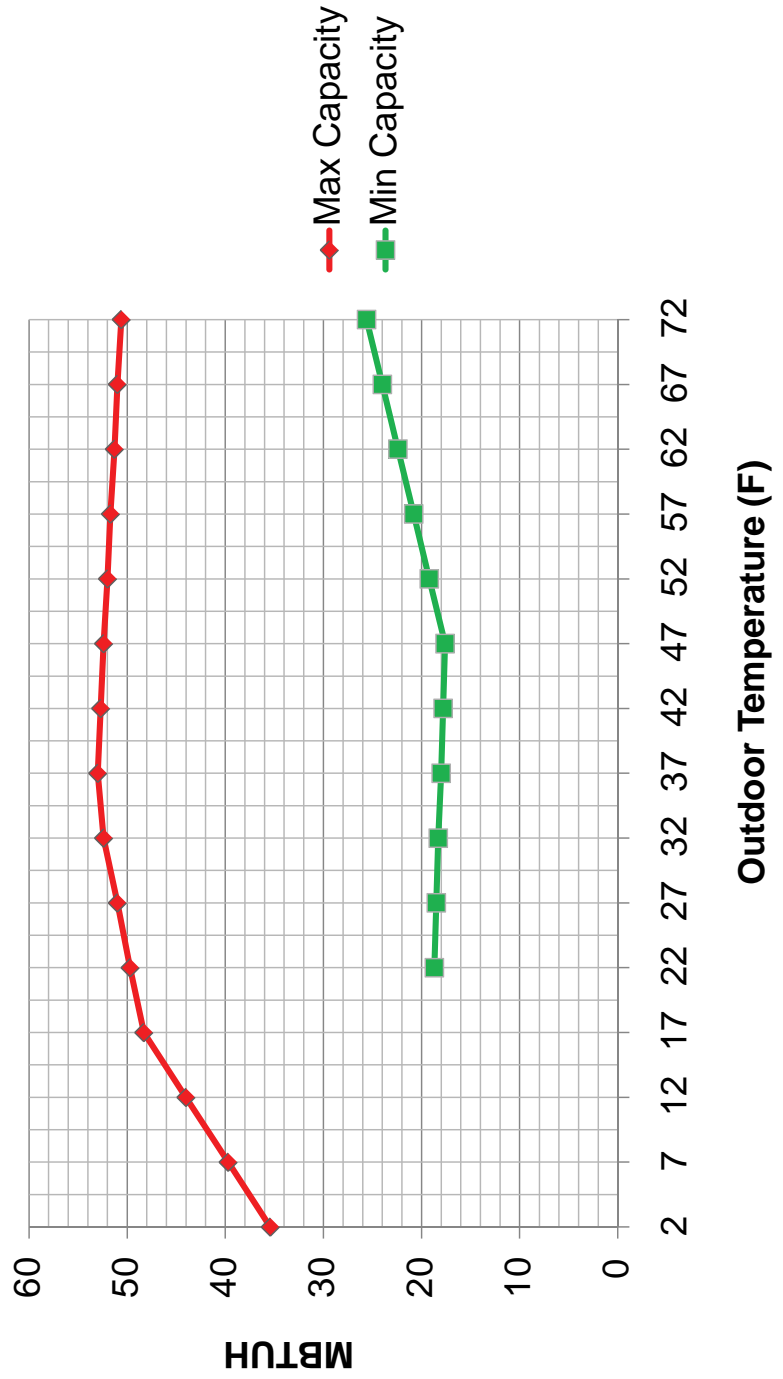


Based on 70F
Indoor Return Air

5 Ton Heat Capacity

Balance Point Worksheet

4A6V0X60A1



American Standard[®]
HEATING & AIR CONDITIONING

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