# **McQuay® Horizontal Concealed Fan Coil Unit** Model THC

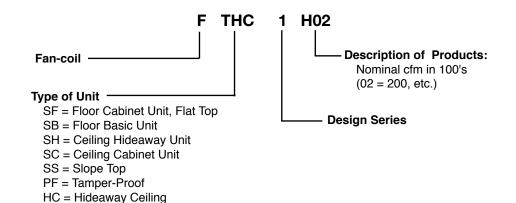








# McQuay® THC Horizontal Concealed Fan Coil Nomenclature



## **Agency Listed**



All standard units
All custom units



### **Table of Contents**

| Nomenciature                     | page 2    | Cooling Capa   |
|----------------------------------|-----------|----------------|
| Introduction                     | page 3    | 1-Row Heatir   |
| Design Features                  | page 3    | General Unit   |
| Parts Description                | page 3    | Dimensional Da |
| Options                          | page 4    | Air Volume Cap |
| Performance Data (2-Pipe System) | pages 5-6 | Motor Data     |
| Cooling Capacity (2-Pipe)        | page 5    | Wiring Diagram |
| Heating Capacity (2-Pipe)        | page 5    | Valve Package  |
| General Unit Data (2-Pipe)       | page 5    | Engineering Gu |

| Cooling Capacity (4-Pipe)        | page 6 |
|----------------------------------|--------|
| 1-Row Heating Capacity (4-Pipe)  |        |
| General Unit Data (4-Pipe)       |        |
| Dimensional Data                 |        |
| Air Volume Capacity Data         |        |
| Motor Data                       |        |
| Wiring Diagrams                  | page 9 |
| Valve Package Wiring diagrams    |        |
| Engineering Guide Specifications |        |

#### Introduction

McQuay® fan coil units have been widely applied in hotels, apartments, dormitories and military barracks, assisted living facilities and offices. McQuay fan coils have earned a reputation for quality - providing years of efficient, reliable, quiet heating and cooling - and easy, low-cost installation and maintenance.

The Model THC horizontal concealed fan coil unit is a compact, lightweight unit that is ideal for installation in ceilings where space is limited. Units are available in seven sizes from 200 to 1,200 cfm.

## **Design Features**

#### **Ultra-Slim Profile**

The highly compact, super lightweight design of the Model THC fan coil unit makes it ideal for inside ceiling installations where space is limited.

#### **High Efficiency Coil**

Unique coil design promotes the mixture of warm and cold air, resulting in high thermal efficiency and lower operating costs.

#### **Quiet Centrifugal Fan Assembly**

High efficiency fan assembly minimizes vibration and noise.

#### **Indoor Air Quality Drain Pan**

The extended, positive slope drain pan is removable and is coated with an epoxy finish for easy cleaning to help prevent microbial growth and to fight corrosion. The drain pan is insulated with a form-fitted closed cell insulation to prevent condensation build-up on the outside of the drain pan.

#### **Insulation Out Of Airstream**

Unit is designed to prevent insulation fibers from entering the airstream for improved indoor air quality.

#### Field Flexible Return Air Plenum

Unit ships standard with rear return plenum, but is easily converted to bottom return without using a conversion kit.

#### **Field Flexible Piping Connections**

Units are easily converted to opposite-hand connection without requiring additional parts or a conversion kit. Units may be ordered with left hand or right hand piping connections.

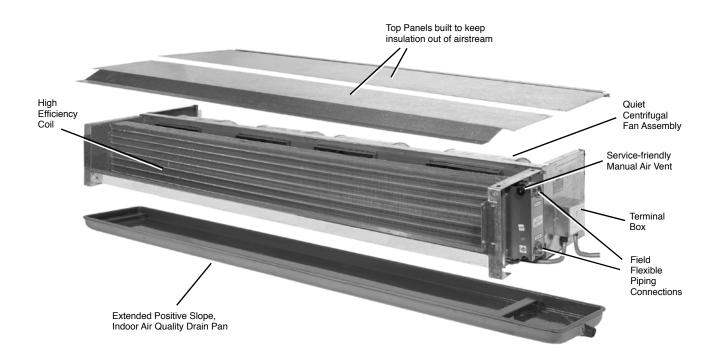
#### **Threaded Or Sweat Connections**

Units ship standard with threaded connection. A threaded adapter is shipped loose with the unit for easy conversion to a sweat connection.

