



## HEATING & AIR CONDITIONING TECHNICAL GUIDE

### LX SERIES

### SPLIT-SYSTEM HEAT PUMPS

14.5 SEER – R-410A – 1 PHASE

1.5 THRU 5 NOMINAL TONS

MODELS: THJF18 THRU 60



Due to continuous product improvement, specifications are subject to change without notice.

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#### WARRANTY SUMMARY\*

Extended 10-Years limited parts warranty.  
Standard 10-Years limited compressor warranty.

**Extended 10-Years limited parts warranty** requires online registration within 90 days of purchase for replacement or closing for new home construction.

\*Does not apply to R-22 models, 3-Phase models, or internet sales.

See Limited Warranty certificate in User's Information Manual for details.

## DESCRIPTION

The 14.5 SEER Series unit is the outdoor part of a versatile climate system. It is designed with a matching indoor coil component from Johnson Controls Unitary Products. Available for typical applications this climate system is supported with accessories and documents to serve specific functions.

## FEATURES

- **Small Footprint** - The compact footprint is a perfect fit for any application.
- **Quality Condenser Coils** - The coil is constructed of copper tubing and enhanced aluminum fins for increased performance.
- **Coil Protection** - Coils are protected from damage by a slotted, stamped steel coil guard.
- **Protected Compressor** - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high and low pressure switches. A factory installed liquid line filter-drier further protects the compressor against moisture and debris. The 5-ton system utilizes a two-stage compressor.
- **Environmentally Friendly Refrigerant** - The next generation refrigerant R-410A delivers environmentally friendly performance with zero ozone depletion.
- **Durable Finish** - The cabinet is made of G90-equivalent pre-painted steel, with special primer formulas and matte titanium texture to insure less fading when exposed to sunlight. The coated steel wire fan guard and pre-treated, galvanized steel chassis components resist corrosion and rust creep.
- **Lower Installed Cost** - Installation time and costs are reduced by easy power and control wiring connections. The unit is factory charged for a 15-foot lineset. The small base dimension means less space is required on the ground or roof.
- **Top Discharge** - Warm air from the top mounted fan is blown up, away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **Quiet Operation** - The compressor sound blanket and the swept wing fan blade keep sound to a minimum. The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the condenser coil muffle the normal fan motor and compressor operating sounds.
- **Low Maintenance** - Long life, permanently lubricated motor-bearings need no annual servicing.
- **Easy Service Access** - Fully exposed refrigerant connections and a single panel covering the electrical controls make for easy servicing of the unit.
- **Secured Service Valves** - Secured, re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **Advanced System Control** - These heat pumps feature a demand-defrost control system to provide optimal comfort and reliable operation over a wide range of conditions.
- **Agency Listed** - Safety certified by CSA to UL 1995 / CSA 22.2. Performance certified to ANSI/AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

## Physical and Electrical Data

| MODEL                                     | THJF18<br>S41S3           | THJF24<br>S41S3 | THJF30<br>S41S3 | THJF36<br>S41S4   | THJF42<br>S41S5 | THJF48<br>S41S5 | THJF60<br>S41S3 |       |
|---|---------------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-------|
| Unit Supply Voltage                       | 208-230V, 1 $\phi$ , 60Hz |                 |                 |                   |                 |                 |                 |       |
| Normal Voltage Range <sup>1</sup>         | 187 to 252                |                 |                 |                   |                 |                 |                 |       |
| Minimum Circuit Ampacity                  | 11.9                      | 17.6            | 17.3            | 19.7              | 23.7            | 28.5            | 35.3            |       |
| Max. Overcurrent Device Amps <sup>2</sup> | 20                        | 30              | 30              | 30                | 40              | 50              | 60              |       |
| Min. Overcurrent Device Amps <sup>3</sup> | 15                        | 20              | 20              | 20                | 25              | 30              | 40              |       |
| Compressor Type                           | Scroll                    | Scroll          | Scroll          | Recip             | Scroll          | Scroll          | 2-Stage Scroll  |       |
| Compressor<br>Amps                        | Rated Load                | 9.0             | 13.4            | 12.8              | 14.7            | 17.9            | 21.8            | 35.3  |
|   | Locked Rotor              | 48.0            | 58.3            | 64.0              | 74.0            | 112.0           | 117.0           | 118.0 |
| Crankcase Heater                          | No                        | No              | No              | Yes               | No              | No              | No              |       |
| Factory External Discharge Muffler        | Yes                       | Yes             | Yes             | Combined<br>DM/CV | Yes             | Yes             | Yes             |       |
| Factory External Check Valve              | No                        | No              | No              |                   | No              | No              | No              |       |
| HS Kit Required with TXV <sup>4</sup>     | No                        | No              | No              | Yes               | No              | No              | No              |       |
| Fan Motor Amps                            | Rated Load                | 24              | 22              | 24                | 24              | 24              | 24              |       |
| Fan Diameter Inches                       |                           | 1/10            | 1/8             | 1/4               | 1/4             | 1/4             | 1/4             |       |
| Fan Motor                                 | Rated HP                  | 0.7             | 0.8             | 1.3               | 1.3             | 1.3             | 1.3             |       |
|   | Nominal RPM               | 825             | 1075            | 850               | 850             | 850             | 850             |       |
|   | Nominal CFM               | 2000            | 2000            | 3900              | 3800            | 3600            | 3500            |       |
| Coil                                      | Face Area Sq. Ft.         | 15.72           | 19.17           | 23.58             | 23.58           | 23.58           | 23.58           |       |
|   | Rows Deep                 | 1               | 1               | 1                 | 1               | 1               | 2               |       |
|   | Fins / Inch               | 22              | 22              | 22                | 22              | 22              | 18              |       |
| Liquid Line Set OD (Field Installed)      | 3/8                       | 3/8             | 3/8             | 3/8               | 3/8             | 3/8             | 3/8             |       |
| Vapor Line Set OD (Field Installed)       | 3/4                       | 3/4             | 3/4             | 3/4               | 7/8             | 7/8             | 1-1/8           |       |
| Unit Charge (Lbs. - Oz.) <sup>5</sup>     | 6 - 15                    | 7 - 14          | 9 - 14          | 10 - 6            | 11 - 4          | 13 - 1          | 14 - 2          |       |
| Charge Per Foot, Oz.                      | 0.62                      | 0.62            | 0.62            | 0.62              | 0.67            | 0.67            | 0.75            |       |
| Operating Weight Lbs.                     | 145                       | 145             | 176             | 193               | 198             | 248             | 290             |       |

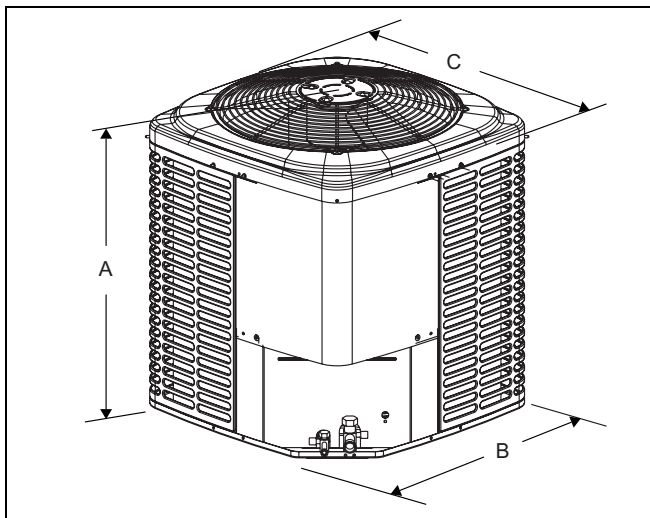
1. Rated in accordance with AHRI Standard 110-2012, utilization range "A".

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

4. See Hard Start Kit Accessory Installation Manual for Hard Start Kit part number for each model.

5. The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



| Unit Model | Dimensions (Inches) |        |        | Refrigerant Connection Service Valve Size |       |
|------------|---------------------|--------|--------|---|-------|
|            | A                   | B      | C      | Liquid                                    | Vapor |
| 18         | 28-1/4              | 34     | 34     | 3/8                                       | 3/4   |
| 24         | 40-1/4              | 29-1/2 | 29-1/2 |   |       |
| 30         | 40-1/4              | 34     | 34     |   |       |
| 36         | 40-1/4              | 34     | 34     |   | 7/8   |
| 42         | 40-1/4              | 34     | 34     |   |       |
| 48         | 40-1/4              | 34     | 34     |   |       |
| 60         | 40-1/4              | 34     | 34     | 7/8 *                                     |       |

\* Adapter Fitting Required for 1-1/8" Liline set.

All dimensions are in inches and are subject to change without notice.

Overall height is from bottom of base pan to top of fan guard.

Overall length and width include screw heads.

| System Charge for Various Matched Systems |                       |                 |                |                 |                |             |             |
|---|-----------------------|-----------------|----------------|-----------------|----------------|-------------|-------------|
| Outdoor Unit                              | THJF18S41S3           | THJF24S41S3     | THJF30S41S3    | THJF36S41S4     | THJF42S41S5    | THJF48S41S5 | THJF60S41S3 |
| Required Orifice or TXV <sup>1,2</sup>    | .051/4F1              | .059/4G1        | .063/4G1       | .071/4H1        | .075/4J1       | 4K1         | 4K1         |
| Indoor Unit <sup>3,4,5</sup>              | Additional Charge, Oz |                 |                |                 |                |             |             |
| AHE24B                                    | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| AHE30B                                    | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| AHE36C                                    | –                     | –               | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| AHE42D                                    | –                     | –               | –              | .071 / TXV + 5  | –              | –           | –           |
| AHE48D                                    | –                     | –               | –              | .071 / TXV + 25 | .075 / TXV + 0 | TXV + 0     | –           |
| AHE60D                                    | –                     | –               | –              | –               | TXV + 8        | TXV + 10    | TXV + 0     |
| AHR24B                                    | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| AHR36B                                    | –                     | –               | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| AHR42C                                    | –                     | –               | –              | .071 / TXV + 5  | –              | –           | –           |
| AHR48D                                    | –                     | –               | –              | –               | .075 / TXV + 0 | TXV + 0     | –           |
| AHR60D                                    | –                     | –               | –              | –               | –              | –           | –           |
| AHV24B                                    | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| AHV30B                                    | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| AHV36C                                    | .051 / TXV + 13       | .059 / TXV + 12 | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| AHV42D                                    | –                     | –               | –              | .071 / TXV + 11 | –              | –           | –           |
| AHV48D                                    | –                     | –               | –              | .071 / TXV + 31 | .075 / TXV + 0 | TXV + 0     | –           |
| AHV60D                                    | –                     | –               | –              | –               | TXV + 8        | TXV + 10    | TXV + 0     |
| AV*36                                     | .051 / TXV + 13       | .059 / TXV + 12 | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| AV*48                                     | –                     | –               | –              | .071 / TXV + 25 | –              | –           | –           |
| FC/MC/PC32                                | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| FC/MC/PC35                                | .051 / TXV + 0        | .059 / TXV + 0  | –              | –               | –              | –           | –           |
| FC/MC/PC37                                | .051 / TXV + 13       | .059 / TXV + 12 | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| FC/MC/PC43                                | .051 / TXV + 13       | .059 / TXV + 12 | .063 / TXV + 0 | .071 / TXV + 0  | –              | –           | –           |
| FC/MC/PC48                                | –                     | –               | –              | .071 / TXV + 5  | –              | –           | –           |
| FC/MC/PC60                                | –                     | –               | –              | .071 / TXV + 25 | .075 / TXV + 0 | TXV + 0     | –           |
| FC/MC62                                   | –                     | –               | –              | –               | TXV + 8        | TXV + 10    | TXV + 0     |
| FC64                                      | –                     | –               | –              | –               | –              | TXV + 29    | TXV + 8     |
| UC48                                      | –                     | –               | –              | .071 / TXV + 23 | –              | –           | –           |
| UC60                                      | –                     | –               | –              | .071 / TXV + 38 | .075 / TXV + 4 | –           | –           |

Some of the combinations shown in the above System Charge table require Advanced Main Air Circulating Fan indoor product. For approved coil only matches, please see the "COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils" table.

#### FOOTNOTES:

1. For applications requiring a TXV use S1-1TVM\*\*\* series kit.
2. Approved orifice(s) shipped with outdoor unit.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower Time Delay Kit S1-2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.
5. Refer to Cooling and Heating Performance Data tables for actual performance for specified system matches.

#### PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the outdoor unit, the smallest matched indoor unit, and 15 feet of interconnecting line tubing.
2. Verify the TXV or orifice and additional charge required for specific matched indoor unit in the system using the above table.
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For indoor matches requiring additional charge, the refrigerant needs to be weighed in for specific matched indoor unit and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + charge adder for matched indoor unit + charge adder for line set.

**COOLING CAPACITY - With Air Handler Coils**

| UNIT MODEL                            | AIR HANDLER |          | COIL <sup>1</sup> MODEL | COOLING   |         |       |       |       |
|---------------------------------------|-------------|----------|-------------------------|-----------|---------|-------|-------|-------|
|                                       | MODEL       | WIDTH    |                         | RATED CFM | NET MBH |       | SEER  | EER   |
|                                       |             |          |                         |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |             |          |                         |           |         |       |       |       |
| THJF18S41S3                           | AHE24B      | 17.5     | –                       | 585       | 18.0    | 13.3  | 14.50 | 12.00 |
|                                       | AHE30B      | 17.5     | –                       | 660       | 18.0    | 13.1  | 15.00 | 12.50 |
|                                       | AHR24B      | 17.5     | –                       | 675       | 18.0    | 13.1  | 13.00 | 11.00 |
|                                       | AHV24B      | 17.5     | –                       | 580       | 18.0    | 13.4  | 14.50 | 12.50 |
|                                       | AHV30B      | 17.5     | –                       | 700       | 18.0    | 14.6  | 14.50 | 12.50 |
|                                       | AHV36C      | 21.0     | –                       | 670       | 18.0    | 14.5  | 15.00 | 12.50 |
|                                       | AV*36       | 21.0     | –                       | 630       | 18.0    | 13.3  | 15.00 | 12.50 |
|                                       | MV12B       | 17.5     | FC/MC35B                | 600       | 18.0    | 13.0  | 15.00 | 12.50 |
|                                       | MV12B       | 17.5     | FC/MC43B                | 600       | 18.0    | 13.3  | 15.00 | 12.50 |
|                                       | MX12B       | 17.5     | FC/MC35B                | 660       | 18.0    | 13.8  | 15.00 | 12.50 |
| MX12B                                 | 17.5        | FC/MC43B | 620                     | 18.0      | 13.6    | 15.00 | 12.50 |       |
| THJF24S41S3                           | AHE24B      | 17.5     | –                       | 825       | 23.0    | 17.4  | 15.00 | 12.50 |
|                                       | AHE30B      | 17.5     | –                       | 800       | 23.0    | 17.4  | 15.00 | 12.50 |
|                                       | AHR24B      | 17.5     | –                       | 740       | 22.2    | 16.0  | 13.25 | 11.35 |
|                                       | AHV24B      | 17.5     | –                       | 710       | 22.6    | 16.5  | 14.50 | 12.50 |
|                                       | AHV30B      | 17.5     | –                       | 775       | 22.8    | 17.1  | 14.50 | 12.50 |
|                                       | AHV36C      | 21.0     | –                       | 760       | 23.2    | 17.3  | 15.00 | 12.50 |
|                                       | AV*36       | 21.0     | –                       | 725       | 22.8    | 16.8  | 15.00 | 12.50 |
|                                       | MV12B       | 17.5     | FC/MC35B                | 800       | 22.8    | 17.2  | 15.00 | 12.50 |
|                                       | MV12B       | 17.5     | FC/MC43B                | 800       | 23.4    | 18.0  | 15.00 | 12.50 |
|                                       | MX12B       | 17.5     | FC/MC35B                | 815       | 23.2    | 17.5  | 15.00 | 12.50 |
| MX12B                                 | 17.5        | FC/MC43B | 735                     | 23.0      | 16.9    | 15.00 | 12.50 |       |
| THJF30S41S3                           | AHE36C      | 21.0     | –                       | 1000      | 30.0    | 21.7  | 15.00 | 12.50 |
|                                       | AHR36B      | 17.5     | –                       | 1060      | 28.8    | 22.0  | 13.25 | 11.35 |
|                                       | AHV36C      | 21.0     | –                       | 895       | 28.6    | 26.2  | 15.00 | 12.50 |
|                                       | AV*36       | 21.0     | –                       | 960       | 29.2    | 21.8  | 15.00 | 12.50 |
|                                       | MV12B       | 17.5     | FC/MC43B                | 1000      | 29.0    | 21.6  | 15.00 | 12.50 |
|                                       | MV16C       | 21.0     | FC/MC43C                | 1000      | 29.0    | 21.6  | 15.00 | 12.50 |
|                                       | MX12B       | 17.5     | FC/MC43B                | 1095      | 30.0    | 22.3  | 15.00 | 12.50 |
| MX16C                                 | 21.0        | FC/MC43C | 970                     | 30.0      | 21.5    | 15.00 | 12.50 |       |
| THJF36S41S4                           | AHE36C      | 21.0     | –                       | 1275      | 36.0    | 27.4  | 14.50 | 12.00 |
|                                       | AHE42D      | 24.5     | –                       | 1275      | 36.0    | 26.4  | 15.00 | 12.50 |
|                                       | AHE48D      | 24.5     | –                       | 1195      | 35.8    | 26.6  | 14.50 | 12.00 |
|                                       | AHR36B      | 17.5     | –                       | 1245      | 35.4    | 26.2  | 13.00 | 11.00 |
|                                       | AHR42C      | 21.0     | –                       | 1230      | 35.6    | 26.4  | 13.35 | 11.45 |
|                                       | AHV36C      | 21.0     | –                       | 1215      | 36.0    | 27.6  | 14.00 | 12.00 |
|                                       | AHV42D      | 24.5     | –                       | 1180      | 36.0    | 27.8  | 15.00 | 12.50 |
|                                       | AHV48D      | 24.5     | –                       | 1155      | 36.0    | 27.2  | 15.00 | 12.50 |
|                                       | AV*36       | 21.0     | –                       | 1190      | 35.6    | 26.2  | 14.50 | 12.00 |
|                                       | AV*48       | 24.5     | –                       | 1220      | 36.0    | 27.4  | 14.50 | 12.00 |
|                                       | MV12B       | 17.5     | FC/MC43B                | 1225      | 35.6    | 26.2  | 14.00 | 12.00 |
|                                       | MV12D       | 24.5     | FC/MC48D                | 1160      | 36.0    | 26.6  | 15.00 | 12.50 |
|                                       | MV12D       | 24.5     | FC/MC60D                | 1135      | 36.0    | 26.2  | 14.50 | 12.00 |
|                                       | MV16C       | 21.0     | FC/MC43C                | 1200      | 35.8    | 26.2  | 14.50 | 12.00 |
|                                       | MV16C       | 21.0     | FC/MC48C                | 1200      | 36.0    | 26.4  | 14.50 | 12.00 |
|                                       | MV16C       | 21.0     | FC60C                   | 1200      | 36.0    | 27.0  | 15.00 | 12.50 |
|                                       | MX12B       | 17.5     | FC/MC43B                | 1220      | 35.6    | 26.0  | 14.00 | 12.00 |
|                                       | MX12D       | 24.5     | FC/MC48D                | 1225      | 36.0    | 26.4  | 14.50 | 12.00 |
|                                       | MX12D       | 24.5     | FC/MC60D                | 1275      | 36.0    | 27.8  | 15.00 | 12.50 |
|                                       | MX16C       | 21.0     | FC/MC43C                | 1140      | 35.4    | 25.8  | 14.50 | 12.00 |
| MX16C                                 | 21.0        | FC/MC48C | 1150                    | 36.0      | 26.6    | 15.00 | 12.50 |       |
| MX16C                                 | 21.0        | FC60C    | 1150                    | 36.0      | 26.8    | 15.00 | 12.50 |       |

For notes, see Page 5.

**COOLING CAPACITY - With Air Handler Coils (Continued)**

| UNIT MODEL                            | AIR HANDLER |          | COIL <sup>1</sup> MODEL | COOLING   |         |       |       |       |
|---------------------------------------|-------------|----------|-------------------------|-----------|---------|-------|-------|-------|
|                                       | MODEL       | WIDTH    |                         | RATED CFM | NET MBH |       | SEER  | EER   |
|                                       |             |          |                         |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |             |          |                         |           |         |       |       |       |
| THJF42S41S5                           | AHE48D      | 24.5     | —                       | 1125      | 39.5    | 27.0  | 15.00 | 12.50 |
|                                       | AHE60D      | 24.5     | —                       | 1350      | 39.0    | 28.8  | 14.50 | 12.00 |
|                                       | AHR48D      | 24.5     | —                       | 1320      | 39.5    | 28.4  | 13.25 | 11.35 |
|                                       | AHV48D      | 24.5     | —                       | 1155      | 40.0    | 27.6  | 15.00 | 12.50 |
|                                       | AHV60D      | 24.5     | —                       | 1340      | 39.0    | 28.6  | 14.00 | 12.00 |
|                                       | MV16C       | 21.0     | FC60C                   | 1400      | 41.0    | 30.2  | 14.50 | 12.00 |
|                                       | MV20D       | 24.5     | FC/MC60D                | 1300      | 40.5    | 29.4  | 15.00 | 12.50 |
|                                       | MV20D       | 24.5     | FC/MC62D                | 1400      | 39.0    | 28.6  | 14.00 | 12.00 |
|                                       | MX20D       | 24.5     | FC/MC60D                | 1295      | 41.0    | 29.6  | 15.00 | 12.50 |
| MX20D                                 | 24.5        | FC/MC62D | 1470                    | 40.0      | 30.2    | 14.50 | 12.00 |       |
| THJF48S41S5                           | AHE48D      | 24.5     | —                       | 1295      | 45.5    | 30.8  | 14.00 | 12.00 |
|                                       | AHE60D      | 24.5     | —                       | 1310      | 47.0    | 31.6  | 15.00 | 12.50 |
|                                       | AHR48D      | 24.5     | —                       | 1320      | 44.5    | 30.2  | 13.25 | 11.35 |
|                                       | AHV48D      | 24.5     | —                       | 1300      | 45.5    | 30.8  | 14.50 | 12.50 |
|                                       | AHV60D      | 24.5     | —                       | 1340      | 47.0    | 31.8  | 15.00 | 12.50 |
|                                       | MV16C       | 21.0     | FC60C                   | 1400      | 46.0    | 32.2  | 14.50 | 12.00 |
|                                       | MV20D       | 24.5     | FC/MC60D                | 1400      | 46.0    | 32.2  | 14.50 | 12.00 |
|                                       | MV20D       | 24.5     | FC/MC62D                | 1400      | 47.0    | 31.8  | 15.00 | 12.50 |
|                                       | MV20D       | 24.5     | FC64D                   | 1400      | 48.0    | 33.6  | 15.00 | 12.50 |
|                                       | MX16C       | 21.0     | FC60C                   | 1420      | 46.0    | 32.6  | 15.00 | 12.50 |
|                                       | MX20D       | 24.5     | FC/MC60D                | 1470      | 46.5    | 33.2  | 15.00 | 12.50 |
|                                       | MX20D       | 24.5     | FC/MC62D                | 1470      | 48.0    | 33.6  | 15.00 | 12.50 |
|                                       | MX20D       | 24.5     | FC64D                   | 1470      | 48.0    | 34.6  | 15.00 | 12.50 |

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ANSI/AHRI Standard 210/240.

Cooling MBH based on 80 °F entering air temperature, 50% RH (Relative Humidity), and rated air flow.

EER (Energy Efficiency Ratio) is the total cooling output in BTUs at 95 °F outdoor ambient divided by the total electric power in watt-hours at those conditions.

SEER (Seasonal Energy Efficiency Ratio) is the total cooling output in BTUs during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

— = Not applicable.

MA Modular Air Handlers use Coil Only Ratings.

**COOLING CAPACITY - With Air Handler Coils**

| UNIT MODEL                            | AIR HANDLER |       | COIL MODEL <sup>1</sup> | STAGE | COOLING   |         |       | SEER  | EER   |
|---------------------------------------|-------------|-------|-------------------------|-------|-----------|---------|-------|-------|-------|
|                                       | MODEL       | WIDTH |                         |       | RATED CFM | NET MBH |       |       |       |
|                                       |             |       |                         |       |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |             |       |                         |       |           |         |       |       |       |
| THJF60S41S3                           | AHE60D      | 24.5  | —                       | 1     | 1160      | 46.0    | 29.8  | 15.00 | 12.20 |
|                                       |             |       |                         | 2     | 1835      | 57.0    | 41.0  |       |       |
|                                       | AHV60D      | 24.5  | —                       | 1     | 1090      | 46.5    | 30.8  | 15.00 | 11.75 |
|                                       |             |       |                         | 2     | 1635      | 57.0    | 40.5  |       |       |
|                                       | MV20D       | 24.5  | FC/MC62D                | 1     | 1160      | 48.0    | 31.0  | 15.00 | 12.00 |
|                                       |             |       |                         | 2     | 1855      | 57.0    | 40.5  |       |       |
|                                       | MV20D       | 24.5  | FC64D                   | 1     | 1160      | 50.0    | 32.6  | 15.00 | 12.50 |
|                                       |             |       |                         | 2     | 1855      | 59.0    | 42.5  |       |       |
|                                       | MX20D       | 24.5  | FC/MC62D                | 1     | 1390      | 48.0    | 32.4  | 15.00 | 12.50 |
|                                       |             |       |                         | 2     | 1795      | 57.5    | 41.0  |       |       |
|                                       | MX20D       | 24.5  | FC64D                   | 1     | 1390      | 49.5    | 33.8  | 15.00 | 12.50 |
|                                       |             |       |                         | 2     | 1795      | 58.0    | 42.0  |       |       |

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ANSI/AHRI Standard 210/240.

Cooling MBH based on 80 °F entering air temperature, 50% RH (Relative Humidity), and rated air flow.

EER (Energy Efficiency Ratio) is the total cooling output in BTUs at 95 °F outdoor ambient divided by the total electric power in watt-hours at those conditions.

SEER (Seasonal Energy Efficiency Ratio) is the total cooling output in BTUs during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

— = Not applicable.

MA Modular Air Handlers use Coil Only Ratings.

**COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils (Coil Only Ratings)**

| UNIT MODEL                            | COIL       |            | CFM RANGE<br>(Min.-max.) | STAGE | COOLING      |         |       |                   |       |
|---------------------------------------|------------|------------|--------------------------|-------|--------------|---------|-------|-------------------|-------|
|                                       | MODEL      | WIDTH      |                          |       | RATED<br>CFM | NET MBH |       | SEER <sup>1</sup> | EER   |
|                                       |            |            |                          |       |              | TOTAL   | SENS. |                   |       |
| <b>14.5 SEER HP COIL ONLY RATINGS</b> |            |            |                          |       |              |         |       |                   |       |
| THJF18S41S3                           | FC/MC/PC32 | 14.5       | 450 - 750                | -     | 600          | 18.0    | 12.6  | 13.25             | 11.35 |
|                                       | FC/MC/PC35 | 17.5,21.0  | 450 - 750                | -     | 600          | 18.0    | 12.6  | 13.20             | 11.35 |
|                                       | FC/MC/PC37 | 14.5       | 450 - 750                | -     | 600          | 18.0    | 13.2  | 13.25             | 11.35 |
|                                       | FC/MC/PC43 | 17.5,21.0  | 450 - 750                | -     | 600          | 18.0    | 13.2  | 13.25             | 11.35 |
| THJF24S41S3                           | FC/MC/PC32 | 14.5       | 600 - 1000               | -     | 800          | 22.2    | 16.3  | 13.25             | 11.35 |
|                                       | FC/MC/PC35 | 17.5,21.0  | 600 - 1000               | -     | 800          | 22.4    | 16.3  | 13.20             | 11.35 |
|                                       | FC/MC/PC37 | 14.5       | 600 - 1000               | -     | 800          | 22.4    | 16.6  | 13.25             | 11.35 |
|                                       | FC/MC/PC43 | 17.5,21.0  | 600 - 1000               | -     | 800          | 22.4    | 16.6  | 13.25             | 11.35 |
| THJF30S41S3                           | FC/MC/PC37 | 14.5       | 800 - 1200               | -     | 1000         | 28.6    | 21.6  | 13.25             | 11.35 |
|                                       | FC/MC/PC43 | 17.5,21.0  | 800 - 1200               | -     | 1000         | 28.4    | 21.6  | 13.50             | 11.35 |
| THJF36S41S4                           | FC/MC/PC37 | 14.5       | 1000 - 1400              | -     | 1200         | 35.0    | 25.6  | 13.00             | 11.00 |
|                                       | FC/MC/PC43 | 17.5,21.0  | 1000 - 1400              | -     | 1200         | 35.0    | 25.8  | 13.00             | 11.00 |
|                                       | FC/MC/PC48 | 21.0,24.5  | 1000 - 1400              | -     | 1200         | 35.2    | 25.8  | 13.35             | 11.45 |
|                                       | FC/MC/PC60 | 21.0,24.5  | 1000 - 1400              | -     | 1200         | 35.6    | 26.0  | 13.35             | 11.45 |
|                                       | UC48       | 21.0,24.5  | 1000 - 1400              | -     | 1200         | 35.0    | 26.0  | 13.25             | 11.35 |
|                                       | UC60       | 21.0,24.5  | 1000 - 1400              | -     | 1200         | 35.0    | 25.6  | 13.25             | 11.35 |
| THJF42S41S5                           | FC/MC/PC60 | 21.0,24.5  | 1200 - 1600              | -     | 1200         | 39.0    | 27.0  | 13.25             | 11.35 |
|                                       | FC/MC62    | 24.5       | 1200 - 1600              | -     | 1400         | 38.0    | 27.8  | 13.00             | 11.00 |
| THJF48S41S5                           | FC/MC/PC60 | 21.0, 24.5 | 1400 - 1800              | -     | 1400         | 45.5    | 31.6  | 13.25             | 11.35 |
|                                       | FC/MC62    | 24.5       | 1400 - 1800              | -     | 1600         | 48.0    | 34.2  | 14.00             | 12.00 |
|                                       | FC64       | 24.5       | 1400 - 1800              | -     | 1400         | 48.0    | 32.0  | 14.00             | 12.00 |
| THJF60S41S3                           | FC/MC62    | 24.5       | 1150 - 1550              | 1     | 1350         | 48.0    | 31.8  | 13.30             | 11.35 |
|                                       | FC/MC62    | 24.5       | 1600 - 2000              | 2     | 1800         | 56.5    | 39.5  | 13.30             | 11.35 |

1. Requires a S1-2FD06700224 Blower Time Delay unless a standard furnace is equipped with one.

MA Modular Air Handlers use Coil Only Ratings.

