



Air Conditioning & Heating

## PRODUCT SPECIFICATIONS



**10 EER**

**7½ TO 10 Ton**



## GSH COMMERCIAL SPLIT SYSTEM HEAT PUMP

The GSH Commercial heat pump features a louvered metal guard that protects the coil from damage and strengthens the unit. Designed for ground-level or rooftop mount, the unit has a base pan that elevates it above the slab for excellent water drainage.

### Standard Features

- Energy-efficient compressor with internal pressure relief valve
- High-capacity, steel-cased, bi-flow heat pump filter dryer
- Liquid refrigerant return protection
- Check flowrate heating mode expansion device
- Reliable, time-initiated, temperature-terminated defrost control
- Low-pressure switch
- Discharge line muffler
- Brass liquid and suction line service valves mounted at a 90° angle with sweat connections and service ports
- High-efficiency copper tube/aluminum fin coil
- Complies with ASHRAE Standard 90.1
- ARI Certified; ETL Listed

### Cabinet Features

- Unique Goodman® sound control top design
- Steel louver coil guard protects coil from damage and adds strength to the unit
- Heavy-gauge, galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

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NOMENCLATURE

|                  | G                                    | S | H | 10  | 090   | 3                                                      | A  | A  |                  |
|------------------|--------------------------------------|---|---|-----|-------|--------------------------------------------------------|----|----|------------------|
|                  | 1                                    | 2 | 3 | 4,5 | 6,7,8 | 9                                                      | 10 | 11 |                  |
| Brand            | G Goodman®                           |   |   |     |       |                                                        |    |    | Engineering *    |
|                  |                                      |   |   |     |       |                                                        |    |    | Minor Revision   |
| Product Category | S Split System                       |   |   |     |       |                                                        |    |    | Engineering *    |
|                  |                                      |   |   |     |       |                                                        |    |    | Major Revision   |
| Unit Type        | C Condenser R-22<br>H Heat Pump R-22 |   |   |     |       | 3 208/230 V, 3 Phase, 60 Hz<br>4 460 V, 3 Phase, 60 Hz |    |    | Electrical       |
|                  |                                      |   |   |     |       |                                                        |    |    |                  |
| Efficiency       | 10 10 SEER<br>13 13 SEER             |   |   |     |       | 090 7½ tons<br>120 10 Tons                             |    |    | Nominal Capacity |
|                  |                                      |   |   |     |       |                                                        |    |    |                  |

\* Neither used for order entry or inventory management.

# SPECIFICATIONS

|                                             | <b>GSH10<br/>0903AA</b> | <b>GSH10<br/>0904AA</b> | <b>GSH10<br/>1203AA</b> | <b>GSH10<br/>1204AA</b> |
|---------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Capacities and Ratings</b>               |                         |                         |                         |                         |
| Nominal Cooling (BTU/h)                     | 87,000                  | 87,000                  | 110,000                 | 110,000                 |
| Nominal Heating (BTU/h)                     | 82,000                  | 82,000                  | 100,000                 | 100,000                 |
| <b>Compressor</b>                           |                         |                         |                         |                         |
| RLA                                         | 25.6                    | 12.8                    | 30.1                    | 15.5                    |
| LRA                                         | 196                     | 100                     | 225                     | 114                     |
| <b>Condenser Fan Motor</b>                  |                         |                         |                         |                         |
| Horsepower                                  | 1                       | 1                       | 1                       | 1                       |
| FLA                                         | 5.6                     | 2.7                     | 5.6                     | 2.7                     |
| <b>Refrigerant Lines</b>                    |                         |                         |                         |                         |
| Liquid Valve Size ("O.D.") <sup>1</sup>     | 5/8"                    | 5/8"                    | 5/8"                    | 5/8"                    |
| Suction Valve Size ("O.D.") <sup>1</sup>    | 1 1/8"                  | 1 1/8"                  | 1 3/8"                  | 1 3/8"                  |
| Valve Type                                  | Sweat                   | Sweat                   | Sweat                   | Sweat                   |
| Refrigerant Charge                          | 32                      | 32                      | 32                      | 32                      |
| <b>Electrical Data</b>                      |                         |                         |                         |                         |
| AC Volts                                    | 208/230                 | 460                     | 208/230                 | 460                     |
| Hz / Phase                                  | 60 Hz/3                 | 60 Hz/3                 | 60 Hz/3                 | 60 Hz/3                 |
| Minimum Circuit Ampacity <sup>2</sup>       | 37.6                    | 18.7                    | 43.2                    | 22.1                    |
| Maximum Overcurrent Protection <sup>3</sup> | 60                      | 30                      | 70                      | 30                      |
| Min / Max Volts                             | 197/253                 | 414/506                 | 197/253                 | 414/506                 |
| Electrical Conduit Size                     | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            |
| <b>Ship Weight (lbs)</b>                    | <b>254</b>              | <b>254</b>              | <b>296</b>              | <b>296</b>              |

<sup>1</sup> Up to 35' in equivalent line length

<sup>2</sup> Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

<sup>3</sup> Must use time-delay fuses or HACR type Circuit Breakers of the same size as noted

## PERFORMANCE RATINGS

| Heat Pump      | Indoor Model | Cooling Performance |                |                  | Heating Performance |          |            |          | dBs |
|----------------|--------------|---------------------|----------------|------------------|---------------------|----------|------------|----------|-----|
|                |              | Total BTU/h         | Sensible BTU/h | EER <sup>3</sup> | 47° F BTU/h         | 47°F COP | 17°F BTU/h | 17°F COP |     |
| GSH109003AA    | AR090        | 87,000              | 63,500         | 10.1             | 82,000              | 3.0      | 53,000     | 2.0      | 8.4 |
| GSH109004AA    | AR090        | 87,000              | 63,500         | 10.1             | 82,000              | 3.2      | 53,000     | 2.2      | 8.4 |
| GSH101203/-4AA | AR120        | 110,000             | 78,000         | 10.1             | 100,000             | 3.0      | 68,500     | 2.0      | 8.4 |

<sup>1</sup> Energy Efficiency Ratio @ 80 °F/67 °F Inside - 95 °F

**COP Plot GSH100903/-4AA**

| OD Temp | BTU/h   | COP  | Watts |
|---------|---------|------|-------|
| 62      | 113,300 | 3.85 | 8.64  |
| 57      | 101,500 | 3.68 | 8.08  |
| 52      | 91,000  | 3.46 | 7.72  |
| 47      | 82,000  | 3.2  | 7.51  |
| 42      | 74,300  | 2.94 | 7.41  |
| 37      | 67,800  | 2.69 | 7.39  |
| 32      | 62,500  | 2.48 | 7.38  |
| 27      | 58,300  | 2.32 | 7.35  |
| 22      | 55,100  | 2.22 | 7.26  |
| 17      | 53,000  | 2.2  | 7.06  |
| 12      | 49,900  | 2.11 | 6.92  |
| 7       | 47,300  | 2.05 | 6.78  |
| 2       | 44,000  | 1.96 | 6.57  |
| -3      | 41,900  | 1.91 | 6.43  |

**COP Plot GSH101203/-4AA**

| OD Temp | BTU/h   | COP  | Watts |
|---------|---------|------|-------|
| 62      | 145,800 | 3.85 | 11    |
| 57      | 130,800 | 3.68 | 10.4  |
| 52      | 117,400 | 3.46 | 9.96  |
| 47      | 105,500 | 3.2  | 9.66  |
| 42      | 95,200  | 2.94 | 9.5   |
| 37      | 86,500  | 2.69 | 9.43  |
| 32      | 79,500  | 2.48 | 9.4   |
| 27      | 74,100  | 2.32 | 9.37  |
| 22      | 70,400  | 2.22 | 9.29  |
| 17      | 68,500  | 2.2  | 9.13  |
| 12      | 64,500  | 2.11 | 8.94  |
| 7       | 61,200  | 2.05 | 8.76  |
| 2       | 56,900  | 1.97 | 8.49  |
| -3      | 54,100  | 1.91 | 8.3   |

# **PERFORMANCE RATINGS (CONT.)**

**OUTDOOR UNIT GSH100903/-4AA**
**INDOOR UNIT AR090**

| Indoor Air |    | Condenser Air Temperature |      |       |       |      |       |       |      |       |
|------------|----|---------------------------|------|-------|-------|------|-------|-------|------|-------|
|            |    | 75 °F                     |      |       | 85 °F |      |       | 95 °F |      |       |
| SCFM       | WB | Total                     | Sens | Watts | Total | Sens | Watts | Total | Sens | Watts |
| 2465       | 72 | 100.9                     | 47.6 | 8.1   | 96.6  | 45.7 | 8.53  | 91.4  | 43.8 | 8.87  |
|            | 67 | 92.2                      | 59.1 | 7.58  | 87.9  | 57.2 | 7.92  | 83.5  | 55.2 | 8.36  |
|            | 62 | 85.3                      | 69.9 | 7.06  | 80.9  | 67.9 | 7.49  | 78.7  | 66   | 7.92  |
|            | 57 | 81.8                      | 75.6 | 6.89  | 78.3  | 72.4 | 7.32  | 74.8  | 69.2 | 7.75  |
| 2900       | 72 | 105.3                     | 52.7 | 8.36  | 100.1 | 50.8 | 8.7   | 94.8  | 48.9 | 9.13  |
|            | 67 | 96.6                      | 67.3 | 7.84  | 92.2  | 65.4 | 8.18  | 87    | 63.5 | 8.61  |
|            | 62 | 89.6                      | 80.6 | 7.41  | 85.3  | 78.1 | 7.75  | 80.9  | 74.9 | 8.18  |
|            | 57 | 88.7                      | 81.9 | 7.32  | 84.4  | 78.7 | 7.75  | 80.9  | 74.9 | 8.18  |
| 3335       | 72 | 107.9                     | 57.2 | 8.53  | 102.7 | 55.2 | 8.87  | 97.4  | 53.3 | 9.3   |
|            | 67 | 100.1                     | 74.3 | 8.01  | 94.8  | 73   | 8.36  | 89.6  | 71.1 | 8.79  |
|            | 62 | 94                        | 87   | 7.67  | 90.5  | 83.2 | 8.1   | 85.3  | 79.4 | 8.53  |
|            | 57 | 94                        | 87   | 7.67  | 90.5  | 83.2 | 8.1   | 85.3  | 79.4 | 8.53  |

**Notes:**

- Total & Sensible ratings are MBTU/h; Watts ratings are in kW/h
- Sensible heat capacities shown are based on 80°F DB entering air at the evaporator coil. For sensible heat capacities at other than 80°F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80°F, or add 84 BTUH PER 100 CFM of evaporator coil air per degree above 80°F.
- Capacities at 95°F Outdoor, 75°F DB and 63°F WB Indoor

TOTAL MBTU/h 82.1      SENSIBLE MBTU/h 60.5      LATENT MBTU/h 21.7

**OUTDOOR UNIT GSH100903/-4AA (CONT.)**
**INDOOR UNIT AR090**

| Indoor Air |    | Condenser Air Temperature |      |       |        |      |       |
|------------|----|---------------------------|------|-------|--------|------|-------|
|            |    | 105 °F                    |      |       | 115 °F |      |       |
| SCFM       | WB | Total                     | Sens | Watts | Total  | Sens | Watts |
| 2465       | 72 | 86.1                      | 41.9 | 9.3   | 80.9   | 40   | 9.73  |
|            | 67 | 78.3                      | 53.3 | 8.79  | 73.1   | 53.3 | 9.22  |
|            | 62 | 76.6                      | 64.1 | 8.36  | 72.2   | 61.6 | 8.7   |
|            | 57 | 70.5                      | 65.4 | 8.27  | 67     | 61.6 | 8.61  |
| 2900       | 72 | 89.6                      | 47.6 | 9.56  | 83.5   | 45.1 | 9.99  |
|            | 67 | 81.8                      | 61.6 | 9.04  | 76.6   | 59.7 | 9.48  |
|            | 62 | 77.4                      | 71.1 | 8.61  | 73.1   | 67.3 | 9.13  |
|            | 57 | 77.4                      | 71.1 | 8.61  | 73.1   | 67.3 | 9.13  |
| 3335       | 72 | 91.4                      | 51.4 | 9.73  | 86.1   | 50.2 | 10.16 |
|            | 67 | 84.4                      | 68.6 | 9.22  | 79.2   | 66.7 | 9.65  |
|            | 62 | 81.8                      | 75.6 | 8.96  | 76.6   | 71.1 | 9.48  |
|            | 57 | 81.8                      | 75.6 | 8.96  | 76.6   | 71.1 | 9.48  |

**Notes:**

- Total & Sensible ratings are MBTU/h; Watts ratings are in kW/h
- Sensible heat capacities shown are based on 80°F DB entering air at the evaporator coil. For sensible heat capacities at other than 80°F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80°F, or add 84 BTUH PER 100 CFM of evaporator coil air per degree above 80°F.
- Capacities at 95°F Outdoor, 75°F DB and 63°F WB Indoor

TOTAL MBTU/h 82.1      SENSIBLE MBTU/h 60.5      LATENT MBTU/h 21.7

# PERFORMANCE RATINGS (CONT.)

OUTDOOR UNIT GSH101203/-4AA

INDOOR UNIT AR120

| Indoor Air |    | Condenser Air Temperature |       |       |       |       |       |       |      |       |
|------------|----|---------------------------|-------|-------|-------|-------|-------|-------|------|-------|
|            |    | 75 °F                     |       |       | 85 °F |       |       | 95 °F |      |       |
| SCFM       | WB | Total                     | Sens  | Watts | Total | Sens  | Watts | Total | Sens | Watts |
| 3230       | 72 | 126.4                     | 58.9  | 10.14 | 121   | 56.5  | 10.68 | 114.5 | 54.2 | 11.12 |
|            | 67 | 115.5                     | 73    | 9.5   | 110.1 | 70.7  | 9.93  | 104.6 | 68.3 | 10.47 |
|            | 62 | 106.8                     | 86.4  | 8.85  | 101.4 | 84    | 9.39  | 98.6  | 81.6 | 9.93  |
|            | 57 | 102.5                     | 93.4  | 8.63  | 98.1  | 89.5  | 9.17  | 93.7  | 85.6 | 9.71  |
| 3800       | 72 | 131.9                     | 65.2  | 10.47 | 125.4 | 62.8  | 10.9  | 118.8 | 60.4 | 11.44 |
|            | 67 | 121                       | 83.2  | 9.82  | 115.5 | 80.9  | 10.25 | 109   | 78.5 | 10.79 |
|            | 62 | 112.3                     | 99.7  | 9.28  | 106.8 | 96.6  | 9.71  | 101.4 | 92.6 | 10.25 |
|            | 57 | 111.2                     | 101.3 | 9.17  | 105.7 | 97.3  | 9.71  | 101.4 | 92.6 | 10.25 |
| 4370       | 72 | 135.2                     | 70.7  | 10.68 | 128.6 | 68.3  | 11.12 | 122.1 | 65.9 | 11.66 |
|            | 67 | 125.4                     | 91.8  | 10.04 | 118.8 | 90.3  | 10.47 | 112.3 | 87.9 | 11.01 |
|            | 62 | 117.7                     | 107.5 | 9.6   | 113.4 | 102.8 | 10.14 | 106.8 | 98.1 | 10.68 |
|            | 57 | 117.7                     | 107.5 | 9.6   | 113.4 | 102.8 | 10.14 | 106.8 | 98.1 | 10.68 |

**Notes:**

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- Sensible heat capacities shown are based on 80°F DB entering air at the evaporator coil. For sensible heat capacities at other than 80°F DB, deduct 84 BTUH per 100 CFM of evaporator coil air for each degree below 80°F, or add 84 BTUH PER 100 CFM of evaporator coil air per degree above 80°F.
- Capacities at 95°F Outdoor, 75°F DB and 63°F WB Indoor

TOTAL MBTU/h 102.9      SENSIBLE MBTU/h 74.5      LATENT MBTU/h 28.4

OUTDOOR UNIT GSH101203/-4AA (CONT.)

INDOOR UNIT AR120

| Indoor Air |    | Condenser Air Temperature |      |       |        |      |       |
|------------|----|---------------------------|------|-------|--------|------|-------|
|            |    | 105 °F                    |      |       | 115 °F |      |       |
| SCFM       | WB | Total                     | Sens | Watts | Total  | Sens | Watts |
| 3230       | 72 | 107.9                     | 51.8 | 11.66 | 101.4  | 49.5 | 12.2  |
|            | 67 | 98.1                      | 65.9 | 11.01 | 91.6   | 65.9 | 11.55 |
|            | 62 | 95.9                      | 79.3 | 10.47 | 90.5   | 76.1 | 10.9  |
|            | 57 | 88.3                      | 80.9 | 10.36 | 83.9   | 76.1 | 10.79 |
| 3800       | 72 | 112.3                     | 58.9 | 11.98 | 104.6  | 55.7 | 12.52 |
|            | 67 | 102.5                     | 76.1 | 11.33 | 95.9   | 73.8 | 11.87 |
|            | 62 | 97                        | 87.9 | 10.79 | 91.6   | 83.2 | 11.44 |
|            | 57 | 97                        | 87.9 | 10.79 | 91.6   | 83.2 | 11.44 |
| 4370       | 72 | 114.5                     | 63.6 | 12.2  | 107.9  | 62   | 12.73 |
|            | 67 | 105.7                     | 84.8 | 11.55 | 99.2   | 82.4 | 12.09 |
|            | 62 | 102.5                     | 93.4 | 11.22 | 95.9   | 87.9 | 11.87 |
|            | 57 | 102.5                     | 93.4 | 11.22 | 95.9   | 87.9 | 11.87 |

**Notes:**

- Total & Sensible ratings are MBTU/h; Watts ratings are in kW/h
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- Capacities at 95°F Outdoor, 75°F DB and 63°F WB Indoor