#### Service-Friendly Manual Air Vent

Air vent hand valve is conveniently located over the drain pan and does not require any tools to vent the coil.

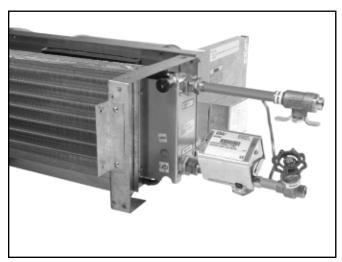
#### **Parts Description**



## **Options**

#### **Valve Packages**

Two-way and three-way electric valves for field installation on units. Basic package includes electric valve with hand valves.



Two-way Valve

#### **Thermostats**

Wall-mounted thermostats for all application requirements are available as either thermostats only or combination thermostat and three-speed switch.



Theromostats with Three-speed Switches





Separate Wall Mounted Thermostat and Three-Speed Switch

## Performance Data - THC Horizontal Concealed (2-Pipe System)

#### ARI Approved Standard Coil Water Cooling Capacity Ratings ①

|      |               | FTHC HORIZONTAL  | CONCEALED UNIT |                  |
|------|---------------|------------------|----------------|------------------|
| UNIT | COOLING (     | CAPACITY(1)      | WATER          | WATER            |
| SIZE | TOTAL<br>Btuh | SENSIBLE<br>Btuh | FLOW<br>GPM    | P.D.<br>FT. W.C. |
| H02  | 8500          | 6100             | 1.94           | 5.10             |
| H03  | 11,100        | 8400             | 2.51           | 3.26             |
| H04  | 14,500        | 10,800           | 3.26           | 5.80             |
| H06  | 21,200        | 16,100           | 4.70           | 12.82            |
| H08  | 22,700        | 18,000           | 5.14           | 3.68             |
| H10  | 25,300        | 20,000           | 5.70           | 4.76             |
| H12  | 34,200        | 27,000           | 7.75           | 8.29             |

#### Standard Coil Water Heating Capacity Ratings @

|      | FTHC HORIZONTAL   | CONCEALED UNIT |                  |
|------|-------------------|----------------|------------------|
| UNIT | HEATING CAPACITY② | WATER          | WATER            |
| SIZE | SENSIBLE<br>BTUH  | FLOW<br>GPM    | P.D.<br>FT. W.C. |
|      | ВІОП              | UFIN           | F1. W.G.         |
| H02  | 14,900            | 1.94           | 5.10             |
| H03  | 20,300            | 2.51           | 3.26             |
| H04  | 26,800            | 3.26           | 5.80             |
| H06  | 37,600            | 4.70           | 12.82            |
| H08  | 42,400            | 5.14           | 3.68             |
| H10  | 48,300            | 5.70           | 4.76             |
| H12  | 68,800            | 7.75           | 8.29             |

Water heating coils at 70°F DB entering air, 140°F entering water, 30°F water temperature drop and high fan speed with standard 115/60/1 motor. For heating coil capacity ratings at conditions other than those listed refer to the RepTools Computer Selection Program or consult your McQuay representative.