PSC furnaces, such as the TG8S, TGLS ,TG9S, use Coil Only Ratings.

**COOLING CAPACITY - With High Efficiency Motor Furnaces**

| UNIT<br>MODEL   | FURNACE      |       | COIL <sup>1</sup><br>MODEL | COOLING      |         |       |       |       |
|---|--------------|-------|----------------------------|--------------|---------|-------|-------|-------|
|   | MODEL        | WIDTH |                            | RATED<br>CFM | NET MBH |       | SEER  | EER   |
|   |              |       |                            |              | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b> |              |       |                            |              |         |       |       |       |
| THJF18S41S3   | T*(8,L)V*A12 | 14.5  | FC/MC/PC32A                | 590          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | T*(8,L)V*A12 | 14.5  | FC/MC/PC37A                | 625          | 18.0    | 13.3  | 15.00 | 12.50 |
|   | T*(8,L)V*B12 | 17.5  | FC/MC/PC35B                | 650          | 18.0    | 13.4  | 15.00 | 12.50 |
|   | T*(8,L)V*B12 | 17.5  | FC/MC/PC43B                | 560          | 18.0    | 12.8  | 15.00 | 12.50 |
|   | T*(8,L)V*C16 | 21.0  | FC/MC/PC35C                | 600          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | T*9(C,V)*B12 | 17.5  | FC/MC/PC35B                | 570          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | T*9(C,V)*C16 | 21.0  | FC/MC/PC35C                | 645          | 18.0    | 13.4  | 15.00 | 12.50 |
|   | T*9V*A10     | 14.5  | FC/MC/PC32A                | 580          | 17.5    | 13.3  | 14.00 | 11.95 |
|   | T*9V*A10     | 14.5  | FC/MC/PC37A                | 570          | 17.5    | 13.2  | 14.00 | 11.95 |
|   | C*(8,L)C*A12 | 14.5  | FC/MC/PC32A                | 590          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | C*(8,L)C*A12 | 14.5  | FC/MC/PC37A                | 625          | 18.0    | 13.3  | 15.00 | 12.50 |
|   | C*(8,L)C*B12 | 17.5  | FC/MC/PC35B                | 650          | 18.0    | 13.4  | 15.00 | 12.50 |
|   | C*(8,L)C*B12 | 17.5  | FC/MC/PC43B                | 560          | 18.0    | 12.8  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0  | FC/MC/PC35C                | 600          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | C*9C*B12     | 17.5  | FC/MC/PC35B                | 570          | 18.0    | 13.0  | 15.00 | 12.50 |
|   | C*9C*C16     | 21.0  | FC/MC/PC35C                | 645          | 18.0    | 13.4  | 15.00 | 12.50 |
| THJF24S41S3   | T*(8,L)V*A12 | 14.5  | FC/MC/PC32A                | 775          | 22.8    | 17.1  | 14.50 | 12.00 |
|   | T*(8,L)V*A12 | 14.5  | FC/MC/PC37A                | 805          | 23.2    | 17.9  | 15.00 | 12.50 |
|   | T*(8,L)V*B12 | 17.5  | FC/MC/PC35B                | 760          | 22.6    | 16.7  | 15.00 | 12.50 |
|   | T*(8,L)V*B12 | 17.5  | FC/MC/PC43B                | 760          | 22.8    | 17.0  | 15.00 | 12.50 |

For notes, see Page 9.

## COOLING CAPACITY - With High Efficiency Motor Furnaces (Continued)

| UNIT MODEL  | FURNACE      |             | COIL <sup>1</sup> MODEL | COOLING   |         |       |       |       |
|---|--------------|-------------|-------------------------|-----------|---------|-------|-------|-------|
|   | MODEL        | WIDTH       |                         | RATED CFM | NET MBH |       | SEER  | EER   |
|   |              |             |                         |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b> |              |             |                         |           |         |       |       |       |
| THJF24S41S3   | T*(8,L)V*C16 | 21.0        | FC/MC/PC35C             | 855       | 23.0    | 17.7  | 15.00 | 12.50 |
|   | T*(8,L)V*C16 | 21.0        | FC/MC/PC43C             | 875       | 23.4    | 18.5  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC/PC35C             | 740       | 22.6    | 16.6  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC/PC43C             | 760       | 23.0    | 17.1  | 15.00 | 12.50 |
|   | T*9(C,V)*B12 | 17.5        | FC/MC/PC35B             | 815       | 22.8    | 17.1  | 14.50 | 12.00 |
|   | T*9(C,V)*B12 | 17.5        | FC/MC/PC43B             | 800       | 23.2    | 17.9  | 15.00 | 12.50 |
|   | T*9(C,V)*C16 | 21.0        | FC/MC/PC35C             | 865       | 23.2    | 18.2  | 15.00 | 12.50 |
|   | T*9(C,V)*C16 | 21.0        | FC/MC/PC43C             | 810       | 23.4    | 18.0  | 15.00 | 12.50 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC/PC35C             | 755       | 22.6    | 16.7  | 15.00 | 12.50 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC/PC43C             | 875       | 23.4    | 18.4  | 15.00 | 12.50 |
|   | T*9V*A10     | 14.5        | FC/MC/PC32A             | 785       | 22.2    | 16.5  | 13.60 | 11.70 |
|   | T*9V*A10     | 14.5        | FC/MC/PC37A             | 790       | 22.4    | 16.8  | 13.65 | 11.75 |
|   | C*(8,L)C*A12 | 14.5        | FC/MC/PC32A             | 775       | 22.8    | 17.1  | 14.50 | 12.00 |
|   | C*(8,L)C*A12 | 14.5        | FC/MC/PC37A             | 805       | 23.2    | 17.9  | 15.00 | 12.50 |
|   | C*(8,L)C*B12 | 17.5        | FC/MC/PC35B             | 760       | 22.6    | 16.7  | 15.00 | 12.50 |
|   | C*(8,L)C*B12 | 17.5        | FC/MC/PC43B             | 760       | 22.8    | 17.0  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0        | FC/MC/PC35C             | 855       | 23.0    | 17.7  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0        | FC/MC/PC43C             | 875       | 23.4    | 18.5  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0        | FC/MC/PC35C             | 740       | 22.6    | 16.6  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0        | FC/MC/PC43C             | 760       | 23.0    | 17.1  | 15.00 | 12.50 |
|   | C*9C*B12     | 17.5        | FC/MC/PC35B             | 815       | 22.8    | 17.1  | 14.50 | 12.00 |
|   | C*9C*B12     | 17.5        | FC/MC/PC43B             | 800       | 23.2    | 17.9  | 15.00 | 12.50 |
|   | C*9C*C16     | 21.0        | FC/MC/PC35C             | 865       | 23.2    | 18.2  | 15.00 | 12.50 |
|   | C*9C*C16     | 21.0        | FC/MC/PC43C             | 810       | 23.4    | 18.0  | 15.00 | 12.50 |
| C*9C*C20  | 21.0         | FC/MC/PC35C | 755                     | 22.6      | 16.7    | 15.00 | 12.50 |       |
| C*9C*C20  | 21.0         | FC/MC/PC43C | 875                     | 23.4      | 18.4    | 15.00 | 12.50 |       |
| THJF30S41S3   | T*(8,L)V*A12 | 14.5        | FC/MC/PC37A             | 980       | 28.6    | 21.4  | 14.50 | 12.00 |
|   | T*(8,L)V*B12 | 17.5        | FC/MC/PC43B             | 990       | 28.8    | 21.4  | 15.00 | 12.50 |
|   | T*(8,L)V*C16 | 21.0        | FC/MC/PC43C             | 990       | 29.0    | 21.6  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC/PC43C             | 1000      | 29.0    | 21.6  | 15.00 | 12.50 |
|   | T*9(C,V)*B12 | 17.5        | FC/MC/PC43B             | 1035      | 29.0    | 22.0  | 14.50 | 12.00 |
|   | T*9(C,V)*C16 | 21.0        | FC/MC/PC43C             | 1030      | 29.2    | 22.2  | 15.00 | 12.50 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC/PC43C             | 995       | 29.0    | 21.6  | 15.00 | 12.50 |
|   | C*(8,L)C*A12 | 14.5        | FC/MC/PC37A             | 980       | 28.6    | 21.4  | 14.50 | 12.00 |
|   | C*(8,L)C*B12 | 17.5        | FC/MC/PC43B             | 990       | 28.8    | 21.4  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0        | FC/MC/PC43C             | 990       | 29.0    | 21.6  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0        | FC/MC/PC43C             | 1000      | 29.0    | 21.6  | 15.00 | 12.50 |
|   | C*9C*B12     | 17.5        | FC/MC/PC43B             | 1035      | 29.0    | 22.0  | 14.50 | 12.00 |
|   | C*9C*C16     | 21.0        | FC/MC/PC43C             | 1030      | 29.2    | 22.2  | 15.00 | 12.50 |
|   | C*9C*C20     | 21.0        | FC/MC/PC43C             | 995       | 29.0    | 21.6  | 15.00 | 12.50 |
| THJF36S41S4   | T*(8,L)V*B12 | 17.5        | FC/MC/PC43B             | 1275      | 35.6    | 26.6  | 13.25 | 11.50 |
|   | T*(8,L)V*C16 | 21.0        | FC/MC/PC43C             | 1190      | 35.6    | 26.2  | 14.00 | 12.00 |
|   | T*(8,L)V*C16 | 21.0        | FC/MC/PC48C             | 1195      | 36.0    | 26.4  | 14.50 | 12.00 |
|   | T*(8,L)V*C16 | 21.0        | FC/PC60C                | 1185      | 36.0    | 26.8  | 14.50 | 12.00 |
|   | T*(8,L)V*C16 | 21.0        | UC48C                   | 1210      | 36.0    | 26.6  | 15.00 | 12.50 |
|   | T*(8,L)V*C16 | 21.0        | UC60C                   | 1195      | 36.0    | 26.2  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC/PC43C             | 1190      | 35.6    | 26.2  | 14.00 | 12.00 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC/PC48C             | 1150      | 36.0    | 26.4  | 14.50 | 12.00 |
|   | T*(8,L)V*C20 | 21.0        | FC/PC60C                | 1215      | 36.0    | 26.8  | 14.50 | 12.00 |
|   | T*(8,L)V*C20 | 21.0        | UC48C                   | 1155      | 36.0    | 26.6  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | UC60C                   | 1215      | 36.0    | 26.2  | 15.00 | 12.50 |
|   | T*9(C,V)*B12 | 17.5        | FC/MC/PC43B             | 1200      | 35.2    | 25.8  | 13.50 | 11.50 |

For notes, see Page 9.

## COOLING CAPACITY - With High Efficiency Motor Furnaces (Continued)

| UNIT<br>MODEL   | FURNACE      |             | COIL <sup>1</sup><br>MODEL | COOLING      |         |       |       |       |
|---|--------------|-------------|----------------------------|--------------|---------|-------|-------|-------|
|   | MODEL        | WIDTH       |                            | RATED<br>CFM | NET MBH |       | SEER  | EER   |
|   |              |             |                            |              | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b> |              |             |                            |              |         |       |       |       |
| THJF36S41S4   | T*9(C,V)*C16 | 21.0        | FC/MC/PC43C                | 1240         | 35.4    | 26.0  | 13.75 | 11.75 |
|   | T*9(C,V)*C16 | 21.0        | FC/MC/PC48C                | 1195         | 35.8    | 26.4  | 14.00 | 12.00 |
|   | T*9(C,V)*C16 | 21.0        | FC/PC60C                   | 1235         | 36.0    | 26.6  | 14.00 | 12.00 |
|   | T*9(C,V)*C16 | 21.0        | UC48C                      | 1195         | 36.0    | 26.4  | 14.50 | 12.00 |
|   | T*9(C,V)*C16 | 21.0        | UC60C                      | 1235         | 36.0    | 26.0  | 14.00 | 12.00 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC/PC43C                | 1200         | 35.6    | 26.2  | 14.00 | 12.00 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC/PC48C                | 1330         | 36.0    | 27.8  | 14.00 | 12.00 |
|   | T*9(C,V)*C20 | 21.0        | FC/PC60C                   | 1330         | 36.0    | 28.0  | 14.00 | 12.00 |
|   | T*9(C,V)*C20 | 21.0        | UC48C                      | 1330         | 36.0    | 28.0  | 14.50 | 12.00 |
|   | T*9(C,V)*C20 | 21.0        | UC60C                      | 1330         | 36.0    | 27.6  | 14.50 | 12.00 |
|   | T*9(C,V)*D20 | 24.5        | FC/MC/PC48D                | 1240         | 35.8    | 26.4  | 14.00 | 12.00 |
|   | T*9(C,V)*D20 | 24.5        | FC/MC/PC60D                | 1225         | 36.0    | 26.6  | 14.00 | 12.00 |
|   | T*9(C,V)*D20 | 24.5        | UC48D                      | 1240         | 36.0    | 26.6  | 15.00 | 12.50 |
|   | T*9(C,V)*D20 | 24.5        | UC60D                      | 1225         | 36.0    | 26.2  | 14.50 | 12.00 |
|   | C*(8,L)C*A12 | 14.5        | FC/MC/PC37A                | 1150         | 35.2    | 25.8  | 13.50 | 11.50 |
|   | C*(8,L)C*B12 | 14.5        | FC/MC/PC43B                | 1275         | 35.6    | 26.6  | 13.25 | 11.50 |
|   | C*(8,L)C*C16 | 21.0        | FC/MC/PC43C                | 1190         | 35.6    | 26.2  | 14.00 | 12.00 |
|   | C*(8,L)C*C16 | 21.0        | FC/MC/PC48C                | 1195         | 36.0    | 26.4  | 14.50 | 12.00 |
|   | C*(8,L)C*C16 | 21.0        | FC/PC60C                   | 1185         | 36.0    | 26.8  | 14.50 | 12.00 |
|   | C*(8,L)C*C16 | 21.0        | UC48C                      | 1210         | 36.0    | 26.6  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0        | UC60C                      | 1195         | 36.0    | 26.2  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0        | FC/MC/PC43C                | 1190         | 35.6    | 26.2  | 14.00 | 12.00 |
|   | C*(8,L)C*C20 | 21.0        | FC/MC/PC48C                | 1150         | 36.0    | 26.4  | 14.50 | 12.00 |
|   | C*(8,L)C*C20 | 21.0        | FC/PC60C                   | 1215         | 36.0    | 26.8  | 14.50 | 12.00 |
|   | C*(8,L)C*C20 | 21.0        | UC48C                      | 1155         | 36.0    | 26.6  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0        | UC60C                      | 1215         | 36.0    | 26.2  | 15.00 | 12.50 |
|   | C*9C*B12     | 17.5        | FC/MC/PC43B                | 1200         | 35.2    | 25.8  | 13.50 | 11.50 |
|   | C*9C*C16     | 21.0        | FC/MC/PC43C                | 1240         | 35.4    | 26.0  | 13.75 | 11.75 |
|   | C*9C*C16     | 21.0        | FC/MC/PC48C                | 1195         | 35.8    | 26.4  | 14.00 | 12.00 |
|   | C*9C*C16     | 21.0        | FC/PC60C                   | 1235         | 36.0    | 26.6  | 14.00 | 12.00 |
|   | C*9C*C16     | 21.0        | UC48C                      | 1195         | 36.0    | 26.4  | 14.50 | 12.00 |
|   | C*9C*C16     | 21.0        | UC60C                      | 1235         | 36.0    | 26.0  | 14.00 | 12.00 |
|   | C*9C*C20     | 21.0        | FC/MC/PC43C                | 1200         | 35.6    | 26.2  | 14.00 | 12.00 |
|   | C*9C*C20     | 21.0        | FC/MC/PC48C                | 1330         | 36.0    | 27.8  | 14.00 | 12.00 |
| C*9C*C20  | 21.0         | FC/PC60C    | 1330                       | 36.0         | 28.0    | 14.00 | 12.00 |       |
| C*9C*C20  | 21.0         | UC48C       | 1330                       | 36.0         | 28.0    | 14.50 | 12.00 |       |
| C*9C*C20  | 21.0         | UC60C       | 1330                       | 36.0         | 27.6    | 14.50 | 12.00 |       |
| C*9C*D20  | 24.5         | FC/MC/PC48D | 1240                       | 35.8         | 26.4    | 14.00 | 12.00 |       |
| C*9C*D20  | 24.5         | FC/MC/PC60D | 1225                       | 36.0         | 26.6    | 14.00 | 12.00 |       |
| C*9C*D20  | 24.5         | UC48D       | 1240                       | 36.0         | 26.6    | 15.00 | 12.50 |       |
| C*9C*D20  | 24.5         | UC60D       | 1225                       | 36.0         | 26.2    | 14.50 | 12.00 |       |
| THJF42S41S5   | T*(8,L)V*C16 | 21.0        | FC/MC62D                   | 1420         | 39.0    | 28.8  | 14.00 | 11.50 |
|   | T*(8,L)V*C16 | 21.0        | FC/PC60C                   | 1185         | 39.5    | 27.6  | 15.00 | 12.50 |
|   | T*(8,L)V*C16 | 21.0        | UC60C                      | 1395         | 37.4    | 28.6  | 13.50 | 11.35 |
|   | T*(8,L)V*C20 | 21.0        | FC/MC62D                   | 1365         | 38.5    | 28.2  | 14.00 | 11.50 |
|   | T*(8,L)V*C20 | 21.0        | FC/PC60C                   | 1215         | 40.0    | 28.4  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0        | UC60C                      | 1410         | 37.6    | 28.6  | 13.50 | 11.35 |
|   | T*9(C,V)*C16 | 21.0        | FC/MC62D                   | 1445         | 39.0    | 28.8  | 13.50 | 11.35 |
|   | T*9(C,V)*C16 | 21.0        | FC/PC60C                   | 1235         | 39.5    | 28.2  | 14.50 | 12.00 |
|   | T*9(C,V)*C16 | 21.0        | UC60C                      | 1395         | 37.4    | 28.4  | 13.00 | 11.00 |
|   | T*9(C,V)*C20 | 21.0        | FC/MC62D                   | 1445         | 39.0    | 29.0  | 13.50 | 11.35 |
|   | T*9(C,V)*C20 | 21.0        | FC/PC60C                   | 1330         | 40.0    | 29.4  | 14.50 | 12.00 |

For notes, see Page 9.



**COOLING CAPACITY - With High Efficiency Motor Furnaces (Continued)**

| UNIT MODEL  | FURNACE      |       | COIL <sup>1</sup> MODEL | COOLING   |         |       |       |       |
|---|--------------|-------|-------------------------|-----------|---------|-------|-------|-------|
|   | MODEL        | WIDTH |                         | RATED CFM | NET MBH |       | SEER  | EER   |
|   |              |       |                         |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b> |              |       |                         |           |         |       |       |       |
| THJF42S41S5   | T*9(C,V)*C20 | 21.0  | UC60C                   | 1405      | 37.6    | 28.6  | 13.05 | 11.05 |
|   | T*9(C,V)*D20 | 24.5  | FC/MC/PC60D             | 1225      | 40.0    | 28.4  | 14.50 | 12.00 |
|   | T*9(C,V)*D20 | 24.5  | FC/MC62D                | 1455      | 39.5    | 29.2  | 14.00 | 11.50 |
|   | T*9(C,V)*D20 | 24.5  | UC60D                   | 1405      | 37.6    | 28.8  | 13.30 | 11.40 |
|   | C*(8,L)C*C16 | 21.0  | FC/MC62D                | 1420      | 39.0    | 28.8  | 14.00 | 11.50 |
|   | C*(8,L)C*C16 | 21.0  | FC/PC60C                | 1185      | 39.5    | 27.6  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0  | UC60C                   | 1395      | 37.4    | 28.6  | 13.50 | 11.40 |
|   | C*(8,L)C*C20 | 21.0  | FC/MC62D                | 1365      | 38.5    | 28.2  | 14.00 | 11.50 |
|   | C*(8,L)C*C20 | 21.0  | FC/PC60C                | 1215      | 40.0    | 28.4  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0  | UC60C                   | 1410      | 37.6    | 28.6  | 13.50 | 11.40 |
|   | C*9C*C16     | 21.0  | FC/MC62D                | 1445      | 39.0    | 28.8  | 13.50 | 11.35 |
|   | C*9C*C16     | 21.0  | FC/PC60C                | 1235      | 39.5    | 28.2  | 14.50 | 12.00 |
|   | C*9C*C16     | 21.0  | UC60C                   | 1395      | 37.4    | 28.4  | 13.05 | 11.05 |
|   | C*9C*C20     | 21.0  | FC/MC62D                | 1445      | 39.0    | 29.0  | 11.50 | 11.35 |
|   | C*9C*C20     | 21.0  | FC/PC60C                | 1330      | 40.0    | 29.4  | 14.50 | 12.00 |
|   | C*9C*C20     | 21.0  | UC60C                   | 1405      | 37.6    | 28.6  | 13.30 | 11.40 |
|   | C*9C*D20     | 24.5  | FC/MC/PC60D             | 1225      | 40.0    | 28.4  | 14.50 | 12.00 |
|   | C*9C*D20     | 24.5  | FC/MC62D                | 1455      | 39.5    | 29.2  | 14.00 | 11.35 |
| C*9C*D20  | 24.5         | UC60D | 1405                    | 37.6      | 28.8    | 13.30 | 11.40 |       |
| THJF48S41S5   | T*(8,L)V*C16 | 21.0  | FC/MC62D                | 1420      | 48.0    | 33.0  | 14.50 | 12.00 |
|   | T*(8,L)V*C16 | 21.0  | FC/PC60C                | 1420      | 46.0    | 32.2  | 14.00 | 12.00 |
|   | T*(8,L)V*C16 | 21.0  | FC64D                   | 1420      | 48.0    | 33.8  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0  | FC/MC62D                | 1365      | 47.0    | 32.2  | 15.00 | 12.50 |
|   | T*(8,L)V*C20 | 21.0  | FC/PC60C                | 1340      | 45.0    | 30.8  | 14.00 | 12.00 |
|   | T*(8,L)V*C20 | 21.0  | FC64D                   | 1410      | 48.0    | 33.6  | 15.00 | 12.50 |
|   | T*9(C,V)*C16 | 21.0  | FC/MC62D                | 1445      | 47.0    | 32.8  | 14.50 | 12.00 |
|   | T*9(C,V)*C16 | 21.0  | FC/PC60C                | 1445      | 46.0    | 32.4  | 14.00 | 12.00 |
|   | T*9(C,V)*C16 | 21.0  | FC64D                   | 1445      | 48.0    | 33.6  | 15.00 | 12.50 |
|   | T*9(C,V)*C20 | 21.0  | FC/MC62D                | 1445      | 47.5    | 33.0  | 14.50 | 12.00 |
|   | T*9(C,V)*C20 | 21.0  | FC/PC60C                | 1445      | 46.0    | 32.6  | 14.00 | 12.00 |
|   | T*9(C,V)*C20 | 21.0  | FC64D                   | 1445      | 48.0    | 33.8  | 15.00 | 12.50 |
|   | T*9(C,V)*D20 | 24.5  | FC/MC/PC60D             | 1445      | 46.5    | 32.6  | 14.00 | 12.00 |
|   | T*9(C,V)*D20 | 24.5  | FC/MC62D                | 1455      | 47.5    | 33.4  | 15.00 | 12.50 |
|   | T*9(C,V)*D20 | 24.5  | FC64D                   | 1455      | 48.0    | 34.0  | 15.00 | 12.50 |
|   | C*(8,L)C*C16 | 21.0  | FC/MC62D                | 1420      | 48.0    | 33.0  | 14.50 | 12.00 |
|   | C*(8,L)C*C16 | 21.0  | FC/PC60C                | 1420      | 46.0    | 32.2  | 14.00 | 12.00 |
|   | C*(8,L)C*C16 | 21.0  | FC64D                   | 1420      | 48.0    | 33.8  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0  | FC/MC62D                | 1365      | 47.0    | 32.2  | 15.00 | 12.50 |
|   | C*(8,L)C*C20 | 21.0  | FC/PC60C                | 1340      | 45.0    | 30.8  | 14.00 | 12.00 |
|   | C*(8,L)C*C20 | 21.0  | FC64D                   | 1410      | 48.0    | 33.6  | 15.00 | 12.50 |
|   | C*9C*C16     | 21.0  | FC/MC62D                | 1445      | 47.0    | 32.8  | 14.50 | 12.00 |
|   | C*9C*C16     | 21.0  | FC/PC60C                | 1445      | 46.0    | 32.4  | 14.00 | 12.00 |
|   | C*9C*C16     | 21.0  | FC64D                   | 1445      | 48.0    | 33.6  | 15.00 | 12.50 |
|   | C*9C*C20     | 21.0  | FC/MC62D                | 1445      | 47.5    | 33.0  | 14.50 | 12.00 |
|   | C*9C*C20     | 21.0  | FC/PC60C                | 1445      | 46.0    | 32.6  | 14.00 | 12.00 |
|   | C*9C*C20     | 21.0  | FC64D                   | 1445      | 48.0    | 33.8  | 15.00 | 12.50 |
|   | C*9C*D20     | 24.5  | FC/MC/PC60D             | 1445      | 46.5    | 32.6  | 14.00 | 12.00 |
|   | C*9C*D20     | 24.5  | FC/MC62D                | 1455      | 47.5    | 33.4  | 15.00 | 12.50 |
|   | C*9C*D20     | 24.5  | FC64D                   | 1455      | 48.0    | 34.0  | 15.00 | 12.50 |

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

2. High Efficiency Motor Furnaces have B.O.D (Blower on Delay) standard.

PSC furnaces, such as the TG8S, TGLS ,TG9S, use Coil Only Ratings.

**COOLING CAPACITY - With High Efficiency Motor Furnaces**

| UNIT MODEL  | FURNACE      |          | COIL <sup>1</sup> MODEL | STAGE | COOLING   |         |       |       |       |
|---|--------------|----------|-------------------------|-------|-----------|---------|-------|-------|-------|
|   | MODEL        | WIDTH    |                         |       | RATED CFM | NET MBH |       | SEER  | EER   |
|   |              |          |                         |       |           | TOTAL   | SENS. |       |       |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b> |              |          |                         |       |           |         |       |       |       |
| THJF60S41S3   | T*(8,L)V*C20 | 21.0     | FC/MC62D                | 1     | 1015      | 46.0    | 29.2  | 14.50 | 12.00 |
|   |              |          |                         | 2     | 1615      | 56.5    | 38.5  |       |       |
|   | T*(8,L)V*C20 | 21.0     | FC64D                   | 1     | 1015      | 48.5    | 30.6  | 15.00 | 12.50 |
|   |              |          |                         | 2     | 1615      | 58.0    | 40.0  |       |       |
|   | T*9(C,V)*C20 | 21.0     | FC/MC62D                | 1     | 1040      | 46.5    | 29.4  | 14.50 | 12.00 |
|   |              |          |                         | 2     | 1655      | 56.0    | 38.5  |       |       |
|   | T*9(C,V)*C20 | 21.0     | FC64D                   | 1     | 1040      | 49.0    | 30.8  | 15.00 | 12.25 |
|   |              |          |                         | 2     | 1655      | 57.5    | 40.0  |       |       |
|   | T*9(C,V)*D20 | 24.5     | FC/MC62D                | 1     | 1085      | 47.0    | 29.8  | 14.50 | 12.00 |
|   |              |          |                         | 2     | 1630      | 56.0    | 38.5  |       |       |
|   | T*9(C,V)*D20 | 24.5     | FC64D                   | 1     | 1085      | 49.0    | 31.4  | 15.00 | 12.50 |
|   |              |          |                         | 2     | 1630      | 57.5    | 40.0  |       |       |
|   | C*(8,L)C*C20 | 21.0     | FC/MC62D                | 1     | 1015      | 46.0    | 29.2  | 14.50 | 12.00 |
|   |              |          |                         | 2     | 1615      | 56.5    | 38.5  |       |       |
|   | C*(8,L)C*C20 | 21.0     | FC64D                   | 1     | 1015      | 48.5    | 30.6  | 15.00 | 12.50 |
|   |              |          |                         | 2     | 1615      | 58.0    | 40.0  |       |       |
|   | C*9C*C20     | 21.0     | FC/MC62D                | 1     | 1040      | 46.5    | 29.4  | 14.50 | 12.00 |
|   |              |          |                         | 2     | 1655      | 56.0    | 38.5  |       |       |
|   | C*9C*C20     | 21.0     | FC64D                   | 1     | 1040      | 49.0    | 30.8  | 15.00 | 12.25 |
|   |              |          |                         | 2     | 1655      | 57.5    | 40.0  |       |       |
| C*9C*D20  | 24.5         | FC/MC62D | 1                       | 1085  | 47.0      | 29.8    | 14.50 | 12.00 |       |
|   |              |          | 2                       | 1630  | 56.0      | 38.5    |       |       |       |
| C*9C*D20  | 24.5         | FC64D    | 1                       | 1085  | 49.0      | 31.4    | 15.00 | 12.50 |       |
|   |              |          | 2                       | 1630  | 57.5      | 40.0    |       |       |       |

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

2. High Efficiency Motor Furnaces have B.O.D (Blower on Delay) standard.

PSC furnaces, such as the TG8S, TGLS ,TG9S, use Coil Only Ratings.