TOTAL MBTU/h 102.9      SENSIBLE MBTU/h 74.5      LATENT MBTU/h 28.4

# EXPANDED COOLING DATA — GSH100903A\* / AR090

| IDB     |       | Outdoor Ambient Temperature          |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |       |      |      |    |      |      |       |   |  |  |  |  |
|---------|-------|--------------------------------------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|-------|------|------|----|------|------|-------|---|--|--|--|--|
|         |       | 65°F                                 |      |      |    |      |      | 75°F |    |      |      |      |    | 85°F |      |      |    |      |      | 95°F |    |      |      |      |    | 105°F |      |      |    |      |      | 115°F |   |  |  |  |  |
|         |       | Entering Indoor Wet Bulb Temperature |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |       |      |      |    |      |      |       |   |  |  |  |  |
| Airflow | 59    | 63                                   | 67   | 71   | 59 | 63   | 67   | 71   | 59 | 63   | 67   | 71   | 59 | 63   | 67   | 71   | 59 | 63   | 67   | 71   | 59 | 63   | 67   | 71   | 59 | 63    | 67   | 71   | 59 | 63   | 67   | 71    |   |  |  |  |  |
| 3240    | MBh   | 85.3                                 | 88.4 | 96.8 | -  | 83.3 | 86.3 | 94.6 | -  | 81.3 | 84.3 | 92.3 | -  | 79.3 | 82.2 | 90.1 | -  | 75.3 | 78.1 | 85.6 | -  | 69.8 | 72.3 | 79.3 | -  | 69.8  | 72.3 | 79.3 | -  | 69.8 | 72.3 | 79.3  | - |  |  |  |  |
|         | S/T   | 0.73                                 | 0.61 | 0.42 | -  | 0.76 | 0.63 | 0.44 | -  | 0.78 | 0.65 | 0.45 | -  | 0.80 | 0.67 | 0.47 | -  | 0.83 | 0.70 | 0.48 | -  | 0.84 | 0.70 | 0.49 | -  | 0.84  | 0.70 | 0.49 | -  | 0.84 | 0.70 | 0.49  | - |  |  |  |  |
|         | ΔT    | 18                                   | 15   | 12   | -  | 18   | 16   | 12   | -  | 18   | 16   | 12   | -  | 18   | 16   | 12   | -  | 18   | 15   | 12   | -  | 17   | 14   | 11   | -  | 17    | 14   | 11   | -  | 17   | 14   | 11    | - |  |  |  |  |
|         | kW    | 6.80                                 | 6.93 | 7.14 | -  | 7.29 | 7.44 | 7.67 | -  | 7.73 | 7.89 | 8.13 | -  | 8.11 | 8.28 | 8.54 | -  | 8.44 | 8.62 | 8.89 | -  | 8.72 | 8.90 | 9.19 | -  | 8.72  | 8.90 | 9.19 | -  | 8.72 | 8.90 | 9.19  | - |  |  |  |  |
|         | Amps  | 15.7                                 | 16.1 | 16.6 | -  | 17.0 | 17.4 | 18.0 | -  | 18.4 | 18.9 | 19.5 | -  | 19.7 | 20.2 | 20.9 | -  | 21.0 | 21.5 | 22.3 | -  | 22.3 | 22.8 | 23.6 | -  | 22.3  | 22.8 | 23.6 | -  | 22.3 | 22.8 | 23.6  | - |  |  |  |  |
|         | Hi PR | 153                                  | 164  | 174  | -  | 171  | 185  | 195  | -  | 195  | 210  | 222  | -  | 222  | 239  | 252  | -  | 250  | 269  | 284  | -  | 276  | 297  | 314  | -  | 276   | 297  | 314  | -  | 276  | 297  | 314   | - |  |  |  |  |
| 70      | Lo PR | 57                                   | 61   | 66   | -  | 60   | 64   | 70   | -  | 62   | 66   | 73   | -  | 66   | 70   | 76   | -  | 69   | 73   | 80   | -  | 71   | 76   | 83   | -  | 71    | 76   | 83   | -  | 71   | 76   | 83    | - |  |  |  |  |
|         | MBh   | 82.8                                 | 85.8 | 94.0 | -  | 80.8 | 83.8 | 91.8 | -  | 78.9 | 81.8 | 89.6 | -  | 77.0 | 79.8 | 87.4 | -  | 73.1 | 75.8 | 83.1 | -  | 67.8 | 70.2 | 76.9 | -  | 67.8  | 70.2 | 76.9 | -  | 67.8 | 70.2 | 76.9  | - |  |  |  |  |
|         | S/T   | 0.70                                 | 0.58 | 0.40 | -  | 0.72 | 0.61 | 0.42 | -  | 0.74 | 0.62 | 0.43 | -  | 0.77 | 0.64 | 0.44 | -  | 0.80 | 0.66 | 0.46 | -  | 0.80 | 0.67 | 0.46 | -  | 0.80  | 0.67 | 0.46 | -  | 0.80 | 0.67 | 0.46  | - |  |  |  |  |
|         | ΔT    | 18                                   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 17   | 15   | 11   | -  | 17    | 15   | 11   | -  | 17   | 15   | 11    | - |  |  |  |  |
|         | kW    | 6.75                                 | 6.88 | 7.09 | -  | 7.23 | 7.38 | 7.61 | -  | 7.67 | 7.82 | 8.07 | -  | 8.05 | 8.22 | 8.47 | -  | 8.37 | 8.55 | 8.82 | -  | 8.65 | 8.83 | 9.11 | -  | 8.65  | 8.83 | 9.11 | -  | 8.65 | 8.83 | 9.11  | - |  |  |  |  |
|         | Amps  | 15.5                                 | 15.9 | 16.4 | -  | 16.8 | 17.2 | 17.8 | -  | 18.3 | 18.7 | 19.4 | -  | 19.5 | 20.0 | 20.7 | -  | 20.8 | 21.3 | 22.1 | -  | 22.1 | 22.6 | 23.4 | -  | 22.1  | 22.6 | 23.4 | -  | 22.1 | 22.6 | 23.4  | - |  |  |  |  |
| 2520    | Hi PR | 151                                  | 163  | 172  | -  | 170  | 183  | 193  | -  | 193  | 208  | 219  | -  | 220  | 237  | 250  | -  | 247  | 266  | 281  | -  | 273  | 294  | 311  | -  | 273   | 294  | 311  | -  | 273  | 294  | 311   | - |  |  |  |  |
|         | Lo PR | 56                                   | 60   | 65   | -  | 60   | 63   | 69   | -  | 62   | 66   | 72   | -  | 65   | 69   | 75   | -  | 68   | 72   | 79   | -  | 70   | 75   | 82   | -  | 70    | 75   | 82   | -  | 70   | 75   | 82    | - |  |  |  |  |
|         | MBh   | 76.4                                 | 79.2 | 86.8 | -  | 74.6 | 77.3 | 84.7 | -  | 72.8 | 75.5 | 82.7 | -  | 71.1 | 73.7 | 80.7 | -  | 67.5 | 70.0 | 76.7 | -  | 62.5 | 64.8 | 71.0 | -  | 62.5  | 64.8 | 71.0 | -  | 62.5 | 64.8 | 71.0  | - |  |  |  |  |
|         | S/T   | 0.67                                 | 0.56 | 0.39 | -  | 0.70 | 0.58 | 0.40 | -  | 0.72 | 0.60 | 0.41 | -  | 0.74 | 0.62 | 0.43 | -  | 0.77 | 0.64 | 0.44 | -  | 0.77 | 0.65 | 0.45 | -  | 0.77  | 0.65 | 0.45 | -  | 0.77 | 0.65 | 0.45  | - |  |  |  |  |
|         | ΔT    | 19                                   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 13   | -  | 19   | 17   | 13   | -  | 19   | 16   | 12   | -  | 18   | 15   | 12   | -  | 18    | 15   | 12   | -  | 18   | 15   | 12    | - |  |  |  |  |
|         | kW    | 6.60                                 | 6.73 | 6.92 | -  | 7.07 | 7.21 | 7.43 | -  | 7.49 | 7.64 | 7.88 | -  | 7.86 | 8.02 | 8.27 | -  | 8.17 | 8.34 | 8.60 | -  | 8.44 | 8.62 | 8.89 | -  | 8.44  | 8.62 | 8.89 | -  | 8.44 | 8.62 | 8.89  | - |  |  |  |  |
| 2520    | Amps  | 15.1                                 | 15.5 | 16.0 | -  | 16.3 | 16.7 | 17.3 | -  | 17.8 | 18.2 | 18.8 | -  | 19.0 | 19.5 | 20.1 | -  | 20.2 | 20.7 | 21.4 | -  | 21.5 | 22.0 | 22.7 | -  | 21.5  | 22.0 | 22.7 | -  | 21.5 | 22.0 | 22.7  | - |  |  |  |  |
|         | Hi PR | 147                                  | 158  | 167  | -  | 165  | 177  | 187  | -  | 187  | 202  | 213  | -  | 213  | 230  | 242  | -  | 240  | 258  | 273  | -  | 265  | 285  | 301  | -  | 265   | 285  | 301  | -  | 265  | 285  | 301   | - |  |  |  |  |
|         | Lo PR | 55                                   | 58   | 63   | -  | 58   | 61   | 67   | -  | 60   | 64   | 70   | -  | 63   | 67   | 73   | -  | 66   | 70   | 77   | -  | 68   | 73   | 79   | -  | 68    | 73   | 79   | -  | 68   | 73   | 79    | - |  |  |  |  |

|      |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75   | MBh   | 86.70 | 89.26 | 96.62 | 103.7 | 84.68 | 87.19 | 94.37 | 101.29 | 82.67 | 85.11 | 92.13 | 98.88 | 80.65 | 83.04 | 89.88 | 96.46 | 76.62 | 78.88 | 85.38 | 91.64 | 70.97 | 73.07 | 79.09 | 84.89 |
|      | S/T   | 0.83  | 0.75  | 0.56  | 0.36  | 0.86  | 0.77  | 0.58  | 0.38   | 0.89  | 0.79  | 0.60  | 0.39  | 0.91  | 0.82  | 0.62  | 0.40  | 0.95  | 0.85  | 0.64  | 0.41  | 0.96  | 0.86  | 0.65  | 0.42  |
|      | ΔT    | 21    | 19    | 15    | 11    | 21    | 19    | 16    | 11     | 21    | 19    | 16    | 11    | 21    | 19    | 16    | 11    | 21    | 19    | 16    | 11    | 19    | 18    | 15    | 10    |
|      | kW    | 6.85  | 6.99  | 7.19  | 7.41  | 7.35  | 7.50  | 7.73  | 7.97   | 7.79  | 7.95  | 8.20  | 8.45  | 8.17  | 8.35  | 8.61  | 8.89  | 8.50  | 8.69  | 8.96  | 9.25  | 8.79  | 8.98  | 9.26  | 9.57  |
|      | Amps  | 15.8  | 16.2  | 16.7  | 17.4  | 17.1  | 17.5  | 18.1  | 18.8   | 18.6  | 19.1  | 19.7  | 20.5  | 19.9  | 20.4  | 21.1  | 21.9  | 21.2  | 21.7  | 22.5  | 23.3  | 22.5  | 23.1  | 23.8  | 24.8  |
|      | Hi PR | 154   | 166   | 175   | 183   | 173   | 186   | 197   | 205    | 197   | 212   | 224   | 233   | 224   | 241   | 255   | 266   | 252   | 272   | 287   | 299   | 279   | 300   | 317   | 331   |
|      | Lo PR | 57    | 61    | 67    | 71    | 61    | 65    | 71    | 75     | 63    | 67    | 73    | 78    | 66    | 71    | 77    | 82    | 69    | 74    | 81    | 86    | 72    | 76    | 83    | 89    |
|      | MBh   | 84.2  | 86.7  | 93.8  | 100.7 | 82.2  | 84.6  | 91.6  | 98.3   | 80.3  | 82.6  | 89.4  | 96.0  | 78.3  | 80.6  | 87.3  | 93.7  | 74.4  | 76.6  | 82.9  | 89.0  | 68.9  | 70.9  | 76.8  | 82.4  |
|      | S/T   | 0.79  | 0.71  | 0.54  | 0.35  | 0.82  | 0.74  | 0.56  | 0.36   | 0.84  | 0.76  | 0.57  | 0.37  | 0.87  | 0.78  | 0.59  | 0.38  | 0.90  | 0.81  | 0.61  | 0.39  | 0.91  | 0.82  | 0.62  | 0.40  |
|      | ΔT    | 21    | 20    | 16    | 11    | 22    | 20    | 16    | 11     | 22    | 20    | 16    | 11    | 22    | 20    | 16    | 11    | 21    | 20    | 16    | 11    | 20    | 18    | 15    | 10    |
| 2520 | kW    | 6.80  | 6.93  | 7.14  | 7.36  | 7.29  | 7.44  | 7.67  | 7.90   | 7.73  | 7.89  | 8.13  | 8.39  | 8.11  | 8.28  | 8.54  | 8.81  | 8.44  | 8.62  | 8.89  | 9.18  | 8.72  | 8.91  | 9.19  | 9.49  |
|      | Amps  | 15.7  | 16.1  | 16.6  | 17.2  | 17.0  | 17.4  | 18.0  | 18.6   | 18.4  | 18.9  | 19.5  | 20.3  | 19.7  | 20.2  | 20.9  | 21.7  | 21.0  | 21.5  | 22.3  | 23.1  | 22.3  | 22.8  | 23.6  | 24.5  |
|      | Hi PR | 153   | 164   | 174   | 181   | 172   | 185   | 195   | 203    | 195   | 210   | 222   | 231   | 222   | 239   | 252   | 263   | 250   | 269   | 284   | 296   | 276   | 297   | 314   | 327   |
|      | Lo PR | 57    | 61    | 66    | 70    | 60    | 64    | 70    | 74     | 62    | 66    | 73    | 77    | 66    | 70    | 76    | 81    | 69    | 73    | 80    | 85    | 71    | 76    | 83    | 88    |
|      | MBh   | 77.7  | 80.0  | 86.6  | 92.9  | 75.9  | 78.1  | 84.6  | 90.8   | 74.1  | 76.3  | 82.6  | 88.6  | 72.3  | 74.1  | 80.5  | 86.4  | 68.7  | 70.7  | 76.5  | 82.1  | 63.6  | 65.5  | 70.9  | 76.1  |
|      | S/T   | 0.77  | 0.69  | 0.52  | 0.33  | 0.79  | 0.71  | 0.54  | 0.35   | 0.81  | 0.73  | 0.55  | 0.35  | 0.84  | 0.75  | 0.57  | 0.37  | 0.87  | 0.78  | 0.59  | 0.38  | 0.88  | 0.79  | 0.60  | 0.38  |
|      | ΔT    | 22    | 20    | 16    | 11    | 22    | 20    | 17    | 11     | 22    | 20    | 17    | 11    | 22    | 20    | 17    | 12    | 22    | 20    | 16    | 11    | 20    | 19    | 15    | 11    |
|      | kW    | 6.65  | 6.78  | 6.98  | 7.19  | 7.12  | 7.27  | 7.49  | 7.72   | 7.55  | 7.70  | 7.94  | 8.19  | 7.92  | 8.08  | 8.34  | 8.60  | 8.24  | 8.41  | 8.67  | 8.95  | 8.51  | 8.69  | 8.97  | 9.26  |
|      | Amps  | 15.3  | 15.6  | 16.1  | 16.7  | 16.5  | 16.9  | 17.5  | 18.1   | 17.9  | 18.4  | 19.0  | 19.7  | 19.2  | 19.7  | 20.3  | 21.1  | 20.4  | 20.9  | 21.6  | 22.5  | 21.7  | 22.2  | 22.9  | 23.8  |
|      | Hi PR | 148   | 160   | 168   | 176   | 166   | 179   | 189   | 197    | 189   | 204   | 215   | 224   | 195   | 232   | 245   | 255   | 242   | 261   | 275   | 287   | 268   | 288   | 304   | 317   |
|      | Lo PR | 55    | 59    | 64    | 68    | 58    | 62    | 68    | 72     | 61    | 64    | 70    | 75    | 64    | 68    | 74    | 79    | 67    | 71    | 77    | 83    | 69    | 73    | 80    | 85    |

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature kW= Total system power Amps = outdoor unit amps (comp. + fan)  
 High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