#### **General Unit Data**

|                  |     |  |   |              | Unit Size          |              |        |        |  |  |  |  |  |
|------------------|-----|--|---|--------------|--------------------|--------------|--------|--------|--|--|--|--|--|
|                  |     | H02                                    | H03   | H04          | H06                | H08          | H10    | H12    |  |  |  |  |  |
|                  |     |  |   |              | Fan                |              |        |        |  |  |  |  |  |
| Туре             |     |  | Centrifugal Fan (forward-curved galvanized steel fan wheel) |              |                    |              |        |        |  |  |  |  |  |
| Number of Fans   |     | 1                                      | 1   | 2            | 2                  | 3            | 3      | 4      |  |  |  |  |  |
| Fan Housing      |     |  |   |              | Galvanized Steel   |              |        | •      |  |  |  |  |  |
|                  |     |  |   |              | Coil               |              |        |        |  |  |  |  |  |
| Number of Rows   |     |  |   |              | 3-Row              |              |        |        |  |  |  |  |  |
| Туре             |     |  |   | Water - (3-F | Row Chilled Water  | / Hot Water) |        |        |  |  |  |  |  |
| Testing Pressure |     |  | 425 psi for 1 minute; leak test: 225 psi for 5 minutes      |              |                    |              |        |        |  |  |  |  |  |
|                  |     | Motor(s)                               |   |              |                    |              |        |        |  |  |  |  |  |
| Туре             |     | PSC                                    |   |              |                    |              |        |        |  |  |  |  |  |
| Number of Motors |     | 1                                      | 1   | 1            | 1                  | 2            | 2      | 2      |  |  |  |  |  |
| Power Supply     |     | 115/60/1, 208-230/50-60/1, 277/60/1    |   |              |                    |              |        |        |  |  |  |  |  |
|                  |     |  |   |              | Watts - High Speed |              |        |        |  |  |  |  |  |
| 50Hz             |     | 62                                     | 91  | 109          | 171                | 242          | 249    | 321    |  |  |  |  |  |
| 60Hz             |     | 75                                     | 109   | 131          | 205                | 291          | 299    | 385    |  |  |  |  |  |
| Coil Connection  |     | 3/4" FPT                               |   |              |                    |              |        |        |  |  |  |  |  |
| Drain Pipe       |     |  |   |              | 3/4" MPT           |              |        |        |  |  |  |  |  |
|                  |     | Unit with Return Air Plenum and Filter |   |              |                    |              |        |        |  |  |  |  |  |
| Length           | in. | 21.90 21.90                            |   | 21.90        | 21.90              | 21.90        | 21.90  | 21.90  |  |  |  |  |  |
| Width            | in. | 32.05                                  | 38.74   | 43.86        | 51.73              | 61.57        | 65.51  | 75.75  |  |  |  |  |  |
| Height           | in. | 9.88                                   | 9.88  | 9.88         | 9.88               | 9.88         | 9.88   | 9.88   |  |  |  |  |  |
| Ship Weight      | lb. | 61.00                                  | 69.00   | 83.00        | 97.00              | 127.00       | 137.00 | 146.00 |  |  |  |  |  |

#### **Conditions:**

 $<sup>\</sup>textcircled{\textbf{Cooling Capacity:}} \ \textbf{Entering air temp.} \\ \textbf{80°F (DB), 67°F (WB);} \ \textbf{Entering water temp.} \\ \textbf{45°F, Leaving water temp.} \\ \textbf{55°F.} \\ \textbf{10°F} \ \textbf{10°F}$ 

② Heating Capacity: Entering air temp.70°F (DB); Entering water temp.140°F, The same amount of water flow with cooling. Air Flow: Under dry coil conditions, fan speed high. Weight: Includes return air plenum and packing.

## Performance Data - THC Horizontal Concealed (4-Pipe System)

#### ARI Approved Standard Coil Water Cooling Capacity Ratings ①

|      |               | FTHC HORIZONTAL  | CONCEALED UNIT |                  |
|------|---------------|------------------|----------------|------------------|
| UNIT | COOLING (     | CAPACITY(1)      | WATER          | WATER            |
| SIZE | TOTAL<br>Btuh | SENSIBLE<br>Btuh | FLOW<br>GPM    | P.D.<br>FT. W.C. |
| H02  | 8500          | 6100             | 1.94           | 5.10             |
| H03  | 11,100        | 8400             | 2.51           | 3.26             |
| H04  | 14,500        | 10,800           | 3.26           | 5.80             |
| H06  | 21,200        | 16,100           | 4.70           | 12.82            |
| H08  | 22,700        | 18,000           | 5.14           | 3.68             |
| H10  | 25,300        | 20,000           | 5.70           | 4.76             |
| H12  | 34,200        | 27,000           | 7.75           | 8.29             |