**HEATING CAPACITY - With Air Handler Coils**

| UNIT MODEL*                           | AIR HANDLER | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---------------------------------------|-------------|-------------------------|----------------------|------|------|------|------|------|------|
|                                       |             |                         | 47°F                 |      |      | 17°F |      |      | HSPF |
|                                       |             |                         | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |             |                         |                      |      |      |      |      |      |      |
| THJF18S41S3                           | AHE24B      | –                       | 18.0                 | 3.82 | 1.38 | 11.0 | 2.50 | 1.29 | 8.20 |
|                                       | AHE30B      | –                       | 18.0                 | 3.88 | 1.36 | 10.9 | 2.54 | 1.26 | 8.50 |
|                                       | AHR24B      | –                       | 18.0                 | 3.56 | 1.52 | 11.4 | 2.34 | 1.43 | 7.75 |
|                                       | AHV24B      | –                       | 18.0                 | 3.76 | 1.40 | 10.9 | 2.50 | 1.28 | 8.50 |
|                                       | AHV30B      | –                       | 18.0                 | 3.92 | 1.35 | 11.0 | 2.54 | 1.27 | 8.50 |
|                                       | AHV36C      | –                       | 18.0                 | 4.00 | 1.32 | 11.0 | 2.60 | 1.24 | 8.50 |
|                                       | AV*36       | –                       | 18.0                 | 3.98 | 1.33 | 10.8 | 2.62 | 1.21 | 8.50 |
|                                       | MV12B       | FC/MC35B                | 18.0                 | 3.76 | 1.40 | 11.0 | 2.48 | 1.30 | 8.50 |
|                                       | MV12B       | FC/MC43B                | 18.0                 | 3.90 | 1.35 | 10.9 | 2.56 | 1.25 | 8.50 |
|                                       | MX12B       | FC/MC35B                | 18.0                 | 3.96 | 1.33 | 10.9 | 2.56 | 1.25 | 8.50 |
| MX12B                                 | FC/MC43B    | 18.0                    | 3.96                 | 1.33 | 10.9 | 2.60 | 1.23 | 8.50 |      |
| THJF24S41S3                           | AHE24B      | –                       | 22.2                 | 3.68 | 1.77 | 13.7 | 2.44 | 1.65 | 8.50 |
|                                       | AHE30B      | –                       | 22.2                 | 3.68 | 1.77 | 13.7 | 2.44 | 1.65 | 8.50 |
|                                       | AHR24B      | –                       | 22.4                 | 3.42 | 1.92 | 13.9 | 2.30 | 1.77 | 7.75 |
|                                       | AHV24B      | –                       | 22.2                 | 3.58 | 1.82 | 13.7 | 2.40 | 1.67 | 8.50 |
|                                       | AHV30B      | –                       | 22.2                 | 3.64 | 1.79 | 13.7 | 2.42 | 1.66 | 8.50 |
|                                       | AHV36C      | –                       | 22.2                 | 3.76 | 1.73 | 13.6 | 2.50 | 1.59 | 8.50 |
|                                       | AV*36       | –                       | 22.0                 | 3.70 | 1.74 | 14.8 | 2.50 | 1.73 | 8.50 |

For notes, see Page 12.

## HEATING CAPACITY - With Air Handler Coils (Continued)

| UNIT<br>MODEL*                        | AIR<br>HANDLER | COIL <sup>1</sup><br>MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---------------------------------------|----------------|----------------------------|----------------------|------|------|------|------|------|------|
|                                       |                |                            | 47°F                 |      |      | 17°F |      |      | HSPF |
|                                       |                |                            | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |                |                            |                      |      |      |      |      |      |      |
| THJF24S41S3                           | MV12B          | FC/MC35B                   | 22.2                 | 3.68 | 1.77 | 14.9 | 2.46 | 1.77 | 8.50 |
|                                       | MV12B          | FC/MC43B                   | 22.2                 | 3.82 | 1.70 | 14.9 | 2.54 | 1.72 | 8.50 |
|                                       | MX12B          | FC/MC35B                   | 22.0                 | 3.72 | 1.73 | 13.6 | 2.46 | 1.62 | 8.50 |
|                                       | MX12B          | FC/MC43B                   | 22.0                 | 3.70 | 1.74 | 13.5 | 2.48 | 1.59 | 8.50 |
| THJF30S41S3                           | AHE36C         | –                          | 30.0                 | 4.08 | 2.15 | 20.4 | 2.62 | 2.28 | 9.00 |
|                                       | AHR36B         | –                          | 30.0                 | 3.76 | 2.42 | 19.4 | 2.50 | 2.27 | 7.75 |
|                                       | AHV36C         | –                          | 30.0                 | 3.76 | 2.34 | 18.8 | 2.40 | 2.30 | 9.00 |
|                                       | AV*36          | –                          | 29.8                 | 3.98 | 2.19 | 18.6 | 2.74 | 1.99 | 9.00 |
|                                       | MV12B          | FC/MC43B                   | 30.0                 | 3.88 | 2.27 | 18.8 | 2.68 | 2.06 | 9.00 |
|                                       | MV16C          | FC/MC43C                   | 30.0                 | 3.92 | 2.24 | 18.8 | 2.70 | 2.04 | 9.00 |
|                                       | MX12B          | FC/MC43B                   | 30.0                 | 4.10 | 2.14 | 20.6 | 2.60 | 2.32 | 9.00 |
|                                       | MX16C          | FC/MC43C                   | 30.0                 | 4.04 | 2.18 | 20.4 | 2.60 | 2.30 | 9.00 |
| THJF36S41S4                           | AHE36C         | –                          | 34.6                 | 3.80 | 2.67 | 20.2 | 2.80 | 2.11 | 8.50 |
|                                       | AHE42D         | –                          | 34.6                 | 3.80 | 2.67 | 20.2 | 2.80 | 2.11 | 9.00 |
|                                       | AHE48D         | –                          | 33.8                 | 3.74 | 2.65 | 19.8 | 2.78 | 2.09 | 8.50 |
|                                       | AHR36B         | –                          | 35.0                 | 3.52 | 2.91 | 20.8 | 2.58 | 2.36 | 8.20 |
|                                       | AHR42C         | –                          | 34.8                 | 3.56 | 2.86 | 20.8 | 2.62 | 2.33 | 8.20 |
|                                       | AHV36C         | –                          | 34.8                 | 3.76 | 2.71 | 20.6 | 2.74 | 2.20 | 8.20 |
|                                       | AHV42D         | –                          | 34.4                 | 3.80 | 2.65 | 20.2 | 2.80 | 2.11 | 9.00 |
|                                       | AHV48D         | –                          | 34.2                 | 3.80 | 2.64 | 20.0 | 2.80 | 2.09 | 9.00 |
|                                       | AV*36          | –                          | 34.2                 | 3.72 | 2.69 | 20.0 | 2.76 | 2.12 | 8.50 |
|                                       | AV*48          | –                          | 34.8                 | 3.90 | 2.61 | 20.4 | 2.86 | 2.09 | 8.50 |
|                                       | MV12B          | FC/MC43B                   | 34.6                 | 3.68 | 2.75 | 20.2 | 2.72 | 2.18 | 8.50 |
|                                       | MV12D          | FC/MC48D                   | 33.8                 | 3.78 | 2.62 | 19.9 | 2.82 | 2.07 | 9.00 |
|                                       | MV12D          | FC/MC60D                   | 34.6                 | 3.82 | 2.65 | 20.4 | 2.82 | 2.12 | 8.50 |
|                                       | MV16C          | FC/MC43C                   | 34.4                 | 3.72 | 2.71 | 20.0 | 2.74 | 2.14 | 8.50 |
|                                       | MV16C          | FC/MC48C                   | 34.0                 | 3.72 | 2.68 | 20.0 | 2.76 | 2.12 | 8.50 |
|                                       | MV16C          | FC60C                      | 35.4                 | 3.96 | 2.62 | 20.8 | 2.86 | 2.13 | 9.00 |
|                                       | MX12B          | FC/MC43B                   | 34.6                 | 3.66 | 2.77 | 20.2 | 2.70 | 2.19 | 8.50 |
|                                       | MX12D          | FC/MC48D                   | 34.0                 | 3.72 | 2.68 | 20.0 | 2.76 | 2.12 | 8.50 |
|                                       | MX12D          | FC/MC60D                   | 35.0                 | 3.92 | 2.62 | 20.6 | 2.86 | 2.11 | 9.00 |
|                                       | MX16C          | FC/MC43C                   | 33.8                 | 3.72 | 2.66 | 19.6 | 2.76 | 2.08 | 8.50 |
| MX16C                                 | FC/MC48C       | 33.8                       | 3.78                 | 2.62 | 19.8 | 2.82 | 2.06 | 9.00 |      |
| MX16C                                 | FC60C          | 35.0                       | 3.98                 | 2.58 | 20.6 | 2.90 | 2.08 | 9.00 |      |
| THJF42S41S5                           | AHE48D         | –                          | 39.5                 | 3.70 | 3.13 | 25.4 | 2.66 | 2.80 | 9.00 |
|                                       | AHE60D         | –                          | 39.0                 | 3.78 | 3.02 | 25.4 | 2.68 | 2.78 | 8.50 |
|                                       | AHR48D         | –                          | 40.5                 | 3.52 | 3.37 | 26.4 | 2.50 | 3.09 | 8.50 |
|                                       | AHV48D         | –                          | 39.5                 | 3.74 | 3.09 | 25.2 | 2.68 | 2.76 | 9.00 |
|                                       | AHV60D         | –                          | 39.0                 | 3.74 | 3.06 | 25.6 | 2.64 | 2.84 | 8.50 |
|                                       | MV16C          | FC60C                      | 40.5                 | 3.88 | 3.06 | 25.8 | 2.70 | 2.80 | 8.50 |
|                                       | MV20D          | FC/MC60D                   | 40.0                 | 3.92 | 2.99 | 25.4 | 2.74 | 2.72 | 9.00 |
|                                       | MV20D          | FC/MC62D                   | 39.0                 | 3.74 | 3.06 | 25.4 | 2.64 | 2.82 | 8.50 |
|                                       | MX20D          | FC/MC60D                   | 40.0                 | 3.98 | 2.94 | 25.2 | 2.78 | 2.66 | 9.00 |
|                                       | MX20D          | FC/MC62D                   | 39.0                 | 3.90 | 2.93 | 25.4 | 2.72 | 2.74 | 8.50 |

For notes, see Page 12.

**HEATING CAPACITY - With Air Handler Coils (Continued)**

| UNIT<br>MODEL*                        | AIR<br>HANDLER | COIL <sup>1</sup><br>MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---------------------------------------|----------------|----------------------------|----------------------|------|------|------|------|------|------|
|                                       |                |                            | 47°F                 |      |      | 17°F |      |      | HSPF |
|                                       |                |                            | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |                |                            |                      |      |      |      |      |      |      |
| THJF48S41S5                           | AHE48D         | —                          | 47.0                 | 3.44 | 4.00 | 28.8 | 2.44 | 3.46 | 8.20 |
|                                       | AHE60D         | —                          | 47.0                 | 3.72 | 3.70 | 30.4 | 2.62 | 3.40 | 9.00 |
|                                       | AHR48D         | —                          | 48.0                 | 3.22 | 4.37 | 29.6 | 2.26 | 3.84 | 7.80 |
|                                       | AHV48D         | —                          | 47.0                 | 3.36 | 4.10 | 29.0 | 2.36 | 3.60 | 8.20 |
|                                       | AHV60D         | —                          | 47.5                 | 3.74 | 3.72 | 30.4 | 2.62 | 3.40 | 9.00 |
|                                       | MV16C          | FC60C                      | 48.0                 | 3.56 | 3.95 | 29.0 | 2.46 | 3.45 | 8.20 |
|                                       | MV20D          | FC/MC60D                   | 47.5                 | 3.60 | 3.87 | 29.0 | 2.48 | 3.43 | 8.50 |
|                                       | MV20D          | FC/MC62D                   | 47.5                 | 3.74 | 3.72 | 30.4 | 2.62 | 3.40 | 9.00 |
|                                       | MV20D          | FC64D                      | 48.0                 | 3.94 | 3.57 | 30.8 | 2.72 | 3.32 | 9.00 |
|                                       | MX16C          | FC60C                      | 47.5                 | 3.64 | 3.82 | 29.0 | 2.50 | 3.40 | 8.50 |
|                                       | MX20D          | FC/MC60D                   | 47.5                 | 3.70 | 3.76 | 28.8 | 2.54 | 3.32 | 8.50 |
|                                       | MX20D          | FC/MC62D                   | 47.5                 | 3.92 | 3.55 | 30.2 | 2.70 | 3.28 | 9.00 |
| MX20D                                 | FC64D          | 48.0                       | 4.04                 | 3.48 | 30.8 | 2.76 | 3.27 | 9.00 |      |

1. Rated CFM same as for cooling.

2. Heating MBH based on AHRI standards of 70 °F DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

— = Not Applicable.

MA Modular Air Handlers use Coil Only Ratings.

**HEATING CAPACITY - With Air Handler Coils**

| UNIT<br>MODEL                         | AIR<br>HANDLER | COIL <sup>1</sup><br>MODEL | HEATING <sup>2</sup> |              |         |       |      |          |
|---------------------------------------|----------------|----------------------------|----------------------|--------------|---------|-------|------|----------|
|                                       |                |                            | STAGE                | RATED<br>CFM | NET MBH |       | HSPF | COP @ 47 |
|                                       |                |                            |                      |              | 47 OD   | 17 OD |      |          |
| <b>14.5 SEER HP WITH AIR HANDLERS</b> |                |                            |                      |              |         |       |      |          |
| THJF60S41S3                           | AHE60D         | —                          | 1                    | 1160         | 43.0    | —     | —    | 3.36     |
|                                       |                |                            | 2                    | 1835         | 58.0    | 40.0  | 9.00 | 3.70     |
|                                       |                |                            | 2*                   | 1160         | 55.0    | 39.5  | 8.85 | 3.00     |
|                                       | AHV60D         | —                          | 1                    | 1090         | 44.0    | -     | -    | 3.24     |
|                                       |                |                            | 2                    | 1635         | 63.5    | 40.5  | 9.65 | 3.60     |
|                                       |                |                            | 2*                   | 1090         | 61.0    | 39.5  | 9.40 | 3.40     |
|                                       | MV20D          | FC/MC62D                   | 1                    | 1160         | 43.0    | —     | —    | 3.44     |
|                                       |                |                            | 2                    | 1855         | 57.0    | 40.5  | 9.00 | 3.66     |
|                                       |                |                            | 2*                   | 1160         | 54.9    | 39.0  | 8.85 | 3.04     |
|                                       | MV20D          | FC64D                      | 1                    | 1160         | 43.0    | —     | —    | 3.44     |
|                                       |                |                            | 2                    | 1855         | 60.0    | 40.5  | 9.00 | 3.76     |
|                                       |                |                            | 2*                   | 1160         | 58.0    | 39.0  | 8.90 | 3.12     |
|                                       | MX20D          | FC/MC62D                   | 1                    | 1390         | 44.0    | —     | —    | 3.50     |
|                                       |                |                            | 2                    | 1795         | 58.0    | 39.5  | 9.00 | 3.72     |
|                                       |                |                            | 2*                   | 1390         | 55.5    | 39.0  | 8.60 | 3.22     |
|                                       | MX20D          | FC64D                      | 1                    | 1390         | 44.5    | —     | —    | 3.62     |
|                                       |                |                            | 2                    | 1795         | 58.0    | 40.0  | 9.00 | 3.82     |
|                                       |                |                            | 2*                   | 1390         | 55.5    | 39.5  | 8.60 | 3.30     |

1. Rated CFM same as for cooling.

2. Heating MBH based on AHRI standards of 70 °F DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

\* Notates "Hot Heat Pump" performance. These ratings are not AHRI Listed.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

— = Not Applicable.

MA Modular Air Handlers use Coil Only Ratings.

**HEATING CAPACITY - Upflow, Downflow, and Horizontal Furnaces and Coils (Coil Only Ratings)**

| UNIT<br>MODEL*                        | COIL <sup>1</sup><br>MODEL | HEATING <sup>2</sup> |      |      |       |      |      |      |
|---------------------------------------|----------------------------|----------------------|------|------|-------|------|------|------|
|                                       |                            | 47 °F                |      |      | 17 °F |      |      | HSPF |
|                                       |                            | MBH                  | COP  | KW   | MBH   | COP  | KW   | STD  |
| <b>14.5 SEER HP COIL ONLY RATINGS</b> |                            |                      |      |      |       |      |      |      |
| THJF18S41S3                           | FC/MC/PC32                 | 18.0                 | 3.56 | 1.52 | 11.4  | 2.34 | 1.43 | 7.75 |
|                                       | FC/MC/PC35                 | 18.0                 | 3.52 | 1.56 | 11.3  | 2.34 | 1.45 | 7.70 |
|                                       | FC/MC/PC37                 | 18.0                 | 3.62 | 1.50 | 11.3  | 2.40 | 1.38 | 7.75 |
|                                       | FC/MC/PC43                 | 18.0                 | 3.62 | 1.50 | 11.3  | 2.40 | 1.38 | 7.75 |
| THJF24S41S3                           | FC/MC/PC32                 | 22.8                 | 3.40 | 1.96 | 14.2  | 2.26 | 1.84 | 7.75 |
|                                       | FC/MC/PC35                 | 22.6                 | 3.38 | 1.99 | 15.4  | 2.26 | 1.86 | 7.70 |
|                                       | FC/MC/PC37                 | 22.8                 | 3.40 | 1.96 | 14.2  | 2.26 | 1.84 | 7.75 |
|                                       | FC/MC/PC43                 | 22.8                 | 3.40 | 1.96 | 14.2  | 2.26 | 1.84 | 7.75 |
| THJF30S41S3                           | FC/MC/PC37                 | 30.0                 | 3.72 | 2.43 | 19.3  | 2.48 | 2.28 | 8.00 |
|                                       | FC/MC/PC43                 | 30.0                 | 3.70 | 2.43 | 19.4  | 2.58 | 2.22 | 8.00 |
| THJF36S41S4                           | FC/MC/PC37                 | 35.0                 | 3.52 | 2.91 | 20.8  | 2.58 | 2.36 | 8.20 |
|                                       | FC/MC/PC43                 | 35.0                 | 3.52 | 2.91 | 20.8  | 2.58 | 2.36 | 8.20 |
|                                       | FC/MC/PC48                 | 34.8                 | 3.52 | 2.90 | 20.8  | 2.60 | 2.34 | 8.20 |
|                                       | FC/MC/PC60                 | 35.4                 | 3.64 | 2.85 | 21.2  | 2.66 | 2.34 | 8.20 |
|                                       | UC48                       | 36.0                 | 3.70 | 2.85 | 21.4  | 2.66 | 2.36 | 7.80 |
|                                       | UC60                       | 36.0                 | 3.68 | 2.87 | 20.8  | 2.60 | 2.34 | 7.80 |
| THJF42S41S5                           | FC/MC/PC60                 | 40.5                 | 3.52 | 3.37 | 26.0  | 2.52 | 3.02 | 8.50 |
|                                       | FC/MC62                    | 40.0                 | 3.54 | 3.31 | 26.2  | 2.52 | 3.05 | 8.50 |
| THJF48S41S5                           | FC/MC/PC60                 | 48.0                 | 3.44 | 4.09 | 29.6  | 2.38 | 3.64 | 7.80 |
|                                       | FC/MC62                    | 48.0                 | 3.76 | 3.74 | 31.4  | 2.58 | 3.57 | 8.20 |
|                                       | FC64                       | 48.0                 | 3.76 | 3.74 | 31.6  | 2.60 | 3.56 | 8.20 |

1. Rated CFM same as for cooling.

2. Heating MBH based on AHRI standards of 70 °F DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

MA Modular Air Handlers use Coil Only Ratings.

PSC furnaces, such as the TG8S, TGLS, TG9S, use Coil Only Ratings.

— = Not Applicable.

**HEATING CAPACITY - With Upflow, Downflow, & Horizontal Furnaces and Coils (Coil Only Ratings)**

| UNIT<br>MODEL*                        | COIL <sup>1</sup><br>MODEL | HEATING <sup>2</sup> |              |         |       |      |          |
|---------------------------------------|----------------------------|----------------------|--------------|---------|-------|------|----------|
|                                       |                            | STAGE                | RATED<br>CFM | NET MBH |       | HSPF | COP @ 47 |
|                                       |                            |                      |              | 47 OD   | 17 OD |      |          |
| <b>14.5 SEER HP COIL ONLY RATINGS</b> |                            |                      |              |         |       |      |          |
| THJF60S41S3                           | FC/MC62                    | 1                    | 1350         | 43.5    | —     | —    | 3.42     |
|                                       |                            | 2                    | 1800         | 60      | 40.5  | 8.4  | 3.58     |
|                                       |                            | 2*                   | 1350         | 57      | 40.0  | 8.6  | 3.36     |

1. Rated CFM same as for cooling.

2. Heating MBH based on AHRI standards of 70° DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

\* Notates "Hot Heat Pump" performance. These ratings are not AHRI Listed.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

MA Modular Air Handlers use Coil Only Ratings.

PSC furnaces, such as the TG8S, TGLS, and TG9S, use Coil Only Ratings.

— = Not Applicable.

## HEATING CAPACITY - With High Efficiency Motor Furnaces

| MODEL   | FURNACE MODEL | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---|---------------|-------------------------|----------------------|------|------|------|------|------|------|
|   |               |                         | 47°F                 |      |      | 17°F |      |      | HSPF |
|   |               |                         | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>3</sup></b> |               |                         |                      |      |      |      |      |      |      |
| THJF18S41S3   | T*(8,L)V*A12  | FC/MC/PC32A             | 18.0                 | 3.76 | 1.40 | 11.0 | 2.48 | 1.30 | 8.50 |
|   | T*(8,L)V*A12  | FC/MC/PC37A             | 18.0                 | 3.90 | 1.35 | 10.9 | 2.58 | 1.24 | 8.50 |
|   | T*(8,L)V*B12  | FC/MC/PC35B             | 18.0                 | 3.84 | 1.37 | 10.9 | 2.50 | 1.28 | 8.50 |
|   | T*(8,L)V*B12  | FC/MC/PC43B             | 18.0                 | 3.80 | 1.39 | 10.8 | 2.52 | 1.26 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC35C             | 18.0                 | 3.82 | 1.38 | 10.9 | 2.52 | 1.27 | 8.50 |
|   | T*9(C,V)*B12  | FC/MC/PC35B             | 18.0                 | 3.80 | 1.39 | 10.9 | 2.50 | 1.28 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC35C             | 18.0                 | 3.84 | 1.37 | 10.9 | 2.50 | 1.28 | 8.50 |
|   | T*9V*A10      | FC/MC/PC32A             | 17.9                 | 3.62 | 1.45 | 11.0 | 2.42 | 1.33 | 8.20 |
|   | T*9V*A10      | FC/MC/PC37A             | 18.0                 | 3.70 | 1.43 | 10.9 | 2.48 | 1.29 | 8.25 |
|   | C*(8,L)C*A12  | FC/MC/PC32A             | 18.0                 | 3.76 | 1.40 | 11.0 | 2.48 | 1.30 | 8.50 |
|   | C*(8,L)C*A12  | FC/MC/PC37A             | 18.0                 | 3.90 | 1.35 | 10.9 | 2.58 | 1.24 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC35B             | 18.0                 | 3.84 | 1.37 | 10.9 | 2.50 | 1.28 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC43B             | 18.0                 | 3.80 | 1.39 | 10.8 | 2.52 | 1.26 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC35C             | 18.0                 | 3.82 | 1.38 | 10.9 | 2.52 | 1.27 | 8.50 |
|   | C*9C*B12      | FC/MC/PC35B             | 18.0                 | 3.80 | 1.39 | 10.9 | 2.50 | 1.28 | 8.50 |
|   | C*9C*C16      | FC/MC/PC35C             | 18.0                 | 3.84 | 1.37 | 10.9 | 2.50 | 1.28 | 8.50 |
| THJF24S41S3   | T*(8,L)V*A12  | FC/MC/PC32A             | 22.2                 | 3.62 | 1.80 | 15.0 | 2.42 | 1.82 | 8.50 |
|   | T*(8,L)V*A12  | FC/MC/PC37A             | 22.4                 | 3.76 | 1.75 | 15.0 | 2.50 | 1.76 | 8.50 |
|   | T*(8,L)V*B12  | FC/MC/PC35B             | 22.0                 | 3.56 | 1.81 | 14.9 | 2.40 | 1.82 | 8.50 |
|   | T*(8,L)V*B12  | FC/MC/PC43B             | 22.0                 | 3.68 | 1.75 | 14.9 | 2.46 | 1.77 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC35C             | 22.2                 | 3.68 | 1.77 | 14.9 | 2.44 | 1.79 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC43C             | 22.2                 | 3.84 | 1.69 | 14.9 | 2.52 | 1.73 | 8.50 |
|   | T*(8,L)V*C20  | FC/MC/PC35C             | 21.8                 | 3.60 | 1.77 | 14.8 | 2.42 | 1.79 | 8.50 |
|   | T*(8,L)V*C20  | FC/MC/PC43C             | 22.0                 | 3.72 | 1.73 | 14.8 | 2.50 | 1.73 | 8.50 |
|   | T*9(C,V)*B12  | FC/MC/PC35B             | 22.2                 | 3.64 | 1.79 | 15.0 | 2.42 | 1.82 | 8.50 |
|   | T*9(C,V)*B12  | FC/MC/PC43B             | 22.2                 | 3.78 | 1.72 | 15.0 | 2.52 | 1.74 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC35C             | 22.2                 | 3.70 | 1.76 | 15.0 | 2.44 | 1.80 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC43C             | 22.2                 | 3.82 | 1.70 | 14.9 | 2.52 | 1.73 | 8.50 |
|   | T*9(C,V)*C20  | FC/MC/PC35C             | 22.0                 | 3.58 | 1.80 | 14.8 | 2.42 | 1.79 | 8.50 |
|   | T*9(C,V)*C20  | FC/MC/PC43C             | 22.4                 | 3.82 | 1.72 | 14.9 | 2.52 | 1.73 | 8.50 |
|   | T*9V*A10      | FC/MC/PC32A             | 22.4                 | 3.50 | 1.88 | 13.9 | 2.34 | 1.74 | 8.10 |
|   | T*9V*A10      | FC/MC/PC37A             | 22.6                 | 3.58 | 1.85 | 13.9 | 2.38 | 1.71 | 8.10 |
|   | C*(8,L)C*A12  | FC/MC/PC32A             | 22.2                 | 3.62 | 1.80 | 15.0 | 2.42 | 1.82 | 8.50 |
|   | C*(8,L)C*A12  | FC/MC/PC37A             | 22.4                 | 3.76 | 1.75 | 15.0 | 2.50 | 1.76 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC35B             | 22.0                 | 3.56 | 1.81 | 14.9 | 2.40 | 1.82 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC43B             | 22.0                 | 3.68 | 1.75 | 14.9 | 2.46 | 1.77 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC35C             | 22.2                 | 3.68 | 1.77 | 14.9 | 2.44 | 1.79 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC43C             | 22.2                 | 3.84 | 1.69 | 14.9 | 2.52 | 1.73 | 8.50 |
|   | C*(8,L)C*C20  | FC/MC/PC35C             | 21.8                 | 3.60 | 1.77 | 14.8 | 2.42 | 1.79 | 8.50 |
|   | C*(8,L)C*C20  | FC/MC/PC43C             | 22.0                 | 3.72 | 1.73 | 14.8 | 2.50 | 1.73 | 8.50 |
|   | C*9C*B12      | FC/MC/PC35B             | 22.2                 | 3.64 | 1.79 | 15.0 | 2.42 | 1.82 | 8.50 |
|   | C*9C*B12      | FC/MC/PC43B             | 22.2                 | 3.78 | 1.72 | 15.0 | 2.52 | 1.74 | 8.50 |
|   | C*9C*C16      | FC/MC/PC35C             | 22.2                 | 3.70 | 1.76 | 15.0 | 2.44 | 1.80 | 8.50 |
|   | C*9C*C16      | FC/MC/PC43C             | 22.2                 | 3.82 | 1.70 | 14.9 | 2.52 | 1.73 | 8.50 |
|   | C*9C*C20      | FC/MC/PC35C             | 22.0                 | 3.58 | 1.80 | 14.8 | 2.42 | 1.79 | 8.50 |
|   | C*9C*C20      | FC/MC/PC43C             | 22.4                 | 3.82 | 1.72 | 14.9 | 2.52 | 1.73 | 8.50 |

For notes, see Page 17.