# EXPANDED COOLING DATA — GSH100903A\* / AR090 (CONT.)

|                                                                               |         | Outdoor Ambient Temperature          |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------|---------|--------------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--------------------------------------|--|--|--|--|--|--|--|--|--|
|                                                                               |         | 65°F                                 |       |       |        | 75°F  |       |       |       | 85°F  |       |       |       | 95°F  |       |       |       | 105°F |       |       |       | 115°F |       |       |       |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               |         | Entering Indoor Wet Bulb Temperature |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| IDB                                                                           | Airflow | 59                                   | 63    | 67    | 71     | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| 80                                                                            | MBh     | 88.24                                | 90.17 | 96.33 | 102.98 | 86.19 | 88.07 | 94.09 |       | 84.13 | 85.97 | 91.85 | 98.19 | 82.08 | 83.87 | 89.61 | 95.79 | 77.98 | 79.68 | 85.13 | 91.00 | 72.23 | 73.81 | 78.86 | 84.30 |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.91                                 | 0.86  | 0.70  | 0.52   | 0.95  | 0.89  | 0.72  | 0.54  | 1.00  | 0.91  | 0.74  | 0.55  | 1.00  | 0.94  | 0.77  | 0.57  | 1.00  | 1.00  | 0.79  | 0.59  | 1.00  | 1.00  | 0.80  | 0.60  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 23                                   | 22    | 19    | 15     | 23    | 22    | 19    | 15    | 24    | 22    | 19    | 15    | 23    | 22    | 19    | 16    | 22    | 23    | 19    | 15    | 20    | 21    | 18    | 14    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.90                                 | 7.04  | 7.25  | 7.47   | 7.40  | 7.56  | 7.79  | 8.03  | 7.85  | 8.01  | 8.26  | 8.52  | 8.24  | 8.41  | 8.68  | 8.96  | 8.57  | 8.76  | 9.03  | 9.33  | 8.86  | 9.05  | 9.34  | 9.65  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 16.0                                 | 16.4  | 16.9  | 17.5   | 17.3  | 17.7  | 18.3  | 19.0  | 18.8  | 19.3  | 19.9  | 20.7  | 20.1  | 20.6  | 21.3  | 22.1  | 21.4  | 21.9  | 22.7  | 23.6  | 22.7  | 23.3  | 24.1  | 25.0  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 156                                  | 168   | 177   | 185    | 175   | 188   | 199   | 207   | 199   | 214   | 226   | 236   | 227   | 244   | 258   | 269   | 255   | 274   | 290   | 302   | 282   | 303   | 320   | 334   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 58                                   | 62    | 67    | 72     | 61    | 65    | 71    | 76    | 64    | 68    | 74    | 79    | 67    | 71    | 78    | 83    | 70    | 75    | 82    | 87    | 73    | 77    | 84    | 90    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 85.7                                 | 87.5  | 93.5  | 100.0  | 83.7  | 85.5  | 91.4  | 97.7  | 81.7  | 83.5  | 89.2  | 95.3  | 79.7  | 81.4  | 87.0  | 93.0  | 75.7  | 77.4  | 82.7  | 88.4  | 70.1  | 71.7  | 76.6  | 81.8  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.87                                 | 0.82  | 0.67  | 0.50   | 0.90  | 0.85  | 0.69  | 0.52  | 0.93  | 0.87  | 0.71  | 0.53  | 0.96  | 0.90  | 0.73  | 0.55  | 0.99  | 0.93  | 0.76  | 0.57  | 1.00  | 0.94  | 0.76  | 0.57  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 23    | 20    | 16     | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 22    | 21    | 19    | 15    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| 2880                                                                          | kW      | 6.85                                 | 6.99  | 7.20  | 7.41   | 7.35  | 7.50  | 7.73  | 7.97  | 7.79  | 7.95  | 8.20  | 8.46  | 8.18  | 8.35  | 8.61  | 8.89  | 8.51  | 8.69  | 8.96  | 9.25  | 8.79  | 8.98  | 9.27  | 9.57  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 15.8                                 | 16.2  | 16.7  | 17.4   | 17.1  | 17.5  | 18.1  | 18.8  | 18.6  | 19.1  | 19.7  | 20.5  | 19.9  | 20.4  | 21.1  | 21.9  | 21.2  | 21.7  | 22.5  | 23.3  | 22.5  | 23.1  | 23.8  | 24.8  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 154                                  | 166   | 175   | 183    | 173   | 186   | 197   | 205   | 197   | 212   | 224   | 234   | 224   | 241   | 255   | 266   | 252   | 272   | 287   | 299   | 279   | 300   | 317   | 331   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 57                                   | 61    | 67    | 71     | 61    | 65    | 71    | 75    | 63    | 67    | 73    | 78    | 66    | 71    | 77    | 82    | 69    | 74    | 81    | 86    | 72    | 76    | 83    | 89    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 79.1                                 | 80.8  | 86.3  | 92.3   | 77.2  | 78.9  | 84.3  | 90.1  | 75.4  | 77.0  | 82.3  | 88.0  | 73.6  | 75.2  | 80.3  | 85.8  | 69.9  | 71.4  | 76.3  | 81.5  | 64.7  | 66.1  | 70.7  | 75.5  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.84                                 | 0.79  | 0.64  | 0.48   | 0.87  | 0.82  | 0.67  | 0.50  | 0.89  | 0.84  | 0.68  | 0.51  | 0.92  | 0.86  | 0.70  | 0.53  | 0.96  | 0.90  | 0.73  | 0.55  | 0.97  | 0.91  | 0.74  | 0.55  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 23    | 20    | 16     | 25    | 24    | 20    | 16    | 25    | 24    | 20    | 16    | 25    | 24    | 21    | 16    | 24    | 23    | 20    | 16    | 23    | 22    | 19    | 15    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.70                                 | 6.83  | 7.03  | 7.24   | 7.18  | 7.32  | 7.55  | 7.78  | 7.61  | 7.76  | 8.00  | 8.25  | 7.98  | 8.15  | 8.40  | 8.67  | 8.30  | 8.48  | 8.74  | 9.03  | 8.58  | 8.76  | 9.04  | 9.33  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 15.4                                 | 15.8  | 16.3  | 16.9   | 16.7  | 17.1  | 17.6  | 18.3  | 18.1  | 18.5  | 19.2  | 19.9  | 19.4  | 19.8  | 20.5  | 21.3  | 20.6  | 21.1  | 21.8  | 22.7  | 21.9  | 22.4  | 23.2  | 24.1  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 150                                  | 161   | 170   | 177    | 168   | 181   | 191   | 199   | 191   | 206   | 217   | 227   | 218   | 234   | 247   | 258   | 245   | 264   | 278   | 290   | 271   | 291   | 307   | 321   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 56      | 59                                   | 65    | 69    | 59     | 63    | 68    | 73    | 61    | 65    | 71    | 76    | 64    | 68    | 75    | 80    | 67    | 72    | 78    | 83    | 70    | 74    | 81    | 86    |       |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| 85                                                                            | MBh     | 89.78                                | 91.52 | 95.85 | 102.26 | 87.69 | 89.39 | 93.62 | 99.88 | 85.60 | 87.26 | 91.39 | 97.50 | 83.52 | 85.13 | 89.16 | 95.12 | 79.34 | 80.88 | 84.70 | 90.37 | 73.49 | 74.92 | 78.46 | 83.71 |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.96                                 | 0.92  | 0.83  | 0.68   | 0.99  | 0.96  | 0.86  | 0.70  | 1.00  | 0.98  | 0.89  | 0.72  | 1.00  | 1.00  | 0.92  | 0.74  | 1.00  | 1.00  | 0.95  | 0.77  | 1.00  | 1.00  | 0.96  | 0.78  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 24    | 23    | 20     | 25    | 24    | 23    | 20    | 24    | 24    | 23    | 20    | 24    | 24    | 23    | 20    | 23    | 23    | 23    | 20    | 21    | 21    | 18    | 14    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.95                                 | 7.09  | 7.31  | 7.53   | 7.46  | 7.61  | 7.85  | 8.09  | 7.91  | 8.07  | 8.33  | 8.59  | 8.31  | 8.48  | 8.75  | 9.03  | 8.64  | 8.83  | 9.11  | 9.40  | 8.93  | 9.12  | 9.42  | 9.73  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 16.1                                 | 16.5  | 17.1  | 17.7   | 17.4  | 17.9  | 18.5  | 19.2  | 19.0  | 19.4  | 20.1  | 20.9  | 20.3  | 20.8  | 21.5  | 22.3  | 21.6  | 22.2  | 22.9  | 23.8  | 22.9  | 23.5  | 24.3  | 25.2  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 157                                  | 169   | 179   | 187    | 177   | 190   | 201   | 209   | 201   | 216   | 228   | 238   | 229   | 246   | 260   | 271   | 258   | 277   | 293   | 305   | 285   | 306   | 323   | 337   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 59                                   | 62    | 68    | 73     | 62    | 66    | 72    | 77    | 64    | 68    | 75    | 80    | 68    | 72    | 79    | 84    | 71    | 75    | 82    | 88    | 73    | 78    | 85    | 91    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 87.2                                 | 88.9  | 93.1  | 99.3   | 85.1  | 86.8  | 90.9  | 97.0  | 83.1  | 84.7  | 88.7  | 94.7  | 81.1  | 82.7  | 86.6  | 92.4  | 77.0  | 78.5  | 82.2  | 87.7  | 71.4  | 72.7  | 76.2  | 81.3  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.91                                 | 0.88  | 0.80  | 0.65   | 0.95  | 0.91  | 0.82  | 0.67  | 0.97  | 0.94  | 0.85  | 0.69  | 1.00  | 0.97  | 0.87  | 0.71  | 1.00  | 1.00  | 0.91  | 0.74  | 1.00  | 1.00  | 0.91  | 0.74  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 25                                   | 25    | 24    | 20     | 26    | 25    | 24    | 21    | 26    | 25    | 24    | 21    | 26    | 26    | 24    | 21    | 25    | 25    | 24    | 21    | 23    | 23    | 22    | 19    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| 2880                                                                          | kW      | 6.90                                 | 7.04  | 7.25  | 7.47   | 7.40  | 7.56  | 7.79  | 8.03  | 7.85  | 8.01  | 8.26  | 8.52  | 8.24  | 8.41  | 8.68  | 8.96  | 8.57  | 8.76  | 9.03  | 9.33  | 8.86  | 9.05  | 9.34  | 9.65  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 16.0                                 | 16.4  | 16.9  | 17.5   | 17.3  | 17.7  | 18.3  | 19.0  | 18.8  | 19.3  | 19.9  | 20.7  | 20.1  | 20.6  | 21.3  | 22.1  | 21.4  | 21.9  | 22.7  | 23.6  | 22.7  | 23.3  | 24.1  | 25.0  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 156                                  | 168   | 177   | 185    | 175   | 188   | 199   | 207   | 199   | 214   | 226   | 236   | 227   | 244   | 258   | 269   | 255   | 274   | 290   | 302   | 282   | 303   | 320   | 334   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 58                                   | 62    | 67    | 72     | 61    | 65    | 71    | 76    | 64    | 68    | 74    | 79    | 67    | 71    | 78    | 83    | 70    | 75    | 82    | 87    | 73    | 77    | 84    | 90    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 80.5                                 | 82.0  | 85.9  | 91.6   | 78.6  | 80.1  | 83.9  | 89.5  | 76.7  | 78.2  | 81.9  | 87.4  | 74.8  | 76.3  | 79.9  | 85.2  | 71.1  | 72.5  | 75.9  | 81.0  | 65.9  | 67.1  | 70.3  | 75.0  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.88                                 | 0.85  | 0.77  | 0.62   | 0.91  | 0.88  | 0.80  | 0.65  | 0.94  | 0.90  | 0.82  | 0.66  | 0.97  | 0.93  | 0.84  | 0.68  | 1.00  | 0.97  | 0.87  | 0.71  | 1.00  | 0.98  | 0.88  | 0.71  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 26                                   | 25    | 24    | 21     | 26    | 26    | 24    | 21    | 26    | 26    | 24    | 21    | 26    | 26    | 25    | 21    | 26    | 26    | 24    | 21    | 24    | 24    | 23    | 20    |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.75                                 | 6.88  | 7.08  | 7.30   | 7.23  | 7.38  | 7.60  | 7.84  | 7.66  | 7.82  | 8.06  | 8.32  | 8.04  | 8.21  | 8.47  | 8.74  | 8.37  | 8.54  | 8.81  | 9.10  | 8.65  | 8.83  | 9.11  | 9.41  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 15.5                                 | 15.9  | 16.4  | 17.1   | 16.8  | 17.2  | 17.8  | 18.5  | 18.3  | 18.7  | 19.3  | 20.1  | 19.5  | 20.0  | 20.7  | 21.5  | 20.8  | 21.3  | 22.1  | 22.9  | 22.1  | 22.6  | 23.4  | 24.3  |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 151                                  | 163   | 172   | 179    | 170   | 183   | 193   | 201   | 193   | 208   | 219   | 229   | 220   | 237   | 250   | 261   | 247   | 266   | 281   | 293   | 273   | 294   | 311   | 324   |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 56      | 60                                   | 65    | 70    | 59     | 63    | 69    | 74    | 62    | 66    | 72    | 76    | 65    | 69    | 75    | 80    | 68    | 72    | 79    | 84    | 70    | 75    | 82    | 87    |       |                                                                              |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |
| Shaded area is ARI Rating Conditions                                          |         |                                      |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | IDB: Entering Indoor Dry Bulb Temperature                                    |  |  |  |  |  |  |  |  |  | kW=Total system power |  |  |  |  |  |  |  |  |  | Amps = outdoor unit amps (comp.+fan) |  |  |  |  |  |  |  |  |  |
| High and low pressures are measured at the liquid and suction service valves. |         |                                      |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |                                      |  |  |  |  |  |  |  |  |  |

# EXPANDED COOLING DATA — GSH100904A\* / AR090

|       |         | Outdoor Ambient Temperature          |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |       |      |      |    |       |      |      |    |
|-------|---------|--------------------------------------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|-------|------|------|----|-------|------|------|----|
|       |         | 65°F                                 |      |      |    | 75°F |      |      |    | 85°F |      |      |    | 95°F |      |      |    | 105°F |      |      |    | 115°F |      |      |    |
|       |         | Entering Indoor Wet Bulb Temperature |      |      |    |      |      |      |    |      |      |      |    |      |      |      |    |       |      |      |    |       |      |      |    |
| IDB   | Airflow | 59                                   | 63   | 67   | 71 | 59   | 63   | 67   | 71 | 59   | 63   | 67   | 71 | 59   | 63   | 67   | 71 | 59    | 63   | 67   | 71 | 59    | 63   | 67   | 71 |
| 70    | MBh     | 85.3                                 | 88.4 | 96.8 | -  | 83.3 | 86.3 | 94.6 | -  | 81.3 | 84.3 | 92.3 | -  | 79.3 | 82.2 | 90.1 | -  | 75.3  | 78.1 | 85.6 | -  | 69.8  | 72.3 | 79.3 | -  |
|       | S/T     | 0.73                                 | 0.61 | 0.42 | -  | 0.76 | 0.63 | 0.44 | -  | 0.78 | 0.65 | 0.45 | -  | 0.80 | 0.67 | 0.47 | -  | 0.83  | 0.70 | 0.48 | -  | 0.84  | 0.70 | 0.49 | -  |
|       | ΔT      | 18                                   | 15   | 12   | -  | 18   | 16   | 12   | -  | 18   | 16   | 12   | -  | 18   | 16   | 12   | -  | 18    | 15   | 12   | -  | 17    | 14   | 11   | -  |
|       | kW      | 6.86                                 | 7.00 | 7.20 | -  | 7.35 | 7.50 | 7.72 | -  | 7.78 | 7.94 | 8.18 | -  | 8.16 | 8.32 | 8.58 | -  | 8.48  | 8.66 | 8.92 | -  | 8.76  | 8.94 | 9.22 | -  |
|       | Amps    | 7.7                                  | 7.9  | 8.2  | -  | 8.4  | 8.6  | 8.9  | -  | 9.1  | 9.3  | 9.6  | -  | 9.7  | 10.0 | 10.3 | -  | 10.4  | 10.6 | 11.0 | -  | 11.0  | 11.3 | 11.6 | -  |
|       | Hi PR   | 150                                  | 161  | 170  | -  | 168  | 181  | 191  | -  | 191  | 206  | 217  | -  | 218  | 234  | 247  | -  | 245   | 264  | 278  | -  | 271   | 291  | 308  | -  |
|       | Lo PR   | 57                                   | 61   | 66   | -  | 60   | 64   | 70   | -  | 62   | 66   | 73   | -  | 66   | 70   | 76   | -  | 69    | 73   | 80   | -  | 71    | 76   | 83   | -  |
|       | MBh     | 82.8                                 | 85.8 | 94.0 | -  | 80.8 | 83.8 | 91.8 | -  | 78.9 | 81.8 | 89.6 | -  | 77.0 | 79.8 | 87.4 | -  | 73.1  | 75.8 | 83.1 | -  | 67.8  | 70.2 | 76.9 | -  |
|       | S/T     | 0.70                                 | 0.58 | 0.40 | -  | 0.72 | 0.61 | 0.42 | -  | 0.74 | 0.62 | 0.43 | -  | 0.77 | 0.64 | 0.44 | -  | 0.80  | 0.66 | 0.46 | -  | 0.80  | 0.67 | 0.46 | -  |
|       | ΔT      | 18                                   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19    | 16   | 12   | -  | 17    | 15   | 11   | -  |
| 2880  | kW      | 6.81                                 | 6.95 | 7.15 | -  | 7.29 | 7.44 | 7.66 | -  | 7.72 | 7.88 | 8.11 | -  | 8.09 | 8.26 | 8.51 | -  | 8.41  | 8.59 | 8.85 | -  | 8.69  | 8.87 | 9.15 | -  |
|       | Amps    | 7.7                                  | 7.8  | 8.1  | -  | 8.3  | 8.5  | 8.8  | -  | 9.0  | 9.2  | 9.5  | -  | 9.6  | 9.9  | 10.2 | -  | 10.3  | 10.5 | 10.9 | -  | 10.9  | 11.1 | 11.5 | -  |
|       | Hi PR   | 148                                  | 160  | 169  | -  | 166  | 179  | 189  | -  | 189  | 204  | 215  | -  | 216  | 232  | 245  | -  | 243   | 261  | 276  | -  | 268   | 288  | 305  | -  |
|       | Lo PR   | 56                                   | 60   | 65   | -  | 60   | 63   | 69   | -  | 62   | 66   | 72   | -  | 65   | 69   | 75   | -  | 68    | 72   | 79   | -  | 70    | 75   | 82   | -  |
|       | MBh     | 76.4                                 | 79.2 | 86.8 | -  | 74.6 | 77.3 | 84.7 | -  | 72.8 | 75.5 | 82.7 | -  | 71.1 | 73.7 | 80.7 | -  | 67.5  | 70.0 | 76.7 | -  | 62.5  | 64.8 | 71.0 | -  |
| 2520  | S/T     | 0.67                                 | 0.56 | 0.39 | -  | 0.70 | 0.58 | 0.40 | -  | 0.72 | 0.60 | 0.41 | -  | 0.74 | 0.62 | 0.43 | -  | 0.77  | 0.64 | 0.44 | -  | 0.77  | 0.65 | 0.45 | -  |
|       | ΔT      | 19                                   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 13   | -  | 19   | 17   | 13   | -  | 19    | 16   | 12   | -  | 18    | 15   | 12   | -  |
|       | kW      | 6.67                                 | 6.79 | 6.99 | -  | 7.13 | 7.27 | 7.49 | -  | 7.54 | 7.70 | 7.93 | -  | 7.91 | 8.07 | 8.31 | -  | 8.22  | 8.39 | 8.64 | -  | 8.48  | 8.66 | 8.93 | -  |
|       | Amps    | 7.5                                  | 7.6  | 7.9  | -  | 8.1  | 8.3  | 8.5  | -  | 8.8  | 9.0  | 9.3  | -  | 9.4  | 9.6  | 9.9  | -  | 10.0  | 10.2 | 10.6 | -  | 10.6  | 10.8 | 11.2 | -  |
|       | Hi PR   | 144                                  | 155  | 164  | -  | 161  | 174  | 183  | -  | 184  | 198  | 209  | -  | 209  | 225  | 238  | -  | 235   | 253  | 267  | -  | 260   | 280  | 295  | -  |
| Lo PR | 55      | 58                                   | 63   | -    | 58 | 61   | 67   | -    | 60 | 64   | 70   | -    | 63 | 67   | 73   | -    | 66 | 70    | 77   | -    | 68 | 73    | 79   | -    |    |