#### Standard Coil Water 1-Row Heating Capacity Ratings ②

|      | FTHC HORIZONTAL         | CONCEALED UNIT |                  |
|------|-------------------------|----------------|------------------|
| UNIT | 1-ROW HEATING CAPACITY② | WATER          | WATER            |
| SIZE | SENSIBLE<br>Btuh        | FLOW<br>GPM    | P.D.<br>FT. W.C. |
| H02  | 11,500                  | 0.64           | 1.47             |
| H03  | 16,300                  | 0.91           | 2.89             |
| H04  | 20,400                  | 1.12           | 5.32             |
| H06  | 29,600                  | 1.65           | 10.72            |
| H08  | 36,100                  | 2.00           | 3.24             |
| H10  | 40,300                  | 2.24           | 4.07             |
| H12  | 49,800                  | 2.76           | 6.45             |

Water heating coils at 70°F DB entering air, 180°F entering water, 40°F water temperature drop and high fan speed with standard 115/60/1 motor. For heating coil capacity ratings at conditions other than those listed refer to the RepTools Computer Selection Program or consult your McQuay representative.

#### **General Unit Data**

|   |     |                                     |         |                     | Unit Size          |                    |        |        |  |  |  |  |  |
|---|-----|-------------------------------------|---------|---------------------|--------------------|--------------------|--------|--------|--|--|--|--|--|
|   |     | H02                                 | H03     | H04                 | H06                | Н08                | H10    | H12    |  |  |  |  |  |
|   |     |                                     |         |                     | Fan                |                    |        |        |  |  |  |  |  |
| Type  |     |                                     | Cen     | trifugal Fan (forwa | ard-curved galvan  | ized steel fan whe | eel)   |        |  |  |  |  |  |
| Number of Fans  |     | 1 1 2 2 3 3 4                       |         |                     |                    |                    |        |        |  |  |  |  |  |
| Fan Housing   |     | Galvanized Steel                    |         |                     |                    |                    |        |        |  |  |  |  |  |
|   |     |                                     |         |                     | Coil               |                    |        |        |  |  |  |  |  |
| Number of Rows  |     | 3/1 Split                           |         |                     |                    |                    |        |        |  |  |  |  |  |
| Туре  |     |                                     |         | Water - (3-F        | Row Chilled Water  | ) (1-Row Hot Wat   | er)    |        |  |  |  |  |  |
| Testing Pressure 425 psi for 1 minute; leak test: 225 psi for 5 minutes |     |                                     |         |                     |                    |                    |        |        |  |  |  |  |  |
|   |     |                                     |         |                     | Motor(s)           |                    |        |        |  |  |  |  |  |
| Type  |     |                                     | PSC     |                     |                    |                    |        |        |  |  |  |  |  |
| Number of Motors  |     | 1                                   | 1       | 1                   | 1                  | 2                  | 2      | 2      |  |  |  |  |  |
| Power Supply  |     | 115/60/1, 208-230/50/60/1, 277/60/1 |         |                     |                    |                    |        |        |  |  |  |  |  |
|   |     |                                     |         |                     | Watts - High Speed |                    |        |        |  |  |  |  |  |
| 50Hz  |     | 62                                  | 91      | 109                 | 171                | 242                | 249    | 321    |  |  |  |  |  |
| 60Hz  |     | 75                                  | 109     | 131                 | 205                | 291                | 299    | 385    |  |  |  |  |  |
| Coil Connection   |     |                                     |         |                     | 3/4" FPT           |                    |        |        |  |  |  |  |  |
| Drain Pipe  |     |                                     |         |                     | 3/4" MPT           |                    |        |        |  |  |  |  |  |
|   |     |                                     |         | Unit with           | Return Air Plenum  | and Filter         |        |        |  |  |  |  |  |
| Length  | in. | 21.90                               | 21.90   | 21.90               | 21.90              | 21.90              | 21.90  | 21.90  |  |  |  |  |  |
| Width   | in. | 32.05                               | 5 38.74 |                     | 51.73              | 61.57              | 65.51  | 75.75  |  |  |  |  |  |
| Height  | in. | 9.88                                | 9.88    | 9.88                | 9.88               | 9.88               | 9.88   | 9.88   |  |  |  |  |  |
| Ship Weight   | lb. | 63.00                               | 73.00   | 88.00               | 102.00             | 134.00             | 143.00 | 153.00 |  |  |  |  |  |