## HEATING CAPACITY - With High Efficiency Motor Furnaces (Continued)

| MODEL   | FURNACE MODEL | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---|---------------|-------------------------|----------------------|------|------|------|------|------|------|
|   |               |                         | 47°F                 |      |      | 17°F |      |      | HSPF |
|   |               |                         | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>3</sup></b> |               |                         |                      |      |      |      |      |      |      |
| THJF30S41S3   | T*(8,L)V*A12  | FC/MC/PC37A             | 30.0                 | 3.80 | 2.31 | 19.1 | 2.62 | 2.14 | 8.50 |
|   | T*(8,L)V*B12  | FC/MC/PC43B             | 30.0                 | 3.86 | 2.28 | 18.9 | 2.66 | 2.08 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC43C             | 30.0                 | 3.92 | 2.24 | 18.7 | 2.70 | 2.03 | 9.00 |
|   | T*(8,L)V*C20  | FC/MC/PC43C             | 30.0                 | 3.94 | 2.23 | 18.7 | 2.72 | 2.01 | 9.00 |
|   | T*9(C,V)*B12  | FC/MC/PC43B             | 30.0                 | 3.84 | 2.29 | 19.0 | 2.64 | 2.11 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC43C             | 30.0                 | 3.90 | 2.25 | 18.9 | 2.68 | 2.07 | 9.00 |
|   | T*9(C,V)*C20  | FC/MC/PC43C             | 30.0                 | 3.90 | 2.25 | 18.8 | 2.70 | 2.04 | 9.00 |
|   | C*(8,L)C*A12  | FC/MC/PC37A             | 30.0                 | 3.80 | 2.31 | 19.1 | 2.62 | 2.14 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC43B             | 30.0                 | 3.86 | 2.28 | 18.9 | 2.66 | 2.08 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC43C             | 30.0                 | 3.92 | 2.24 | 18.7 | 2.70 | 2.03 | 9.00 |
|   | C*(8,L)C*C20  | FC/MC/PC43C             | 30.0                 | 3.94 | 2.23 | 18.7 | 2.72 | 2.01 | 9.00 |
|   | C*9C*B12      | FC/MC/PC43B             | 30.0                 | 3.84 | 2.29 | 19.0 | 2.64 | 2.11 | 8.50 |
|   | C*9C*C16      | FC/MC/PC43C             | 30.0                 | 3.90 | 2.25 | 18.9 | 2.68 | 2.07 | 9.00 |
| C*9C*C20  | FC/MC/PC43C   | 30.0                    | 3.90                 | 2.25 | 18.8 | 2.70 | 2.04 | 9.00 |      |
| THJF36S41S4   | T*(8,L)V*B12  | FC/MC/PC43B             | 34.8                 | 3.56 | 2.86 | 20.6 | 2.60 | 2.32 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC43C             | 34.4                 | 3.70 | 2.72 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | T*(8,L)V*C16  | FC/MC/PC48C             | 34.2                 | 3.70 | 2.71 | 20.0 | 2.76 | 2.12 | 9.00 |
|   | T*(8,L)V*C16  | FC/PC60C                | 34.6                 | 3.88 | 2.61 | 20.4 | 2.84 | 2.10 | 9.00 |
|   | T*(8,L)V*C16  | UC48C                   | 35.4                 | 3.90 | 2.66 | 20.8 | 2.82 | 2.16 | 9.00 |
|   | T*(8,L)V*C16  | UC60C                   | 35.2                 | 3.90 | 2.64 | 20.2 | 2.78 | 2.13 | 9.00 |
|   | T*(8,L)V*C20  | FC/MC/PC43C             | 34.4                 | 3.70 | 2.72 | 20.2 | 2.74 | 2.16 | 8.50 |
|   | T*(8,L)V*C20  | FC/MC/PC48C             | 34.0                 | 3.72 | 2.68 | 20.0 | 2.76 | 2.12 | 9.00 |
|   | T*(8,L)V*C20  | FC/PC60C                | 34.8                 | 3.84 | 2.66 | 20.4 | 2.82 | 2.12 | 9.00 |
|   | T*(8,L)V*C20  | UC48C                   | 35.4                 | 3.92 | 2.65 | 20.6 | 2.86 | 2.11 | 9.00 |
|   | T*(8,L)V*C20  | UC60C                   | 35.2                 | 3.88 | 2.66 | 20.2 | 2.76 | 2.14 | 9.00 |
|   | T*9(C,V)*B12  | FC/MC/PC43B             | 34.8                 | 3.58 | 2.85 | 20.6 | 2.64 | 2.29 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC43C             | 34.8                 | 3.62 | 2.82 | 20.4 | 2.66 | 2.25 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC/PC48C             | 34.2                 | 3.66 | 2.74 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | T*9(C,V)*C16  | FC/PC60C                | 35.0                 | 3.76 | 2.73 | 20.8 | 2.74 | 2.22 | 8.50 |
|   | T*9(C,V)*C16  | UC48C                   | 35.6                 | 3.86 | 2.70 | 20.8 | 2.80 | 2.18 | 8.50 |
|   | T*9(C,V)*C16  | UC60C                   | 35.6                 | 3.80 | 2.74 | 20.4 | 2.70 | 2.21 | 8.20 |
|   | T*9(C,V)*C20  | FC/MC/PC43C             | 34.6                 | 3.68 | 2.75 | 20.2 | 2.70 | 2.19 | 8.50 |
|   | T*9(C,V)*C20  | FC/MC/PC48C             | 35.0                 | 3.68 | 2.79 | 20.6 | 2.70 | 2.24 | 8.50 |
|   | T*9(C,V)*C20  | FC/PC60C                | 35.6                 | 3.84 | 2.72 | 21.0 | 2.76 | 2.23 | 8.50 |
|   | T*9(C,V)*C20  | UC48C                   | 36.4                 | 3.88 | 2.75 | 21.4 | 2.76 | 2.27 | 8.50 |
|   | T*9(C,V)*C20  | UC60C                   | 36.0                 | 3.86 | 2.73 | 20.8 | 2.72 | 2.24 | 8.50 |
|   | T*9(C,V)*D20  | FC/MC/PC48D             | 34.2                 | 3.68 | 2.72 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | T*9(C,V)*D20  | FC/MC/PC60D             | 34.8                 | 3.82 | 2.67 | 20.6 | 2.80 | 2.16 | 8.50 |
|   | T*9(C,V)*D20  | UC48D                   | 35.4                 | 3.88 | 2.67 | 20.8 | 2.80 | 2.18 | 9.00 |
|   | T*9(C,V)*D20  | UC60D                   | 35.4                 | 3.86 | 2.69 | 20.2 | 2.74 | 2.16 | 8.50 |
|   | C*(8,L)C*A12  | FC/MC/PC37A             | 34.8                 | 3.58 | 2.85 | 20.6 | 2.64 | 2.29 | 8.50 |
|   | C*(8,L)C*B12  | FC/MC/PC43B             | 34.8                 | 3.56 | 2.86 | 20.6 | 2.60 | 2.32 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC43C             | 34.4                 | 3.70 | 2.72 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC/PC48C             | 34.2                 | 3.70 | 2.71 | 20.0 | 2.76 | 2.12 | 9.00 |
|   | C*(8,L)C*C16  | FC/PC60C                | 34.6                 | 3.88 | 2.61 | 20.4 | 2.84 | 2.10 | 9.00 |
|   | C*(8,L)C*C16  | UC48C                   | 35.4                 | 3.90 | 2.66 | 20.8 | 2.82 | 2.16 | 9.00 |
|   | C*(8,L)C*C16  | UC60C                   | 35.2                 | 3.90 | 2.64 | 20.2 | 2.78 | 2.13 | 9.00 |
| C*(8,L)C*C20  | FC/MC/PC43C   | 34.4                    | 3.70                 | 2.72 | 20.2 | 2.74 | 2.16 | 8.50 |      |

For notes, see Page 17.

## HEATING CAPACITY - With High Efficiency Motor Furnaces (Continued)

| MODEL   | FURNACE MODEL | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---|---------------|-------------------------|----------------------|------|------|------|------|------|------|
|   |               |                         | 47°F                 |      |      | 17°F |      |      | HSPF |
|   |               |                         | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>3</sup></b> |               |                         |                      |      |      |      |      |      |      |
| THJF36S41S4   | C*(8,L)C*C20  | FC/MC/PC48C             | 34.0                 | 3.72 | 2.68 | 20.0 | 2.76 | 2.12 | 9.00 |
|   | C*(8,L)C*C20  | FC/PC60C                | 34.8                 | 3.84 | 2.66 | 20.4 | 2.82 | 2.12 | 9.00 |
|   | C*(8,L)C*C20  | UC48C                   | 35.4                 | 3.92 | 2.65 | 20.6 | 2.86 | 2.11 | 9.00 |
|   | C*(8,L)C*C20  | UC60C                   | 35.2                 | 3.88 | 2.66 | 20.2 | 2.76 | 2.14 | 9.00 |
|   | C*9C*B12      | FC/MC/PC43B             | 34.8                 | 3.58 | 2.85 | 20.6 | 2.64 | 2.29 | 8.50 |
|   | C*9C*C16      | FC/MC/PC43C             | 34.8                 | 3.62 | 2.82 | 20.4 | 2.66 | 2.25 | 8.50 |
|   | C*9C*C16      | FC/MC/PC48C             | 34.2                 | 3.66 | 2.74 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | C*9C*C16      | FC/PC60C                | 35.0                 | 3.76 | 2.73 | 20.8 | 2.74 | 2.22 | 8.50 |
|   | C*9C*C16      | UC48C                   | 35.6                 | 3.86 | 2.70 | 20.8 | 2.80 | 2.18 | 8.50 |
|   | C*9C*C16      | UC60C                   | 35.6                 | 3.80 | 2.74 | 20.4 | 2.70 | 2.21 | 8.20 |
|   | C*9C*C20      | FC/MC/PC43C             | 34.6                 | 3.68 | 2.75 | 20.2 | 2.70 | 2.19 | 8.50 |
|   | C*9C*C20      | FC/MC/PC48C             | 35.0                 | 3.68 | 2.79 | 20.6 | 2.70 | 2.24 | 8.50 |
|   | C*9C*C20      | FC/PC60C                | 35.6                 | 3.84 | 2.72 | 21.0 | 2.76 | 2.23 | 8.50 |
|   | C*9C*C20      | UC48C                   | 36.4                 | 3.88 | 2.75 | 21.4 | 2.76 | 2.27 | 8.50 |
|   | C*9C*C20      | UC60C                   | 36.0                 | 3.86 | 2.73 | 20.8 | 2.72 | 2.24 | 8.50 |
|   | C*9C*D20      | FC/MC/PC48D             | 34.2                 | 3.68 | 2.72 | 20.2 | 2.72 | 2.18 | 8.50 |
|   | C*9C*D20      | FC/MC/PC60D             | 34.8                 | 3.82 | 2.67 | 20.6 | 2.80 | 2.16 | 8.50 |
| C*9C*D20  | UC48D         | 35.4                    | 3.88                 | 2.67 | 20.8 | 2.80 | 2.18 | 9.00 |      |
| C*9C*D20  | UC60D         | 35.4                    | 3.86                 | 2.69 | 20.2 | 2.74 | 2.16 | 8.50 |      |
| THJF42S41S5   | T*(8,L)V*C16  | FC/MC62D                | 39.5                 | 3.74 | 3.09 | 25.8 | 2.62 | 2.89 | 8.50 |
|   | T*(8,L)V*C16  | FC/PC60C                | 39.5                 | 3.72 | 3.11 | 25.4 | 2.66 | 2.80 | 9.00 |
|   | T*(8,L)V*C16  | UC60C                   | 39.0                 | 3.68 | 3.11 | 25.6 | 2.56 | 2.93 | 8.50 |
|   | T*(8,L)V*C20  | FC/MC62D                | 39.0                 | 3.70 | 3.09 | 25.6 | 2.62 | 2.86 | 8.50 |
|   | T*(8,L)V*C20  | FC/PC60C                | 40.0                 | 3.82 | 3.07 | 25.4 | 2.68 | 2.78 | 9.00 |
|   | T*(8,L)V*C20  | UC60C                   | 39.0                 | 3.70 | 3.09 | 25.6 | 2.58 | 2.91 | 8.50 |
|   | T*9(C,V)*C16  | FC/MC62D                | 40.0                 | 3.68 | 3.18 | 26.0 | 2.58 | 2.95 | 8.50 |
|   | T*9(C,V)*C16  | FC/PC60C                | 40.5                 | 3.76 | 3.16 | 25.8 | 2.64 | 2.86 | 8.50 |
|   | T*9(C,V)*C16  | UC60C                   | 39.5                 | 3.60 | 3.21 | 26.0 | 2.50 | 3.05 | 8.50 |
|   | T*9(C,V)*C20  | FC/MC62D                | 39.5                 | 3.72 | 3.11 | 26.0 | 2.62 | 2.91 | 8.50 |
|   | T*9(C,V)*C20  | FC/PC60C                | 40.5                 | 3.84 | 3.09 | 25.8 | 2.66 | 2.84 | 8.50 |
|   | T*9(C,V)*C20  | UC60C                   | 39.5                 | 3.64 | 3.18 | 25.8 | 2.54 | 2.98 | 8.50 |
|   | T*9(C,V)*D20  | FC/MC/PC60D             | 40.0                 | 3.82 | 3.07 | 25.6 | 2.68 | 2.80 | 8.50 |
|   | T*9(C,V)*D20  | FC/MC62D                | 39.5                 | 3.76 | 3.08 | 25.8 | 2.64 | 2.86 | 8.50 |
|   | T*9(C,V)*D20  | UC60D                   | 39.5                 | 3.68 | 3.14 | 25.6 | 2.56 | 2.93 | 8.50 |
|   | C*(8,L)C*C16  | FC/MC62D                | 39.5                 | 3.74 | 3.09 | 25.8 | 2.62 | 2.89 | 8.50 |
|   | C*(8,L)C*C16  | FC/PC60C                | 39.5                 | 3.72 | 3.11 | 25.4 | 2.66 | 2.80 | 9.00 |
|   | C*(8,L)C*C16  | UC60C                   | 39.0                 | 3.68 | 3.11 | 25.6 | 2.56 | 2.93 | 8.50 |
|   | C*(8,L)C*C20  | FC/MC62D                | 39.0                 | 3.70 | 3.09 | 25.6 | 2.62 | 2.86 | 8.50 |
|   | C*(8,L)C*C20  | FC/PC60C                | 40.0                 | 3.82 | 3.07 | 25.4 | 2.68 | 2.78 | 9.00 |
|   | C*(8,L)C*C20  | UC60C                   | 39.0                 | 3.70 | 3.09 | 25.6 | 2.58 | 2.91 | 8.50 |
|   | C*9C*C16      | FC/MC62D                | 40.0                 | 3.68 | 3.18 | 26.0 | 2.58 | 2.95 | 8.50 |
|   | C*9C*C16      | FC/PC60C                | 40.5                 | 3.76 | 3.16 | 25.8 | 2.64 | 2.86 | 8.50 |
|   | C*9C*C16      | UC60C                   | 39.5                 | 3.60 | 3.21 | 26.0 | 2.50 | 3.05 | 8.50 |
|   | C*9C*C20      | FC/MC62D                | 39.5                 | 3.72 | 3.11 | 26.0 | 2.62 | 2.91 | 8.50 |
|   | C*9C*C20      | FC/PC60C                | 40.5                 | 3.84 | 3.09 | 25.8 | 2.66 | 2.84 | 8.50 |
|   | C*9C*C20      | UC60C                   | 39.5                 | 3.64 | 3.18 | 25.8 | 2.54 | 2.98 | 8.50 |
| C*9C*D20  | FC/MC/PC60D   | 40.0                    | 3.82                 | 3.07 | 25.6 | 2.68 | 2.80 | 8.50 |      |
| C*9C*D20  | FC/MC62D      | 39.5                    | 3.76                 | 3.08 | 25.8 | 2.64 | 2.86 | 8.50 |      |
| C*9C*D20  | UC60D         | 39.5                    | 3.68                 | 3.14 | 25.6 | 2.56 | 2.93 | 8.50 |      |

For notes, see Page 17.



## HEATING CAPACITY - With High Efficiency Motor Furnaces (Continued)

| MODEL   | FURNACE MODEL | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |      |      |      |      |      |      |
|---|---------------|-------------------------|----------------------|------|------|------|------|------|------|
|   |               |                         | 47°F                 |      |      | 17°F |      |      | HSPF |
|   |               |                         | MBH                  | COP  | KW   | MBH  | COP  | KW   | STD  |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>3</sup></b> |               |                         |                      |      |      |      |      |      |      |
| THJF48S41S5   | T*(8,L)V*C16  | FC/MC62D                | 48.0                 | 3.78 | 3.72 | 30.8 | 2.62 | 3.44 | 8.20 |
|   | T*(8,L)V*C16  | FC/PC60C                | 48.0                 | 3.56 | 3.95 | 29.2 | 2.44 | 3.51 | 8.20 |
|   | T*(8,L)V*C16  | FC64D                   | 48.0                 | 3.90 | 3.76 | 31.2 | 2.68 | 3.41 | 9.00 |
|   | T*(8,L)V*C20  | FC/MC62D                | 47.5                 | 3.72 | 3.74 | 30.6 | 2.60 | 3.45 | 8.50 |
|   | T*(8,L)V*C20  | FC/PC60C                | 47.5                 | 3.32 | 4.19 | 29.2 | 2.32 | 3.69 | 8.20 |
|   | T*(8,L)V*C20  | FC64D                   | 48.0                 | 3.90 | 3.76 | 31.0 | 2.70 | 3.36 | 9.00 |
|   | T*9(C,V)*C16  | FC/MC62D                | 48.0                 | 3.74 | 3.76 | 31.0 | 2.58 | 3.52 | 8.20 |
|   | T*9(C,V)*C16  | FC/PC60C                | 48.0                 | 3.50 | 4.06 | 29.6 | 2.42 | 3.58 | 8.00 |
|   | T*9(C,V)*C16  | FC64D                   | 48.0                 | 3.82 | 3.87 | 31.6 | 2.64 | 3.51 | 9.00 |
|   | T*9(C,V)*C20  | FC/MC62D                | 48.0                 | 3.78 | 3.72 | 30.8 | 2.62 | 3.44 | 8.20 |
|   | T*9(C,V)*C20  | FC/PC60C                | 48.0                 | 3.54 | 3.97 | 29.4 | 2.44 | 3.53 | 8.20 |
|   | T*9(C,V)*C20  | FC64D                   | 48.0                 | 3.88 | 3.81 | 31.4 | 2.66 | 3.46 | 9.00 |
|   | T*9(C,V)*D20  | FC/MC/PC60D             | 48.0                 | 3.56 | 3.95 | 29.2 | 2.46 | 3.48 | 8.20 |
|   | T*9(C,V)*D20  | FC/MC62D                | 48.0                 | 3.80 | 3.70 | 30.8 | 2.64 | 3.42 | 8.50 |
|   | T*9(C,V)*D20  | FC64D                   | 48.0                 | 3.90 | 3.76 | 31.2 | 2.68 | 3.41 | 9.00 |
|   | C*(8,L)C*C16  | FC/MC62D                | 48.0                 | 3.78 | 3.72 | 30.8 | 2.62 | 3.44 | 8.20 |
|   | C*(8,L)C*C16  | FC/PC60C                | 48.0                 | 3.56 | 3.95 | 29.2 | 2.44 | 3.51 | 8.20 |
|   | C*(8,L)C*C16  | FC64D                   | 48.0                 | 3.90 | 3.76 | 31.2 | 2.68 | 3.41 | 9.00 |
|   | C*(8,L)C*C20  | FC/MC62D                | 47.5                 | 3.72 | 3.74 | 30.6 | 2.60 | 3.45 | 8.50 |
|   | C*(8,L)C*C20  | FC/PC60C                | 47.5                 | 3.32 | 4.19 | 29.2 | 2.32 | 3.69 | 8.20 |
|   | C*(8,L)C*C20  | FC64D                   | 48.0                 | 3.90 | 3.76 | 31.0 | 2.70 | 3.36 | 9.00 |
|   | C*9C*C16      | FC/MC62D                | 48.0                 | 3.74 | 3.76 | 31.0 | 2.58 | 3.52 | 8.20 |
|   | C*9C*C16      | FC/PC60C                | 48.0                 | 3.50 | 4.06 | 29.6 | 2.42 | 3.58 | 8.00 |
|   | C*9C*C16      | FC64D                   | 48.0                 | 3.82 | 3.87 | 31.6 | 2.64 | 3.51 | 9.00 |
|   | C*9C*C20      | FC/MC62D                | 48.0                 | 3.78 | 3.72 | 30.8 | 2.62 | 3.44 | 8.20 |
|   | C*9C*C20      | FC/PC60C                | 48.0                 | 3.54 | 3.97 | 29.4 | 2.44 | 3.53 | 8.20 |
|   | C*9C*C20      | FC64D                   | 48.0                 | 3.88 | 3.81 | 31.4 | 2.66 | 3.46 | 9.00 |
|   | C*9C*D20      | FC/MC/PC60D             | 48.0                 | 3.56 | 3.95 | 29.2 | 2.46 | 3.48 | 8.20 |
| C*9C*D20  | FC/MC62D      | 48.0                    | 3.80                 | 3.70 | 30.8 | 2.64 | 3.42 | 8.50 |      |
| C*9C*D20  | FC64D         | 48.0                    | 3.90                 | 3.76 | 31.2 | 2.68 | 3.41 | 9.00 |      |

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

2. Heating MBH based on AHRI standards of 70 °F DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

3. High Efficiency Motor Furnaces have B.O.D (Blower on Delay) standard.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

PSC furnaces, such as the TG8S, TGLS, and TG9S, use Coil Only Ratings.

— = Not Applicable.

**HEATING CAPACITY - With High Efficiency Motor Furnaces**

| UNIT MODEL  | FURNACE MODEL | COIL <sup>1</sup> MODEL | HEATING <sup>2</sup> |           |         |       |      |          |
|---|---------------|-------------------------|----------------------|-----------|---------|-------|------|----------|
|   |               |                         | STAGE                | RATED CFM | NET MBH |       | HSPF | COP @ 47 |
|   |               |                         |                      |           | 47 OD   | 17 OD |      |          |
| <b>14.5 SEER HP WITH HIGH EFFICIENCY MOTOR FURNACES<sup>3</sup></b> |               |                         |                      |           |         |       |      |          |
| THJF60S41S3   | T*(8,L)V*C20  | FC/MC62D                | 1                    | 1015      | 42.5    | —     | —    | 3.20     |
|   |               |                         | 2                    | 1615      | 57.0    | 40.0  | 9.00 | 3.58     |
|   |               |                         | 2*                   | 1015      | 55.6    | 39.0  | 8.75 | 2.86     |
|   | T*(8,L)V*C20  | FC64D                   | 1                    | 1015      | 42.5    | —     | —    | 3.26     |
|   |               |                         | 2                    | 1615      | 60.0    | 40.0  | 9.00 | 3.66     |
|   |               |                         | 2*                   | 1015      | 57.0    | 39.0  | 8.70 | 2.92     |
|   | T*9(C,V)*C20  | FC/MC62D                | 1                    | 1040      | 43.0    | —     | —    | 3.20     |
|   |               |                         | 2                    | 1655      | 57.0    | 40.5  | 9.00 | 3.54     |
|   |               |                         | 2*                   | 1040      | 54.9    | 39.0  | 8.70 | 2.88     |
|   | T*9(C,V)*C20  | FC64D                   | 1                    | 1040      | 42.5    | —     | —    | 3.26     |
|   |               |                         | 2                    | 1655      | 60.0    | 40.5  | 9.00 | 3.62     |
|   |               |                         | 2*                   | 1040      | 57.5    | 39.0  | 8.60 | 2.94     |
|   | T*9(C,V)*D20  | FC/MC62D                | 1                    | 1085      | 43.0    | —     | —    | 3.26     |
|   |               |                         | 2                    | 1630      | 57.0    | 40.0  | 9.00 | 3.54     |
|   |               |                         | 2*                   | 1085      | 55.6    | 39.0  | 8.65 | 2.94     |
|   | T*9(C,V)*D20  | FC64D                   | 1                    | 1085      | 43.0    | —     | —    | 3.32     |
|   |               |                         | 2                    | 1630      | 60.0    | 40.5  | 9.00 | 3.66     |
|   |               |                         | 2*                   | 1085      | 58.0    | 39.5  | 8.65 | 3.00     |
|   | C*(8,L)C*C20  | FC/MC62D                | 1                    | 1015      | 42.5    | —     | —    | 3.20     |
|   |               |                         | 2                    | 1615      | 57.0    | 40.0  | 9.00 | 3.58     |
|   |               |                         | 2*                   | 1015      | 55.6    | 39.0  | 8.75 | 2.86     |
|   | C*(8,L)C*C20  | FC64D                   | 1                    | 1015      | 42.5    | —     | —    | 3.26     |
|   |               |                         | 2                    | 1615      | 60.0    | 40.0  | 9.00 | 3.66     |
|   |               |                         | 2*                   | 1015      | 57.0    | 39.0  | 8.70 | 2.92     |
|   | C*9C*C20      | FC/MC62D                | 1                    | 1040      | 43.0    | —     | —    | 3.20     |
|   |               |                         | 2                    | 1655      | 57.0    | 40.5  | 9.00 | 3.54     |
|   |               |                         | 2*                   | 1040      | 54.9    | 39.0  | 8.70 | 2.88     |
|   | C*9C*C20      | FC64D                   | 1                    | 1040      | 42.5    | —     | —    | 3.26     |
|   |               |                         | 2                    | 1655      | 60.0    | 40.5  | 9.00 | 3.62     |
|   |               |                         | 2*                   | 1040      | 57.5    | 39.0  | 8.60 | 2.94     |
| C*9C*D20  | FC/MC62D      | 1                       | 1085                 | 43.0      | —       | —     | 3.26 |          |
|   |               | 2                       | 1630                 | 57.0      | 40.0    | 9.00  | 3.54 |          |
|   |               | 2*                      | 1085                 | 55.6      | 39.0    | 8.65  | 2.94 |          |
| C*9C*D20  | FC64D         | 1                       | 1085                 | 43.0      | —       | —     | 3.32 |          |
|   |               | 2                       | 1630                 | 60.0      | 40.5    | 9.00  | 3.66 |          |
|   |               | 2*                      | 1085                 | 58.0      | 39.5    | 8.65  | 3.00 |          |

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

2. Heating MBH based on AHRI standards of 70 °F DB (Dry Bulb) entering indoor air, 72% RH (Relative Humidity) outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

3. High Efficiency Motor Furnaces have B.O.D (Blower on Delay) standard.

\* Notates "Hot Heat Pump" performance. These ratings are not AHRI Listed.

COP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

PSC furnaces, such as the TG8S, TGLS, and TG9S, use Coil Only Ratings.

— = Not Applicable.

## ACCESSORIES

Refer to Price Manual for specific model numbers.

**Start Assist Kit** - Provides increased starting torque for areas with low voltage. See Hard Start Kit Accessory Installation Manual for Hard Start Kit part number for each model.

**Blower Time Delay** - Available to increase efficiency when installed. Installs on indoor section and maintains blower for approximately one minute after cooling thermostat has been satisfied.

**Low Temperature Cutout (S1-2LT06700224)** - Prevents heat pump operation below -10°F ambient temperature.

**Compressor Blanket** - Designed to further reduce the normal operating sound.

**TXV Kits** - S1-1TVM series thermal expansion valves precisely meter refrigerant for optimum performance over a wide range of conditions. See System Charge table for TXV part number for each model.

**Outdoor Thermostat (S1-2TD06700124)** - Provides additional staging of supplemental electric heat.

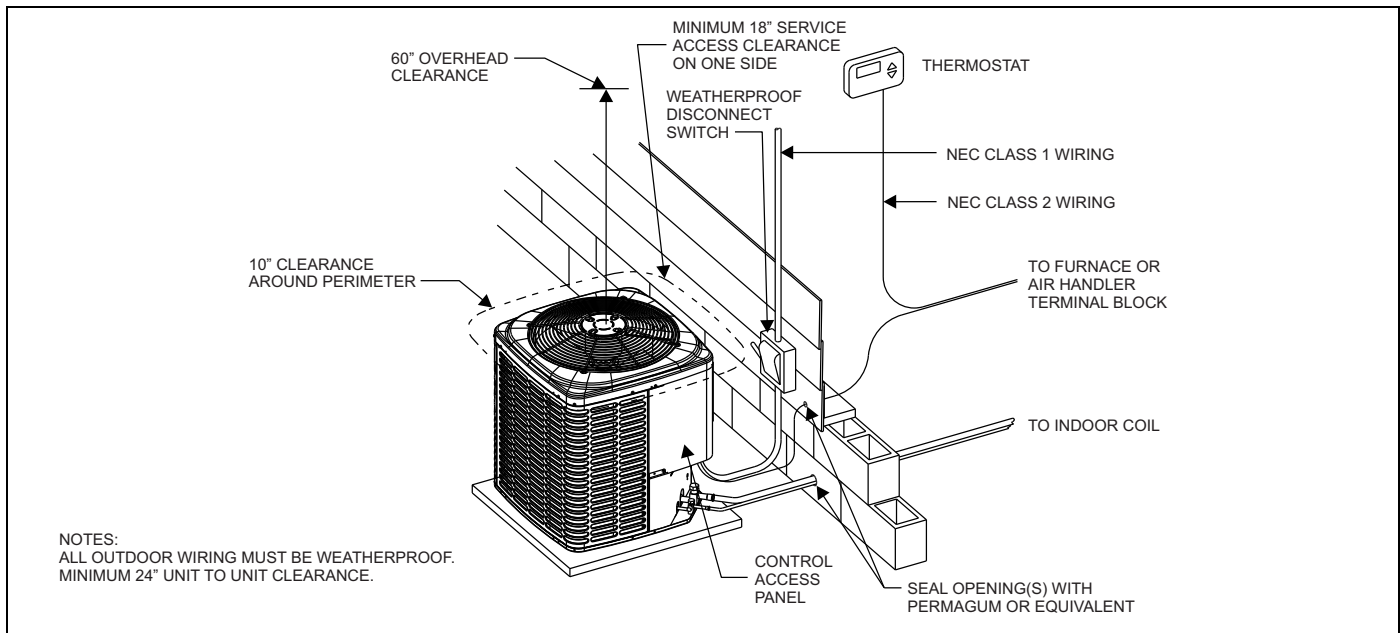
**Thermostats** - Compatible thermostat controls are available through accessory sourcing. For optimum performance and installation, refer to the UPGNET "Low Voltage Wiring Diagram" document to select and apply controls.

## SOUND LEVEL - TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)

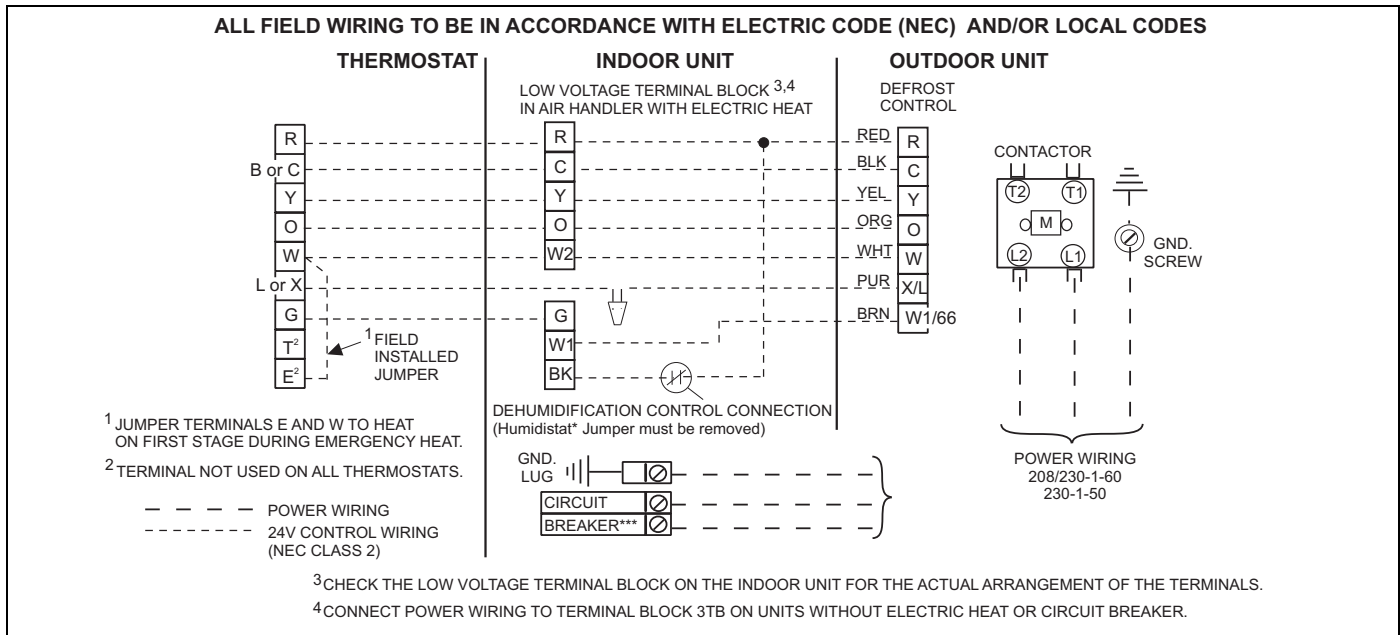
| Size | Test Condition            | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dBA | SQI  |
|------|---------------------------|----|-----|-----|-----|------|------|------|------|-----|------|
| 18   | Cooling Mode              | 67 | 69  | 65  | 67  | 66   | 62   | 58   | 52   | 70  | 19.2 |
|      | Heating Mode              | 69 | 69  | 64  | 66  | 67   | 60   | 56   | 53   | 70  | 19.2 |
| 24   | Cooling Mode              | 70 | 73  | 64  | 65  | 66   | 61   | 59   | 52   | 70  | 19.0 |
|      | Heating Mode              | 72 | 72  | 65  | 68  | 68   | 62   | 60   | 53   | 72  | 19.0 |
| 30   | Cooling Mode              | 71 | 69  | 64  | 65  | 66   | 60   | 56   | 51   | 69  | 19.0 |
|      | Heating Mode              | 72 | 70  | 68  | 67  | 69   | 63   | 58   | 53   | 72  | 19.0 |
| 36   | Cooling Mode              | 72 | 73  | 71  | 72  | 73   | 67   | 66   | 63   | 76  | 19.0 |
|      | Heating Mode              | 70 | 72  | 69  | 70  | 71   | 69   | 65   | 64   | 75  | 19.1 |
| 42   | Cooling Mode              | 71 | 69  | 65  | 68  | 69   | 66   | 63   | 57   | 73  | 19.1 |
|      | Heating Mode              | 70 | 69  | 68  | 69  | 69   | 65   | 62   | 60   | 73  | 19.0 |
| 48   | Cooling Mode              | 72 | 70  | 67  | 68  | 70   | 61   | 55   | 53   | 72  | 19.1 |
|      | Heating Mode              | 70 | 73  | 70  | 70  | 71   | 64   | 62   | 60   | 74  | 19.1 |
| 60   | Cooling Mode - High Stage | 71 | 69  | 71  | 73  | 71   | 61   | 58   | 53   | 75  | 19.1 |
|      | Heating Mode - High Stage | 72 | 73  | 70  | 71  | 72   | 63   | 62   | 57   | 75  | 19.1 |

Rated in accordance with ARI Standard 270.