|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3240  | MBh   | 86.70 | 89.26 | 96.62 | 103.7 | 84.68 | 87.19 | 94.37 | 101.29 | 82.67 | 85.11 | 92.13 | 98.88 | 80.65 | 83.04 | 89.88 | 96.46 | 76.62 | 78.88 | 85.38 | 91.64 | 70.97 | 73.07 | 79.09 | 84.89 |
|       | S/T   | 0.83  | 0.75  | 0.56  | 0.36  | 0.86  | 0.77  | 0.58  | 0.38   | 0.89  | 0.79  | 0.60  | 0.39  | 0.91  | 0.82  | 0.62  | 0.40  | 0.95  | 0.85  | 0.64  | 0.41  | 0.96  | 0.86  | 0.65  | 0.42  |
|       | ΔT    | 21    | 19    | 15    | 11    | 21    | 19    | 16    | 11     | 21    | 19    | 16    | 11    | 21    | 19    | 16    | 11    | 21    | 19    | 16    | 11    | 19    | 18    | 15    | 10    |
|       | kW    | 6.91  | 7.05  | 7.26  | 7.47  | 7.41  | 7.55  | 7.78  | 8.02   | 7.84  | 8.00  | 8.24  | 8.50  | 8.22  | 8.39  | 8.65  | 8.92  | 8.55  | 8.72  | 9.00  | 9.28  | 8.83  | 9.01  | 9.30  | 9.59  |
|       | Amps  | 7.8   | 8.0   | 8.3   | 8.6   | 8.4   | 8.6   | 8.9   | 9.3    | 9.2   | 9.4   | 9.7   | 10.1  | 9.8   | 10.1  | 10.4  | 10.8  | 10.5  | 10.7  | 11.1  | 11.5  | 11.1  | 11.4  | 11.7  | 12.2  |
|       | Hi PR | 151   | 163   | 172   | 179   | 170   | 183   | 193   | 201    | 193   | 208   | 219   | 229   | 220   | 237   | 250   | 261   | 247   | 266   | 281   | 293   | 273   | 294   | 311   | 324   |
|       | Lo PR | 57    | 61    | 67    | 71    | 61    | 65    | 71    | 75     | 63    | 67    | 73    | 78    | 66    | 71    | 77    | 82    | 69    | 74    | 81    | 86    | 72    | 76    | 83    | 89    |
|       | MBh   | 84.2  | 86.7  | 93.8  | 100.7 | 82.2  | 84.6  | 91.6  | 98.3   | 80.3  | 82.6  | 89.4  | 96.0  | 78.3  | 80.6  | 87.3  | 93.7  | 74.4  | 76.6  | 82.9  | 89.0  | 68.9  | 70.9  | 76.8  | 82.4  |
|       | S/T   | 0.79  | 0.71  | 0.54  | 0.35  | 0.82  | 0.74  | 0.56  | 0.36   | 0.84  | 0.76  | 0.57  | 0.37  | 0.87  | 0.78  | 0.59  | 0.38  | 0.90  | 0.81  | 0.61  | 0.39  | 0.91  | 0.82  | 0.62  | 0.40  |
|       | ΔT    | 21    | 20    | 16    | 11    | 22    | 20    | 16    | 11     | 22    | 20    | 16    | 11    | 22    | 20    | 16    | 11    | 21    | 20    | 16    | 11    | 20    | 18    | 15    | 10    |
| 2880  | kW    | 6.86  | 7.00  | 7.20  | 7.42  | 7.35  | 7.50  | 7.72  | 7.96   | 7.78  | 7.94  | 8.18  | 8.43  | 8.16  | 8.33  | 8.58  | 8.85  | 8.48  | 8.66  | 8.93  | 9.21  | 8.76  | 8.94  | 9.22  | 9.52  |
|       | Amps  | 7.7   | 7.9   | 8.2   | 8.5   | 8.4   | 8.6   | 8.9   | 9.2    | 9.1   | 9.3   | 9.6   | 10.0  | 9.7   | 10.0  | 10.3  | 10.7  | 10.4  | 10.6  | 11.0  | 11.4  | 11.0  | 11.3  | 11.6  | 12.1  |
|       | Hi PR | 150   | 161   | 170   | 178   | 168   | 181   | 191   | 199    | 191   | 206   | 217   | 227   | 218   | 234   | 248   | 258   | 245   | 264   | 278   | 290   | 271   | 291   | 308   | 321   |
|       | Lo PR | 57    | 61    | 66    | 70    | 60    | 64    | 70    | 74     | 62    | 66    | 73    | 77    | 66    | 70    | 76    | 81    | 69    | 73    | 80    | 85    | 71    | 76    | 83    | 88    |
|       | MBh   | 77.7  | 80.0  | 86.6  | 92.9  | 75.9  | 78.1  | 84.6  | 90.8   | 74.1  | 76.3  | 82.6  | 88.6  | 72.3  | 74.41 | 80.5  | 86.4  | 68.7  | 70.7  | 76.5  | 82.1  | 63.6  | 65.5  | 70.9  | 76.1  |
|       | S/T   | 0.77  | 0.69  | 0.52  | 0.33  | 0.79  | 0.71  | 0.54  | 0.35   | 0.81  | 0.73  | 0.55  | 0.35  | 0.84  | 0.75  | 0.57  | 0.37  | 0.87  | 0.78  | 0.59  | 0.38  | 0.88  | 0.79  | 0.60  | 0.38  |
|       | ΔT    | 22    | 20    | 16    | 11    | 22    | 20    | 17    | 11     | 22    | 20    | 17    | 11    | 22    | 20    | 17    | 12    | 22    | 20    | 16    | 11    | 20    | 19    | 15    | 11    |
|       | kW    | 6.71  | 6.84  | 7.04  | 7.25  | 7.19  | 7.33  | 7.54  | 7.77   | 7.60  | 7.75  | 7.99  | 8.23  | 7.97  | 8.13  | 8.38  | 8.64  | 8.28  | 8.45  | 8.71  | 8.99  | 8.55  | 8.73  | 9.00  | 9.29  |
|       | Amps  | 7.5   | 7.7   | 8.0   | 8.3   | 8.1   | 8.3   | 8.6   | 8.9    | 8.8   | 9.1   | 9.4   | 9.7   | 9.5   | 9.7   | 10.0  | 10.4  | 10.1  | 10.3  | 10.7  | 11.1  | 10.7  | 10.9  | 11.3  | 11.7  |
|       | Hi PR | 145   | 156   | 165   | 172   | 163   | 176   | 185   | 193    | 185   | 200   | 211   | 220   | 211   | 227   | 240   | 250   | 238   | 256   | 270   | 282   | 263   | 283   | 298   | 311   |
| Lo PR | 55    | 59    | 64    | 68    | 58    | 62    | 68    | 72    | 61     | 64    | 70    | 75    | 64    | 68    | 74    | 79    | 67    | 71    | 77    | 83    | 69    | 73    | 80    | 85    |       |
| 2520  |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

# EXPANDED COOLING DATA — GSH100904A\* / AR090 (CONT.)

|                                                                               |         | Outdoor Ambient Temperature          |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------|---------|--------------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
|                                                                               |         | 65°F                                 |       |       |        | 75°F  |       |       |       | 85°F  |       |       |       | 95°F  |       |       |       | 105°F |       |       |       | 115°F |       |       |       |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               |         | Entering Indoor Wet Bulb Temperature |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| IDB                                                                           | Airflow | 59                                   | 63    | 67    | 71     | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| 80                                                                            | MBh     | 88.24                                | 90.17 | 96.33 | 102.98 | 86.19 | 88.07 | 94.09 |       | 84.13 | 85.97 | 91.85 | 98.19 | 82.08 | 83.87 | 89.61 | 95.79 | 77.98 | 79.68 | 85.13 | 91.00 | 72.23 | 73.81 | 78.86 | 84.30 |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.91                                 | 0.86  | 0.70  | 0.52   | 0.95  | 0.89  | 0.72  | 0.54  | 1.00  | 0.91  | 0.74  | 0.55  | 1.00  | 0.94  | 0.77  | 0.57  | 1.00  | 1.00  | 0.79  | 0.59  | 1.00  | 1.00  | 0.80  | 0.60  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 23                                   | 22    | 19    | 15     | 23    | 22    | 19    | 15    | 24    | 22    | 19    | 15    | 23    | 22    | 19    | 16    | 22    | 23    | 19    | 15    | 20    | 21    | 18    | 14    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.97                                 | 7.10  | 7.31  | 7.53   | 7.46  | 7.61  | 7.84  | 8.08  | 7.90  | 8.06  | 8.31  | 8.56  | 8.29  | 8.46  | 8.72  | 8.99  | 8.61  | 8.79  | 9.07  | 9.36  | 8.90  | 9.08  | 9.37  | 9.67  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.9                                  | 8.1   | 8.3   | 8.6    | 8.5   | 8.7   | 9.0   | 9.4   | 9.3   | 9.5   | 9.8   | 10.2  | 9.9   | 10.2  | 10.5  | 10.9  | 10.6  | 10.8  | 11.2  | 11.6  | 11.2  | 11.5  | 11.9  | 12.3  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 153                                  | 165   | 174   | 181    | 172   | 185   | 195   | 203   | 195   | 210   | 222   | 231   | 222   | 239   | 253   | 263   | 250   | 269   | 284   | 296   | 276   | 297   | 314   | 327   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 58                                   | 62    | 67    | 72     | 61    | 65    | 71    | 76    | 64    | 68    | 74    | 79    | 67    | 71    | 78    | 83    | 70    | 75    | 82    | 87    | 73    | 77    | 84    | 90    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 85.7                                 | 87.5  | 93.5  | 100.0  | 83.7  | 85.5  | 91.4  | 97.7  | 81.7  | 83.5  | 89.2  | 95.3  | 79.7  | 81.4  | 87.0  | 93.0  | 75.7  | 77.4  | 82.7  | 88.4  | 70.1  | 71.7  | 76.6  | 81.8  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.87                                 | 0.82  | 0.67  | 0.50   | 0.90  | 0.85  | 0.69  | 0.52  | 0.93  | 0.87  | 0.71  | 0.53  | 0.96  | 0.90  | 0.73  | 0.55  | 0.99  | 0.93  | 0.76  | 0.57  | 1.00  | 0.94  | 0.76  | 0.57  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 23    | 20    | 16     | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 24    | 23    | 20    | 16    | 22    | 21    | 19    | 15    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| 2880                                                                          | kW      | 6.92                                 | 7.05  | 7.26  | 7.47   | 7.41  | 7.55  | 7.78  | 8.02  | 7.84  | 8.00  | 8.24  | 8.50  | 8.22  | 8.39  | 8.65  | 8.92  | 8.55  | 8.73  | 9.00  | 9.28  | 8.83  | 9.01  | 9.30  | 9.59  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.8                                  | 8.0   | 8.3   | 8.6    | 8.4   | 8.6   | 8.9   | 9.3   | 9.2   | 9.4   | 9.7   | 10.1  | 9.8   | 10.1  | 10.4  | 10.8  | 10.5  | 10.7  | 11.1  | 11.5  | 11.1  | 11.4  | 11.7  | 12.2  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 151                                  | 163   | 172   | 179    | 170   | 183   | 193   | 201   | 193   | 208   | 220   | 229   | 220   | 237   | 250   | 261   | 248   | 266   | 281   | 293   | 273   | 294   | 311   | 324   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 57                                   | 61    | 67    | 71     | 61    | 65    | 71    | 75    | 63    | 67    | 73    | 78    | 66    | 71    | 77    | 82    | 69    | 74    | 81    | 86    | 72    | 76    | 83    | 89    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 79.1                                 | 80.8  | 86.3  | 92.3   | 77.2  | 78.9  | 84.3  | 90.1  | 75.4  | 77.0  | 82.3  | 88.0  | 73.6  | 75.2  | 80.3  | 85.8  | 69.9  | 71.4  | 76.3  | 81.5  | 64.7  | 66.1  | 70.7  | 75.5  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.84                                 | 0.79  | 0.64  | 0.48   | 0.87  | 0.82  | 0.67  | 0.50  | 0.89  | 0.84  | 0.68  | 0.51  | 0.92  | 0.86  | 0.70  | 0.53  | 0.96  | 0.90  | 0.73  | 0.55  | 0.97  | 0.91  | 0.74  | 0.55  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 23    | 20    | 16     | 25    | 24    | 20    | 16    | 25    | 24    | 20    | 16    | 25    | 24    | 21    | 16    | 24    | 23    | 20    | 16    | 23    | 22    | 19    | 15    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.76                                 | 6.89  | 7.09  | 7.30   | 7.24  | 7.38  | 7.60  | 7.83  | 7.66  | 7.81  | 8.05  | 8.30  | 8.03  | 8.20  | 8.45  | 8.71  | 8.35  | 8.52  | 8.78  | 9.06  | 8.62  | 8.80  | 9.07  | 9.36  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.6                                  | 7.8   | 8.0   | 8.3    | 8.2   | 8.4   | 8.7   | 9.0   | 8.9   | 9.1   | 9.5   | 9.8   | 9.5   | 9.8   | 10.1  | 10.5  | 10.2  | 10.4  | 10.8  | 11.2  | 10.8  | 11.0  | 11.4  | 11.9  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 147                                  | 158   | 167   | 174    | 165   | 177   | 187   | 195   | 187   | 202   | 213   | 222   | 213   | 230   | 243   | 253   | 240   | 258   | 273   | 285   | 265   | 285   | 301   | 314   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 56      | 59                                   | 65    | 69    | 59     | 63    | 68    | 73    | 61    | 65    | 71    | 76    | 64    | 68    | 75    | 80    | 67    | 72    | 78    | 83    | 70    | 74    | 81    | 86    |       |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| 85                                                                            | MBh     | 89.78                                | 91.52 | 95.85 | 102.26 | 87.69 | 89.39 | 93.62 | 99.88 | 85.60 | 87.26 | 91.39 | 97.50 | 83.52 | 85.13 | 89.16 | 95.12 | 79.34 | 80.88 | 84.70 | 90.37 | 73.49 | 74.92 | 78.46 | 83.71 |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.96                                 | 0.92  | 0.83  | 0.68   | 0.99  | 0.96  | 0.86  | 0.70  | 1.00  | 0.98  | 0.89  | 0.72  | 1.00  | 1.00  | 0.92  | 0.74  | 1.00  | 1.00  | 0.95  | 0.77  | 1.00  | 1.00  | 0.96  | 0.78  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                                   | 24    | 23    | 20     | 25    | 24    | 23    | 20    | 24    | 24    | 23    | 20    | 24    | 24    | 23    | 20    | 23    | 23    | 23    | 20    | 21    | 21    | 18    | 14    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 7.02                                 | 7.16  | 7.36  | 7.59   | 7.52  | 7.67  | 7.90  | 8.14  | 7.96  | 8.12  | 8.37  | 8.63  | 8.35  | 8.52  | 8.79  | 9.06  | 8.68  | 8.86  | 9.14  | 9.43  | 8.97  | 9.16  | 9.45  | 9.75  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.9                                  | 8.1   | 8.4   | 8.7    | 8.6   | 8.8   | 9.1   | 9.4   | 9.4   | 9.6   | 9.9   | 10.3  | 10.0  | 10.2  | 10.6  | 11.0  | 10.7  | 10.9  | 11.3  | 11.7  | 11.3  | 11.6  | 12.0  | 12.4  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 154                                  | 166   | 175   | 183    | 173   | 186   | 197   | 205   | 197   | 212   | 224   | 234   | 224   | 242   | 255   | 266   | 252   | 272   | 287   | 299   | 279   | 300   | 317   | 331   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 59                                   | 62    | 68    | 73     | 62    | 66    | 72    | 77    | 64    | 68    | 75    | 80    | 68    | 72    | 79    | 84    | 71    | 75    | 82    | 88    | 73    | 78    | 85    | 91    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 87.2                                 | 88.9  | 93.1  | 99.3   | 85.1  | 86.8  | 90.9  | 97.0  | 83.1  | 84.7  | 88.7  | 94.7  | 81.1  | 82.7  | 86.6  | 92.4  | 77.0  | 78.5  | 82.2  | 87.7  | 71.4  | 72.7  | 76.2  | 81.3  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.91                                 | 0.88  | 0.80  | 0.65   | 0.95  | 0.91  | 0.82  | 0.67  | 0.97  | 0.94  | 0.85  | 0.69  | 1.00  | 0.97  | 0.87  | 0.71  | 1.00  | 1.00  | 0.91  | 0.74  | 1.00  | 1.00  | 0.91  | 0.74  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 25                                   | 25    | 24    | 20     | 26    | 25    | 24    | 21    | 26    | 25    | 24    | 21    | 26    | 26    | 24    | 21    | 25    | 25    | 24    | 21    | 23    | 23    | 22    | 19    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| 2880                                                                          | kW      | 6.97                                 | 7.10  | 7.31  | 7.53   | 7.46  | 7.61  | 7.84  | 8.08  | 7.90  | 8.06  | 8.31  | 8.56  | 8.29  | 8.46  | 8.72  | 8.99  | 8.61  | 8.79  | 9.07  | 9.36  | 8.90  | 9.08  | 9.37  | 9.67  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.9                                  | 8.1   | 8.3   | 8.6    | 8.5   | 8.7   | 9.0   | 9.4   | 9.3   | 9.5   | 9.8   | 10.2  | 9.9   | 10.2  | 10.5  | 10.9  | 10.6  | 10.8  | 11.2  | 11.6  | 11.2  | 11.5  | 11.9  | 12.3  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 153                                  | 165   | 174   | 181    | 172   | 185   | 195   | 203   | 195   | 210   | 222   | 231   | 222   | 239   | 253   | 263   | 250   | 269   | 284   | 296   | 276   | 297   | 314   | 327   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 58                                   | 62    | 67    | 72     | 61    | 65    | 71    | 76    | 64    | 68    | 74    | 79    | 67    | 71    | 78    | 83    | 70    | 75    | 82    | 87    | 73    | 77    | 84    | 90    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 80.5                                 | 82.0  | 85.9  | 91.6   | 78.6  | 80.1  | 83.9  | 89.5  | 76.7  | 78.2  | 81.9  | 87.4  | 74.8  | 76.3  | 79.9  | 85.2  | 71.1  | 72.5  | 75.9  | 81.0  | 65.9  | 67.1  | 70.3  | 75.0  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.88                                 | 0.85  | 0.77  | 0.62   | 0.91  | 0.88  | 0.80  | 0.65  | 0.94  | 0.90  | 0.82  | 0.66  | 0.97  | 0.93  | 0.84  | 0.68  | 1.00  | 0.97  | 0.87  | 0.71  | 1.00  | 0.98  | 0.88  | 0.71  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 26                                   | 25    | 24    | 21     | 26    | 26    | 24    | 21    | 26    | 26    | 24    | 21    | 26    | 26    | 25    | 21    | 26    | 26    | 24    | 21    | 24    | 24    | 23    | 20    |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 6.81                                 | 6.95  | 7.15  | 7.36   | 7.29  | 7.44  | 7.66  | 7.89  | 7.72  | 7.87  | 8.11  | 8.36  | 8.09  | 8.26  | 8.51  | 8.78  | 8.41  | 8.59  | 8.85  | 9.13  | 8.69  | 8.87  | 9.14  | 9.44  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 7.7                                  | 7.8   | 8.1   | 8.4    | 8.3   | 8.5   | 8.8   | 9.1   | 9.0   | 9.2   | 9.5   | 9.9   | 9.6   | 9.9   | 10.2  | 10.6  | 10.3  | 10.5  | 10.9  | 11.3  | 10.9  | 11.1  | 11.5  | 12.0  |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 148                                  | 160   | 169   | 176    | 166   | 179   | 189   | 197   | 189   | 204   | 215   | 224   | 216   | 232   | 245   | 255   | 242   | 261   | 276   | 287   | 268   | 288   | 304   | 318   |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 56      | 60                                   | 65    | 70    | 59     | 63    | 69    | 74    | 62    | 66    | 72    | 76    | 65    | 69    | 75    | 80    | 68    | 72    | 79    | 84    | 70    | 75    | 82    | 87    |       |                                           |  |  |  |  |  |  |  |  |  |                                                                              |  |  |  |  |  |  |  |  |  |
| Shaded area is ARI Rating Conditions                                          |         |                                      |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | kW= Total system power                    |  |  |  |  |  |  |  |  |  | Amps = outdoor unit amps (comp.+fan)                                         |  |  |  |  |  |  |  |  |  |
| High and low pressures are measured at the liquid and suction service valves. |         |                                      |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | IDB: Entering Indoor Dry Bulb Temperature |  |  |  |  |  |  |  |  |  | Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions |  |  |  |  |  |  |  |  |  |