#### **Conditions:**

Weight: Includes return air plenum and packing.

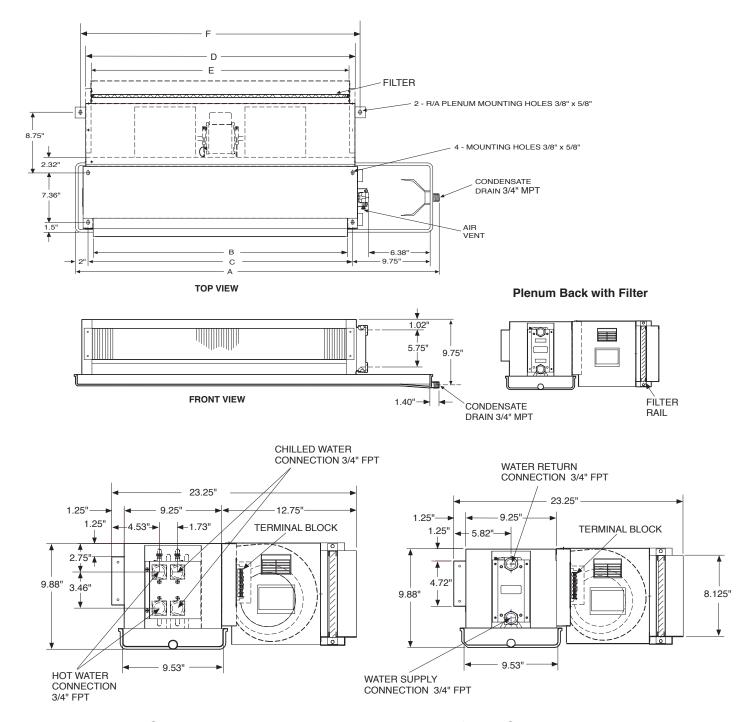
<sup>(1)</sup> Cooling Capacity: Entering air temp.80°F (DB), 67°F (WB); Entering water temp.45°F, Leaving water temp. 55°F.

<sup>2</sup> Heating Capacity: Entering air temp.70°F (DB); Entering water temp.180°F.

Air Flow: Under dry coil conditions, fan speed high.

## **Dimensional Data** — THC Horizontal Concealed, with Plenum Box

|           | _      |        |        |        | _      | Number  | Filters                                    |     |
|-----------|--------|--------|--------|--------|--------|---------|--|-----|
| Unit Size | A      | В      | C      | D      | E      | of Fans | Size                                       | Qty |
| H02       | 32.05" | 17.64" | 19.17" | 19.96" | 18.46" | 1       | 18¹/8" x 8" x 1"                           | 1   |
| H03       | 38.74" | 24.33" | 25.87" | 26.65" | 25.15" | 1       | 24 <sup>7</sup> / <sub>8</sub> " x 8" x 1" | 1   |
| H04       | 43.86" | 29.45" | 30.98" | 31.77" | 30.20" | 2       | 29 <sup>7</sup> / <sub>8</sub> " x 8" x 1" | 1   |
| H06       | 51.73" | 37.32" | 38.86" | 39.65" | 38.07" | 2       | 18 <sup>7</sup> / <sub>8</sub> " x 8" x 1" | 2   |
| H08       | 61.57" | 47.17" | 48.70" | 49.49" | 47.91" | 3       | 23 <sup>3</sup> / <sub>4</sub> " x 8" x 1" | 2   |
| H10       | 65.51" | 51.10" | 52.64" | 53.43" | 51.85" | 3       | 25 <sup>3</sup> / <sub>4</sub> " x 8" x 1" | 2   |
| H12       | 75.75" | 61.34" | 62.87" | 63.66" | 62.09" | 4       | 30 <sup>7</sup> / <sub>8</sub> " x 8" x 1" | 2   |