**TYPICAL INSTALLATION**



**TYPICAL FIELD WIRING**



| <b>COOLING PERFORMANCE DATA</b>            |                   |                    |      |      |      |      |            |      |      |      |      |            |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>           |                   | <b>THJF18S41S3</b> |      |      |      |      |            |      |      |      |      |            |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>               |                   | <b>AHX30</b>       |      |      |      |      |            |      |      |      |      |            |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b> | <b>IDCFM</b>      | <b>400</b>         |      |      |      |      | <b>600</b> |      |      |      |      | <b>800</b> |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80         | 80   | 75   | 80   | 80   | 80         | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57         | 62   | 62   | 67   | 72   | 57         | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 17.2               | 18.8 | 18.8 | 20.5 | 22.2 | 19.2       | 19.9 | 20.1 | 21.7 | 22.9 | 21.2       | 20.9 | 21.3 | 22.8 | 23.6 |
|  | S.C.              | 16.8               | 14.9 | 12.9 | 12.9 | 11.0 | 18.8       | 17.7 | 15.2 | 14.7 | 11.7 | 20.8       | 20.5 | 17.4 | 16.5 | 12.5 |
|  | KW                | 0.86               | 0.89 | 0.89 | 0.88 | 0.88 | 0.94       | 0.96 | 0.96 | 0.95 | 0.95 | 1.02       | 1.02 | 1.02 | 1.02 | 1.02 |
| 75   | T.C.              | 16.4               | 17.9 | 17.9 | 19.7 | 21.3 | 18.4       | 19.1 | 19.0 | 20.8 | 22.1 | 20.4       | 20.2 | 20.2 | 21.8 | 22.9 |
|  | S.C.              | 16.1               | 14.5 | 12.5 | 12.5 | 10.5 | 18.0       | 17.1 | 14.8 | 14.4 | 11.5 | 20.0       | 19.8 | 17.0 | 16.3 | 12.4 |
|  | KW                | 0.99               | 1.02 | 1.02 | 1.02 | 1.02 | 1.08       | 1.09 | 1.09 | 1.09 | 1.10 | 1.17       | 1.16 | 1.17 | 1.17 | 1.18 |
| 85   | T.C.              | 15.7               | 17.0 | 17.0 | 18.9 | 20.4 | 17.7       | 18.3 | 18.0 | 19.9 | 21.3 | 19.6       | 19.5 | 19.1 | 20.8 | 22.1 |
|  | S.C.              | 15.4               | 14.1 | 12.1 | 12.1 | 10.1 | 17.3       | 16.6 | 14.3 | 14.2 | 11.2 | 19.2       | 19.1 | 16.6 | 16.2 | 12.2 |
|  | KW                | 1.12               | 1.14 | 1.14 | 1.15 | 1.17 | 1.22       | 1.23 | 1.22 | 1.24 | 1.25 | 1.31       | 1.31 | 1.31 | 1.32 | 1.33 |
| 95   | T.C.              | 15.0               | 16.1 | 16.1 | 18.1 | 19.6 | 16.9       | 17.4 | 17.0 | 19.0 | 20.4 | 18.8       | 18.8 | 18.0 | 19.8 | 21.3 |
|  | S.C.              | 14.7               | 13.7 | 11.6 | 11.8 | 9.7  | 16.5       | 16.0 | 13.9 | 13.9 | 10.9 | 18.4       | 18.4 | 16.2 | 16.0 | 12.1 |
|  | KW                | 1.25               | 1.26 | 1.26 | 1.29 | 1.31 | 1.36       | 1.36 | 1.36 | 1.38 | 1.40 | 1.46       | 1.46 | 1.45 | 1.46 | 1.49 |
| 105  | T.C.              | 14.0               | 14.7 | 14.8 | 16.7 | 18.4 | 15.9       | 16.2 | 15.7 | 17.6 | 19.2 | 17.7       | 17.7 | 16.6 | 18.5 | 20.1 |
|  | S.C.              | 13.7               | 13.1 | 11.0 | 11.2 | 9.2  | 15.5       | 15.2 | 13.3 | 13.4 | 10.4 | 17.3       | 17.3 | 15.6 | 15.6 | 11.6 |
|  | KW                | 1.41               | 1.42 | 1.42 | 1.45 | 1.48 | 1.52       | 1.52 | 1.51 | 1.54 | 1.57 | 1.63       | 1.63 | 1.61 | 1.63 | 1.65 |
| 115  | T.C.              | 13.1               | 13.4 | 13.4 | 15.4 | 17.2 | 14.8       | 15.0 | 14.4 | 16.2 | 18.0 | 16.6       | 16.6 | 15.3 | 17.1 | 18.8 |
|  | S.C.              | 12.8               | 12.5 | 10.5 | 10.6 | 8.7  | 14.5       | 14.4 | 12.7 | 12.9 | 9.9  | 16.2       | 16.2 | 15.0 | 15.1 | 11.2 |
|  | KW                | 1.56               | 1.57 | 1.57 | 1.60 | 1.65 | 1.68       | 1.68 | 1.67 | 1.70 | 1.74 | 1.80       | 1.80 | 1.77 | 1.80 | 1.82 |
| 125  | T.C.              | 12.2               | 12.1 | 12.1 | 14.0 | 16.1 | 13.8       | 13.8 | 13.0 | 14.9 | 16.8 | 15.5       | 15.5 | 14.0 | 15.7 | 17.5 |
|  | S.C.              | 11.9               | 11.9 | 9.9  | 10.1 | 8.2  | 13.5       | 13.5 | 12.1 | 12.3 | 9.5  | 15.1       | 15.1 | 14.0 | 14.6 | 10.7 |
|  | KW                | 1.72               | 1.72 | 1.72 | 1.76 | 1.82 | 1.84       | 1.84 | 1.82 | 1.87 | 1.90 | 1.97       | 1.97 | 1.92 | 1.97 | 1.99 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| –                  | FC/MC/PC32  | 0.96        | 0.94        | 1.11      |
| –                  | FC/MC/PC35  | 0.96        | 0.94        | 1.11      |
| –                  | FC/MC/PC37  | 0.96        | 0.95        | 1.11      |
| –                  | FC/MC/PC43  | 0.96        | 0.95        | 1.11      |
| AHE24B             | –           | 0.98        | 0.96        | 1.00      |
| AHE30B             | –           | 0.98        | 0.96        | 1.01      |
| AHR24B             | –           | 0.96        | 0.94        | 1.11      |
| AHV24B             | –           | 0.98        | 0.96        | 1.01      |
| AHV30B             | –           | 1.01        | 1.05        | 1.04      |
| AHV36C             | –           | 1.01        | 1.04        | 1.02      |
| AV*36              | –           | 1.00        | 1.01        | 1.00      |
| MV12B              | FC/MC35B    | 0.98        | 0.96        | 1.02      |
| MV12B              | FC/MC43B    | 0.98        | 0.97        | 1.02      |
| MX12B              | FC/MC35B    | 1.01        | 1.03        | 0.99      |
| MX12B              | FC/MC43B    | 0.99        | 0.98        | 1.00      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*A12   | FC/MC/PC32A | 0.98        | 0.96        | 1.02      |
| T*(8,L)V*A12   | FC/MC/PC37A | 0.99        | 1.01        | 1.02      |
| T*(8,L)V*B12   | FC/MC/PC35B | 0.99        | 0.99        | 1.02      |
| T*(8,L)V*B12   | FC/MC/PC43B | 0.97        | 0.96        | 1.01      |
| T*(8,L)V*C16   | FC/MC/PC35C | 0.99        | 1.01        | 1.01      |
| T*9(C,V)*B12   | FC/MC/PC35B | 0.97        | 0.95        | 1.01      |
| T*9(C,V)*C16   | FC/MC/PC35C | 0.99        | 1.01        | 1.01      |
| T*9V*A10       | FC/MC/PC32A | 0.98        | 0.96        | 1.03      |
| T*9V*A10       | FC/MC/PC37A | 0.97        | 0.95        | 1.03      |
| C*(8,L)C*A12   | FC/MC/PC32A | 0.98        | 0.96        | 1.02      |
| C*(8,L)C*A12   | FC/MC/PC37A | 0.99        | 1.01        | 1.02      |
| C*(8,L)C*B12   | FC/MC/PC35B | 0.99        | 0.99        | 1.02      |
| C*(8,L)C*B12   | FC/MC/PC43B | 0.97        | 0.96        | 1.01      |
| C*(8,L)C*C16   | FC/MC/PC35C | 0.99        | 1.01        | 1.01      |
| C*9C*B12       | FC/MC/PC35B | 0.97        | 0.95        | 1.01      |
| C*9C*C16       | FC/MC/PC35C | 0.99        | 1.01        | 1.01      |

| <b>COOLING PERFORMANCE DATA</b>            |                   |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>           |                   | <b>THJF24S41S3</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>               |                   | <b>AHX30</b>       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b> | <b>IDCFM</b>      | 600                |      |      |      |      | 800  |      |      |      |      | 1000 |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 21.7               | 23.6 | 23.5 | 25.2 | 26.6 | 23.4 | 24.1 | 24.3 | 26.0 | 27.2 | 25.1 | 24.6 | 25.1 | 26.9 | 27.8 |
|  | S.C.              | 21.4               | 19.4 | 16.6 | 16.2 | 13.7 | 23.1 | 21.8 | 18.5 | 17.9 | 14.3 | 24.8 | 24.3 | 20.5 | 19.5 | 15.0 |
|  | KW                | 1.20               | 1.22 | 1.22 | 1.23 | 1.21 | 1.28 | 1.29 | 1.31 | 1.29 | 1.28 | 1.36 | 1.35 | 1.39 | 1.35 | 1.35 |
| 75   | T.C.              | 20.8               | 22.3 | 22.2 | 24.0 | 25.7 | 22.4 | 23.0 | 23.0 | 24.8 | 26.3 | 24.1 | 23.8 | 23.8 | 25.7 | 26.9 |
|  | S.C.              | 20.5               | 18.8 | 16.0 | 15.7 | 13.1 | 22.1 | 21.1 | 18.0 | 17.5 | 13.9 | 23.8 | 23.5 | 19.9 | 19.2 | 14.6 |
|  | KW                | 1.36               | 1.37 | 1.37 | 1.38 | 1.39 | 1.45 | 1.45 | 1.45 | 1.46 | 1.47 | 1.53 | 1.53 | 1.53 | 1.53 | 1.54 |
| 85   | T.C.              | 19.8               | 20.9 | 20.9 | 22.9 | 24.8 | 21.4 | 21.9 | 21.6 | 23.7 | 25.5 | 23.1 | 22.9 | 22.4 | 24.5 | 26.1 |
|  | S.C.              | 19.5               | 18.2 | 15.4 | 15.3 | 12.5 | 21.2 | 20.4 | 17.4 | 17.1 | 13.4 | 22.8 | 22.6 | 19.4 | 18.9 | 14.3 |
|  | KW                | 1.52               | 1.53 | 1.53 | 1.54 | 1.57 | 1.61 | 1.61 | 1.59 | 1.62 | 1.65 | 1.70 | 1.70 | 1.66 | 1.71 | 1.73 |
| 95   | T.C.              | 18.8               | 19.5 | 19.6 | 21.8 | 23.9 | 20.5 | 20.8 | 20.3 | 22.5 | 24.6 | 22.1 | 22.1 | 21.1 | 23.2 | 25.3 |
|  | S.C.              | 18.6               | 17.5 | 14.8 | 14.8 | 11.9 | 20.2 | 19.7 | 16.8 | 16.7 | 12.9 | 21.8 | 21.8 | 18.8 | 18.7 | 14.0 |
|  | KW                | 1.67               | 1.68 | 1.68 | 1.69 | 1.75 | 1.77 | 1.78 | 1.74 | 1.79 | 1.83 | 1.87 | 1.87 | 1.79 | 1.89 | 1.92 |
| 105  | T.C.              | 17.7               | 18.0 | 18.0 | 20.2 | 22.4 | 19.2 | 19.3 | 18.7 | 20.9 | 23.1 | 20.7 | 20.7 | 19.4 | 21.6 | 23.7 |
|  | S.C.              | 17.4               | 16.8 | 14.1 | 14.2 | 11.3 | 18.9 | 18.7 | 16.1 | 16.1 | 12.4 | 20.5 | 20.5 | 18.2 | 18.1 | 13.5 |
|  | KW                | 1.86               | 1.87 | 1.87 | 1.90 | 1.96 | 1.97 | 1.97 | 1.94 | 2.00 | 2.04 | 2.07 | 2.07 | 2.02 | 2.09 | 2.12 |
| 115  | T.C.              | 16.5               | 16.4 | 16.4 | 18.7 | 20.9 | 17.9 | 17.9 | 17.0 | 19.3 | 21.6 | 19.4 | 19.4 | 17.7 | 20.0 | 22.2 |
|  | S.C.              | 16.3               | 16.1 | 13.4 | 13.5 | 10.8 | 17.7 | 17.6 | 15.4 | 15.5 | 11.9 | 19.2 | 19.2 | 17.5 | 17.5 | 13.0 |
|  | KW                | 2.05               | 2.05 | 2.05 | 2.11 | 2.16 | 2.16 | 2.16 | 2.15 | 2.21 | 2.24 | 2.26 | 2.26 | 2.24 | 2.30 | 2.32 |
| 125  | T.C.              | 15.3               | 14.8 | 14.8 | 17.1 | 19.4 | 16.7 | 16.4 | 15.4 | 17.7 | 20.0 | 18.1 | 18.1 | 16.1 | 18.3 | 20.6 |
|  | S.C.              | 15.1               | 14.8 | 12.7 | 12.9 | 10.2 | 16.5 | 16.4 | 14.7 | 14.9 | 11.3 | 17.8 | 17.8 | 16.1 | 16.9 | 12.5 |
|  | KW                | 2.25               | 2.24 | 2.24 | 2.33 | 2.37 | 2.35 | 2.35 | 2.35 | 2.42 | 2.45 | 2.46 | 2.46 | 2.46 | 2.51 | 2.52 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| -                  | FC/MC/PC32  | 0.99        | 0.98        | 1.09      |
| -                  | FC/MC/PC35  | 0.99        | 0.98        | 1.09      |
| -                  | FC/MC/PC37  | 1.00        | 0.99        | 1.09      |
| -                  | FC/MC/PC43  | 1.00        | 0.99        | 1.09      |
| AHE24B             | -           | 1.00        | 1.01        | 1.00      |
| AHE30B             | -           | 1.00        | 1.01        | 1.00      |
| AHR24B             | -           | 0.99        | 0.96        | 1.04      |
| AHV24B             | -           | 1.00        | 0.96        | 0.99      |
| AHV30B             | -           | 1.00        | 0.99        | 1.00      |
| AHV36C             | -           | 1.01        | 1.01        | 0.98      |
| AV*36              | -           | 1.01        | 0.99        | 0.97      |
| MV12B              | FC/MC35B    | 1.01        | 1.01        | 1.00      |
| MV12B              | FC/MC43B    | 1.01        | 1.02        | 0.99      |
| MX12B              | FC/MC35B    | 1.01        | 1.01        | 0.96      |
| MX12B              | FC/MC43B    | 1.01        | 0.99        | 0.97      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*A12   | FC/MC/PC32A | 1.00        | 0.98        | 1.00      |
| T*(8,L)V*A12   | FC/MC/PC37A | 1.01        | 1.02        | 1.00      |
| T*(8,L)V*B12   | FC/MC/PC35B | 1.00        | 1.00        | 0.99      |
| T*(8,L)V*B12   | FC/MC/PC43B | 1.01        | 1.02        | 0.99      |
| T*(8,L)V*C16   | FC/MC/PC35C | 1.01        | 1.01        | 0.99      |
| T*(8,L)V*C16   | FC/MC/PC43C | 1.02        | 1.02        | 0.98      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*C20   | FC/MC/PC35C | 1.00        | 0.99        | 0.98      |
| T*(8,L)V*C20   | FC/MC/PC43C | 1.01        | 0.99        | 0.98      |
| T*9(C,V)*B12   | FC/MC/PC35B | 1.00        | 1.00        | 1.01      |
| T*9(C,V)*B12   | FC/MC/PC43B | 1.01        | 1.02        | 1.01      |
| T*9(C,V)*C16   | FC/MC/PC35C | 1.02        | 1.07        | 1.01      |
| T*9(C,V)*C16   | FC/MC/PC43C | 1.01        | 1.02        | 1.00      |
| T*9(C,V)*C20   | FC/MC/PC35C | 1.00        | 0.98        | 0.98      |
| T*9(C,V)*C20   | FC/MC/PC43C | 1.03        | 1.08        | 1.01      |
| T*9V*A10       | FC/MC/PC32A | 1.00        | 0.99        | 1.04      |
| T*9V*A10       | FC/MC/PC37A | 1.00        | 1.01        | 1.04      |
| C*(8,L)C*A12   | FC/MC/PC32A | 1.00        | 0.98        | 1.00      |
| C*(8,L)C*A12   | FC/MC/PC37A | 1.01        | 1.02        | 1.00      |
| C*(8,L)C*B12   | FC/MC/PC35B | 1.00        | 1.00        | 0.99      |
| C*(8,L)C*B12   | FC/MC/PC43B | 1.01        | 1.02        | 0.99      |
| C*(8,L)C*C16   | FC/MC/PC35C | 1.01        | 1.01        | 0.99      |
| C*(8,L)C*C16   | FC/MC/PC43C | 1.02        | 1.02        | 0.98      |
| C*(8,L)C*C20   | FC/MC/PC35C | 1.00        | 0.99        | 0.98      |
| C*(8,L)C*C20   | FC/MC/PC43C | 1.01        | 0.99        | 0.98      |
| C*9C*B12       | FC/MC/PC35B | 1.00        | 1.00        | 1.01      |
| C*9C*B12       | FC/MC/PC43B | 1.01        | 1.02        | 1.01      |
| C*9C*C16       | FC/MC/PC35C | 1.02        | 1.07        | 1.01      |
| C*9C*C16       | FC/MC/PC43C | 1.01        | 1.02        | 1.00      |
| C*9C*C20       | FC/MC/PC35C | 1.00        | 0.98        | 0.98      |
| C*9C*C20       | FC/MC/PC43C | 1.03        | 1.08        | 1.01      |

| <b>COOLING PERFORMANCE DATA</b>            |                   |                    |      |      |      |      |             |      |      |      |      |             |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|-------------|------|------|------|------|-------------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>           |                   | <b>THJF30S41S3</b> |      |      |      |      |             |      |      |      |      |             |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>               |                   | <b>AHX36</b>       |      |      |      |      |             |      |      |      |      |             |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b> | <b>IDCFM</b>      | <b>800</b>         |      |      |      |      | <b>1000</b> |      |      |      |      | <b>1200</b> |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80          | 80   | 75   | 80   | 80   | 80          | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57          | 62   | 62   | 67   | 72   | 57          | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 28.4               | 30.2 | 30.1 | 33.0 | 34.3 | 30.2        | 31.2 | 31.2 | 33.5 | 34.8 | 32.0        | 32.2 | 32.2 | 34.0 | 35.3 |
|  | S.C.              | 28.4               | 26.3 | 22.5 | 22.3 | 18.2 | 30.2        | 29.6 | 24.6 | 23.7 | 18.7 | 32.0        | 32.2 | 26.8 | 25.1 | 19.1 |
|  | KW                | 1.49               | 1.53 | 1.53 | 1.55 | 1.52 | 1.60        | 1.63 | 1.63 | 1.60 | 1.59 | 1.70        | 1.74 | 1.74 | 1.65 | 1.66 |
| 75   | T.C.              | 27.3               | 28.7 | 28.7 | 31.5 | 33.2 | 29.0        | 29.7 | 29.6 | 32.1 | 33.7 | 30.7        | 30.6 | 30.6 | 32.7 | 34.2 |
|  | S.C.              | 27.3               | 25.7 | 21.8 | 21.6 | 17.7 | 29.0        | 28.4 | 23.9 | 23.2 | 18.2 | 30.7        | 30.6 | 26.1 | 24.8 | 18.7 |
|  | KW                | 1.67               | 1.69 | 1.69 | 1.72 | 1.70 | 1.76        | 1.78 | 1.78 | 1.78 | 1.77 | 1.86        | 1.86 | 1.86 | 1.84 | 1.85 |
| 85   | T.C.              | 26.2               | 27.2 | 27.2 | 30.0 | 32.2 | 27.8        | 28.1 | 28.1 | 30.7 | 32.6 | 29.5        | 29.0 | 29.0 | 31.4 | 33.1 |
|  | S.C.              | 26.2               | 25.0 | 21.1 | 21.0 | 17.1 | 27.8        | 27.3 | 23.3 | 22.8 | 17.7 | 29.5        | 29.0 | 25.4 | 24.6 | 18.4 |
|  | KW                | 1.84               | 1.86 | 1.86 | 1.88 | 1.88 | 1.93        | 1.92 | 1.92 | 1.95 | 1.96 | 2.03        | 1.99 | 1.99 | 2.02 | 2.03 |
| 95   | T.C.              | 25.1               | 25.8 | 25.8 | 28.6 | 31.1 | 26.7        | 26.6 | 26.6 | 29.3 | 31.5 | 28.2        | 27.3 | 27.3 | 30.1 | 32.0 |
|  | S.C.              | 25.1               | 24.4 | 20.4 | 20.4 | 16.5 | 26.7        | 26.1 | 22.6 | 22.4 | 17.3 | 28.2        | 27.3 | 24.7 | 24.4 | 18.1 |
|  | KW                | 2.01               | 2.02 | 2.02 | 2.05 | 2.06 | 2.10        | 2.07 | 2.06 | 2.13 | 2.14 | 2.19        | 2.11 | 2.11 | 2.20 | 2.21 |
| 105  | T.C.              | 23.7               | 23.8 | 23.9 | 26.9 | 29.5 | 25.2        | 25.1 | 24.6 | 27.6 | 29.9 | 26.7        | 26.3 | 25.4 | 28.2 | 30.3 |
|  | S.C.              | 23.7               | 23.4 | 19.6 | 19.7 | 15.7 | 25.2        | 25.1 | 21.7 | 21.7 | 16.6 | 26.7        | 26.3 | 23.9 | 23.7 | 17.5 |
|  | KW                | 2.22               | 2.23 | 2.23 | 2.27 | 2.30 | 2.31        | 2.29 | 2.29 | 2.35 | 2.37 | 2.40        | 2.36 | 2.36 | 2.43 | 2.44 |
| 115  | T.C.              | 22.2               | 21.9 | 21.9 | 25.2 | 27.8 | 23.7        | 23.6 | 22.7 | 25.8 | 28.3 | 25.2        | 25.2 | 23.4 | 26.4 | 28.7 |
|  | S.C.              | 22.2               | 21.9 | 18.7 | 19.0 | 15.0 | 23.7        | 23.6 | 20.9 | 21.0 | 16.0 | 25.2        | 25.2 | 23.1 | 23.0 | 17.0 |
|  | KW                | 2.44               | 2.43 | 2.43 | 2.50 | 2.53 | 2.52        | 2.52 | 2.52 | 2.57 | 2.60 | 2.61        | 2.61 | 2.61 | 2.65 | 2.67 |
| 125  | T.C.              | 20.8               | 19.9 | 20.0 | 23.5 | 26.2 | 22.2        | 22.1 | 20.7 | 24.0 | 26.7 | 23.7        | 24.2 | 21.5 | 24.5 | 27.1 |
|  | S.C.              | 20.8               | 19.9 | 17.8 | 18.3 | 14.2 | 22.2        | 22.1 | 20.1 | 20.3 | 15.3 | 23.7        | 24.2 | 21.5 | 22.3 | 16.4 |
|  | KW                | 2.65               | 2.64 | 2.64 | 2.72 | 2.76 | 2.74        | 2.75 | 2.75 | 2.80 | 2.83 | 2.82        | 2.86 | 2.85 | 2.88 | 2.90 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| –                  | FC/MC/PC37  | 0.98        | 0.96        | 1.10      |
| –                  | FC/MC/PC43  | 0.98        | 0.96        | 1.10      |
| AHE36C             | –           | 1.00        | 0.98        | 1.00      |
| AHR36B             | –           | 0.98        | 0.98        | 1.11      |
| AHV36C             | –           | 0.98        | 0.93        | 1.00      |
| AV*36              | –           | 1.00        | 0.98        | 0.99      |
| MV12B              | FC/MC43B    | 1.00        | 0.98        | 1.02      |
| MV16C              | FC/MC43C    | 1.00        | 0.98        | 1.01      |
| MX12B              | FC/MC43B    | 1.01        | 1.03        | 1.03      |
| MX16C              | FC/MC43C    | 1.00        | 0.99        | 0.99      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*A12   | FC/MC/PC37A | 1.00        | 0.96        | 1.05      |
| T*(8,L)V*B12   | FC/MC/PC43B | 1.01        | 0.97        | 1.05      |
| T*(8,L)V*C16   | FC/MC/PC43C | 1.00        | 0.99        | 1.02      |
| T*(8,L)V*C20   | FC/MC/PC43C | 1.00        | 1.00        | 1.00      |
| T*9(C,V)*B12   | FC/MC/PC43B | 1.01        | 0.96        | 1.05      |
| T*9(C,V)*C16   | FC/MC/PC43C | 1.00        | 0.97        | 1.04      |
| T*9(C,V)*C20   | FC/MC/PC43C | 1.00        | 0.99        | 1.02      |
| C*(8,L)C*A12   | FC/MC/PC37A | 1.00        | 0.96        | 1.05      |
| C*(8,L)C*B12   | FC/MC/PC43B | 1.01        | 0.97        | 1.05      |
| C*(8,L)C*C16   | FC/MC/PC43C | 1.00        | 0.99        | 1.02      |
| C*(8,L)C*C20   | FC/MC/PC43C | 1.00        | 1.00        | 1.00      |
| C*9C*B12       | FC/MC/PC43B | 1.01        | 0.96        | 1.05      |
| C*9C*C16       | FC/MC/PC43C | 1.00        | 0.97        | 1.04      |
| C*9C*C20       | FC/MC/PC43C | 1.00        | 0.99        | 1.02      |

| <b>COOLING PERFORMANCE DATA</b>            |                   |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>           |                   | <b>THJF36S41S4</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>               |                   | <b>AHE42D</b>      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b> | <b>IDCFM</b>      | 1000               |      |      |      |      | 1200 |      |      |      |      | 1400 |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 37.2               | 39.5 | 39.5 | 43.2 | 45.5 | 39.3 | 41.1 | 41.0 | 44.1 | 46.4 | 41.4 | 42.7 | 42.5 | 45.1 | 47.3 |
|  | S.C.              | 36.9               | 32.5 | 27.9 | 27.8 | 23.2 | 39.0 | 36.0 | 30.2 | 29.8 | 24.2 | 41.0 | 39.6 | 32.5 | 31.8 | 25.3 |
|  | KW                | 2.11               | 2.18 | 2.18 | 2.19 | 2.19 | 2.22 | 2.27 | 2.26 | 2.27 | 2.30 | 2.32 | 2.36 | 2.34 | 2.35 | 2.40 |
| 75   | T.C.              | 34.9               | 36.8 | 36.8 | 40.6 | 43.4 | 37.0 | 38.1 | 38.2 | 41.5 | 44.2 | 39.0 | 39.5 | 39.5 | 42.5 | 44.9 |
|  | S.C.              | 34.7               | 31.3 | 26.7 | 26.6 | 22.0 | 36.7 | 34.3 | 28.9 | 28.7 | 23.1 | 38.7 | 37.3 | 31.2 | 30.7 | 24.2 |
|  | KW                | 2.29               | 2.34 | 2.34 | 2.38 | 2.41 | 2.40 | 2.43 | 2.43 | 2.46 | 2.49 | 2.51 | 2.52 | 2.52 | 2.55 | 2.58 |
| 85   | T.C.              | 32.7               | 34.0 | 34.1 | 38.0 | 41.3 | 34.7 | 35.2 | 35.3 | 39.0 | 41.9 | 36.7 | 36.3 | 36.4 | 39.9 | 42.4 |
|  | S.C.              | 32.4               | 30.0 | 25.5 | 25.5 | 20.8 | 34.4 | 32.5 | 27.7 | 27.5 | 21.9 | 36.4 | 35.0 | 29.9 | 29.5 | 23.0 |
|  | KW                | 2.47               | 2.50 | 2.50 | 2.56 | 2.62 | 2.58 | 2.59 | 2.60 | 2.66 | 2.69 | 2.70 | 2.67 | 2.69 | 2.75 | 2.75 |
| 95   | T.C.              | 30.5               | 31.3 | 31.4 | 35.4 | 39.2 | 32.4 | 32.2 | 32.4 | 36.4 | 39.6 | 34.3 | 33.0 | 33.4 | 37.4 | 40.0 |
|  | S.C.              | 30.2               | 28.8 | 24.3 | 24.3 | 19.6 | 32.2 | 30.8 | 26.4 | 26.4 | 20.7 | 34.1 | 32.8 | 28.5 | 28.4 | 21.9 |
|  | KW                | 2.65               | 2.67 | 2.67 | 2.74 | 2.83 | 2.77 | 2.75 | 2.77 | 2.85 | 2.88 | 2.89 | 2.83 | 2.87 | 2.95 | 2.93 |
| 105  | T.C.              | 27.5               | 28.4 | 28.2 | 32.2 | 36.2 | 29.6 | 29.7 | 28.9 | 33.1 | 36.8 | 31.7 | 31.0 | 29.5 | 34.0 | 37.4 |
|  | S.C.              | 27.3               | 27.1 | 22.9 | 23.0 | 18.4 | 29.4 | 28.9 | 24.9 | 25.1 | 19.6 | 31.5 | 30.8 | 27.0 | 27.1 | 20.8 |
|  | KW                | 2.80               | 2.81 | 2.80 | 2.92 | 3.01 | 2.92 | 2.90 | 2.91 | 3.02 | 3.09 | 3.03 | 2.99 | 3.02 | 3.13 | 3.16 |
| 115  | T.C.              | 24.6               | 25.5 | 25.0 | 29.0 | 33.2 | 26.9 | 27.3 | 25.4 | 29.8 | 34.0 | 29.1 | 29.0 | 25.7 | 30.6 | 34.9 |
|  | S.C.              | 24.4               | 25.3 | 21.5 | 21.7 | 17.3 | 26.6 | 27.1 | 23.5 | 23.8 | 18.5 | 28.9 | 28.8 | 25.4 | 25.8 | 19.7 |
|  | KW                | 2.96               | 2.95 | 2.93 | 3.10 | 3.20 | 3.07 | 3.05 | 3.04 | 3.20 | 3.29 | 3.18 | 3.15 | 3.16 | 3.30 | 3.39 |
| 125  | T.C.              | 21.7               | 22.6 | 21.8 | 25.8 | 30.1 | 24.1 | 24.8 | 21.9 | 26.5 | 31.2 | 26.5 | 27.0 | 21.9 | 27.2 | 32.3 |
|  | S.C.              | 21.5               | 22.6 | 20.1 | 20.4 | 16.1 | 23.9 | 24.8 | 21.9 | 22.5 | 17.4 | 26.3 | 26.8 | 21.9 | 24.5 | 18.7 |
|  | KW                | 3.11               | 3.09 | 3.06 | 3.28 | 3.38 | 3.22 | 3.20 | 3.18 | 3.38 | 3.50 | 3.33 | 3.31 | 3.31 | 3.48 | 3.61 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| -                  | FC/MC/PC37  | 0.98        | 0.98        | 1.09      |
| -                  | FC/MC/PC43  | 0.98        | 0.98        | 1.09      |
| -                  | FC/MC/PC48  | 0.99        | 0.99        | 1.10      |
| -                  | FC/MC/PC60  | 1.00        | 0.99        | 1.09      |
| -                  | UC48        | 1.00        | 0.99        | 1.09      |
| -                  | UC60        | 0.98        | 0.97        | 1.09      |
| AHE36C             | -           | 1.02        | 1.04        | 1.01      |
| AHE42D             | -           | 1.00        | 1.00        | 1.00      |
| AHE48D             | -           | 1.00        | 1.00        | 1.00      |
| AHR36B             | -           | 1.00        | 0.99        | 1.10      |
| AHR42C             | -           | 1.00        | 1.00        | 1.08      |
| AHV36C             | -           | 1.02        | 1.02        | 1.00      |
| AHV42D             | -           | 1.02        | 1.03        | 0.99      |
| AHV48D             | -           | 1.02        | 1.03        | 0.99      |
| AV*36              | -           | 1.01        | 0.99        | 1.03      |