# EXPANDED COOLING DATA — GSH101203A\* / AR120

|      |         | Outdoor Ambient Temperature          |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |  |       |  |  |  |  |  |
|------|---------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--|-------|--|--|--|--|--|
|      |         | 65°F                                 |       |       |       |       |       | 75°F  |       |      |       |       |       | 85°F  |       |       |       |       |       | 95°F  |       |       |       |       |       | 105°F |       |       |       |   |  | 115°F |  |  |  |  |  |
|      |         | Entering Indoor Wet Bulb Temperature |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |  |       |  |  |  |  |  |
| IDB  | Airflow | 59                                   | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59   | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    | 59    | 63    | 67    | 71    |   |  |       |  |  |  |  |  |
| 70   | 4500    | MBh                                  | 106.8 | 110.7 | 121.3 | -     | 104.3 | 108.1 | 118.5 | -    | 101.8 | 105.6 | 115.7 | -     | 99.4  | 103.0 | 112.8 | -     | 94.4  | 97.8  | 107.2 | -     | 87.4  | 90.6  | 99.3  | -     | 87.4  | 90.6  | 99.3  | - |  |       |  |  |  |  |  |
|      |         | S/T                                  | 0.72  | 0.60  | 0.42  | -     | 0.75  | 0.63  | 0.43  | -    | 0.77  | 0.64  | 0.44  | -     | 0.79  | 0.66  | 0.46  | -     | 0.82  | 0.69  | 0.48  | -     | 0.83  | 0.69  | 0.48  | -     | 0.83  | 0.69  | 0.48  | - |  |       |  |  |  |  |  |
|      |         | ΔT                                   | 16    | 14    | 10    | -     | 16    | 14    | 10    | -    | 16    | 14    | 11    | -     | 16    | 14    | 11    | -     | 16    | 14    | 10    | -     | 15    | 13    | 10    | -     | 15    | 13    | 10    | - |  |       |  |  |  |  |  |
|      |         | kW                                   | 8.51  | 8.69  | 8.95  | -     | 9.14  | 9.32  | 9.61  | -    | 9.68  | 9.89  | 10.19 | -     | 10.17 | 10.38 | 10.71 | -     | 10.58 | 10.81 | 11.15 | -     | 10.94 | 11.17 | 11.53 | -     | 10.94 | 11.17 | 11.53 | - |  |       |  |  |  |  |  |
|      | Amps    | 18.4                                 | 18.8  | 19.5  | -     | 19.9  | 20.4  | 21.1  | -     | 21.7 | 22.3  | 23.0  | -     | 23.3  | 23.8  | 24.7  | -     | 24.8  | 25.4  | 26.3  | -     | 26.3  | 27.0  | 27.9  | -     | 26.3  | 27.0  | 27.9  | -     |   |  |       |  |  |  |  |  |
|      | Hi PR   | 138                                  | 148   | 157   | -     | 155   | 166   | 176   | -     | 176  | 189   | 200   | -     | 200   | 216   | 228   | -     | 225   | 243   | 256   | -     | 249   | 268   | 283   | -     | 249   | 268   | 283   | -     |   |  |       |  |  |  |  |  |
|      | Lo PR   | 61                                   | 64    | 70    | -     | 64    | 68    | 74    | -     | 67   | 71    | 77    | -     | 70    | 74    | 81    | -     | 73    | 78    | 85    | -     | 76    | 81    | 88    | -     | 76    | 81    | 88    | -     |   |  |       |  |  |  |  |  |
|      | MBh     | 103.7                                | 107.5 | 117.8 | -     | 101.3 | 105.0 | 115.0 | -     | 98.9 | 102.5 | 112.3 | -     | 96.5  | 100.0 | 109.5 | -     | 91.6  | 95.0  | 104.1 | -     | 84.9  | 88.0  | 96.4  | -     | 84.9  | 88.0  | 96.4  | -     |   |  |       |  |  |  |  |  |
|      | S/T     | 0.69                                 | 0.58  | 0.40  | -     | 0.71  | 0.60  | 0.41  | -     | 0.73 | 0.61  | 0.42  | -     | 0.76  | 0.63  | 0.44  | -     | 0.79  | 0.66  | 0.45  | -     | 0.79  | 0.66  | 0.46  | -     | 0.79  | 0.66  | 0.46  | -     |   |  |       |  |  |  |  |  |
|      | ΔT      | 16                                   | 14    | 11    | -     | 17    | 14    | 11    | -     | 17   | 14    | 11    | -     | 17    | 15    | 11    | -     | 17    | 14    | 11    | -     | 15    | 13    | 10    | -     | 15    | 13    | 10    | -     |   |  |       |  |  |  |  |  |
|      | kW      | 8.45                                 | 8.62  | 8.88  | -     | 9.07  | 9.25  | 9.53  | -     | 9.61 | 9.81  | 10.11 | -     | 10.09 | 10.30 | 10.63 | -     | 10.50 | 10.72 | 11.06 | -     | 10.85 | 11.08 | 11.44 | -     | 10.85 | 11.08 | 11.44 | -     |   |  |       |  |  |  |  |  |
| 3500 | Amps    | 18.2                                 | 18.7  | 19.3  | -     | 19.7  | 20.2  | 20.9  | -     | 21.5 | 22.0  | 22.8  | -     | 23.0  | 23.6  | 24.4  | -     | 24.6  | 25.2  | 26.1  | -     | 26.1  | 26.7  | 27.7  | -     | 26.1  | 26.7  | 27.7  | -     |   |  |       |  |  |  |  |  |
|      | Hi PR   | 136                                  | 147   | 155   | -     | 153   | 165   | 174   | -     | 174  | 187   | 198   | -     | 198   | 213   | 225   | -     | 223   | 240   | 254   | -     | 247   | 265   | 280   | -     | 247   | 265   | 280   | -     |   |  |       |  |  |  |  |  |
|      | Lo PR   | 60                                   | 64    | 70    | -     | 63    | 67    | 74    | -     | 66   | 70    | 77    | -     | 69    | 74    | 80    | -     | 73    | 77    | 84    | -     | 75    | 80    | 87    | -     | 75    | 80    | 87    | -     |   |  |       |  |  |  |  |  |
|      | MBh     | 95.7                                 | 99.2  | 108.7 | -     | 93.5  | 96.9  | 106.2 | -     | 91.3 | 94.6  | 103.6 | -     | 89.0  | 92.3  | 101.1 | -     | 84.6  | 87.7  | 96.1  | -     | 78.4  | 81.2  | 89.0  | -     | 78.4  | 81.2  | 89.0  | -     |   |  |       |  |  |  |  |  |
|      | S/T     | 0.67                                 | 0.56  | 0.38  | -     | 0.69  | 0.58  | 0.40  | -     | 0.71 | 0.59  | 0.41  | -     | 0.73  | 0.61  | 0.42  | -     | 0.76  | 0.63  | 0.44  | -     | 0.76  | 0.64  | 0.44  | -     | 0.76  | 0.64  | 0.44  | -     |   |  |       |  |  |  |  |  |
|      | ΔT      | 17                                   | 14    | 11    | -     | 17    | 15    | 11    | -     | 17   | 15    | 11    | -     | 17    | 15    | 11    | -     | 17    | 15    | 11    | -     | 16    | 14    | 10    | -     | 16    | 14    | 10    | -     |   |  |       |  |  |  |  |  |
|      | kW      | 8.26                                 | 8.42  | 8.67  | -     | 8.86  | 9.04  | 9.31  | -     | 9.38 | 9.58  | 9.87  | -     | 9.85  | 10.06 | 10.37 | -     | 10.24 | 10.46 | 10.79 | -     | 10.59 | 10.81 | 11.16 | -     | 10.59 | 10.81 | 11.16 | -     |   |  |       |  |  |  |  |  |
|      | Amps    | 17.7                                 | 18.1  | 18.8  | -     | 19.2  | 19.7  | 20.3  | -     | 20.9 | 21.4  | 22.2  | -     | 22.4  | 22.9  | 23.7  | -     | 23.9  | 24.5  | 25.3  | -     | 25.3  | 26.0  | 26.9  | -     | 25.3  | 26.0  | 26.9  | -     |   |  |       |  |  |  |  |  |
|      | Hi PR   | 132                                  | 142   | 150   | -     | 149   | 160   | 169   | -     | 169  | 182   | 192   | -     | 192   | 207   | 219   | -     | 216   | 233   | 246   | -     | 239   | 257   | 272   | -     | 239   | 257   | 272   | -     |   |  |       |  |  |  |  |  |
|      | Lo PR   | 58                                   | 62    | 68    | -     | 61    | 65    | 71    | -     | 64   | 68    | 74    | -     | 67    | 71    | 78    | -     | 70    | 75    | 82    | -     | 73    | 77    | 84    | -     | 73    | 77    | 84    | -     |   |  |       |  |  |  |  |  |

|      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |        |        |       |       |       |        |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|-------|-------|--------|
| 4500 | MBh   | 108.62 | 111.84 | 121.05 | 129.92 | 106.10 | 109.24 | 118.24 | 126.90 | 103.57 | 106.63 | 115.42 | 123.88 | 101.04 | 104.03 | 112.61 | 120.86 | 95.99 | 98.83 | 106.98 | 114.81 | 88.92 | 91.55 | 99.09 | 106.35 |
|      | S/T   | 0.82   | 0.74   | 0.56   | 0.36   | 0.85   | 0.76   | 0.58   | 0.37   | 0.87   | 0.78   | 0.59   | 0.38   | 0.90   | 0.81   | 0.61   | 0.39   | 0.94  | 0.84  | 0.63   | 0.41   | 0.94  | 0.84  | 0.64  | 0.41   |
|      | ΔT    | 18     | 17     | 14     | 10     | 18     | 17     | 14     | 10     | 18     | 17     | 14     | 10     | 19     | 17     | 14     | 10     | 18    | 17    | 14     | 10     | 17    | 16    | 13    | 9      |
|      | kW    | 8.58   | 8.75   | 9.02   | 9.29   | 9.21   | 9.40   | 9.69   | 9.99   | 9.76   | 9.97   | 10.28  | 10.60  | 10.25  | 10.47  | 10.80  | 11.15  | 10.67 | 10.90 | 11.24  | 11.61  | 11.03 | 11.26 | 11.63 | 12.01  |
|      | Amps  | 18.6   | 19.0   | 19.7   | 20.4   | 20.1   | 20.6   | 21.3   | 22.1   | 21.9   | 22.5   | 23.2   | 24.1   | 23.5   | 24.1   | 24.9   | 25.9   | 25.0  | 25.7  | 26.6   | 27.6   | 26.6  | 27.2  | 28.2  | 29.3   |
|      | Hi PR | 139    | 150    | 158    | 165    | 156    | 168    | 178    | 185    | 178    | 191    | 202    | 211    | 202    | 218    | 230    | 240    | 228   | 245   | 259    | 270    | 252   | 271   | 286   | 298    |
|      | Lo PR | 61     | 65     | 71     | 76     | 65     | 69     | 75     | 80     | 67     | 71     | 78     | 83     | 71     | 75     | 82     | 87     | 74    | 79    | 86     | 92     | 77    | 81    | 89    | 95     |
|      | MBh   | 105.5  | 108.6  | 117.5  | 126.1  | 103.0  | 106.1  | 114.8  | 123.2  | 100.6  | 103.5  | 112.1  | 120.3  | 98.1   | 101.0  | 109.3  | 117.3  | 93.2  | 96.0  | 103.9  | 111.5  | 86.3  | 88.9  | 96.2  | 103.3  |
| 4000 | S/T   | 0.78   | 0.70   | 0.53   | 0.34   | 0.81   | 0.73   | 0.55   | 0.35   | 0.83   | 0.75   | 0.56   | 0.36   | 0.86   | 0.77   | 0.58   | 0.37   | 0.89  | 0.80  | 0.60   | 0.39   | 0.90  | 0.81  | 0.61  | 0.39   |
|      | ΔT    | 19     | 18     | 14     | 10     | 19     | 18     | 15     | 10     | 19     | 18     | 15     | 10     | 19     | 18     | 15     | 10     | 19    | 18    | 14     | 10     | 18    | 16    | 13    | 9      |
|      | kW    | 8.52   | 8.69   | 8.95   | 9.22   | 9.14   | 9.33   | 9.61   | 9.91   | 9.69   | 9.89   | 10.20  | 10.52  | 10.17  | 10.39  | 10.71  | 11.06  | 10.58 | 10.81 | 11.15  | 11.51  | 10.94 | 11.17 | 11.53 | 11.91  |
|      | Amps  | 18.4   | 18.8   | 19.5   | 20.2   | 19.9   | 20.4   | 21.1   | 21.9   | 21.7   | 22.3   | 23.0   | 23.9   | 23.3   | 23.8   | 24.7   | 25.6   | 24.8  | 25.4  | 26.3   | 27.3   | 26.3  | 27.0  | 27.9  | 29.0   |
|      | Hi PR | 138    | 148    | 157    | 163    | 155    | 166    | 176    | 183    | 176    | 189    | 200    | 209    | 200    | 216    | 228    | 237    | 225   | 243   | 256    | 267    | 249   | 268   | 283   | 295    |
|      | Lo PR | 61     | 64     | 70     | 75     | 64     | 68     | 74     | 79     | 67     | 71     | 77     | 82     | 70     | 74     | 81     | 86     | 73    | 78    | 85     | 91     | 76    | 81    | 88    | 94     |
|      | MBh   | 97.3   | 100.2  | 108.5  | 116.4  | 95.1   | 97.9   | 106.0  | 113.7  | 92.8   | 95.6   | 103.4  | 111.0  | 90.5   | 93.23  | 100.9  | 108.3  | 86.0  | 88.6  | 95.9   | 102.9  | 79.7  | 82.0  | 88.8  | 95.3   |
|      | S/T   | 0.76   | 0.68   | 0.51   | 0.33   | 0.78   | 0.70   | 0.53   | 0.34   | 0.80   | 0.72   | 0.54   | 0.35   | 0.83   | 0.74   | 0.56   | 0.36   | 0.86  | 0.77  | 0.58   | 0.37   | 0.87  | 0.78  | 0.59  | 0.38   |
| 3500 | ΔT    | 19     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 19    | 18    | 15     | 10     | 18    | 17    | 14    | 9      |
|      | kW    | 8.32   | 8.49   | 8.74   | 9.01   | 8.93   | 9.11   | 9.39   | 9.68   | 9.46   | 9.65   | 9.95   | 10.27  | 9.93   | 10.14  | 10.45  | 10.79  | 10.33 | 10.55 | 10.88  | 11.23  | 10.67 | 10.90 | 11.25 | 11.61  |
|      | Amps  | 17.9   | 18.3   | 18.9   | 19.7   | 19.4   | 19.8   | 20.5   | 21.3   | 21.1   | 21.6   | 22.4   | 23.2   | 22.6   | 23.2   | 24.0   | 24.9   | 24.1  | 24.7  | 25.6   | 26.6   | 25.6  | 26.2  | 27.1  | 28.2   |
|      | Hi PR | 134    | 144    | 152    | 158    | 150    | 161    | 171    | 178    | 171    | 184    | 194    | 202    | 194    | 209    | 221    | 230    | 219   | 235   | 248    | 259    | 242   | 260   | 275   | 286    |
|      | Lo PR | 59     | 63     | 68     | 73     | 62     | 66     | 72     | 77     | 65     | 69     | 75     | 80     | 68     | 72     | 79     | 84     | 71    | 76    | 83     | 88     | 73    | 78    | 85    | 91     |