**4-Pipe System - Right Hand Unit\***\*Factory supplied left hand units also available

2-Pipe System - Right Hand Unit\*

## **Air Volume Capacity Data**

Air volume versus external static pressure

|       |              |      |                             |          |          |       |      |       |        |         | Fan      | Motor S  | peed |       |      |  |      |      |      |      |      |      |
|-------|--------------|------|-----------------------------|----------|----------|-------|------|-------|--------|---------|----------|----------|------|-------|------|--|------|------|------|------|------|------|
|       |              |      |                             |          | High     |       |      |       | Medium |         |          |          |      |       |      | Low                                      |      |      |      |      |      |      |
|       | Unit Size    | Exte | rnal Sta                    | tic Pres | ssure (I | NCHES | OF W | ATER) | Exter  | nal Sta | tic Pres | sure (IN | CHES | OF WA | TER) | External Static Pressure (INCHES OF WATE |      |      |      |      | TER) |      |
|       |              | .00  | .00 .05 .10 .15 .20 .25 .30 |          |          |       |      |       | .00    | .05     | .10      | .15      | .20  | .25   | .30  | .00                                      | .05  | .10  | .15  | .20  | .25  | .30  |
| H02   | Air Flow cfm | 311  | 288                         | 270      | 255      | 236   | 224  | 207   | 231    | 211     | 195      | 178      | 164  | 152   | 134  | 181                                      | 157  | 139  | 125  | 111  | 94   | 87   |
| HUZ   | RPM          | 1043 | 1138                        | 1172     | 1194     | 1240  | 1262 | 1291  | 869    | 879     | 966      | 1012     | 1051 | 1108  | 1119 | 704                                      | 773  | 826  | 887  | 965  | 1032 | 1091 |
| Н03   | Air Flow cfm | 423  | 398                         | 383      | 366      | 343   | 326  | 308   | 298    | 277     | 262      | 244      | 229  | 213   | 197  | 235                                      | 218  | 200  | 184  | 165  | 148  | 133  |
| поз   | RPM          | 1143 | 1172                        | 1202     | 1226     | 1255  | 1282 | 1313  | 838    | 890     | 945      | 992      | 1043 | 1097  | 1144 | 714                                      | 756  | 833  | 886  | 953  | 1023 | 1081 |
| H04   | Air Flow cfm | 507  | 472                         | 444      | 416      | 386   | 359  | 326   | 340    | 298     | 267      | 239      | 209  | 181   | 153  | 274                                      | 234  | 197  | 170  | 143  | 111  | 83   |
| П04   | RPM          | 1122 | 1165                        | 1201     | 1221     | 1258  | 1285 | 1314  | 788    | 851     | 903      | 964      | 1043 | 1093  | 1156 | 678                                      | 737  | 811  | 891  | 957  | 1028 | 1091 |
| H06   | Air Flow cfm | 798  | 770                         | 742      | 714      | 688   | 654  | 627   | 578    | 549     | 534      | 508      | 483  | 456   | 432  | 518                                      | 497  | 471  | 444  | 425  | 406  | 376  |
| ПОО   | RPM          | 1295 | 1311                        | 1333     | 1361     | 1382  | 1399 | 1416  | 990    | 1017    | 1060     | 1102     | 1151 | 1182  | 1230 | 894                                      | 937  | 994  | 1049 | 1086 | 1141 | 1181 |
| Н08   | Air Flow cfm | 949  | 918                         | 874      | 833      | 788   | 747  | 716   | 740    | 703     | 671      | 632      | 594  | 550   | 517  | 662                                      | 632  | 601  | 554  | 521  | 490  | 449  |
| поо   | RPM          | 1172 | 1192                        | 1221     | 1259     | 1286  | 1320 | 1341  | 931    | 1003    | 1027     | 1072     | 1124 | 1167  | 1219 | 892                                      | 935  | 956  | 1014 | 1070 | 1121 | 1174 |
| H10   | Air Flow cfm | 1032 | 981                         | 932      | 881      | 836   | 712  | 716   | 775    | 723     | 688      | 631      | 582  | 533   | 493  | 697                                      | 643  | 602  | 538  | 496  | 463  | 410  |
| 1 110 | RPM          | 1251 | 1279                        | 1303     | 1331     | 1344  | 1386 | 1412  | 984    | 1037    | 1068     | 1115     | 1169 | 1245  | 1255 | 902                                      | 969  | 1001 | 1062 | 1123 | 1161 | 1204 |
| H12   | Air Flow cfm | 1428 | 1380                        | 1334     | 1287     | 1229  | 1173 | 1114  | 1067   | 1022    | 976      | 927      | 875  | 833   | 781  | 960                                      | 912  | 877  | 826  | 788  | 806  | 705  |
| 1112  | RPM          | 1344 | 1367                        | 1389     | 1408     | 2845  | 2886 | 1462  | 1039   | 1062    | 1106     | 1149     | 1192 | 1235  | 1277 | 958                                      | 1003 | 1043 | 1095 | 1141 | 1178 | 1224 |