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| AV*48              | -           | 1.03        | 1.04        | 1.01      |
| MV12B              | FC/MC43B    | 1.00        | 0.99        | 1.03      |
| MV12D              | FC/MC48D    | 1.02        | 1.01        | 1.00      |
| MV12D              | FC/MC60D    | 1.01        | 0.99        | 1.02      |
| MV16C              | FC/MC43C    | 1.01        | 0.99        | 1.02      |
| MV16C              | FC/MC48C    | 1.01        | 1.00        | 1.02      |
| MV16C              | FC60C       | 1.03        | 1.02        | 1.01      |
| MX12B              | FC/MC43B    | 1.00        | 0.99        | 1.04      |
| MX12D              | FC/MC48D    | 1.01        | 1.00        | 1.03      |
| MX12D              | FC/MC60D    | 1.03        | 1.05        | 1.02      |
| MX16C              | FC/MC43C    | 1.00        | 0.98        | 1.00      |
| MX16C              | FC/MC48C    | 1.02        | 1.01        | 1.00      |
| MX16C              | FC60C       | 1.03        | 1.02        | 0.99      |

Continued on next page.



| Furnace      | Coil        | T.C. | S.C. | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*B12 | FC/MC/PC43B | 1.00 | 1.01 | 1.08 |
| T*(8,L)V*C16 | FC/MC/PC43C | 1.00 | 0.99 | 1.03 |
| T*(8,L)V*C16 | FC/MC/PC48C | 1.01 | 1.00 | 1.03 |
| T*(8,L)V*C16 | FC/PC60C    | 1.02 | 1.02 | 1.01 |
| T*(8,L)V*C16 | UC48C       | 1.02 | 1.01 | 1.03 |
| T*(8,L)V*C16 | UC60C       | 1.00 | 0.99 | 1.01 |
| T*(8,L)V*C20 | FC/MC/PC43C | 1.00 | 0.99 | 1.03 |
| T*(8,L)V*C20 | FC/MC/PC48C | 1.01 | 1.00 | 1.02 |
| T*(8,L)V*C20 | FC/PC60C    | 1.02 | 1.02 | 1.02 |
| T*(8,L)V*C20 | UC48C       | 1.02 | 1.01 | 1.01 |
| T*(8,L)V*C20 | UC60C       | 1.00 | 0.99 | 1.01 |
| T*9(C,V)*B12 | FC/MC/PC43B | 0.99 | 0.98 | 1.07 |
| T*9(C,V)*C16 | FC/MC/PC43C | 1.00 | 0.99 | 1.06 |
| T*9(C,V)*C16 | FC/MC/PC48C | 1.01 | 1.00 | 1.04 |
| T*9(C,V)*C16 | FC/PC60C    | 1.02 | 1.01 | 1.05 |
| T*9(C,V)*C16 | UC48C       | 1.01 | 1.00 | 1.04 |
| T*9(C,V)*C16 | UC60C       | 1.00 | 0.99 | 1.05 |
| T*9(C,V)*C20 | FC/MC/PC43C | 1.00 | 0.99 | 1.04 |
| T*9(C,V)*C20 | FC/MC/PC48C | 1.02 | 1.05 | 1.06 |
| T*9(C,V)*C20 | FC/PC60C    | 1.03 | 1.06 | 1.05 |
| T*9(C,V)*C20 | UC48C       | 1.03 | 1.06 | 1.06 |
| T*9(C,V)*C20 | UC60C       | 1.02 | 1.05 | 1.06 |
| T*9(C,V)*D20 | FC/MC/PC48D | 1.01 | 1.00 | 1.04 |
| T*9(C,V)*D20 | FC/MC/PC60D | 1.02 | 1.01 | 1.03 |
| T*9(C,V)*D20 | UC48D       | 1.01 | 1.01 | 1.03 |
| T*9(C,V)*D20 | UC60D       | 1.00 | 0.99 | 1.03 |
| C*(8,L)C*A12 | FC/MC/PC37A | 0.99 | 0.98 | 1.07 |

| Furnace      | Coil        | T.C. | S.C. | KW   |
|--------------|-------------|------|------|------|
| C*(8,L)C*B12 | FC/MC/PC43B | 1.00 | 1.01 | 1.08 |
| C*(8,L)C*C16 | FC/MC/PC43C | 1.00 | 0.99 | 1.03 |
| C*(8,L)C*C16 | FC/MC/PC48C | 1.01 | 1.00 | 1.03 |
| C*(8,L)C*C16 | FC/PC60C    | 1.02 | 1.02 | 1.01 |
| C*(8,L)C*C16 | UC48C       | 1.02 | 1.01 | 1.03 |
| C*(8,L)C*C16 | UC60C       | 1.00 | 0.99 | 1.01 |
| C*(8,L)C*C20 | FC/MC/PC43C | 1.00 | 0.99 | 1.03 |
| C*(8,L)C*C20 | FC/MC/PC48C | 1.01 | 1.00 | 1.02 |
| C*(8,L)C*C20 | FC/PC60C    | 1.02 | 1.02 | 1.02 |
| C*(8,L)C*C20 | UC48C       | 1.02 | 1.01 | 1.01 |
| C*(8,L)C*C20 | UC60C       | 1.00 | 0.99 | 1.01 |
| C*9C*B12     | FC/MC/PC43B | 0.99 | 0.98 | 1.07 |
| C*9C*C16     | FC/MC/PC43C | 1.00 | 0.99 | 1.06 |
| C*9C*C16     | FC/MC/PC48C | 1.01 | 1.00 | 1.04 |
| C*9C*C16     | FC/PC60C    | 1.02 | 1.01 | 1.05 |
| C*9C*C16     | UC48C       | 1.01 | 1.00 | 1.04 |
| C*9C*C16     | UC60C       | 1.00 | 0.99 | 1.05 |
| C*9C*C20     | FC/MC/PC43C | 1.00 | 0.99 | 1.04 |
| C*9C*C20     | FC/MC/PC48C | 1.02 | 1.05 | 1.06 |
| C*9C*C20     | FC/PC60C    | 1.03 | 1.06 | 1.05 |
| C*9C*C20     | UC48C       | 1.03 | 1.06 | 1.06 |
| C*9C*C20     | UC60C       | 1.02 | 1.05 | 1.06 |
| C*9C*D20     | FC/MC/PC48D | 1.01 | 1.00 | 1.04 |
| C*9C*D20     | FC/MC/PC60D | 1.02 | 1.01 | 1.03 |
| C*9C*D20     | UC48D       | 1.01 | 1.01 | 1.03 |
| C*9C*D20     | UC60D       | 1.00 | 0.99 | 1.03 |

| <b>COOLING PERFORMANCE DATA</b>            |                   |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>           |                   | <b>THJF42S41S5</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>               |                   | <b>AHE60D</b>      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b> | <b>IDCFM</b>      | 1155               |      |      |      |      | 1355 |      |      |      |      | 1555 |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 38.3               | 40.5 | 40.4 | 44.3 | 48.5 | 40.0 | 41.5 | 41.5 | 45.4 | 49.6 | 41.8 | 42.5 | 42.6 | 46.4 | 50.8 |
|  | S.C.              | 38.3               | 35.3 | 30.1 | 29.8 | 24.0 | 40.0 | 38.8 | 32.3 | 31.8 | 25.2 | 41.8 | 42.3 | 34.4 | 33.9 | 26.4 |
|  | KW                | 2.33               | 2.34 | 2.37 | 2.43 | 2.46 | 2.45 | 2.45 | 2.47 | 2.52 | 2.54 | 2.56 | 2.56 | 2.57 | 2.60 | 2.62 |
| 75   | T.C.              | 36.8               | 38.6 | 38.6 | 42.3 | 46.3 | 38.5 | 39.5 | 39.6 | 43.3 | 47.3 | 40.3 | 40.5 | 40.5 | 44.2 | 48.3 |
|  | S.C.              | 36.8               | 34.5 | 29.3 | 29.0 | 23.2 | 38.5 | 37.4 | 31.5 | 31.0 | 24.3 | 40.3 | 40.4 | 33.6 | 33.0 | 25.5 |
|  | KW                | 2.64               | 2.66 | 2.65 | 2.68 | 2.71 | 2.73 | 2.73 | 2.73 | 2.77 | 2.79 | 2.81 | 2.81 | 2.82 | 2.85 | 2.88 |
| 85   | T.C.              | 35.4               | 36.7 | 36.9 | 40.3 | 44.2 | 37.0 | 37.6 | 37.6 | 41.1 | 45.0 | 38.7 | 38.4 | 38.4 | 42.0 | 45.9 |
|  | S.C.              | 35.4               | 33.7 | 28.5 | 28.1 | 22.3 | 37.0 | 36.1 | 30.6 | 30.1 | 23.5 | 38.7 | 38.4 | 32.7 | 32.1 | 24.6 |
|  | KW                | 2.95               | 2.97 | 2.94 | 2.94 | 2.97 | 3.01 | 3.02 | 3.00 | 3.02 | 3.05 | 3.07 | 3.06 | 3.06 | 3.10 | 3.13 |
| 95   | T.C.              | 34.0               | 34.9 | 35.1 | 38.3 | 42.0 | 35.5 | 35.6 | 35.7 | 39.0 | 42.7 | 37.1 | 36.3 | 36.3 | 39.7 | 43.4 |
|  | S.C.              | 34.0               | 32.9 | 27.7 | 27.3 | 21.5 | 35.5 | 34.7 | 29.8 | 29.3 | 22.6 | 37.1 | 36.3 | 31.8 | 31.2 | 23.7 |
|  | KW                | 3.13               | 3.13 | 3.13 | 3.13 | 3.13 | 3.29 | 3.30 | 3.27 | 3.21 | 3.30 | 3.33 | 3.31 | 3.31 | 3.29 | 3.38 |
| 105  | T.C.              | 32.3               | 32.6 | 32.8 | 35.8 | 39.2 | 33.6 | 33.6 | 33.3 | 36.4 | 39.8 | 35.0 | 34.5 | 33.8 | 37.0 | 40.4 |
|  | S.C.              | 32.3               | 31.7 | 26.7 | 26.3 | 20.5 | 33.6 | 33.2 | 28.7 | 28.2 | 21.5 | 35.0 | 34.5 | 30.7 | 30.2 | 22.6 |
|  | KW                | 3.58               | 3.59 | 3.56 | 3.56 | 3.60 | 3.64 | 3.64 | 3.62 | 3.64 | 3.68 | 3.70 | 3.70 | 3.69 | 3.72 | 3.76 |
| 115  | T.C.              | 30.6               | 30.4 | 30.4 | 33.3 | 36.5 | 31.7 | 31.6 | 30.9 | 33.9 | 36.9 | 32.9 | 32.8 | 31.3 | 34.4 | 37.4 |
|  | S.C.              | 30.6               | 30.4 | 25.6 | 25.2 | 19.4 | 31.7 | 31.6 | 27.6 | 27.2 | 20.5 | 32.9 | 32.8 | 29.7 | 29.1 | 21.6 |
|  | KW                | 3.90               | 3.89 | 3.90 | 3.93 | 3.97 | 3.99 | 3.99 | 3.98 | 4.02 | 4.06 | 4.08 | 4.08 | 4.06 | 4.10 | 4.14 |
| 125  | T.C.              | 29.0               | 28.2 | 28.1 | 30.9 | 33.7 | 29.8 | 29.6 | 28.5 | 31.3 | 34.1 | 30.7 | 31.1 | 28.9 | 31.7 | 34.4 |
|  | S.C.              | 29.0               | 28.2 | 24.6 | 24.2 | 18.4 | 29.8 | 29.6 | 26.6 | 26.1 | 19.4 | 30.7 | 31.1 | 28.6 | 28.1 | 20.5 |
|  | KW                | 4.22               | 4.20 | 4.24 | 4.31 | 4.35 | 4.34 | 4.33 | 4.34 | 4.39 | 4.43 | 4.46 | 4.46 | 4.44 | 4.48 | 4.52 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| -                  | FC/MC62     | 0.97        | 0.93        | 1.07      |
| -                  | FC/MC/PC60  | 1.02        | 1.00        | 1.08      |
| AHE48D             | -           | 1.03        | 1.00        | 1.01      |
| AHE60D             | -           | 1.00        | 1.00        | 1.00      |
| AHR48D             | -           | 1.02        | 0.98        | 1.06      |
| AHV48D             | -           | 1.04        | 1.01        | 1.00      |
| AHV60D             | -           | 1.00        | 0.98        | 1.02      |
| MV16C              | FC60C       | 1.05        | 1.01        | 1.02      |
| MV20D              | FC/MC60D    | 1.04        | 1.02        | 1.00      |
| MV20D              | FC/MC62D    | 1.00        | 0.96        | 1.01      |
| MX20D              | FC/MC60D    | 1.06        | 1.03        | 0.97      |
| MX20D              | FC/MC62D    | 1.01        | 0.99        | 0.99      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*C16   | FC/MC62D    | 0.98        | 0.96        | 1.03      |
| T*(8,L)V*C16   | FC/PC60C    | 0.99        | 1.00        | 0.99      |
| T*(8,L)V*C16   | UC60C       | 0.94        | 0.96        | 1.00      |
| T*(8,L)V*C20   | FC/MC62D    | 0.97        | 0.96        | 1.01      |
| T*(8,L)V*C20   | FC/PC60C    | 1.01        | 1.02        | 1.01      |
| T*(8,L)V*C20   | UC60C       | 0.95        | 0.96        | 0.99      |
| T*9(C,V)*C16   | FC/MC62D    | 0.98        | 0.95        | 1.05      |
| T*9(C,V)*C16   | FC/PC60C    | 0.99        | 1.00        | 1.02      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*9(C,V)*C16   | UC60C       | 0.94        | 0.96        | 1.04      |
| T*9(C,V)*C20   | FC/MC62D    | 0.98        | 0.96        | 1.04      |
| T*9(C,V)*C20   | FC/PC60C    | 1.01        | 1.01        | 1.02      |
| T*9(C,V)*C20   | UC60C       | 0.95        | 0.96        | 1.02      |
| T*9(C,V)*D20   | FC/MC/PC60D | 1.01        | 1.01        | 1.02      |
| T*9(C,V)*D20   | FC/MC62D    | 0.99        | 0.96        | 1.03      |
| T*9(C,V)*D20   | UC60D       | 0.95        | 0.97        | 1.01      |
| C*(8,L)C*C16   | FC/MC62D    | 0.98        | 0.96        | 1.03      |
| C*(8,L)C*C16   | FC/PC60C    | 0.99        | 1.00        | 0.99      |
| C*(8,L)C*C16   | UC60C       | 0.94        | 0.96        | 1.00      |
| C*(8,L)C*C20   | FC/MC62D    | 0.97        | 0.96        | 1.01      |
| C*(8,L)C*C20   | FC/PC60C    | 1.01        | 1.02        | 1.01      |
| C*(8,L)C*C20   | UC60C       | 0.95        | 0.96        | 0.99      |
| C*9C*C16       | FC/MC62D    | 0.98        | 0.95        | 1.05      |
| C*9C*C16       | FC/PC60C    | 0.99        | 1.00        | 1.02      |
| C*9C*C16       | UC60C       | 0.94        | 0.96        | 1.04      |
| C*9C*C20       | FC/MC62D    | 0.98        | 0.96        | 1.04      |
| C*9C*C20       | FC/PC60C    | 1.01        | 1.01        | 1.02      |
| C*9C*C20       | UC60C       | 0.95        | 0.96        | 1.02      |
| C*9C*D20       | FC/MC/PC60D | 1.01        | 1.01        | 1.02      |
| C*9C*D20       | FC/MC62D    | 0.99        | 0.96        | 1.03      |
| C*9C*D20       | UC60D       | 0.95        | 0.97        | 1.01      |

| COOLING PERFORMANCE DATA            |            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CONDENSING UNIT MODEL NO.           |            | THJF48S41S5 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| INDOOR COIL MODEL NO.               |            | AHE60D      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| CONDENSING ENTERING AIR TEMPERATURE | IDCFM      | 1400        |      |      |      |      | 1600 |      |      |      |      | 1800 |      |      |      |      |
|                                     | ID DB (°F) | 80          | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   |
|                                     | ID WB (°F) | 57          | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   |
| 65                                  | T.C.       | 43.3        | 48.2 | 47.9 | 52.1 | 57.3 | 46.0 | 49.5 | 49.5 | 54.2 | 59.4 | 48.6 | 50.8 | 51.1 | 56.4 | 61.5 |
|                                     | S.C.       | 42.6        | 38.3 | 33.1 | 32.6 | 27.0 | 45.2 | 41.3 | 35.4 | 35.0 | 28.4 | 47.8 | 44.3 | 37.7 | 37.4 | 29.8 |
|                                     | KW         | 2.46        | 2.49 | 2.48 | 2.51 | 2.53 | 2.55 | 2.56 | 2.57 | 2.59 | 2.61 | 2.64 | 2.63 | 2.66 | 2.68 | 2.69 |
| 75                                  | T.C.       | 41.9        | 45.9 | 45.8 | 49.9 | 55.0 | 44.4 | 47.2 | 47.2 | 51.8 | 56.8 | 46.8 | 48.5 | 48.7 | 53.6 | 58.6 |
|                                     | S.C.       | 41.2        | 37.3 | 32.0 | 31.6 | 26.0 | 43.6 | 40.3 | 34.3 | 33.9 | 27.4 | 46.0 | 43.3 | 36.6 | 36.3 | 28.8 |
|                                     | KW         | 2.79        | 2.82 | 2.81 | 2.84 | 2.87 | 2.88 | 2.89 | 2.90 | 2.93 | 2.95 | 2.97 | 2.97 | 2.99 | 3.01 | 3.03 |
| 85                                  | T.C.       | 40.6        | 43.7 | 43.6 | 47.8 | 52.6 | 42.8 | 44.9 | 44.9 | 49.4 | 54.2 | 45.0 | 46.1 | 46.2 | 50.9 | 55.8 |
|                                     | S.C.       | 39.9        | 36.2 | 31.0 | 30.7 | 25.0 | 42.0 | 39.3 | 33.3 | 32.9 | 26.3 | 44.2 | 42.3 | 35.5 | 35.2 | 27.7 |
|                                     | KW         | 3.12        | 3.15 | 3.14 | 3.18 | 3.21 | 3.21 | 3.22 | 3.23 | 3.26 | 3.29 | 3.31 | 3.30 | 3.32 | 3.34 | 3.38 |
| 95                                  | T.C.       | 39.2        | 41.4 | 41.4 | 45.6 | 50.3 | 41.2 | 42.6 | 42.6 | 46.9 | 51.6 | 43.1 | 43.7 | 43.8 | 48.2 | 52.9 |
|                                     | S.C.       | 38.6        | 35.2 | 30.0 | 29.7 | 24.1 | 40.5 | 38.2 | 32.2 | 31.9 | 25.3 | 42.4 | 41.3 | 34.5 | 34.1 | 26.6 |
|                                     | KW         | 3.46        | 3.48 | 3.48 | 3.52 | 3.55 | 3.55 | 3.55 | 3.56 | 3.60 | 3.64 | 3.64 | 3.63 | 3.65 | 3.68 | 3.72 |
| 105                                 | T.C.       | 37.2        | 38.8 | 38.9 | 42.8 | 47.2 | 39.1 | 39.8 | 39.9 | 44.0 | 48.3 | 40.9 | 40.8 | 40.9 | 45.1 | 49.5 |
|                                     | S.C.       | 36.6        | 34.0 | 28.8 | 28.5 | 22.9 | 38.4 | 36.7 | 31.0 | 30.7 | 24.1 | 40.2 | 39.3 | 33.2 | 32.8 | 25.3 |
|                                     | KW         | 3.90        | 3.92 | 3.92 | 3.96 | 4.01 | 3.99 | 4.00 | 4.00 | 4.04 | 4.09 | 4.08 | 4.07 | 4.08 | 4.12 | 4.17 |
| 115                                 | T.C.       | 35.2        | 36.2 | 36.4 | 40.0 | 44.2 | 36.9 | 37.1 | 37.2 | 41.0 | 45.1 | 38.7 | 37.9 | 38.1 | 42.0 | 46.1 |
|                                     | S.C.       | 34.6        | 32.9 | 27.7 | 27.4 | 21.8 | 36.3 | 35.1 | 29.9 | 29.5 | 22.9 | 38.0 | 37.3 | 32.0 | 31.6 | 24.1 |
|                                     | KW         | 4.34        | 4.35 | 4.36 | 4.40 | 4.46 | 4.44 | 4.44 | 4.44 | 4.48 | 4.54 | 4.53 | 4.52 | 4.52 | 4.57 | 4.62 |
| 125                                 | T.C.       | 33.2        | 33.6 | 33.8 | 37.3 | 41.1 | 34.8 | 34.3 | 34.5 | 38.1 | 41.9 | 36.5 | 35.0 | 35.2 | 38.9 | 42.7 |
|                                     | S.C.       | 32.6        | 31.8 | 26.6 | 26.2 | 20.6 | 34.2 | 33.5 | 28.7 | 28.2 | 21.7 | 35.9 | 35.0 | 30.8 | 30.3 | 22.9 |
|                                     | KW         | 4.79        | 4.79 | 4.79 | 4.84 | 4.91 | 4.88 | 4.88 | 4.88 | 4.93 | 4.99 | 4.97 | 4.96 | 4.96 | 5.02 | 5.06 |

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

| Air Handler | Coil       | T.C. | S.C. | KW   |
|-------------|------------|------|------|------|
| -           | FC/MC/PC60 | 0.96 | 0.96 | 1.07 |
| -           | FC/MC62    | 0.98 | 0.98 | 1.06 |
| -           | FC64       | 1.04 | 0.98 | 1.07 |
| AHE48D      | -          | 0.97 | 0.98 | 1.01 |
| AHE60D      | -          | 1.00 | 1.00 | 1.00 |
| AHR48D      | -          | 0.95 | 0.95 | 1.06 |
| AHV48D      | -          | 0.97 | 0.97 | 1.01 |
| AHV60D      | -          | 1.00 | 0.99 | 1.00 |
| MV16C       | FC60C      | 0.97 | 0.98 | 1.02 |
| MV20D       | FC/MC60D   | 0.97 | 0.98 | 1.00 |
| MV20D       | FC/MC62D   | 0.99 | 0.97 | 0.99 |
| MV20D       | FC64D      | 1.06 | 1.03 | 1.01 |
| MX16C       | FC60C      | 0.97 | 0.99 | 0.99 |
| MX20D       | FC/MC60D   | 0.97 | 0.99 | 0.98 |
| MX20D       | FC/MC62D   | 1.00 | 1.00 | 0.98 |
| MX20D       | FC64D      | 1.06 | 1.03 | 0.98 |

| Furnace      | Coil     | T.C. | S.C. | KW   |
|--------------|----------|------|------|------|
| T*(8,L)V*C16 | FC/MC62D | 1.01 | 1.00 | 1.02 |
| T*(8,L)V*C16 | FC/PC60C | 0.97 | 0.98 | 1.03 |
| T*(8,L)V*C16 | FC64D    | 1.06 | 1.02 | 1.02 |
| T*(8,L)V*C20 | FC/MC62D | 0.99 | 0.99 | 1.01 |
| T*(8,L)V*C20 | FC/PC60C | 0.96 | 0.96 | 1.01 |
| T*(8,L)V*C20 | FC64D    | 1.06 | 1.02 | 1.02 |

| Furnace      | Coil        | T.C. | S.C. | KW   |
|--------------|-------------|------|------|------|
| T*9(C,V)*C16 | FC/MC62D    | 0.98 | 0.99 | 1.04 |
| T*9(C,V)*C16 | FC/PC60C    | 0.96 | 0.97 | 1.05 |
| T*9(C,V)*C16 | FC64D       | 1.05 | 1.01 | 1.05 |
| T*9(C,V)*C20 | FC/MC62D    | 0.99 | 0.99 | 1.03 |
| T*9(C,V)*C20 | FC/PC60C    | 0.96 | 0.98 | 1.03 |
| T*9(C,V)*C20 | FC64D       | 1.06 | 1.02 | 1.04 |
| T*9(C,V)*D20 | FC/MC/PC60D | 0.97 | 0.98 | 1.03 |
| T*9(C,V)*D20 | FC/MC62D    | 0.99 | 1.00 | 1.02 |
| T*9(C,V)*D20 | FC64D       | 1.06 | 1.02 | 1.03 |
| C*(8,L)C*C16 | FC/MC62D    | 1.01 | 1.00 | 1.02 |
| C*(8,L)C*C16 | FC/PC60C    | 0.97 | 0.98 | 1.03 |
| C*(8,L)C*C16 | FC64D       | 1.06 | 1.02 | 1.02 |
| C*(8,L)C*C20 | FC/MC62D    | 0.99 | 0.99 | 1.01 |
| C*(8,L)C*C20 | FC/PC60C    | 0.96 | 0.96 | 1.01 |
| C*(8,L)C*C20 | FC64D       | 1.06 | 1.02 | 1.02 |
| C*9C*C16     | FC/MC62D    | 0.98 | 0.99 | 1.04 |
| C*9C*C16     | FC/PC60C    | 0.96 | 0.97 | 1.05 |
| C*9C*C16     | FC64D       | 1.05 | 1.01 | 1.05 |
| C*9C*C20     | FC/MC62D    | 0.99 | 0.99 | 1.03 |
| C*9C*C20     | FC/PC60C    | 0.96 | 0.98 | 1.03 |
| C*9C*C20     | FC64D       | 1.06 | 1.02 | 1.04 |
| C*9C*D20     | FC/MC/PC60D | 0.97 | 0.98 | 1.03 |
| C*9C*D20     | FC/MC62D    | 0.99 | 1.00 | 1.02 |
| C*9C*D20     | FC64D       | 1.06 | 1.02 | 1.03 |