# EXPANDED COOLING DATA — GSH101203A\* / AR120 (CONT.)

|       |         | Outdoor Ambient Temperature          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |        |        |       |       |       |        |       |       |       |        |       |  |       |  |  |  |  |  |
|-------|---------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--|-------|--|--|--|--|--|
|       |         | 65°F                                 |        |        |        |        |        | 75°F   |        |        |        |        |        | 85°F   |        |        |        |       |       | 95°F   |        |       |       |       |        | 105°F |       |       |        |       |  | 115°F |  |  |  |  |  |
|       |         | Entering Indoor Wet Bulb Temperature |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |        |        |       |       |       |        |       |       |       |        |       |  |       |  |  |  |  |  |
| IDB   | Airflow | 59                                   | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59    | 63    | 67     | 71     | 59    | 63    | 67    | 71     | 59    | 63    | 67    | 71     |       |  |       |  |  |  |  |  |
| 80    | MBh     | 110.55                               | 112.97 | 120.69 | 129.02 | 107.98 | 110.34 | 117.88 | 126.02 | 105.41 | 107.71 | 115.08 | 123.02 | 102.84 | 105.08 | 112.27 | 120.02 | 97.70 | 99.83 | 106.66 | 114.02 | 90.50 | 92.47 | 98.80 | 105.61 | 90.50 | 92.47 | 98.80 | 105.61 |       |  |       |  |  |  |  |  |
|       | S/T     | 0.90                                 | 0.85   | 0.69   | 0.51   | 0.93   | 0.88   | 0.71   | 0.53   | 0.96   | 0.90   | 0.73   | 0.55   | 1.00   | 0.93   | 0.75   | 0.56   | 1.00  | 0.96  | 0.78   | 0.59   | 1.00  | 0.97  | 0.79  | 0.59   | 1.00  | 0.97  | 0.79  | 0.59   |       |  |       |  |  |  |  |  |
|       | ΔT      | 20                                   | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 20    | 20    | 17     | 14     | 18    | 18    | 16    | 13     | 18    | 18    | 16    | 13     |       |  |       |  |  |  |  |  |
|       | kW      | 8.65                                 | 8.82   | 9.09   | 9.37   | 9.28   | 9.47   | 9.76   | 10.07  | 9.84   | 10.05  | 10.36  | 10.69  | 10.33  | 10.55  | 10.89  | 11.24  | 10.75 | 10.98 | 11.34  | 11.70  | 11.12 | 11.36 | 11.72 | 12.11  | 11.12 | 11.36 | 11.72 | 12.11  |       |  |       |  |  |  |  |  |
|       | Amps    | 18.7                                 | 19.2   | 19.8   | 20.6   | 20.3   | 20.8   | 21.5   | 22.4   | 22.1   | 22.7   | 23.5   | 24.4   | 23.7   | 24.3   | 25.1   | 26.1   | 25.3  | 25.9  | 26.8   | 27.9   | 26.8  | 27.5  | 28.5  | 29.6   | 26.8  | 27.5  | 28.5  | 29.6   |       |  |       |  |  |  |  |  |
|       | Hi PR   | 141                                  | 151    | 160    | 167    | 158    | 170    | 179    | 187    | 179    | 193    | 204    | 213    | 204    | 220    | 232    | 242    | 230   | 247   | 261    | 273    | 254   | 273   | 289   | 301    | 254   | 273   | 289   | 301    |       |  |       |  |  |  |  |  |
|       | Lo PR   | 62                                   | 66     | 72     | 76     | 65     | 69     | 76     | 81     | 68     | 72     | 79     | 84     | 71     | 76     | 83     | 88     | 75    | 80    | 87     | 92     | 77    | 82    | 90    | 96     | 77    | 82    | 90    | 96     |       |  |       |  |  |  |  |  |
|       | MBh     | 107.3                                | 109.7  | 117.2  | 125.3  | 104.8  | 107.1  | 114.5  | 122.3  | 102.3  | 104.6  | 111.7  | 119.4  | 99.8   | 102.0  | 109.0  | 116.5  | 94.9  | 96.9  | 103.6  | 110.7  | 87.9  | 89.8  | 95.9  | 102.5  | 87.9  | 89.8  | 95.9  | 102.5  |       |  |       |  |  |  |  |  |
|       | S/T     | 0.86                                 | 0.81   | 0.66   | 0.49   | 0.89   | 0.84   | 0.68   | 0.51   | 0.91   | 0.86   | 0.70   | 0.52   | 0.94   | 0.88   | 0.72   | 0.54   | 0.98  | 0.92  | 0.75   | 0.56   | 0.99  | 0.93  | 0.75  | 0.56   | 0.99  | 0.93  | 0.75  | 0.56   |       |  |       |  |  |  |  |  |
|       | ΔT      | 21                                   | 20     | 18     | 14     | 21     | 21     | 18     | 14     | 21     | 21     | 18     | 14     | 22     | 21     | 18     | 14     | 21    | 20    | 18     | 14     | 20    | 19    | 17    | 13     | 20    | 19    | 17    | 13     |       |  |       |  |  |  |  |  |
|       | 4000    | kW                                   | 8.58   | 8.75   | 9.02   | 9.29   | 9.21   | 9.40   | 9.69   | 9.99   | 9.76   | 9.97   | 10.28  | 10.61  | 10.25  | 10.47  | 10.80  | 11.15 | 10.67 | 10.90  | 11.24  | 11.61 | 11.03 | 11.26 | 11.63  | 12.01 | 11.03 | 11.26 | 11.63  | 12.01 |  |       |  |  |  |  |  |
| Amps  |         | 18.6                                 | 19.0   | 19.7   | 20.4   | 20.1   | 20.6   | 21.3   | 22.1   | 21.9   | 22.5   | 23.2   | 24.1   | 23.5   | 24.1   | 24.9   | 25.9   | 25.0  | 25.7  | 26.6   | 27.6   | 26.6  | 27.2  | 28.2  | 29.3   | 26.6  | 27.2  | 28.2  | 29.3   |       |  |       |  |  |  |  |  |
| Hi PR |         | 139                                  | 150    | 158    | 165    | 156    | 168    | 178    | 185    | 178    | 191    | 202    | 211    | 202    | 218    | 230    | 240    | 228   | 245   | 259    | 270    | 252   | 271   | 286   | 298    | 252   | 271   | 286   | 298    |       |  |       |  |  |  |  |  |
| Lo PR |         | 61                                   | 65     | 71     | 76     | 65     | 69     | 75     | 80     | 67     | 72     | 78     | 83     | 71     | 75     | 82     | 87     | 74    | 79    | 86     | 92     | 77    | 81    | 89    | 95     | 77    | 81    | 89    | 95     |       |  |       |  |  |  |  |  |
| MBh   |         | 99.1                                 | 101.2  | 108.2  | 115.6  | 96.8   | 98.9   | 105.6  | 112.9  | 94.5   | 96.5   | 103.1  | 110.2  | 92.2   | 94.2   | 100.6  | 107.5  | 87.5  | 89.5  | 95.6   | 102.2  | 81.1  | 82.9  | 88.5  | 94.6   | 81.1  | 82.9  | 88.5  | 94.6   |       |  |       |  |  |  |  |  |
| S/T   |         | 0.83                                 | 0.78   | 0.63   | 0.47   | 0.86   | 0.81   | 0.66   | 0.49   | 0.88   | 0.83   | 0.67   | 0.50   | 0.91   | 0.85   | 0.69   | 0.52   | 0.94  | 0.89  | 0.72   | 0.54   | 0.95  | 0.89  | 0.73  | 0.54   | 0.95  | 0.89  | 0.73  | 0.54   |       |  |       |  |  |  |  |  |
| ΔT    |         | 22                                   | 21     | 18     | 14     | 22     | 21     | 18     | 15     | 22     | 21     | 18     | 15     | 22     | 21     | 18     | 15     | 22    | 21    | 18     | 14     | 20    | 19    | 17    | 14     | 20    | 19    | 17    | 14     |       |  |       |  |  |  |  |  |
| kW    |         | 8.39                                 | 8.55   | 8.81   | 9.08   | 9.00   | 9.18   | 9.46   | 9.75   | 9.53   | 9.73   | 10.03  | 10.35  | 10.01  | 10.22  | 10.54  | 10.88  | 10.41 | 10.63 | 10.97  | 11.32  | 10.76 | 10.99 | 11.34 | 11.71  | 10.76 | 10.99 | 11.34 | 11.71  |       |  |       |  |  |  |  |  |
| Amps  |         | 18.0                                 | 18.5   | 19.1   | 19.8   | 19.5   | 20.0   | 20.7   | 21.5   | 21.3   | 21.8   | 22.6   | 23.5   | 22.8   | 23.4   | 24.2   | 25.1   | 24.3  | 24.9  | 25.8   | 26.8   | 25.8  | 26.5  | 27.4  | 28.5   | 25.8  | 26.5  | 27.4  | 28.5   |       |  |       |  |  |  |  |  |
| Hi PR |         | 135                                  | 145    | 153    | 160    | 152    | 163    | 172    | 180    | 172    | 186    | 196    | 204    | 196    | 211    | 223    | 233    | 221   | 238   | 251    | 262    | 244   | 263   | 277   | 289    | 244   | 263   | 277   | 289    |       |  |       |  |  |  |  |  |
| Lo PR |         | 59                                   | 63     | 69     | 73     | 63     | 67     | 73     | 78     | 65     | 69     | 76     | 81     | 68     | 73     | 80     | 85     | 72    | 76    | 83     | 89     | 74    | 79    | 86    | 92     | 74    | 79    | 86    | 92     |       |  |       |  |  |  |  |  |

|      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |       |       |        |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|-------|-------|--------|
| 4500 | MBh   | 112.48 | 114.66 | 120.09 | 128.11 | 109.87 | 111.99 | 117.29 | 125.14 | 107.25 | 109.33 | 114.50 | 122.16 | 104.64 | 106.66 | 111.71 | 119.18 | 99.40 | 101.33 | 106.12 | 113.22 | 92.08 | 93.86 | 98.30 | 104.88 |
|      | S/T   | 0.95   | 0.91   | 0.82   | 0.67   | 0.98   | 0.95   | 0.85   | 0.69   | 1.00   | 0.97   | 0.87   | 0.71   | 1.00   | 1.00   | 0.90   | 0.73   | 1.00  | 1.00   | 0.94   | 0.76   | 1.00  | 1.00  | 0.94  | 0.77   |
|      | ΔT    | 22     | 21     | 20     | 17     | 22     | 22     | 20     | 18     | 22     | 22     | 20     | 18     | 21     | 22     | 21     | 18     | 20    | 21     | 20     | 18     | 19    | 19    | 19    | 16     |
|      | kW    | 8.71   | 8.89   | 9.16   | 9.44   | 9.35   | 9.54   | 9.84   | 10.15  | 9.92   | 10.13  | 10.44  | 10.78  | 10.42  | 10.64  | 10.97  | 11.33  | 10.84 | 11.07  | 11.43  | 11.80  | 11.21 | 11.45 | 11.82 | 12.21  |
|      | Amps  | 18.9   | 19.4   | 20.0   | 20.8   | 20.5   | 21.0   | 21.7   | 22.6   | 22.3   | 22.9   | 23.7   | 24.6   | 23.9   | 24.5   | 25.4   | 26.4   | 25.5  | 26.2   | 27.1   | 28.1   | 27.1  | 27.8  | 28.7  | 29.9   |
|      | Hi PR | 142    | 153    | 161    | 168    | 159    | 172    | 181    | 189    | 181    | 195    | 206    | 215    | 206    | 222    | 235    | 245    | 232   | 250    | 264    | 275    | 257   | 276   | 292   | 304    |
|      | Lo PR | 62     | 66     | 73     | 77     | 66     | 70     | 77     | 82     | 69     | 73     | 80     | 85     | 72     | 77     | 84     | 89     | 75    | 80     | 88     | 93     | 78    | 83    | 91    | 97     |
|      | MBh   | 109.2  | 111.3  | 116.6  | 124.4  | 106.7  | 108.7  | 113.9  | 121.5  | 104.1  | 106.1  | 111.2  | 118.6  | 101.6  | 103.6  | 108.5  | 115.7  | 96.5  | 98.4   | 103.0  | 109.9  | 89.4  | 91.1  | 95.4  | 101.8  |
| 4000 | S/T   | 0.90   | 0.87   | 0.79   | 0.64   | 0.93   | 0.90   | 0.81   | 0.66   | 0.96   | 0.92   | 0.83   | 0.68   | 0.99   | 0.95   | 0.86   | 0.70   | 1.00  | 0.99   | 0.89   | 0.73   | 1.00  | 1.00  | 0.90  | 0.73   |
|      | ΔT    | 23     | 22     | 21     | 18     | 23     | 23     | 21     | 18     | 23     | 23     | 21     | 18     | 23     | 23     | 21     | 19     | 22    | 22     | 21     | 18     | 21    | 21    | 20    | 17     |
|      | kW    | 8.65   | 8.82   | 9.09   | 9.37   | 9.28   | 9.47   | 9.76   | 10.07  | 9.84   | 10.05  | 10.36  | 10.69  | 10.33  | 10.55  | 10.89  | 11.24  | 10.75 | 10.98  | 11.34  | 11.70  | 11.12 | 11.36 | 11.72 | 12.11  |
|      | Amps  | 18.7   | 19.2   | 19.8   | 20.6   | 20.3   | 20.8   | 21.5   | 22.4   | 22.1   | 22.7   | 23.5   | 24.4   | 23.7   | 24.3   | 25.1   | 26.1   | 25.3  | 25.9   | 26.8   | 27.9   | 26.8  | 27.5  | 28.5  | 29.6   |
|      | Hi PR | 141    | 151    | 160    | 167    | 158    | 170    | 179    | 187    | 179    | 193    | 204    | 213    | 204    | 220    | 232    | 242    | 230   | 247    | 261    | 273    | 254   | 273   | 289   | 301    |
|      | Lo PR | 62     | 66     | 72     | 76     | 65     | 69     | 76     | 81     | 68     | 72     | 79     | 84     | 71     | 76     | 83     | 88     | 75    | 80     | 87     | 92     | 77    | 82    | 90    | 96     |
|      | MBh   | 100.8  | 102.7  | 107.6  | 114.8  | 98.5   | 100.4  | 105.1  | 112.1  | 96.1   | 98.0   | 102.6  | 109.5  | 93.8   | 95.6   | 100.1  | 106.8  | 89.1  | 90.8   | 95.1   | 101.5  | 82.5  | 84.1  | 88.1  | 94.0   |
|      | S/T   | 0.87   | 0.84   | 0.76   | 0.61   | 0.90   | 0.87   | 0.78   | 0.64   | 0.92   | 0.89   | 0.80   | 0.65   | 0.95   | 0.92   | 0.83   | 0.67   | 0.99  | 0.95   | 0.86   | 0.70   | 1.00  | 0.96  | 0.87  | 0.71   |
| 3500 | ΔT    | 23     | 23     | 21     | 19     | 23     | 23     | 22     | 19     | 23     | 23     | 22     | 19     | 23     | 23     | 22     | 19     | 23    | 23     | 22     | 19     | 22    | 21    | 20    | 17     |
|      | kW    | 8.45   | 8.62   | 8.88   | 9.15   | 9.06   | 9.25   | 9.53   | 9.83   | 9.61   | 9.81   | 10.11  | 10.43  | 10.09  | 10.30  | 10.62  | 10.96  | 10.49 | 10.72  | 11.06  | 11.42  | 10.85 | 11.08 | 11.43 | 11.81  |
|      | Amps  | 18.2   | 18.7   | 19.3   | 20.0   | 19.7   | 20.2   | 20.9   | 21.7   | 21.5   | 22.0   | 22.8   | 23.7   | 23.0   | 23.6   | 24.4   | 25.4   | 24.6  | 25.2   | 26.0   | 27.1   | 26.1  | 26.7  | 27.6  | 28.7   |
|      | Hi PR | 136    | 147    | 155    | 162    | 153    | 165    | 174    | 181    | 174    | 187    | 198    | 206    | 198    | 213    | 225    | 235    | 223   | 240    | 253    | 264    | 246   | 265   | 280   | 292    |
|      | Lo PR | 60     | 64     | 70     | 74     | 63     | 67     | 74     | 78     | 66     | 70     | 76     | 81     | 69     | 74     | 80     | 86     | 72    | 77     | 84     | 90     | 75    | 80    | 87    | 93     |

# EXPANDED COOLING DATA — GSH101204A\* / AR120

|       |         | Outdoor Ambient Temperature          |       |       |     |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |  |  |       |  |  |  |  |  |
|-------|---------|--------------------------------------|-------|-------|-----|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|--|--|-------|--|--|--|--|--|
|       |         | 65°F                                 |       |       |     |       |       | 75°F  |      |       |       |       |      | 85°F  |       |       |      |       |       | 95°F  |      |       |       |       |      | 105°F |       |       |    |  |  | 115°F |  |  |  |  |  |
|       |         | Entering Indoor Wet Bulb Temperature |       |       |     |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |  |  |       |  |  |  |  |  |
| IDB   | Airflow | 59                                   | 63    | 67    | 71  | 59    | 63    | 67    | 71   | 59    | 63    | 67    | 71   | 59    | 63    | 67    | 71   | 59    | 63    | 67    | 71   | 59    | 63    | 67    | 71   | 59    | 63    | 67    | 71 |  |  |       |  |  |  |  |  |
| 70    | MBh     | 106.8                                | 110.7 | 121.3 | -   | 104.3 | 108.1 | 118.5 | -    | 101.8 | 105.6 | 115.7 | -    | 99.4  | 103.0 | 112.8 | -    | 94.4  | 97.8  | 107.2 | -    | 87.4  | 90.6  | 99.3  | -    | 87.4  | 90.6  | 99.3  | -  |  |  |       |  |  |  |  |  |
|       | S/T     | 0.72                                 | 0.60  | 0.42  | -   | 0.75  | 0.63  | 0.43  | -    | 0.77  | 0.64  | 0.44  | -    | 0.79  | 0.66  | 0.46  | -    | 0.82  | 0.69  | 0.48  | -    | 0.83  | 0.69  | 0.48  | -    | 0.83  | 0.69  | 0.48  | -  |  |  |       |  |  |  |  |  |
|       | ΔT      | 16                                   | 14    | 10    | -   | 16    | 14    | 10    | -    | 16    | 14    | 11    | -    | 16    | 14    | 11    | -    | 16    | 14    | 10    | -    | 15    | 13    | 10    | -    | 15    | 13    | 10    | -  |  |  |       |  |  |  |  |  |
|       | kW      | 8.48                                 | 8.65  | 8.91  | -   | 9.10  | 9.28  | 9.57  | -    | 9.64  | 9.84  | 10.15 | -    | 10.12 | 10.34 | 10.66 | -    | 10.53 | 10.76 | 11.10 | -    | 10.88 | 11.12 | 11.48 | -    | 10.88 | 11.12 | 11.48 | -  |  |  |       |  |  |  |  |  |
|       | Amps    | 8.8                                  | 9.0   | 9.3   | -   | 9.5   | 9.8   | 10.1  | -    | 10.4  | 10.6  | 11.0  | -    | 11.1  | 11.4  | 11.8  | -    | 11.9  | 12.1  | 12.6  | -    | 12.6  | 12.9  | 13.3  | -    | 12.6  | 12.9  | 13.3  | -  |  |  |       |  |  |  |  |  |
|       | Hi PR   | 138                                  | 148   | 157   | -   | 155   | 166   | 176   | -    | 176   | 189   | 200   | -    | 200   | 216   | 228   | -    | 225   | 243   | 256   | -    | 249   | 268   | 283   | -    | 249   | 268   | 283   | -  |  |  |       |  |  |  |  |  |
|       | Lo PR   | 61                                   | 64    | 70    | -   | 64    | 68    | 74    | -    | 67    | 71    | 77    | -    | 70    | 74    | 81    | -    | 73    | 78    | 85    | -    | 76    | 81    | 88    | -    | 76    | 81    | 88    | -  |  |  |       |  |  |  |  |  |
|       | MBh     | 103.7                                | 107.5 | 117.8 | -   | 101.3 | 105.0 | 115.0 | -    | 98.9  | 102.5 | 112.3 | -    | 96.5  | 100.0 | 109.5 | -    | 91.6  | 95.0  | 104.1 | -    | 84.9  | 88.0  | 96.4  | -    | 84.9  | 88.0  | 96.4  | -  |  |  |       |  |  |  |  |  |
|       | S/T     | 0.69                                 | 0.58  | 0.40  | -   | 0.71  | 0.60  | 0.41  | -    | 0.73  | 0.61  | 0.42  | -    | 0.76  | 0.63  | 0.44  | -    | 0.79  | 0.66  | 0.45  | -    | 0.79  | 0.66  | 0.46  | -    | 0.79  | 0.66  | 0.46  | -  |  |  |       |  |  |  |  |  |
|       | ΔT      | 16                                   | 14    | 11    | -   | 17    | 14    | 11    | -    | 17    | 14    | 11    | -    | 17    | 15    | 11    | -    | 17    | 14    | 11    | -    | 15    | 13    | 10    | -    | 15    | 13    | 10    | -  |  |  |       |  |  |  |  |  |
|       | kW      | 8.41                                 | 8.58  | 8.84  | -   | 9.03  | 9.21  | 9.49  | -    | 9.57  | 9.77  | 10.07 | -    | 10.04 | 10.25 | 10.58 | -    | 10.45 | 10.67 | 11.01 | -    | 10.80 | 11.03 | 11.38 | -    | 10.80 | 11.03 | 11.38 | -  |  |  |       |  |  |  |  |  |
| Amps  | 8.7     | 9.0                                  | 9.3   | -     | 9.5 | 9.7   | 10.0  | -     | 10.3 | 10.6  | 10.9  | -     | 11.0 | 11.3  | 11.7  | -     | 11.7 | 12.0  | 12.4  | -     | 12.5 | 12.8  | 13.2  | -     | 12.5 | 12.8  | 13.2  | -     |    |  |  |       |  |  |  |  |  |
| Hi PR | 136     | 147                                  | 155   | -     | 153 | 165   | 174   | -     | 174  | 187   | 198   | -     | 198  | 213   | 225   | -     | 223  | 240   | 254   | -     | 247  | 265   | 280   | -     | 247  | 265   | 280   | -     |    |  |  |       |  |  |  |  |  |
| Lo PR | 60      | 64                                   | 70    | -     | 63  | 67    | 74    | -     | 66   | 70    | 77    | -     | 69   | 74    | 80    | -     | 73   | 77    | 84    | -     | 75   | 80    | 87    | -     | 75   | 80    | 87    | -     |    |  |  |       |  |  |  |  |  |
| 3500  | MBh     | 95.7                                 | 99.2  | 108.7 | -   | 93.5  | 96.9  | 106.2 | -    | 91.3  | 94.6  | 103.6 | -    | 89.0  | 92.3  | 101.1 | -    | 84.6  | 87.7  | 96.1  | -    | 78.4  | 81.2  | 89.0  | -    | 78.4  | 81.2  | 89.0  | -  |  |  |       |  |  |  |  |  |
|       | S/T     | 0.67                                 | 0.56  | 0.38  | -   | 0.69  | 0.58  | 0.40  | -    | 0.71  | 0.59  | 0.41  | -    | 0.73  | 0.61  | 0.42  | -    | 0.76  | 0.63  | 0.44  | -    | 0.76  | 0.64  | 0.44  | -    | 0.76  | 0.64  | 0.44  | -  |  |  |       |  |  |  |  |  |
|       | ΔT      | 17                                   | 14    | 11    | -   | 17    | 15    | 11    | -    | 17    | 15    | 11    | -    | 17    | 15    | 11    | -    | 17    | 15    | 11    | -    | 16    | 14    | 10    | -    | 16    | 14    | 10    | -  |  |  |       |  |  |  |  |  |
|       | kW      | 8.23                                 | 8.39  | 8.64  | -   | 8.82  | 9.00  | 9.27  | -    | 9.34  | 9.54  | 9.83  | -    | 9.80  | 10.01 | 10.32 | -    | 10.20 | 10.41 | 10.74 | -    | 10.54 | 10.76 | 11.10 | -    | 10.54 | 10.76 | 11.10 | -  |  |  |       |  |  |  |  |  |
|       | Amps    | 8.5                                  | 8.7   | 9.0   | -   | 9.2   | 9.4   | 9.7   | -    | 10.0  | 10.3  | 10.6  | -    | 10.7  | 11.0  | 11.3  | -    | 11.4  | 11.7  | 12.1  | -    | 12.1  | 12.4  | 12.8  | -    | 12.1  | 12.4  | 12.8  | -  |  |  |       |  |  |  |  |  |
|       | Hi PR   | 132                                  | 142   | 150   | -   | 149   | 160   | 169   | -    | 169   | 182   | 192   | -    | 192   | 207   | 219   | -    | 216   | 233   | 246   | -    | 239   | 257   | 272   | -    | 239   | 257   | 272   | -  |  |  |       |  |  |  |  |  |
|       | Lo PR   | 58                                   | 62    | 68    | -   | 61    | 65    | 71    | -    | 64    | 68    | 74    | -    | 67    | 71    | 78    | -    | 70    | 75    | 82    | -    | 73    | 77    | 84    | -    | 73    | 77    | 84    | -  |  |  |       |  |  |  |  |  |