Note: Based on 115V operation, and dry coils.

### **Motor Data**

| Fan    |                     | Unit Size |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |
|--------|---------------------|-----------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
| Motor  | ~   NUZ   NUS   NU4 |           |      |      |       |      | H06  |       |      | H08  |       |      | H10  |       |      | H12  |       |      |      |       |      |
| Speed  | Amps                | Watts     | RPM  | Amps | Watts | RPM  | Amps | Watts | RPM  | Amps | Watts | RPM  | Amps | Watts | RPM  | Amps | Watts | RPM  | Amps | Watts | RPM  |
|        | 115/60/1            |           |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |
| High   | 0.7                 | 75        | 1043 | 1.0  | 109   | 1143 | 1.2  | 131   | 1122 | 1.8  | 205   | 1295 | 2.6  | 291   | 1172 | 2.7  | 299   | 1251 | 3.5  | 385   | 1344 |
| Medium | 0.6                 | 61        | 869  | 0.7  | 73    | 838  | 0.9  | 93    | 788  | 1.4  | 155   | 990  | 2.0  | 229   | 931  | 2.0  | 225   | 984  | 2.7  | 305   | 1039 |
| Low    | 0.5                 | 53        | 704  | 0.6  | 63    | 714  | 0.8  | 83    | 678  | 1.3  | 145   | 894  | 1.9  | 211   | 892  | 1.9  | 211   | 902  | 2.5  | 279   | 958  |

Note: Based on 115V operation, dry coil, and 0.0 ESP.

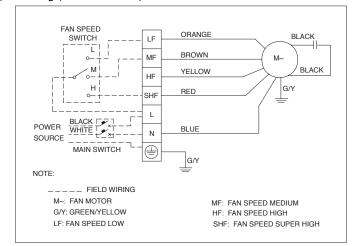
## **Wiring Diagrams**

For Models: THCH02, THCH03, THCH04, and THCH06

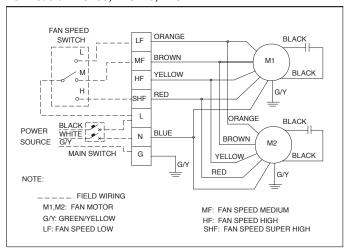
Wiring (115V/1P/60Hz)(208-230V/1P/60Hz)(265/277V/1P/60Hz)