| <b>COOLING PERFORMANCE DATA - HIGH CFM 2-STAGE OPERATION</b> |                   |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>CONDENSING UNIT MODEL NO.</b>                             |                   | <b>THJF60S41S3</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>INDOOR COIL MODEL NO.</b>                                 |                   | <b>AHX60</b>       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>CONDENSING ENTERING AIR TEMPERATURE</b>                   | <b>IDCFM</b>      | 1650               |      |      |      |      | 1850 |      |      |      |      | 2050 |      |      |      |      |
|  | <b>ID DB (°F)</b> | 80                 | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   | 80   | 80   | 75   | 80   | 80   |
|  | <b>ID WB (°F)</b> | 57                 | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   | 57   | 62   | 62   | 67   | 72   |
| 65   | T.C.              | 56.5               | 60.0 | 59.6 | 65.6 | 70.6 | 58.5 | 61.2 | 60.8 | 66.7 | 72.5 | 60.5 | 62.3 | 62.0 | 67.8 | 74.4 |
|  | S.C.              | 55.7               | 50.3 | 42.9 | 42.5 | 34.9 | 57.7 | 53.1 | 44.9 | 44.5 | 36.0 | 59.6 | 55.9 | 47.0 | 46.5 | 37.1 |
|  | KW                | 3.43               | 3.47 | 3.46 | 3.53 | 3.61 | 3.52 | 3.56 | 3.55 | 3.62 | 3.70 | 3.61 | 3.64 | 3.64 | 3.71 | 3.80 |
| 75   | T.C.              | 54.4               | 57.2 | 56.8 | 62.6 | 67.6 | 56.3 | 58.2 | 57.9 | 63.6 | 69.1 | 58.1 | 59.2 | 59.0 | 64.6 | 70.6 |
|  | S.C.              | 53.6               | 49.1 | 41.6 | 41.3 | 33.5 | 55.4 | 51.9 | 43.7 | 43.2 | 34.6 | 57.3 | 54.7 | 45.7 | 45.2 | 35.7 |
|  | KW                | 3.81               | 3.85 | 3.85 | 3.92 | 4.00 | 3.91 | 3.94 | 3.93 | 4.01 | 4.09 | 4.00 | 4.02 | 4.02 | 4.09 | 4.19 |
| 85   | T.C.              | 52.3               | 54.4 | 54.0 | 59.6 | 64.6 | 54.0 | 55.2 | 55.0 | 60.5 | 65.8 | 55.7 | 56.1 | 56.0 | 61.3 | 66.9 |
|  | S.C.              | 51.5               | 48.0 | 40.3 | 40.1 | 32.2 | 53.2 | 50.7 | 42.4 | 42.0 | 33.2 | 54.9 | 53.4 | 44.4 | 43.9 | 34.3 |
|  | KW                | 4.20               | 4.23 | 4.23 | 4.31 | 4.39 | 4.30 | 4.32 | 4.32 | 4.39 | 4.48 | 4.40 | 4.40 | 4.40 | 4.48 | 4.57 |
| 95   | T.C.              | 50.2               | 51.6 | 51.2 | 56.5 | 61.7 | 51.8 | 52.3 | 52.1 | 57.3 | 62.4 | 53.3 | 52.9 | 53.0 | 58.1 | 63.2 |
|  | S.C.              | 49.5               | 46.8 | 39.1 | 38.9 | 30.8 | 51.0 | 49.5 | 41.1 | 40.8 | 31.8 | 52.5 | 52.1 | 43.1 | 42.6 | 32.9 |
|  | KW                | 4.59               | 4.62 | 4.62 | 4.70 | 4.78 | 4.69 | 4.70 | 4.70 | 4.78 | 4.87 | 4.79 | 4.78 | 4.79 | 4.87 | 4.96 |
| 105  | T.C.              | 47.5               | 48.0 | 47.8 | 52.6 | 57.5 | 48.8 | 49.0 | 48.4 | 53.3 | 58.1 | 50.2 | 50.0 | 49.1 | 54.0 | 58.8 |
|  | S.C.              | 46.8               | 45.2 | 37.6 | 37.4 | 29.2 | 48.1 | 47.3 | 39.6 | 39.2 | 30.2 | 49.5 | 49.3 | 41.5 | 41.1 | 31.3 |
|  | KW                | 5.11               | 5.12 | 5.12 | 5.20 | 5.28 | 5.21 | 5.21 | 5.20 | 5.28 | 5.37 | 5.30 | 5.30 | 5.28 | 5.36 | 5.46 |
| 115  | T.C.              | 44.7               | 44.4 | 44.4 | 48.7 | 53.3 | 45.9 | 45.7 | 44.8 | 49.3 | 53.9 | 47.1 | 47.1 | 45.2 | 49.8 | 54.4 |
|  | S.C.              | 44.1               | 43.7 | 36.1 | 35.8 | 27.6 | 45.2 | 45.0 | 38.0 | 37.7 | 28.6 | 46.4 | 46.4 | 39.9 | 39.5 | 29.7 |
|  | KW                | 5.63               | 5.62 | 5.62 | 5.70 | 5.79 | 5.72 | 5.72 | 5.70 | 5.78 | 5.88 | 5.82 | 5.82 | 5.78 | 5.86 | 5.96 |
| 125  | T.C.              | 42.0               | 40.7 | 41.0 | 44.8 | 49.2 | 43.0 | 42.5 | 41.1 | 45.3 | 49.6 | 44.0 | 44.2 | 41.3 | 45.7 | 50.0 |
|  | S.C.              | 41.4               | 40.7 | 34.6 | 34.3 | 26.0 | 42.3 | 42.5 | 36.5 | 36.2 | 27.0 | 43.3 | 43.5 | 38.4 | 38.0 | 28.1 |
|  | KW                | 6.15               | 6.12 | 6.12 | 6.20 | 6.29 | 6.24 | 6.23 | 6.20 | 6.28 | 6.38 | 6.34 | 6.34 | 6.27 | 6.36 | 6.47 |

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

#### HIGH CFM

| <b>Air Handler</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|--------------------|-------------|-------------|-------------|-----------|
| -                  | FC/MC62     | 0.99        | 0.99        | 1.01      |
| AHE60D             | -           | 1.00        | 1.00        | 0.98      |
| AHV60D             | -           | 0.99        | 0.96        | 0.97      |
| MV20D              | FC/MC62D    | 1.00        | 1.00        | 1.00      |
| MV20D              | FC64D       | 1.02        | 1.04        | 0.99      |
| MX20D              | FC/MC62D    | 1.00        | 1.00        | 0.96      |
| MX20D              | FC64D       | 1.02        | 1.03        | 0.97      |

| <b>Furnace</b> | <b>Coil</b> | <b>T.C.</b> | <b>S.C.</b> | <b>KW</b> |
|----------------|-------------|-------------|-------------|-----------|
| T*(8,L)V*C20   | FC/MC62D    | 0.99        | 0.94        | 0.99      |
| T*(8,L)V*C20   | FC64D       | 1.00        | 0.98        | 0.97      |
| T*(8,L)X*C20   | FC/MC62D    | 1.02        | 1.04        | 1.01      |
| T*(8,L)X*C20   | FC64D       | 0.99        | 0.96        | 0.97      |
| T*9(C,V)*C20   | FC/MC62D    | 0.99        | 0.97        | 0.96      |
| T*9(C,V)*C20   | FC64D       | 1.00        | 0.99        | 0.97      |
| T*9(C,V)*D20   | FC/MC62D    | 1.01        | 0.99        | 0.97      |
| T*9(C,V)*D20   | FC64D       | 0.99        | 0.94        | 0.99      |
| T*9X*C20       | FC/MC62D    | 0.98        | 0.96        | 0.99      |
| T*9X*C20       | FC64D       | 1.02        | 1.04        | 1.01      |
| T*9X*D20       | FC/MC62D    | 1.00        | 0.98        | 1.00      |
| T*9X*D20       | FC64D       | 0.98        | 0.96        | 0.99      |
| C*(8,L)C*C20   | FC/MC62D    | 0.98        | 0.96        | 0.98      |
| C*(8,L)C*C20   | FC64D       | 1.00        | 0.98        | 1.00      |
| C*9C*C20       | FC/MC62D    | 1.00        | 0.98        | 0.99      |
| C*9C*C20       | FC64D       | 0.98        | 0.96        | 0.98      |
| C*9C*D20       | FC/MC62D    | 0.99        | 0.96        | 0.96      |
| C*9C*D20       | FC64D       | 1.00        | 0.98        | 0.99      |

| HEATING PERFORMANCE DATA              |                                      |             |     |      |      |     |      |      |     |      |
|---------------------------------------|--------------------------------------|-------------|-----|------|------|-----|------|------|-----|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF18S41S3 |     |      |      |     |      |      |     |      |
| EVAPORATOR COIL MODEL NO              |                                      | AHX30       |     |      |      |     |      |      |     |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |     |      |      |     |      |      |     |      |
|                                       |                                      | 450         |     |      | 600  |     |      | 750  |     |      |
|                                       |                                      | MBH         | COP | KW   | MBH  | COP | KW   | MBH  | COP | KW   |
| 60                                    | 60                                   | 20.9        | 4.6 | 1.34 | 22.0 | 5.0 | 1.30 | 23.0 | 5.4 | 1.25 |
|                                       | 70                                   | 20.3        | 4.0 | 1.48 | 21.3 | 4.3 | 1.44 | 22.3 | 4.7 | 1.39 |
|                                       | 80                                   | 19.7        | 3.5 | 1.63 | 20.7 | 3.8 | 1.58 | 21.6 | 4.2 | 1.52 |
| 47                                    | 60                                   | 18.4        | 4.2 | 1.29 | 18.9 | 4.4 | 1.27 | 19.5 | 4.6 | 1.24 |
|                                       | 70                                   | 17.5        | 3.6 | 1.43 | 18.1 | 3.9 | 1.37 | 18.8 | 4.2 | 1.31 |
|                                       | 80                                   | 16.6        | 3.1 | 1.57 | 17.3 | 3.3 | 1.54 | 18.0 | 3.5 | 1.50 |
| 40                                    | 60                                   | 16.4        | 3.8 | 1.27 | 17.0 | 4.0 | 1.25 | 17.5 | 4.2 | 1.23 |
|                                       | 70                                   | 15.9        | 3.3 | 1.40 | 16.5 | 3.5 | 1.38 | 17.1 | 3.7 | 1.36 |
|                                       | 80                                   | 15.4        | 3.0 | 1.53 | 16.0 | 3.1 | 1.51 | 16.6 | 3.3 | 1.48 |
| 30                                    | 60                                   | 14.4        | 3.4 | 1.23 | 14.8 | 3.5 | 1.23 | 15.2 | 3.6 | 1.22 |
|                                       | 70                                   | 13.9        | 3.0 | 1.36 | 14.3 | 3.1 | 1.35 | 14.6 | 3.2 | 1.34 |
|                                       | 80                                   | 13.5        | 2.7 | 1.49 | 13.8 | 2.7 | 1.48 | 14.1 | 2.8 | 1.47 |
| 17                                    | 60                                   | 11.4        | 2.8 | 1.18 | 11.7 | 2.9 | 1.19 | 11.9 | 2.9 | 1.20 |
|                                       | 70                                   | 10.6        | 2.4 | 1.29 | 10.9 | 2.5 | 1.27 | 11.2 | 2.6 | 1.24 |
|                                       | 80                                   | 10.2        | 2.1 | 1.42 | 10.5 | 2.2 | 1.39 | 10.8 | 2.3 | 1.35 |
| 10                                    | 60                                   | 9.5         | 2.5 | 1.13 | 9.6  | 2.5 | 1.12 | 9.7  | 2.6 | 1.11 |
|                                       | 70                                   | 9.1         | 2.1 | 1.26 | 9.3  | 2.2 | 1.24 | 9.5  | 2.3 | 1.22 |
|                                       | 80                                   | 8.6         | 1.8 | 1.39 | 8.9  | 1.9 | 1.37 | 9.3  | 2.0 | 1.34 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| –           | FC/MC/PC32 | 1.02 | 0.91 | 1.11 |
| –           | FC/MC/PC35 | 1.02 | 0.91 | 1.11 |
| –           | FC/MC/PC37 | 1.02 | 0.93 | 1.09 |
| –           | FC/MC/PC43 | 1.02 | 0.93 | 1.09 |
| AHE24B      | –          | 0.99 | 0.97 | 1.02 |
| AHE30B      | –          | 1.00 | 0.97 | 1.02 |
| AHR24B      | –          | 1.02 | 0.91 | 1.11 |
| AHV24B      | –          | 0.99 | 0.96 | 1.02 |
| AHV30B      | –          | 1.01 | 1.01 | 1.00 |
| AHV36C      | –          | 1.01 | 1.03 | 0.98 |
| AV*36       | –          | 1.00 | 1.03 | 0.97 |
| MV12B       | FC/MC35B   | 1.00 | 0.97 | 1.02 |
| MV12B       | FC/MC43B   | 1.01 | 0.99 | 1.01 |
| MX12B       | FC/MC35B   | 0.99 | 1.01 | 0.98 |
| MX12B       | FC/MC43B   | 1.00 | 1.01 | 0.98 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*A12 | FC/MC/PC32A | 1.00 | 0.97 | 1.02 |
| T*(8,L)V*A12 | FC/MC/PC37A | 1.01 | 1.01 | 0.99 |
| T*(8,L)V*B12 | FC/MC/PC35B | 1.00 | 0.97 | 1.02 |
| T*(8,L)V*B12 | FC/MC/PC43B | 1.00 | 0.97 | 1.02 |
| T*(8,L)V*C16 | FC/MC/PC35C | 1.00 | 0.98 | 1.01 |
| T*9(C,V)*A10 | FC/MC/PC32A | 1.01 | 0.96 | 1.04 |
| T*9(C,V)*A10 | FC/MC/PC37A | 1.01 | 0.96 | 1.04 |
| T*9(C,V)*B12 | FC/MC/PC35B | 0.99 | 0.95 | 1.03 |
| T*9(C,V)*C16 | FC/MC/PC35C | 1.00 | 0.99 | 1.00 |
| C*(8,L)C*A12 | FC/MC/PC32A | 1.00 | 0.97 | 1.02 |
| C*(8,L)C*A12 | FC/MC/PC37A | 1.01 | 1.01 | 0.99 |
| C*(8,L)C*B12 | FC/MC/PC35B | 1.00 | 0.97 | 1.02 |
| C*(8,L)C*B12 | FC/MC/PC43B | 1.00 | 0.97 | 1.02 |
| C*(8,L)C*C16 | FC/MC/PC35C | 1.00 | 0.98 | 1.01 |
| C*9C*B12     | FC/MC/PC35B | 0.99 | 0.95 | 1.03 |
| C*9C*C16     | FC/MC/PC35C | 1.00 | 0.99 | 1.00 |

| HEATING PERFORMANCE DATA              |                                      |             |     |      |      |     |      |      |     |      |
|---------------------------------------|--------------------------------------|-------------|-----|------|------|-----|------|------|-----|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF24S41S3 |     |      |      |     |      |      |     |      |
| EVAPORATOR COIL MODEL NO              |                                      | AHX30       |     |      |      |     |      |      |     |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |     |      |      |     |      |      |     |      |
|                                       |                                      | 600         |     |      | 800  |     |      | 1000 |     |      |
|                                       |                                      | MBH         | COP | KW   | MBH  | COP | KW   | MBH  | COP | KW   |
| 60                                    | 60                                   | 25.7        | 4.3 | 1.74 | 26.5 | 4.5 | 1.72 | 27.2 | 4.7 | 1.70 |
|                                       | 70                                   | 24.0        | 3.7 | 1.91 | 25.1 | 3.9 | 1.89 | 26.1 | 4.1 | 1.87 |
|                                       | 80                                   | 22.3        | 3.1 | 2.08 | 23.6 | 3.4 | 2.06 | 25.0 | 3.6 | 2.04 |
| 47                                    | 60                                   | 23.7        | 4.1 | 1.68 | 23.9 | 4.2 | 1.67 | 24.2 | 4.3 | 1.66 |
|                                       | 70                                   | 21.7        | 3.5 | 1.84 | 22.2 | 3.7 | 1.78 | 22.7 | 3.9 | 1.72 |
|                                       | 80                                   | 19.8        | 2.9 | 2.00 | 20.5 | 3.0 | 1.99 | 21.2 | 3.1 | 1.98 |
| 40                                    | 60                                   | 19.8        | 3.6 | 1.61 | 20.6 | 3.7 | 1.62 | 21.3 | 3.8 | 1.63 |
|                                       | 70                                   | 18.6        | 3.1 | 1.78 | 19.4 | 3.2 | 1.79 | 20.2 | 3.3 | 1.79 |
|                                       | 80                                   | 17.3        | 2.6 | 1.95 | 18.2 | 2.7 | 1.95 | 19.1 | 2.9 | 1.95 |
| 30                                    | 60                                   | 17.7        | 3.3 | 1.57 | 17.9 | 3.3 | 1.59 | 18.0 | 3.3 | 1.62 |
|                                       | 70                                   | 16.6        | 2.8 | 1.72 | 16.9 | 2.8 | 1.74 | 17.2 | 2.9 | 1.77 |
|                                       | 80                                   | 15.4        | 2.4 | 1.88 | 15.9 | 2.5 | 1.90 | 16.4 | 2.5 | 1.92 |
| 17                                    | 60                                   | 14.6        | 2.9 | 1.50 | 15.0 | 2.9 | 1.54 | 15.3 | 2.8 | 1.58 |
|                                       | 70                                   | 13.0        | 2.3 | 1.66 | 13.7 | 2.4 | 1.66 | 14.4 | 2.5 | 1.66 |
|                                       | 80                                   | 10.6        | 1.7 | 1.80 | 11.6 | 1.9 | 1.80 | 12.6 | 2.1 | 1.80 |
| 10                                    | 60                                   | 13.5        | 2.7 | 1.48 | 13.7 | 2.7 | 1.49 | 13.9 | 2.7 | 1.50 |
|                                       | 70                                   | 12.1        | 2.2 | 1.64 | 12.4 | 2.2 | 1.64 | 12.7 | 2.3 | 1.64 |
|                                       | 80                                   | 10.7        | 1.8 | 1.78 | 11.1 | 1.8 | 1.79 | 11.4 | 1.9 | 1.79 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| -           | FC/MC/PC32 | 1.03 | 0.92 | 1.10 |
| -           | FC/MC/PC35 | 1.03 | 0.91 | 1.11 |
| -           | FC/MC/PC37 | 1.03 | 0.94 | 1.08 |
| -           | FC/MC/PC43 | 1.03 | 0.94 | 1.08 |
| AHE24B      | -          | 1.00 | 0.97 | 1.02 |
| AHE30B      | -          | 1.00 | 0.97 | 1.02 |
| AHR24B      | -          | 1.01 | 0.92 | 1.08 |
| AHV24B      | -          | 1.00 | 0.95 | 1.04 |
| AHV30B      | -          | 1.00 | 0.96 | 1.03 |
| AHV36C      | -          | 1.00 | 0.99 | 0.99 |
| AV*36       | -          | 0.99 | 0.99 | 0.98 |
| MV12B       | FC/MC35B   | 1.00 | 0.98 | 1.00 |
| MV12B       | FC/MC43B   | 1.00 | 1.01 | 0.98 |
| MX12B       | FC/MC35B   | 0.99 | 1.00 | 0.98 |
| MX12B       | FC/MC43B   | 1.00 | 0.99 | 1.00 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*A12 | FC/MC/PC32A | 1.00 | 0.96 | 1.03 |
| T*(8,L)V*A12 | FC/MC/PC37A | 1.00 | 1.00 | 0.99 |
| T*(8,L)V*B12 | FC/MC/PC35B | 1.00 | 0.98 | 1.01 |
| T*(8,L)V*B12 | FC/MC/PC43B | 1.00 | 1.01 | 0.98 |
| T*(8,L)V*C16 | FC/MC/PC35C | 1.00 | 0.99 | 1.00 |
| T*(8,L)V*C16 | FC/MC/PC43C | 1.00 | 1.01 | 0.98 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*C20 | FC/MC/PC35C | 0.99 | 0.96 | 1.02 |
| T*(8,L)V*C20 | FC/MC/PC43C | 0.99 | 0.98 | 0.99 |
| T*9(C,V)*B12 | FC/MC/PC35B | 1.00 | 0.97 | 1.02 |
| T*9(C,V)*B12 | FC/MC/PC43B | 1.01 | 0.99 | 1.00 |
| T*9(C,V)*C16 | FC/MC/PC35C | 1.01 | 0.99 | 1.01 |
| T*9(C,V)*C16 | FC/MC/PC43C | 1.00 | 1.01 | 0.98 |
| T*9(C,V)*C20 | FC/MC/PC35C | 0.99 | 0.96 | 1.02 |
| T*9(C,V)*C20 | FC/MC/PC43C | 1.01 | 1.02 | 0.98 |
| T*9V*A10     | FC/MC/PC32A | 1.01 | 0.95 | 1.05 |
| T*9V*A10     | FC/MC/PC37A | 1.02 | 0.97 | 1.04 |
| C*(8,L)*A12  | FC/MC/PC32A | 1.00 | 0.96 | 1.03 |
| C*(8,L)*A12  | FC/MC/PC37A | 1.00 | 1.00 | 0.99 |
| C*(8,L)*B12  | FC/MC/PC35B | 1.00 | 0.98 | 1.01 |
| C*(8,L)*B12  | FC/MC/PC43B | 1.00 | 1.01 | 0.98 |
| C*(8,L)*C16  | FC/MC/PC35C | 1.00 | 0.99 | 1.00 |
| C*(8,L)*C16  | FC/MC/PC43C | 1.00 | 1.01 | 0.98 |
| C*(8,L)*C20  | FC/MC/PC35C | 0.99 | 0.96 | 1.02 |
| C*(8,L)*C20  | FC/MC/PC43C | 0.99 | 0.98 | 0.99 |
| C*9C*B12     | FC/MC/PC35B | 1.00 | 0.97 | 1.02 |
| C*9C*B12     | FC/MC/PC43B | 1.01 | 0.99 | 1.00 |
| C*9C*C16     | FC/MC/PC35C | 1.01 | 0.99 | 1.01 |
| C*9C*C16     | FC/MC/PC43C | 1.00 | 1.01 | 0.98 |
| C*9C*C20     | FC/MC/PC35C | 0.99 | 0.96 | 1.02 |
| C*9C*C20     | FC/MC/PC43C | 1.01 | 1.02 | 0.98 |

| HEATING PERFORMANCE DATA              |                                      |             |     |      |      |     |      |      |     |      |
|---------------------------------------|--------------------------------------|-------------|-----|------|------|-----|------|------|-----|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF30S41S3 |     |      |      |     |      |      |     |      |
| EVAPORATOR COIL MODEL NO              |                                      | AHX36       |     |      |      |     |      |      |     |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |     |      |      |     |      |      |     |      |
|                                       |                                      | 800         |     |      | 1000 |     |      | 1200 |     |      |
|                                       |                                      | MBH         | COP | KW   | MBH  | COP | KW   | MBH  | COP | KW   |
| 60                                    | 60                                   | 36.1        | 4.9 | 2.14 | 36.5 | 5.2 | 2.06 | 36.9 | 5.5 | 1.98 |
|                                       | 70                                   | 35.0        | 4.3 | 2.40 | 35.5 | 4.5 | 2.30 | 36.0 | 4.8 | 2.20 |
|                                       | 80                                   | 34.0        | 3.7 | 2.67 | 34.6 | 4.0 | 2.54 | 35.1 | 4.3 | 2.41 |
| 47                                    | 60                                   | 30.5        | 4.4 | 2.03 | 30.9 | 4.6 | 1.97 | 31.3 | 4.8 | 1.91 |
|                                       | 70                                   | 29.7        | 3.8 | 2.30 | 30.1 | 4.0 | 2.20 | 30.5 | 4.2 | 2.10 |
|                                       | 80                                   | 29.0        | 3.3 | 2.56 | 29.3 | 3.5 | 2.46 | 29.7 | 3.7 | 2.35 |
| 40                                    | 60                                   | 27.7        | 4.0 | 2.02 | 28.0 | 4.2 | 1.96 | 28.3 | 4.4 | 1.90 |
|                                       | 70                                   | 26.9        | 3.5 | 2.25 | 27.2 | 3.7 | 2.18 | 27.6 | 3.8 | 2.11 |
|                                       | 80                                   | 26.1        | 3.1 | 2.48 | 26.5 | 3.2 | 2.40 | 26.9 | 3.4 | 2.32 |
| 30                                    | 60                                   | 24.0        | 3.6 | 1.96 | 24.2 | 3.7 | 1.92 | 24.4 | 3.8 | 1.87 |
|                                       | 70                                   | 23.1        | 3.1 | 2.19 | 23.4 | 3.2 | 2.14 | 23.6 | 3.3 | 2.09 |
|                                       | 80                                   | 22.3        | 2.7 | 2.42 | 22.6 | 2.8 | 2.36 | 22.9 | 2.9 | 2.30 |
| 17                                    | 60                                   | 19.1        | 3.0 | 1.89 | 19.3 | 3.0 | 1.87 | 19.5 | 3.1 | 1.85 |
|                                       | 70                                   | 18.4        | 2.6 | 2.03 | 18.7 | 2.8 | 1.99 | 18.9 | 2.9 | 1.94 |
|                                       | 80                                   | 17.3        | 2.3 | 2.25 | 17.7 | 2.4 | 2.20 | 18.1 | 2.5 | 2.14 |
| 10                                    | 60                                   | 16.7        | 2.7 | 1.80 | 16.8 | 2.8 | 1.77 | 16.9 | 2.9 | 1.74 |
|                                       | 70                                   | 15.3        | 2.3 | 1.99 | 15.7 | 2.3 | 1.96 | 16.0 | 2.4 | 1.93 |
|                                       | 80                                   | 13.9        | 1.9 | 2.19 | 14.5 | 2.0 | 2.15 | 15.1 | 2.1 | 2.10 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| –           | FC/MC/PC37 | 1.02 | 0.93 | 1.10 |
| –           | FC/MC/PC43 | 1.02 | 0.93 | 1.10 |
| AHE36C      | –          | 1.00 | 1.00 | 1.00 |
| AHR36B      | –          | 1.03 | 0.94 | 1.10 |
| AHV36C      | –          | 1.04 | 0.94 | 1.11 |
| AV*36       | –          | 1.00 | 1.01 | 0.99 |
| MV12B       | FC/MC43B   | 1.00 | 0.98 | 1.03 |
| MV16C       | FC/MC43C   | 1.00 | 0.99 | 1.02 |
| MX12B       | FC/MC43B   | 1.01 | 1.00 | 1.01 |
| MX16C       | FC/MC43C   | 1.00 | 1.01 | 0.99 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*A12 | FC/MC/PC37A | 1.00 | 0.96 | 1.05 |
| T*(8,L)V*B12 | FC/MC/PC43B | 1.01 | 0.97 | 1.05 |
| T*(8,L)V*C16 | FC/MC/PC43C | 1.00 | 0.99 | 1.02 |
| T*(8,L)V*C20 | FC/MC/PC43C | 1.00 | 1.00 | 1.00 |
| T*9(C,V)*B12 | FC/MC/PC43B | 1.01 | 0.96 | 1.05 |
| T*9(C,V)*C16 | FC/MC/PC43C | 1.00 | 0.97 | 1.04 |
| T*9(C,V)*C20 | FC/MC/PC43C | 1.00 | 0.99 | 1.02 |
| C*(8,L)C*A12 | FC/MC/PC37A | 1.00 | 0.96 | 1.05 |
| C*(8,L)C*B12 | FC/MC/PC43B | 1.01 | 0.97 | 1.05 |
| C*(8,L)C*C16 | FC/MC/PC43C | 1.00 | 0.99 | 1.02 |
| C*(8,L)C*C20 | FC/MC/PC43C | 1.00 | 1.00 | 1.00 |
| C*9C*B12     | FC/MC/PC43B | 1.01 | 0.96 | 1.05 |
| C*9C*C16     | FC/MC/PC43C | 1.00 | 0.97 | 1.04 |
| C*9C*C20     | FC/MC/PC43C | 1.00 | 0.99 | 1.02 |

| HEATING PERFORMANCE DATA              |                                      |             |      |      |      |      |      |      |      |      |
|---------------------------------------|--------------------------------------|-------------|------|------|------|------|------|------|------|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF36S41S4 |      |      |      |      |      |      |      |      |
| EVAPORATOR COIL MODEL NO              |                                      | FC/MC/PC48  |      |      |      |      |      |      |      |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |      |      |      |      |      |      |      |      |
|                                       |                                      | 1000        |      |      | 1200 |      |      | 1400 |      |      |
|                                       |                                      | MBH         | COP  | KW   | MBH  | COP  | KW   | MBH  | COP  | KW   |
| 60                                    | 60                                   | 43.1        | 4.23 | 2.99 | 44.0 | 4.34 | 2.97 | 44.9 | 4.46 | 2.95 |
|                                       | 70                                   | 42.3        | 3.94 | 3.14 | 43.1 | 4.04 | 3.13 | 44.0 | 4.13 | 3.12 |
|                                       | 80                                   | 38.9        | 3.45 | 3.30 | 39.8 | 3.53 | 3.30 | 40.7 | 3.62 | 3.29 |
| 47                                    | 60                                   | 35.6        | 3.78 | 2.76 | 36.4 | 3.86 | 2.76 | 37.2 | 3.93 | 2.77 |
|                                       | 70                                   | 34.6        | 3.49 | 2.90 | 35.3 | 3.57 | 2.90 | 36.0 | 3.63 | 2.91 |
|                                       | 80                                   | 31.8        | 3.07 | 3.03 | 32.4 | 3.12 | 3.04 | 33.0 | 3.16 | 3.06 |
| 40                                    | 60                                   | 31.3        | 3.44 | 2.66 | 31.9 | 3.50 | 2.67 | 32.5 | 3.56 | 2.68 |
|                                       | 70                                   | 30.4        | 3.20 | 2.79 | 31.0 | 3.24 | 2.80 | 31.6 | 3.28 | 2.82 |
|                                       | 80                                   | 28.6        | 2.87 | 2.92 | 29.1 | 2.90 | 2.94 | 29.5 | 2.92 | 2.96 |
| 30                                    | 60                                   | 27.0        | 3.12 | 2.54 | 27.4 | 3.14 | 2.56 | 27.8 | 3.17 | 2.57 |
|                                       | 70                                   | 26.0        | 2.88 | 2.64 | 26.3 | 2.89 | 2.67 | 26.7 | 2.90 | 2.70 |
|                                       | 80                                   | 24.2        | 2.58 | 2.74 | 24.5 | 2.58 | 2.78 | 24.8 | 2.58 | 2.82 |
| 17                                    | 60                                   | 21.6        | 2.69 | 2.35 | 21.7 | 2.65 | 2.40 | 21.8 | 2.61 | 2.45 |
|                                       | 70                                   | 20.1        | 2.41 | 2.45 | 20.2 | 2.41 | 2.45 | 20.3 | 2.41 | 2.45 |
|                                       | 80                                   | 18.2        | 2.19 | 2.44 | 18.3 | 2.14 | 2.50 | 18.3 | 2.10 | 2.56 |
| 10                                    | 60                                   | 18.2        | 2.41 | 2.21 | 18.4 | 2.38 | 2.26 | 18.6 | 2.35 | 2.32 |
|                                       | 70                                   | 16.7        | 2.19 | 2.23 | 16.8 | 2.14 | 2.30 | 17.0 | 2.11 | 2.36 |
|                                       | 80                                   | 15.0        | 1.95 | 2.26 | 15.1 | 1.90 | 2.33 | 15.2 | 1.85 | 2.40 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| –           | FC/MC/PC37 | 1.01 | 1.01 | 1.00 |
| –           | FC/MC/PC43 | 1.01 | 1.01 | 1.00 |
| –           | FC/MC/PC48 | 1.00 | 1.00 | 1.00 |
| –           | FC/MC/PC60 | 1.02 | 1.04 | 0.98 |
| –           | UC48       | 1.02 | 1.04 | 0.98 |
| –           | UC60       | 1.02 | 1.03 | 0.99 |
| AHE36C      | –          | 0.99 | 1.09 | 0.91 |
| AHE42D      | –          | 0.98 | 1.07 | 0.92 |
| AHE48D      | –          | 0.97 | 1.07 | 0.91 |
| AHR36B      | –          | 1.01 | 1.01 | 1.00 |
| AHR42C      | –          | 1.00 | 1.02 | 0.98 |
| AHV36C      | –          | 1.02 | 1.02 | 1.00 |
| AHV42D      | –          | 1.02 | 1.03 | 0.99 |
| AHV48D      | –          | 1.02 | 1.03 | 0.99 |
| AV*36       | –          | 0.99 | 1.07 | 0.93 |

| Air Handler | Coil     | MBH  | COP  | KW   |
|-------------|----------|------|------|------|
| AV*48       | –        | 1.00 | 1.12 | 0.89 |
| MV12B       | FC/MC43B | 0.99 | 1.05 | 0.94 |
| MV12D       | FC/MC48D | 0.97 | 1.08 | 0.90 |
| MV12D       | FC/MC60D | 0.99 | 1.09 | 0.91 |
| MV16C       | FC/MC43C | 0.99 | 1.07 | 0.93 |
| MV16C       | FC/MC48C | 0.98 | 1.07 | 0.92 |
| MV16C       | FC60C    | 1.00 | 1.11 | 0.90 |
| MX12B       | FC/MC43B | 1.00 | 1.05 | 0.95 |
| MX12D       | FC/MC48D | 0.98 | 1.07 | 0.92 |
| MX12D       | FC/MC60D | 1.01 | 1.12 | 0.90 |
| MX16C       | FC/MC43C | 0.97 | 1.07 | 0.91 |
| MX16C       | FC/MC48C | 0.97 | 1.08 | 0.90 |
| MX16C       | FC60C    | 0.99 | 1.12 | 0.89 |