|      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |        |        |       |       |       |        |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|-------|-------|--------|
| 4500 | MBh   | 108.62 | 111.84 | 121.05 | 129.92 | 106.10 | 109.24 | 118.24 | 126.90 | 103.57 | 106.63 | 115.42 | 123.88 | 101.04 | 104.03 | 112.61 | 120.86 | 95.99 | 98.83 | 106.98 | 114.81 | 88.92 | 91.55 | 99.09 | 106.35 |
|      | S/T   | 0.82   | 0.74   | 0.56   | 0.36   | 0.85   | 0.76   | 0.58   | 0.37   | 0.87   | 0.78   | 0.59   | 0.38   | 0.90   | 0.81   | 0.61   | 0.39   | 0.94  | 0.84  | 0.63   | 0.41   | 0.94  | 0.84  | 0.64  | 0.41   |
|      | ΔT    | 18     | 17     | 14     | 10     | 18     | 17     | 14     | 10     | 18     | 17     | 14     | 10     | 19     | 17     | 14     | 10     | 18    | 17    | 14     | 10     | 17    | 16    | 13    | 9      |
|      | kW    | 8.54   | 8.71   | 8.98   | 9.25   | 9.17   | 9.36   | 9.64   | 9.94   | 9.72   | 9.92   | 10.23  | 10.56  | 10.20  | 10.42  | 10.75  | 11.10  | 10.62 | 10.84 | 11.19  | 11.55  | 10.97 | 11.21 | 11.57 | 11.95  |
|      | Amps  | 8.9    | 9.1    | 9.4    | 9.8    | 9.6    | 9.9    | 10.2   | 10.6   | 10.5   | 10.8   | 11.1   | 11.5   | 11.2   | 11.5   | 11.9   | 12.4   | 12.0  | 12.3  | 12.7   | 13.2   | 12.7  | 13.0  | 13.5  | 14.0   |
|      | Hi PR | 139    | 150    | 158    | 165    | 156    | 168    | 178    | 185    | 178    | 191    | 202    | 211    | 202    | 218    | 230    | 240    | 228   | 245   | 259    | 270    | 252   | 271   | 286   | 298    |
|      | Lo PR | 61     | 65     | 71     | 76     | 65     | 69     | 75     | 80     | 67     | 71     | 78     | 83     | 71     | 75     | 82     | 87     | 74    | 79    | 86     | 92     | 77    | 81    | 89    | 95     |
|      | MBh   | 105.5  | 108.6  | 117.5  | 126.1  | 103.0  | 106.1  | 114.8  | 123.2  | 100.6  | 103.5  | 112.1  | 120.3  | 98.1   | 101.0  | 109.3  | 117.3  | 93.2  | 96.0  | 103.9  | 111.5  | 86.3  | 88.9  | 96.2  | 103.3  |
| 4000 | S/T   | 0.78   | 0.70   | 0.53   | 0.34   | 0.81   | 0.73   | 0.55   | 0.35   | 0.83   | 0.75   | 0.56   | 0.36   | 0.86   | 0.77   | 0.58   | 0.37   | 0.89  | 0.80  | 0.60   | 0.39   | 0.90  | 0.81  | 0.61  | 0.39   |
|      | ΔT    | 19     | 18     | 14     | 10     | 19     | 18     | 15     | 10     | 19     | 18     | 15     | 10     | 19     | 18     | 15     | 10     | 19    | 18    | 14     | 10     | 18    | 16    | 13    | 9      |
|      | kW    | 8.48   | 8.65   | 8.91   | 9.18   | 9.10   | 9.28   | 9.57   | 9.87   | 9.64   | 9.84   | 10.15  | 10.47  | 10.12  | 10.34  | 10.66  | 11.01  | 10.53 | 10.76 | 11.10  | 11.46  | 10.89 | 11.12 | 11.48 | 11.85  |
|      | Amps  | 8.8    | 9.0    | 9.3    | 9.7    | 9.5    | 9.8    | 10.1   | 10.5   | 10.4   | 10.7   | 11.0   | 11.4   | 11.1   | 11.4   | 11.8   | 12.2   | 11.9  | 12.1  | 12.6   | 13.1   | 12.6  | 12.9  | 13.3  | 13.8   |
|      | Hi PR | 138    | 148    | 157    | 163    | 155    | 166    | 176    | 183    | 176    | 189    | 200    | 209    | 200    | 216    | 228    | 237    | 225   | 243   | 256    | 267    | 249   | 268   | 283   | 295    |
|      | Lo PR | 61     | 64     | 70     | 75     | 64     | 68     | 74     | 79     | 67     | 71     | 77     | 82     | 70     | 74     | 81     | 86     | 73    | 78    | 85     | 91     | 76    | 81    | 88    | 94     |
|      | MBh   | 97.3   | 100.2  | 108.5  | 116.4  | 95.1   | 97.9   | 106.0  | 113.7  | 92.8   | 95.6   | 103.4  | 111.0  | 90.5   | 93.23  | 100.9  | 108.3  | 86.0  | 88.6  | 95.9   | 102.9  | 79.7  | 82.0  | 88.8  | 95.3   |
|      | S/T   | 0.76   | 0.68   | 0.51   | 0.33   | 0.78   | 0.70   | 0.53   | 0.34   | 0.80   | 0.72   | 0.54   | 0.35   | 0.83   | 0.74   | 0.56   | 0.36   | 0.86  | 0.77  | 0.58   | 0.37   | 0.87  | 0.78  | 0.59  | 0.38   |
| 3500 | ΔT    | 19     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 20     | 18     | 15     | 10     | 19    | 18    | 15     | 10     | 18    | 17    | 14    | 9      |
|      | kW    | 8.29   | 8.45   | 8.70   | 8.97   | 8.89   | 9.07   | 9.34   | 9.63   | 9.42   | 9.61   | 9.91   | 10.22  | 9.88   | 10.09  | 10.41  | 10.74  | 10.28 | 10.50 | 10.83  | 11.18  | 10.62 | 10.85 | 11.20 | 11.56  |
|      | Amps  | 8.6    | 8.8    | 9.1    | 9.4    | 9.3    | 9.5    | 9.8    | 10.2   | 10.1   | 10.4   | 10.7   | 11.1   | 10.8   | 11.1   | 11.5   | 11.9   | 11.5  | 11.8  | 12.2   | 12.7   | 12.2  | 12.5  | 13.0  | 13.5   |
|      | Hi PR | 134    | 144    | 152    | 158    | 150    | 161    | 171    | 178    | 171    | 184    | 194    | 202    | 194    | 209    | 221    | 230    | 219   | 235   | 248    | 259    | 242   | 260   | 275   | 286    |
|      | Lo PR | 59     | 63     | 68     | 73     | 62     | 66     | 72     | 77     | 65     | 69     | 75     | 80     | 68     | 72     | 79     | 84     | 71    | 76    | 83     | 88     | 73    | 78    | 85    | 91     |

# EXPANDED COOLING DATA — GSH101204A\* / AR120 (CONT.)

|       |         | Outdoor Ambient Temperature |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |       |       |        |       |       |       |        |
|-------|---------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|--------|
|       |         | 65°F                        |        |        |        | 75°F   |        |        |        | 85°F   |        |        |        | 95°F   |        |        |        | 105°F |        |        |        | 115°F |       |       |        |       |       |       |        |
| IDB   | Airflow | 59                          | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59     | 63     | 67     | 71     | 59    | 63     | 67     | 71     | 59    | 63    | 67    | 71     | 59    | 63    | 67    | 71     |
| 80    | MBh     | 110.55                      | 112.97 | 120.69 | 129.02 | 107.98 | 110.34 | 117.88 | 126.02 | 105.41 | 107.71 | 115.08 | 123.02 | 102.84 | 105.08 | 112.27 | 120.02 | 97.70 | 99.83  | 106.66 | 114.02 | 90.50 | 92.47 | 98.80 | 105.61 | 90.50 | 92.47 | 98.80 | 105.61 |
|       | S/T     | 0.90                        | 0.85   | 0.69   | 0.51   | 0.93   | 0.88   | 0.71   | 0.53   | 0.96   | 0.90   | 0.73   | 0.55   | 1.00   | 0.93   | 0.75   | 0.56   | 1.00  | 0.96   | 0.78   | 0.59   | 1.00  | 0.97  | 0.79  | 0.59   | 1.00  | 0.97  | 0.79  | 0.59   |
|       | ΔT      | 20                          | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 21     | 20     | 17     | 14     | 20    | 20     | 17     | 14     | 18    | 18    | 16    | 13     | 18    | 18    | 16    | 13     |
|       | kW      | 8.61                        | 8.78   | 9.05   | 9.32   | 9.24   | 9.43   | 9.72   | 10.02  | 9.79   | 10.00  | 10.31  | 10.64  | 10.29  | 10.50  | 10.84  | 11.19  | 10.70 | 10.93  | 11.28  | 11.65  | 11.06 | 11.30 | 11.67 | 12.05  | 11.06 | 11.30 | 11.67 | 12.05  |
|       | Amps    | 9.0                         | 9.2    | 9.5    | 9.9    | 9.7    | 10.0   | 10.3   | 10.7   | 10.6   | 10.9   | 11.2   | 11.7   | 11.3   | 11.6   | 12.0   | 12.5   | 12.1  | 12.4   | 12.8   | 13.3   | 12.8  | 13.1  | 13.6  | 14.1   | 12.8  | 13.1  | 13.6  | 14.1   |
|       | Hi PR   | 141                         | 151    | 160    | 167    | 158    | 170    | 179    | 187    | 179    | 193    | 204    | 213    | 204    | 220    | 232    | 242    | 230   | 247    | 261    | 273    | 254   | 273   | 289   | 301    | 254   | 273   | 289   | 301    |
|       | Lo PR   | 62                          | 66     | 72     | 76     | 65     | 69     | 76     | 81     | 68     | 72     | 79     | 84     | 71     | 76     | 83     | 88     | 75    | 80     | 87     | 92     | 77    | 82    | 90    | 96     | 77    | 82    | 90    | 96     |
|       | MBh     | 107.3                       | 109.7  | 117.2  | 125.3  | 104.8  | 107.1  | 114.5  | 122.3  | 102.3  | 104.6  | 111.7  | 119.4  | 99.8   | 102.0  | 109.0  | 116.5  | 94.9  | 96.9   | 103.6  | 110.7  | 87.9  | 89.8  | 95.9  | 102.5  | 87.9  | 89.8  | 95.9  | 102.5  |
|       | S/T     | 0.86                        | 0.81   | 0.66   | 0.49   | 0.89   | 0.84   | 0.68   | 0.51   | 0.91   | 0.86   | 0.70   | 0.52   | 0.94   | 0.88   | 0.72   | 0.54   | 0.98  | 0.92   | 0.75   | 0.56   | 0.99  | 0.93  | 0.75  | 0.56   | 0.99  | 0.93  | 0.75  | 0.56   |
|       | ΔT      | 21                          | 20     | 18     | 14     | 21     | 21     | 18     | 14     | 21     | 21     | 18     | 14     | 22     | 21     | 18     | 14     | 21    | 20     | 18     | 14     | 20    | 19    | 17    | 13     | 20    | 19    | 17    | 13     |
| kW    | 8.54    | 8.72                        | 8.98   | 9.25   | 9.17   | 9.36   | 9.64   | 9.94   | 9.72   | 9.92   | 10.23  | 10.56  | 10.21  | 10.42  | 10.75  | 11.10  | 10.62  | 10.85 | 11.19  | 11.55  | 10.98  | 11.21 | 11.57 | 11.95 | 10.98  | 11.21 | 11.57 | 11.95 |        |
| 3500  | Amps    | 8.9                         | 9.1    | 9.4    | 9.8    | 9.6    | 9.9    | 10.2   | 10.6   | 10.5   | 10.8   | 11.1   | 11.5   | 11.2   | 11.5   | 11.9   | 12.4   | 12.0  | 12.3   | 12.7   | 13.2   | 12.7  | 13.0  | 13.5  | 14.0   | 12.7  | 13.0  | 13.5  | 14.0   |
|       | Hi PR   | 139                         | 150    | 158    | 165    | 156    | 168    | 178    | 185    | 178    | 191    | 202    | 211    | 202    | 218    | 230    | 240    | 228   | 245    | 259    | 270    | 252   | 271   | 286   | 298    | 252   | 271   | 286   | 298    |
|       | Lo PR   | 61                          | 65     | 71     | 76     | 65     | 69     | 75     | 80     | 67     | 72     | 78     | 83     | 71     | 75     | 82     | 87     | 74    | 79     | 86     | 92     | 77    | 81    | 89    | 95     | 77    | 81    | 89    | 95     |
|       | MBh     | 99.1                        | 101.2  | 108.2  | 115.6  | 96.8   | 98.9   | 105.6  | 112.9  | 94.5   | 96.5   | 103.1  | 110.2  | 92.2   | 94.2   | 100.6  | 107.5  | 87.5  | 89.5   | 95.6   | 102.2  | 81.1  | 82.9  | 88.5  | 94.6   | 81.1  | 82.9  | 88.5  | 94.6   |
|       | S/T     | 0.83                        | 0.78   | 0.63   | 0.47   | 0.86   | 0.81   | 0.66   | 0.49   | 0.88   | 0.83   | 0.67   | 0.50   | 0.91   | 0.85   | 0.69   | 0.52   | 0.94  | 0.89   | 0.72   | 0.54   | 0.95  | 0.89  | 0.73  | 0.54   | 0.95  | 0.89  | 0.73  | 0.54   |
|       | ΔT      | 22                          | 21     | 18     | 14     | 22     | 21     | 18     | 15     | 22     | 21     | 18     | 15     | 22     | 21     | 18     | 15     | 22    | 21     | 18     | 14     | 20    | 19    | 17    | 14     | 20    | 19    | 17    | 14     |
|       | kW      | 8.35                        | 8.52   | 8.77   | 9.04   | 8.96   | 9.14   | 9.42   | 9.71   | 9.49   | 9.69   | 9.99   | 10.30  | 9.96   | 10.17  | 10.49  | 10.83  | 10.36 | 10.58  | 10.92  | 11.27  | 10.71 | 10.94 | 11.29 | 11.66  | 10.71 | 10.94 | 11.29 | 11.66  |
|       | Amps    | 8.7                         | 8.9    | 9.2    | 9.5    | 9.4    | 9.6    | 9.9    | 10.3   | 10.2   | 10.4   | 10.8   | 11.2   | 10.9   | 11.2   | 11.6   | 12.0   | 11.6  | 11.9   | 12.3   | 12.8   | 12.3  | 12.6  | 13.1  | 13.6   | 12.3  | 12.6  | 13.1  | 13.6   |
|       | Hi PR   | 135                         | 145    | 153    | 160    | 152    | 163    | 172    | 180    | 172    | 186    | 196    | 204    | 196    | 211    | 223    | 233    | 221   | 238    | 251    | 262    | 244   | 263   | 277   | 289    | 244   | 263   | 277   | 289    |
|       | Lo PR   | 59                          | 63     | 69     | 73     | 63     | 67     | 73     | 78     | 65     | 69     | 76     | 81     | 68     | 73     | 80     | 85     | 72    | 76     | 83     | 89     | 74    | 79    | 86    | 92     | 74    | 79    | 86    | 92     |
| 85    | MBh     | 112.48                      | 114.66 | 120.09 | 128.11 | 109.87 | 111.99 | 117.29 | 125.14 | 107.25 | 109.33 | 114.50 | 122.16 | 104.64 | 106.66 | 111.71 | 119.18 | 99.40 | 101.33 | 106.12 | 113.22 | 92.08 | 93.86 | 98.30 | 104.88 | 92.08 | 93.86 | 98.30 | 104.88 |
|       | S/T     | 0.95                        | 0.91   | 0.82   | 0.67   | 0.98   | 0.95   | 0.85   | 0.69   | 1.00   | 0.97   | 0.87   | 0.71   | 1.00   | 1.00   | 0.90   | 0.73   | 1.00  | 1.00   | 0.94   | 0.76   | 1.00  | 1.00  | 0.94  | 0.77   | 1.00  | 1.00  | 0.94  | 0.77   |
|       | ΔT      | 22                          | 21     | 20     | 17     | 22     | 22     | 20     | 18     | 22     | 22     | 20     | 18     | 21     | 22     | 21     | 18     | 20    | 21     | 20     | 18     | 19    | 19    | 16    | 16     | 19    | 19    | 16    | 16     |
|       | kW      | 8.67                        | 8.85   | 9.11   | 9.40   | 9.31   | 9.50   | 9.79   | 10.10  | 9.87   | 10.08  | 10.39  | 10.73  | 10.37  | 10.59  | 10.92  | 11.28  | 10.79 | 11.02  | 11.37  | 11.74  | 11.15 | 11.39 | 11.76 | 12.15  | 11.15 | 11.39 | 11.76 | 12.15  |
|       | Amps    | 9.1                         | 9.3    | 9.6    | 10.0   | 9.8    | 10.1   | 10.4   | 10.8   | 10.7   | 11.0   | 11.3   | 11.8   | 11.4   | 11.7   | 12.1   | 12.6   | 12.2  | 12.5   | 12.9   | 13.4   | 12.9  | 13.3  | 13.7  | 14.2   | 12.9  | 13.3  | 13.7  | 14.2   |
|       | Hi PR   | 142                         | 153    | 161    | 168    | 159    | 172    | 181    | 189    | 181    | 195    | 206    | 215    | 206    | 222    | 235    | 245    | 232   | 250    | 264    | 275    | 257   | 276   | 292   | 304    | 257   | 276   | 292   | 304    |
|       | Lo PR   | 62                          | 66     | 73     | 77     | 66     | 70     | 77     | 82     | 69     | 73     | 80     | 85     | 72     | 77     | 84     | 89     | 75    | 80     | 88     | 93     | 78    | 83    | 91    | 97     | 78    | 83    | 91    | 97     |
|       | MBh     | 109.2                       | 111.3  | 116.6  | 124.4  | 106.7  | 108.7  | 113.9  | 121.5  | 104.1  | 106.1  | 111.2  | 118.6  | 101.6  | 103.6  | 108.5  | 115.7  | 96.5  | 98.4   | 103.0  | 109.9  | 89.4  | 91.1  | 95.4  | 101.8  | 89.4  | 91.1  | 95.4  | 101.8  |
|       | S/T     | 0.90                        | 0.87   | 0.79   | 0.64   | 0.93   | 0.90   | 0.81   | 0.66   | 0.96   | 0.92   | 0.83   | 0.68   | 0.99   | 0.95   | 0.86   | 0.70   | 1.00  | 0.99   | 0.89   | 0.73   | 1.00  | 1.00  | 0.90  | 0.73   | 1.00  | 1.00  | 0.90  | 0.73   |
|       | ΔT      | 23                          | 22     | 21     | 18     | 23     | 23     | 21     | 18     | 23     | 23     | 21     | 18     | 23     | 23     | 21     | 19     | 22    | 22     | 21     | 18     | 21    | 21    | 20    | 17     | 21    | 21    | 20    | 17     |
| kW    | 8.61    | 8.78                        | 9.05   | 9.32   | 9.24   | 9.43   | 9.72   | 10.02  | 9.79   | 10.00  | 10.31  | 10.64  | 10.29  | 10.50  | 10.84  | 11.19  | 10.70  | 10.93 | 11.28  | 11.65  | 11.06  | 11.30 | 11.67 | 12.05 | 11.06  | 11.30 | 11.67 | 12.05 |        |
| Amps  | 9.0     | 9.2                         | 9.5    | 9.9    | 9.7    | 10.0   | 10.3   | 10.7   | 10.6   | 10.9   | 11.2   | 11.7   | 11.3   | 11.6   | 12.0   | 12.5   | 12.1   | 12.4  | 12.8   | 13.3   | 12.8   | 13.1  | 13.6  | 14.1  | 12.8   | 13.1  | 13.6  | 14.1  |        |
| Hi PR | 141     | 151                         | 160    | 167    | 158    | 170    | 179    | 187    | 179    | 193    | 204    | 213    | 204    | 220    | 232    | 242    | 230    | 247   | 261    | 273    | 254    | 273   | 289   | 301   | 254    | 273   | 289   | 301   |        |
| Lo PR | 62      | 66                          | 72     | 76     | 65     | 69     | 76     | 81     | 68     | 72     | 79     | 84     | 71     | 76     | 83     | 88     | 75     | 80    | 87     | 92     | 77     | 82    | 90    | 96    | 77     | 82    | 90    | 96    |        |
| 3500  | MBh     | 100.8                       | 102.7  | 107.6  | 114.8  | 98.5   | 100.4  | 105.1  | 112.1  | 96.1   | 98.0   | 102.6  | 109.5  | 93.8   | 95.6   | 100.1  | 106.8  | 89.1  | 90.8   | 95.1   | 101.5  | 82.5  | 84.1  | 88.1  | 94.0   | 82.5  | 84.1  | 88.1  | 94.0   |
|       | S/T     | 0.87                        | 0.84   | 0.76   | 0.61   | 0.90   | 0.87   | 0.78   | 0.64   | 0.92   | 0.89   | 0.80   | 0.65   | 0.95   | 0.92   | 0.83   | 0.67   | 0.99  | 0.95   | 0.86   | 0.70   | 1.00  | 0.96  | 0.87  | 0.71   | 1.00  | 0.96  | 0.87  | 0.71   |
|       | ΔT      | 23                          | 23     | 21     | 19     | 23     | 23     | 22     | 19     | 23     | 23     | 22     | 19     | 23     | 23     | 22     | 19     | 23    | 23     | 22     | 19     | 22    | 21    | 20    | 17     | 22    | 21    | 20    | 17     |
|       | kW      | 8.41                        | 8.58   | 8.84   | 9.11   | 9.02   | 9.21   | 9.49   | 9.79   | 9.56   | 9.76   | 10.07  | 10.38  | 10.04  | 10.25  | 10.57  | 10.91  | 10.45 | 10.67  | 11.01  | 11.36  | 10.79 | 11.03 | 11.38 | 11.75  | 10.79 | 11.03 | 11.38 | 11.75  |
|       | Amps    | 8.7                         | 8.9    | 9.2    | 9.6    | 9.5    | 9.7    | 10.0   | 10.4   | 10.3   | 10.5   | 10.9   | 11.3   | 11.0   | 11.3   | 11.7   | 12.1   | 11.7  | 12.0   | 12.4   | 12.9   | 12.4  | 12.8  | 13.2  | 13.7   | 12.4  | 12.8  | 13.2  | 13.7   |
|       | Hi PR   | 136                         | 147    | 155    | 162    | 153    | 165    | 174    | 181    | 174    | 187    | 198    | 206    | 198    | 213    | 225    | 235    | 223   | 240    | 253    | 264    | 246   | 265   | 280   | 292    | 246   | 265   | 280   | 292    |
|       | Lo PR   | 60                          | 64     | 70     | 74     | 63     | 67     | 74     | 78     | 66     | 70     | 76     | 81     | 69     | 74     | 80     | 86     | 72    | 77     | 84     | 90     | 75    | 80    | 87    | 93     | 7     |       |       |        |