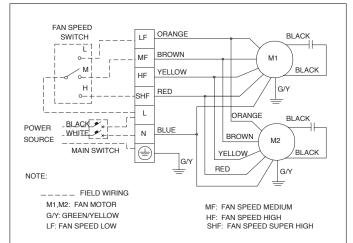
#### ORANGE BLACK SWITCH LF BROWN ME BLACK YELLOW HF G/Y SHF L POWER BLACK FOR SOURCE GIY BLUE Ν MAIN SWITCH G G/Y NOTE: \_ FIELD WIRING M~: FAN MOTOR MF: FAN SPEED MEDIUM G/Y: GREEN/YELLOW HE: FAN SPEED HIGH SHF: FAN SPEED SUPER HIGH LF: FAN SPEED LOW

#### Wiring (220V/1P/50Hz)



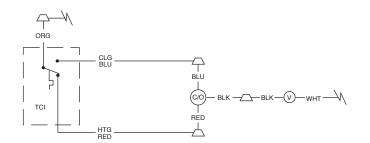
#### For Models: THCH08, THCH10, THCH12



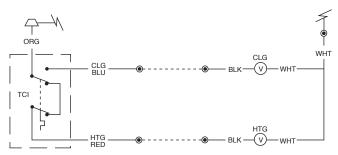


#### **Valve Package Wiring Diagrams**

## Control Wiring Schematic - Heating/Cooling 2-Pipe With Automatic Changeover



## Control Wiring Schematic - Heating/Cooling 4-Pipe With Sequencing Thermostat





# McQuay THC Horizonal Concealed Fan Coil Engineering Guide Specifications

Furnish and install where shown on the plans and specifications, McQuay THC Horizontal Concealed Fan-Coil Units. Types, sizes and performance shall be as tabulated in the schedule. Unit performance shall be substantiated by computer generated output data. Each unit shall be ARI certified and consist of and comply with the following:

#### Construction

**General** – Basic unit shall consist of a base casing and return air plenum fabricated of heavy gauge galvanized steel with four-sided one inch duct collar for an easy connections to discharge duct work. Return air plenum shall have filter frame with 3/4" return air duct collar that can be interchanged for back or bottom return air. Plenum shall be fully insulated with foil faced, thermal and acoustical insulation to prevent glass fibers in the air stream, unit sweating, and to attenuate fan noise.

**Electrical** – Unit shall be furnished with a single point power location, terminal strip and junction box for motor and other electrical terminations.

**Coils** – Coils shall have aluminum fins with copper tubes mechanically expanded for a permanent bond. Coils shall have a Brass Header with 3/4" FPT connections. Two (2) 3/4" MPT x 1/2" copper male adapters shall be provided by the manufacturer for sweat connection to copper pipe. Coils are tested at 425 psi. for one minute and 225 psi for five minutes. Water coils shall have a hand operated, manual air vent requiring no tools for the venting operation. Coil performance shall be as tabulated in the schedule.

Fan Assembly – Unit fan(s) shall be dynamically balanced, forward curved, double width, double inlet scroll centrifugal type constructed of galvanized steel for corrosion resistance. Motors shall have (115/60/1) (208-230/60/1) (265/60/1) three-speed, permanently lubricated sleeve bearing; permanent split capacitor with UL listed automatic reset thermal overload.

**Drain Pan** – Shall be removable, cleanable, constructed of epoxy coated heavy gauge galvanized steel and externally insulated with 1/8" closed cell insulation.

**Insulation** – Hideaway return air plenum shall be fully insulated with foil faced, thermal and acoustical insulation to prevent glass fibers in the air stream, unit sweating, and to attenuate fan noise.

Filters - Standard filter shall be nominal 1" throwaway type.

#### **Optional Accessories**

**Speed Control** – Units shall have a three-speed switch with integral on/off switch suitable for remote mounting and shall provide high/medium/low fan speed control.

Valve Packages – Shall consist of two or three-way, two position motorized valve with hand gate valve on supply and hand ball valve on return piping. Two-way packages shall have standard bypass line for optional changeover aquastat.

**Thermostats** – Wall mounted for all application requirements. Thermostats are available as either thermostat only or combination thermostat and three-speed switch.

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