Continued on next page.



| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*(8,L)V*B12 | FC/MC/PC43B | 1.00 | 1.02 | 0.98 |
| T*(8,L)V*C16 | FC/MC/PC43C | 0.99 | 1.05 | 0.94 |
| T*(8,L)V*C16 | FC/MC/PC48C | 0.98 | 1.06 | 0.92 |
| T*(8,L)V*C16 | FC/PC60C    | 1.00 | 1.11 | 0.90 |
| T*(8,L)V*C16 | UC48C       | 1.00 | 1.09 | 0.92 |
| T*(8,L)V*C16 | UC60C       | 1.00 | 1.09 | 0.91 |
| T*(8,L)V*C20 | FC/MC/PC43C | 0.99 | 1.06 | 0.94 |
| T*(8,L)V*C20 | FC/MC/PC48C | 0.98 | 1.07 | 0.92 |
| T*(8,L)V*C20 | FC/PC60C    | 1.00 | 1.10 | 0.91 |
| T*(8,L)V*C20 | UC48C       | 1.00 | 1.10 | 0.91 |
| T*(8,L)V*C20 | UC60C       | 1.00 | 1.09 | 0.92 |
| T*9(C,V)*B12 | FC/MC/PC43B | 1.00 | 1.03 | 0.98 |
| T*9(C,V)*C16 | FC/MC/PC43C | 1.00 | 1.04 | 0.96 |
| T*9(C,V)*C16 | FC/MC/PC48C | 0.99 | 1.05 | 0.94 |
| T*9(C,V)*C16 | FC/PC60C    | 1.01 | 1.08 | 0.94 |
| T*9(C,V)*C16 | UC48C       | 1.01 | 1.08 | 0.93 |
| T*9(C,V)*C16 | UC60C       | 1.01 | 1.07 | 0.95 |
| T*9(C,V)*C20 | FC/MC/PC43C | 1.00 | 1.05 | 0.95 |
| T*9(C,V)*C20 | FC/MC/PC48C | 1.01 | 1.05 | 0.96 |
| T*9(C,V)*C20 | FC/PC60C    | 1.03 | 1.10 | 0.93 |
| T*9(C,V)*C20 | UC48C       | 1.03 | 1.09 | 0.95 |
| T*9(C,V)*C20 | UC60C       | 1.02 | 1.08 | 0.94 |
| T*9(C,V)*D20 | FC/MC/PC48D | 0.99 | 1.05 | 0.94 |
| T*9(C,V)*D20 | FC/MC/PC60D | 1.00 | 1.09 | 0.92 |
| T*9(C,V)*D20 | UC48D       | 1.00 | 1.09 | 0.92 |
| T*9(C,V)*D20 | UC60D       | 1.00 | 1.08 | 0.93 |
| C*(8,L)C*A12 | FC/MC/PC37A | 1.00 | 1.03 | 0.98 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| C*(8,L)C*B12 | FC/MC/PC43B | 1.00 | 1.02 | 0.98 |
| C*(8,L)C*C16 | FC/MC/PC43C | 0.99 | 1.05 | 0.94 |
| C*(8,L)C*C16 | FC/MC/PC48C | 0.98 | 1.06 | 0.92 |
| C*(8,L)C*C16 | FC/PC60C    | 1.00 | 1.11 | 0.90 |
| C*(8,L)C*C16 | UC48C       | 1.00 | 1.09 | 0.92 |
| C*(8,L)C*C16 | UC60C       | 1.00 | 1.09 | 0.91 |
| C*(8,L)C*C20 | FC/MC/PC43C | 0.99 | 1.06 | 0.94 |
| C*(8,L)C*C20 | FC/MC/PC48C | 0.98 | 1.07 | 0.92 |
| C*(8,L)C*C20 | FC/PC60C    | 1.00 | 1.10 | 0.91 |
| C*(8,L)C*C20 | UC48C       | 1.00 | 1.10 | 0.91 |
| C*(8,L)C*C20 | UC60C       | 1.00 | 1.09 | 0.92 |
| C*9C*B12     | FC/MC/PC43B | 1.00 | 1.03 | 0.98 |
| C*9C*C16     | FC/MC/PC43C | 1.00 | 1.04 | 0.96 |
| C*9C*C16     | FC/MC/PC48C | 0.99 | 1.05 | 0.94 |
| C*9C*C16     | FC/PC60C    | 1.01 | 1.08 | 0.94 |
| C*9C*C16     | UC48C       | 1.01 | 1.08 | 0.93 |
| C*9C*C16     | UC60C       | 1.01 | 1.07 | 0.95 |
| C*9C*C20     | FC/MC/PC43C | 1.00 | 1.05 | 0.95 |
| C*9C*C20     | FC/MC/PC48C | 1.01 | 1.05 | 0.96 |
| C*9C*C20     | FC/PC60C    | 1.03 | 1.10 | 0.93 |
| C*9C*C20     | UC48C       | 1.03 | 1.09 | 0.95 |
| C*9C*C20     | UC60C       | 1.02 | 1.08 | 0.94 |
| C*9C*D20     | FC/MC/PC48D | 0.99 | 1.05 | 0.94 |
| C*9C*D20     | FC/MC/PC60D | 1.00 | 1.09 | 0.92 |
| C*9C*D20     | UC48D       | 1.00 | 1.09 | 0.92 |
| C*9C*D20     | UC60D       | 1.00 | 1.08 | 0.93 |

| HEATING PERFORMANCE DATA              |                                      |             |     |      |      |     |      |      |     |      |
|---------------------------------------|--------------------------------------|-------------|-----|------|------|-----|------|------|-----|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF42S41S5 |     |      |      |     |      |      |     |      |
| EVAPORATOR COIL MODEL NO              |                                      | FC/MC/PC60  |     |      |      |     |      |      |     |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |     |      |      |     |      |      |     |      |
|                                       |                                      | 1200        |     |      | 1400 |     |      | 1600 |     |      |
|                                       |                                      | MBH         | COP | KW   | MBH  | COP | KW   | MBH  | COP | KW   |
| 60                                    | 60                                   | 49.0        | 4.5 | 3.19 | 49.7 | 4.6 | 3.14 | 50.4 | 4.8 | 3.09 |
|                                       | 70                                   | 47.0        | 3.9 | 3.50 | 47.8 | 4.1 | 3.45 | 48.6 | 4.2 | 3.39 |
|                                       | 80                                   | 45.0        | 3.5 | 3.82 | 45.8 | 3.6 | 3.75 | 46.7 | 3.7 | 3.68 |
| 47                                    | 60                                   | 41.5        | 3.9 | 3.08 | 42.5 | 4.1 | 3.05 | 43.5 | 4.2 | 3.01 |
|                                       | 70                                   | 40.3        | 3.5 | 3.37 | 41.0 | 3.5 | 3.33 | 41.6 | 3.6 | 3.29 |
|                                       | 80                                   | 39.0        | 3.1 | 3.66 | 39.4 | 3.2 | 3.62 | 39.8 | 3.3 | 3.58 |
| 40                                    | 60                                   | 38.2        | 3.7 | 3.03 | 38.6 | 3.8 | 3.01 | 39.1 | 3.8 | 2.98 |
|                                       | 70                                   | 36.9        | 3.3 | 3.32 | 37.2 | 3.3 | 3.29 | 37.5 | 3.4 | 3.26 |
|                                       | 80                                   | 35.7        | 2.9 | 3.62 | 35.8 | 2.9 | 3.58 | 36.0 | 3.0 | 3.53 |
| 30                                    | 60                                   | 33.2        | 3.3 | 2.94 | 33.3 | 3.3 | 2.95 | 33.3 | 3.3 | 2.96 |
|                                       | 70                                   | 32.2        | 2.9 | 3.22 | 32.3 | 2.9 | 3.24 | 32.4 | 2.9 | 3.26 |
|                                       | 80                                   | 31.1        | 2.6 | 3.49 | 31.3 | 2.6 | 3.53 | 31.4 | 2.6 | 3.57 |
| 17                                    | 60                                   | 27.1        | 2.8 | 2.87 | 27.3 | 2.8 | 2.87 | 27.5 | 2.8 | 2.87 |
|                                       | 70                                   | 25.8        | 2.4 | 3.13 | 26.0 | 2.4 | 3.13 | 26.2 | 2.5 | 3.13 |
|                                       | 80                                   | 24.5        | 2.1 | 3.39 | 24.7 | 2.1 | 3.39 | 24.9 | 2.2 | 3.39 |
| 10                                    | 60                                   | 23.3        | 2.5 | 2.78 | 24.2 | 2.5 | 2.81 | 25.2 | 2.6 | 2.84 |
|                                       | 70                                   | 22.9        | 2.2 | 3.05 | 23.4 | 2.2 | 3.07 | 24.0 | 2.3 | 3.09 |
|                                       | 80                                   | 22.4        | 2.0 | 3.31 | 22.6 | 2.0 | 3.32 | 22.8 | 2.0 | 3.33 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| -           | FC/MC62    | 1.00 | 1.00 | 1.00 |
| -           | FC/MC/PC60 | 1.02 | 1.04 | 1.00 |
| AHE48D      | -          | 1.01 | 1.09 | 0.92 |
| AHE60D      | -          | 0.98 | 1.08 | 0.91 |
| AHR48D      | -          | 1.02 | 1.01 | 1.01 |
| AHV48D      | -          | 1.00 | 1.10 | 0.92 |
| AHV60D      | -          | 0.98 | 1.07 | 0.92 |
| MV16C       | FC60C      | 1.01 | 1.10 | 0.92 |
| MV20D       | FC/MC60D   | 1.00 | 1.12 | 0.89 |
| MV20D       | FC/MC62D   | 0.97 | 1.06 | 0.92 |
| MX20D       | FC/MC60D   | 1.00 | 1.14 | 0.88 |
| MX20D       | FC/MC62D   | 0.97 | 1.09 | 0.89 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*9(C,V)*C16 | UC60C       | 1.00 | 1.05 | 0.95 |
| T*9(C,V)*C20 | FC/MC62D    | 1.00 | 1.08 | 0.92 |
| T*9(C,V)*C20 | FC/PC60C    | 1.03 | 1.12 | 0.92 |
| T*9(C,V)*C20 | UC60C       | 1.00 | 1.06 | 0.94 |
| T*9(C,V)*D20 | FC/MC/PC60D | 1.01 | 1.11 | 0.91 |
| T*9(C,V)*D20 | FC/MC62D    | 1.00 | 1.09 | 0.91 |
| T*9(C,V)*D20 | UC60D       | 1.00 | 1.07 | 0.93 |
| C*(8,L)C*C16 | FC/MC62D    | 1.00 | 1.09 | 0.92 |
| C*(8,L)C*C16 | FC/PC60C    | 1.00 | 1.08 | 0.92 |
| C*(8,L)C*C16 | UC60C       | 0.99 | 1.07 | 0.92 |
| C*(8,L)C*C20 | FC/MC62D    | 0.99 | 1.08 | 0.92 |
| C*(8,L)C*C20 | FC/PC60C    | 1.01 | 1.11 | 0.91 |
| C*(8,L)C*C20 | UC60        | 0.99 | 1.08 | 0.92 |
| C*9C*C16     | FC/MC62D    | 1.01 | 1.07 | 0.95 |
| C*9C*C16     | FC/PC60C    | 1.03 | 1.09 | 0.94 |
| C*9C*C16     | UC60C       | 1.00 | 1.05 | 0.95 |
| C*9C*C20     | FC/MC62D    | 1.00 | 1.08 | 0.92 |
| C*9C*C20     | FC/PC60C    | 1.03 | 1.12 | 0.92 |
| C*9C*C20     | UC60C       | 1.00 | 1.06 | 0.94 |
| C*9C*D20     | FC/MC/PC60D | 1.01 | 1.11 | 0.91 |
| C*9C*D20     | FC/MC62D    | 1.00 | 1.09 | 0.91 |
| C*9C*D20     | UC60D       | 1.00 | 1.07 | 0.93 |

| Furnace      | Coil     | MBH  | COP  | KW   |
|--------------|----------|------|------|------|
| T*(8,L)V*C16 | FC/MC62D | 0.98 | 1.06 | 0.93 |
| T*(8,L)V*C16 | FC/PC60C | 1.01 | 1.10 | 0.92 |
| T*(8,L)V*C16 | UC60C    | 0.99 | 1.08 | 0.92 |
| T*(8,L)V*C20 | FC/MC62D | 0.98 | 1.05 | 0.93 |
| T*(8,L)V*C20 | FC/PC60C | 1.00 | 1.09 | 0.92 |
| T*(8,L)V*C20 | UC60C    | 0.99 | 1.09 | 0.91 |
| T*9(C,V)*C16 | FC/MC62D | 1.00 | 1.06 | 0.95 |
| T*9(C,V)*C16 | FC/PC60C | 1.00 | 1.05 | 0.95 |

| HEATING PERFORMANCE DATA              |                                      |             |     |      |      |     |      |      |     |      |
|---------------------------------------|--------------------------------------|-------------|-----|------|------|-----|------|------|-----|------|
| CONDENSING UNIT MODEL NO              |                                      | THJF48S41S5 |     |      |      |     |      |      |     |      |
| EVAPORATOR COIL MODEL NO              |                                      | FC/MC62     |     |      |      |     |      |      |     |      |
| AIR TEMP.<br>ENTERING<br>OUTDOOR UNIT | AIR TEMP.<br>ENTERING<br>INDOOR COIL | ID CFM      |     |      |      |     |      |      |     |      |
|                                       |                                      | 1400        |     |      | 1600 |     |      | 1800 |     |      |
|                                       |                                      | MBH         | COP | KW   | MBH  | COP | KW   | MBH  | COP | KW   |
| 60                                    | 60                                   | 59.6        | 4.4 | 3.93 | 60.4 | 4.7 | 3.74 | 61.3 | 5.1 | 3.54 |
|                                       | 70                                   | 58.1        | 4.0 | 4.27 | 59.0 | 4.2 | 4.07 | 59.9 | 4.5 | 3.86 |
|                                       | 80                                   | 56.7        | 3.6 | 4.62 | 57.6 | 3.8 | 4.40 | 58.5 | 4.1 | 4.19 |
| 47                                    | 60                                   | 50.6        | 3.9 | 3.77 | 51.3 | 4.2 | 3.58 | 52.0 | 4.5 | 3.40 |
|                                       | 70                                   | 49.4        | 3.5 | 4.11 | 50.1 | 3.7 | 3.9  | 50.8 | 4.0 | 3.73 |
|                                       | 80                                   | 48.2        | 3.2 | 4.45 | 48.9 | 3.4 | 4.26 | 49.6 | 3.6 | 4.07 |
| 40                                    | 60                                   | 45.8        | 3.6 | 3.68 | 46.3 | 3.9 | 3.51 | 46.8 | 4.1 | 3.35 |
|                                       | 70                                   | 44.9        | 3.3 | 4.04 | 45.3 | 3.4 | 3.86 | 45.8 | 3.6 | 3.68 |
|                                       | 80                                   | 43.9        | 2.9 | 4.40 | 44.4 | 3.1 | 4.20 | 44.9 | 3.3 | 4.01 |
| 30                                    | 60                                   | 40.3        | 3.3 | 3.54 | 40.0 | 3.5 | 3.38 | 39.7 | 3.6 | 3.22 |
|                                       | 70                                   | 39.2        | 2.9 | 3.91 | 38.5 | 3.0 | 3.73 | 37.8 | 3.1 | 3.55 |
|                                       | 80                                   | 38.0        | 2.6 | 4.26 | 37.0 | 2.7 | 4.07 | 36.0 | 2.7 | 3.87 |
| 17                                    | 60                                   | 31.9        | 2.7 | 3.42 | 32.6 | 2.9 | 3.31 | 33.2 | 3.1 | 3.19 |
|                                       | 70                                   | 30.7        | 2.4 | 3.74 | 31.1 | 2.5 | 3.63 | 31.4 | 2.6 | 3.52 |
|                                       | 80                                   | 29.5        | 2.1 | 4.07 | 29.5 | 2.2 | 3.97 | 29.6 | 2.3 | 3.85 |
| 10                                    | 60                                   | 28.4        | 2.5 | 3.36 | 27.7 | 2.5 | 3.22 | 27.0 | 2.6 | 3.06 |
|                                       | 70                                   | 28.0        | 2.2 | 3.69 | 27.7 | 2.3 | 3.52 | 27.5 | 2.4 | 3.39 |
|                                       | 80                                   | 27.5        | 2.0 | 4.01 | 27.7 | 2.1 | 3.86 | 27.9 | 2.2 | 3.72 |

NOTE: ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

| Air Handler | Coil       | MBH  | COP  | KW   |
|-------------|------------|------|------|------|
| -           | FC/MC/PC60 | 1.00 | 0.98 | 1.03 |
| -           | FC/MC62    | 1.00 | 1.00 | 1.00 |
| -           | FC64       | 1.04 | 1.07 | 0.98 |
| AHE48D      | -          | 0.98 | 1.01 | 0.97 |
| AHE60D      | -          | 0.98 | 1.09 | 0.90 |
| AHR48D      | -          | 1.00 | 0.94 | 1.07 |
| AHV48D      | -          | 0.98 | 0.99 | 1.00 |
| AHV60D      | -          | 0.99 | 1.08 | 0.91 |
| MV16C       | FC60C      | 0.99 | 1.01 | 0.98 |
| MV20D       | FC/MC60D   | 0.98 | 1.02 | 0.96 |
| MV20D       | FC/MC62D   | 0.98 | 1.06 | 0.92 |
| MV20D       | FC64D      | 1.02 | 1.12 | 0.91 |
| MX16C       | FC60C      | 0.98 | 1.03 | 0.95 |
| MX20D       | FC/MC60D   | 0.98 | 1.03 | 0.95 |
| MX20D       | FC/MC62D   | 0.98 | 1.09 | 0.89 |
| MX20D       | FC64D      | 1.02 | 1.12 | 0.90 |

| Furnace      | Coil     | MBH  | COP  | KW   |
|--------------|----------|------|------|------|
| T*(8,L)V*C16 | FC/MC62D | 0.99 | 1.07 | 0.93 |
| T*(8,L)V*C16 | FC/PC60C | 0.99 | 1.00 | 0.98 |
| T*(8,L)V*C16 | FC64D    | 1.03 | 1.10 | 0.94 |
| T*(8,L)V*C20 | FC/MC62D | 0.98 | 1.07 | 0.92 |
| T*(8,L)V*C20 | FC/PC60C | 0.99 | 0.96 | 1.03 |
| T*(8,L)V*C20 | FC64D    | 1.03 | 1.10 | 0.93 |

| Furnace      | Coil        | MBH  | COP  | KW   |
|--------------|-------------|------|------|------|
| T*9(C,V)*C16 | FC/MC62D    | 0.99 | 1.05 | 0.94 |
| T*9(C,V)*C16 | FC/PC60C    | 1.00 | 0.98 | 1.02 |
| T*9(C,V)*C16 | FC64D       | 1.04 | 1.07 | 0.97 |
| T*9(C,V)*C20 | FC/MC62D    | 0.99 | 1.06 | 0.93 |
| T*9(C,V)*C20 | FC/PC60C    | 0.99 | 0.99 | 1.00 |
| T*9(C,V)*C20 | FC64D       | 1.04 | 1.09 | 0.96 |
| T*9(C,V)*D20 | FC/MC/PC60D | 0.99 | 1.00 | 0.99 |
| T*9(C,V)*D20 | FC/MC62D    | 0.99 | 1.06 | 0.93 |
| T*9(C,V)*D20 | FC64D       | 1.03 | 1.09 | 0.94 |
| C*(8,L)C*C16 | FC/MC62D    | 0.99 | 1.07 | 0.93 |
| C*(8,L)C*C16 | FC/PC60C    | 0.99 | 1.00 | 0.98 |
| C*(8,L)C*C16 | FC64D       | 1.03 | 1.10 | 0.94 |
| C*(8,L)C*C20 | FC/MC62D    | 0.98 | 1.07 | 0.92 |
| C*(8,L)C*C20 | FC/PC60C    | 0.99 | 0.96 | 1.03 |
| C*(8,L)C*C20 | FC64D       | 1.03 | 1.10 | 0.93 |
| C*9C*C16     | FC/MC62D    | 0.99 | 1.05 | 0.94 |
| C*9C*C16     | FC/PC60C    | 1.00 | 0.98 | 1.02 |
| C*9C*C16     | FC64D       | 1.04 | 1.07 | 0.97 |
| C*9C*C20     | FC/MC62D    | 0.99 | 1.06 | 0.93 |
| C*9C*C20     | FC/PC60C    | 0.99 | 0.99 | 1.00 |
| C*9C*C20     | FC64D       | 1.04 | 1.09 | 0.96 |
| C*9C*D20     | FC/MC/PC60D | 0.99 | 1.00 | 0.99 |
| C*9C*D20     | FC/MC62D    | 0.99 | 1.06 | 0.93 |
| C*9C*D20     | FC64D       | 1.03 | 1.09 | 0.94 |

**HEATING PERFORMANCE DATA - HIGH CFM 2-STAGE OPERATION**

| <b>CONDENSING UNIT MODEL NO</b>        |                                       | <b>THJF60S41S3</b> |            |           |             |            |           |             |            |           |
|--|---------------------------------------|--------------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|
| <b>EVAPORATOR COIL MODEL NO</b>        |                                       | <b>AHX60</b>       |            |           |             |            |           |             |            |           |
| <b>AIR TEMP. ENTERING OUTDOOR UNIT</b> | <b>AIR TEMP. ENTERING INDOOR COIL</b> | <b>ID CFM</b>      |            |           |             |            |           |             |            |           |
|  |                                       | <b>1600</b>        |            |           | <b>1800</b> |            |           | <b>2000</b> |            |           |
|  |                                       | <b>MBH</b>         | <b>COP</b> | <b>KW</b> | <b>MBH</b>  | <b>COP</b> | <b>KW</b> | <b>MBH</b>  | <b>COP</b> | <b>KW</b> |
| 60                                     | 60                                    | 71.2               | 4.5        | 4.60      | 72.4        | 4.7        | 4.56      | 73.6        | 4.8        | 4.52      |
|  | 70                                    | 70.3               | 4.1        | 5.07      | 71.3        | 4.2        | 5.02      | 72.3        | 4.3        | 4.97      |
|  | 80                                    | 69.4               | 3.7        | 5.56      | 70.1        | 3.7        | 5.49      | 70.9        | 3.8        | 5.42      |
| 47                                     | 60                                    | 62.1               | 4.1        | 4.41      | 62.6        | 4.2        | 4.38      | 63.1        | 4.3        | 4.35      |
|  | 70                                    | 61.2               | 3.7        | 4.90      | 61.6        | 3.7        | 4.86      | 62.1        | 3.8        | 4.81      |
|  | 80                                    | 60.2               | 3.3        | 5.37      | 60.6        | 3.3        | 5.31      | 61.1        | 3.4        | 5.25      |
| 40                                     | 60                                    | 56.4               | 3.9        | 4.29      | 56.8        | 3.9        | 4.27      | 57.2        | 4.0        | 4.25      |
|  | 70                                    | 55.7               | 3.4        | 4.78      | 56.0        | 3.5        | 4.74      | 56.2        | 3.5        | 4.70      |
|  | 80                                    | 55.0               | 3.1        | 5.26      | 55.1        | 3.1        | 5.20      | 55.2        | 3.1        | 5.14      |
| 30                                     | 60                                    | 49.4               | 3.5        | 4.14      | 49.8        | 3.5        | 4.16      | 50.1        | 3.5        | 4.19      |
|  | 70                                    | 47.9               | 3.0        | 4.72      | 47.9        | 3.0        | 4.67      | 47.8        | 3.0        | 4.63      |
|  | 80                                    | 46.4               | 2.6        | 5.31      | 46.0        | 2.6        | 5.19      | 45.6        | 2.6        | 5.07      |
| 17                                     | 60                                    | 40.1               | 2.9        | 4.00      | 37.4        | 2.9        | 3.73      | 34.8        | 2.9        | 3.46      |
|  | 70                                    | 41.4               | 2.6        | 4.64      | 40.1        | 2.6        | 4.49      | 38.9        | 2.6        | 4.34      |
|  | 80                                    | 41.2               | 2.3        | 5.15      | 41.5        | 2.4        | 5.15      | 41.7        | 2.4        | 5.15      |
| 10                                     | 60                                    | 36.1               | 2.6        | 3.99      | 36.5        | 2.7        | 4.03      | 37.0        | 2.7        | 4.07      |
|  | 70                                    | 34.7               | 2.3        | 4.47      | 35.8        | 2.3        | 4.50      | 36.8        | 2.4        | 4.53      |
|  | 80                                    | 33.4               | 2.0        | 4.94      | 35.0        | 2.1        | 4.96      | 36.6        | 2.2        | 4.98      |

**NOTE:** ALL CAPACITIES ARE NET, WITH INDOOR FAN HEAT ALREADY DEDUCTED. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

**Multipliers for determining the performance with other indoor sections.**

| <b>Air Handler</b> | <b>Coil</b> | <b>MBH</b> | <b>COP</b> | <b>KW</b> |
|--------------------|-------------|------------|------------|-----------|
| -                  | FC/MC62     | 1.01       | 0.97       | 1.04      |
| AHE60D             | -           | 1.00       | 1.00       | 1.00      |
| AHV60D             | -           | 0.99       | 0.97       | 1.03      |
| MV20D              | FC/MC62D    | 1.00       | 0.99       | 1.01      |
| MV20D              | FC64D       | 1.00       | 1.02       | 0.99      |
| MX20D              | FC/MC62D    | 0.99       | 1.01       | 0.98      |
| MX20D              | FC64D       | 1.00       | 1.04       | 0.97      |

| <b>Furnace</b> | <b>Coil</b> | <b>MBH</b> | <b>COP</b> | <b>KW</b> |
|----------------|-------------|------------|------------|-----------|
| T*(8,L)V*C20   | FC/MC62D    | 0.99       | 0.96       | 1.04      |
| T*(8,L)V*C20   | FC64D       | 1.01       | 1.01       | 1.00      |
| T*(8,L)X*C20   | FC/MC62D    | 0.99       | 0.99       | 1.00      |
| T*(8,L)X*C20   | FC64D       | 0.99       | 1.02       | 0.98      |
| T*9(C,V)*C20   | FC/MC62D    | 1.00       | 0.96       | 1.04      |
| T*9(C,V)*C20   | FC64D       | 1.00       | 0.99       | 1.01      |
| T*9(C,V)*D20   | FC/MC62D    | 0.99       | 0.96       | 1.03      |
| T*9(C,V)*D20   | FC64D       | 1.00       | 0.99       | 1.01      |
| T*9X*C20       | FC/MC62D    | 0.98       | 0.97       | 1.02      |
| T*9X*C20       | FC64D       | 0.99       | 0.99       | 1.00      |
| T*9X*D20       | FC/MC62D    | 0.99       | 0.98       | 1.02      |
| T*9X*D20       | FC64D       | 0.99       | 1.01       | 0.99      |
| C*(8,L)C*C20   | FC/MC62D    | 0.99       | 0.96       | 1.04      |
| C*(8,L)C*C20   | FC64D       | 1.01       | 1.01       | 1.00      |
| C*9C*C20       | FC/MC62D    | 1.00       | 0.96       | 1.04      |
| C*9C*C20       | FC64D       | 1.00       | 0.99       | 1.01      |
| C*9C*D20       | FC/MC62D    | 0.99       | 0.96       | 1.03      |
| C*9C*D20       | FC64D       | 1.00       | 0.99       | 1.01      |