# EXPANDED HEATING DATA

## GSH101203A\* / AR120

|       | Outdoor Ambient Temperature |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60    | 55    | 50    | 47    | 45    | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh   | 132.6                       | 125.5 | 118.2 | 110.5 | 105.5 | 102.2 | 95.0 | 87.6 | 85.4 | 78.8 | 72.5 | 68.5 | 66.0 | 59.2 | 52.5 | 45.8 | 39.0 | 32.0 |
| ΔT    | 30.7                        | 29.1  | 27.4  | 25.6  | 24.4  | 23.7  | 22.0 | 20.3 | 19.8 | 18.2 | 16.8 | 15.9 | 15.3 | 13.7 | 12.1 | 10.6 | 9.0  | 7.4  |
| kW    | 10.41                       | 10.21 | 10.01 | 9.81  | 9.70  | 9.62  | 9.43 | 9.23 | 9.69 | 9.47 | 9.26 | 9.13 | 9.05 | 8.83 | 8.62 | 8.41 | 8.19 | 7.98 |
| Amps  | 28.3                        | 26.2  | 24.5  | 23.0  | 22.1  | 21.7  | 20.4 | 19.3 | 18.4 | 17.6 | 16.7 | 16.3 | 16.1 | 15.2 | 14.1 | 13.3 | 12.2 | 10.9 |
| COP   | 3.73                        | 3.60  | 3.45  | 3.29  | 3.18  | 3.11  | 2.95 | 2.78 | 2.58 | 2.44 | 2.29 | 2.20 | 2.13 | 1.96 | 1.78 | 1.59 | 1.40 | 1.17 |
| EER   | 12.7                        | 12.3  | 11.8  | 11.3  | 10.9  | 10.6  | 10.1 | 9.5  | 8.8  | 8.3  | 7.8  | 7.5  | 7.3  | 6.7  | 6.1  | 5.4  | 4.8  | 4.0  |
| Hi PR | 221                         | 212   | 203   | 195   | 190   | 186   | 179  | 172  | 165  | 157  | 151  | 147  | 145  | 139  | 134  | 128  | 124  | 120  |
| Lo PR | 66                          | 62    | 58    | 53    | 50    | 48    | 44   | 39   | 36   | 32   | 28   | 26   | 25   | 21   | 18   | 15   | 13   | 11   |

## GSH101204A\* / AR120

|       | Outdoor Ambient Temperature |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60    | 55    | 50    | 47    | 45    | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh   | 132.6                       | 125.5 | 118.2 | 110.5 | 105.5 | 102.2 | 95.0 | 87.6 | 85.4 | 78.8 | 72.5 | 68.5 | 66.0 | 59.2 | 52.5 | 45.8 | 39.0 | 32.0 |
| ΔT    | 30.7                        | 29.1  | 27.4  | 25.6  | 24.4  | 23.7  | 22.0 | 20.3 | 19.8 | 18.2 | 16.8 | 15.9 | 15.3 | 13.7 | 12.1 | 10.6 | 9.0  | 7.4  |
| kW    | 10.37                       | 10.18 | 9.98  | 9.78  | 9.67  | 9.59  | 9.40 | 9.20 | 9.65 | 9.44 | 9.23 | 9.10 | 9.02 | 8.80 | 8.59 | 8.38 | 8.16 | 7.95 |
| Amps  | 13.9                        | 12.9  | 12.1  | 11.3  | 10.9  | 10.7  | 10.1 | 9.5  | 9.1  | 8.7  | 8.3  | 8.1  | 8.0  | 7.5  | 7.0  | 6.6  | 6.1  | 5.4  |
| COP   | 3.74                        | 3.61  | 3.46  | 3.30  | 3.19  | 3.12  | 2.96 | 2.79 | 2.59 | 2.44 | 2.30 | 2.20 | 2.14 | 1.97 | 1.79 | 1.60 | 1.40 | 1.18 |
| EER   | 12.8                        | 12.3  | 11.8  | 11.3  | 10.9  | 10.7  | 10.1 | 9.5  | 8.8  | 8.3  | 7.9  | 7.5  | 7.3  | 6.7  | 6.1  | 5.5  | 4.8  | 4.0  |
| Hi PR | 222                         | 213   | 205   | 196   | 191   | 187   | 180  | 173  | 166  | 158  | 152  | 148  | 146  | 140  | 135  | 129  | 125  | 120  |
| Lo PR | 66                          | 62    | 58    | 53    | 50    | 48    | 44   | 39   | 36   | 32   | 28   | 26   | 25   | 21   | 18   | 15   | 13   | 11   |

High pressure is measured at the suction service valve ( the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

## EXPANDED HEATING DATA (CONT.)

### GSH100903A\* / AR090

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh   | 103.1                       | 97.6 | 91.8 | 85.9 | 82.0 | 79.5 | 73.8 | 68.1 | 66.0 | 61.0 | 56.1 | 53.0 | 51.0 | 45.8 | 40.6 | 35.4 | 30.2 | 24.8 |
| ΔT    | 33.1                        | 31.4 | 29.5 | 27.6 | 26.4 | 25.5 | 23.7 | 21.9 | 21.2 | 19.6 | 18.0 | 17.0 | 16.4 | 14.7 | 13.1 | 11.4 | 9.7  | 8.0  |
| kW    | 8.04                        | 7.89 | 7.74 | 7.59 | 7.50 | 7.44 | 7.29 | 7.14 | 7.48 | 7.32 | 7.16 | 7.06 | 7.00 | 6.83 | 6.67 | 6.51 | 6.34 | 6.18 |
| Amps  | 24.4                        | 22.6 | 21.1 | 19.8 | 19.1 | 18.7 | 17.6 | 16.7 | 16.0 | 15.3 | 14.5 | 14.2 | 14.0 | 13.3 | 12.4 | 11.6 | 10.7 | 9.6  |
| COP   | 3.75                        | 3.62 | 3.47 | 3.31 | 3.20 | 3.13 | 2.96 | 2.79 | 2.58 | 2.44 | 2.30 | 2.20 | 2.14 | 1.96 | 1.78 | 1.59 | 1.39 | 1.17 |
| EER   | 12.8                        | 12.4 | 11.9 | 11.3 | 10.9 | 10.7 | 10.1 | 9.5  | 8.8  | 8.3  | 7.8  | 7.5  | 7.3  | 6.7  | 6.1  | 5.4  | 4.8  | 4.0  |
| Hi PR | 244                         | 234  | 225  | 215  | 210  | 206  | 198  | 190  | 182  | 174  | 167  | 163  | 160  | 154  | 148  | 142  | 137  | 132  |
| Lo PR | 72                          | 66   | 62   | 57   | 54   | 52   | 48   | 43   | 38   | 34   | 30   | 28   | 27   | 23   | 20   | 17   | 15   | 11   |

### GSH100904A\* / AR090

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh   | 103.1                       | 97.6 | 91.8 | 85.9 | 82.0 | 79.5 | 73.8 | 68.1 | 66.0 | 61.0 | 56.1 | 53.0 | 51.0 | 45.8 | 40.6 | 35.4 | 30.2 | 24.8 |
| ΔT    | 33.1                        | 31.4 | 29.5 | 27.6 | 26.4 | 25.5 | 23.7 | 21.9 | 21.2 | 19.6 | 18.0 | 17.0 | 16.4 | 14.7 | 13.1 | 11.4 | 9.7  | 8.0  |
| kW    | 8.03                        | 7.88 | 7.73 | 7.58 | 7.50 | 7.44 | 7.30 | 7.15 | 3.68 | 3.63 | 3.58 | 3.55 | 3.53 | 3.48 | 3.43 | 3.37 | 3.32 | 3.27 |
| Amps  | 12.5                        | 11.6 | 10.8 | 10.2 | 9.8  | 9.6  | 9.1  | 8.6  | 8.2  | 7.8  | 7.5  | 7.3  | 7.2  | 6.8  | 6.3  | 6.0  | 5.5  | 4.9  |
| COP   | 3.76                        | 3.62 | 3.48 | 3.31 | 3.20 | 3.13 | 2.96 | 2.79 | 5.25 | 4.91 | 4.59 | 4.37 | 4.23 | 3.85 | 3.47 | 3.07 | 2.66 | 2.21 |
| EER   | 12.8                        | 12.4 | 11.9 | 11.3 | 10.9 | 10.7 | 10.1 | 9.5  | 17.9 | 16.8 | 15.7 | 14.9 | 14.5 | 13.2 | 11.9 | 10.5 | 9.1  | 7.6  |
| Hi PR | 242                         | 232  | 223  | 213  | 208  | 204  | 196  | 188  | 180  | 172  | 165  | 161  | 158  | 152  | 147  | 141  | 136  | 131  |
| Lo PR | 73                          | 68   | 63   | 58   | 55   | 53   | 49   | 43   | 39   | 35   | 31   | 29   | 28   | 23   | 20   | 17   | 15   | 12   |

High pressure is measured at the suction service valve ( the larger valve).

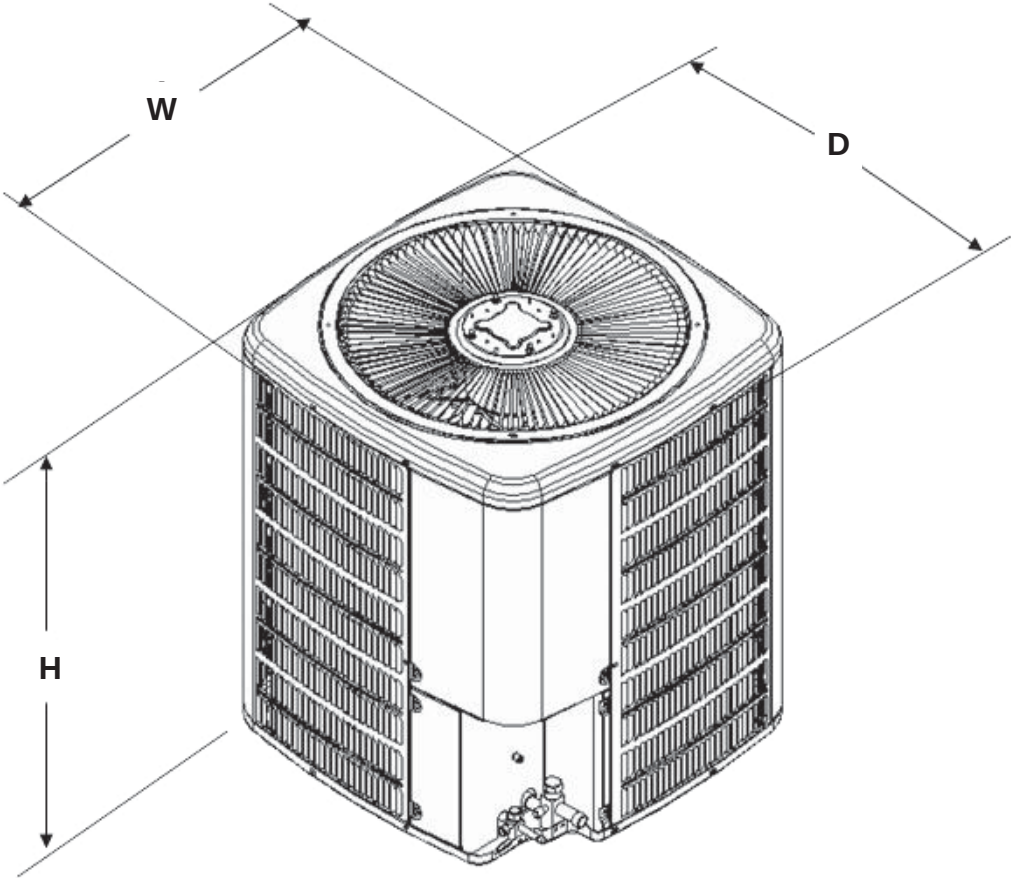
Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

Amps = Outdoor unit amps (comp.+fan)

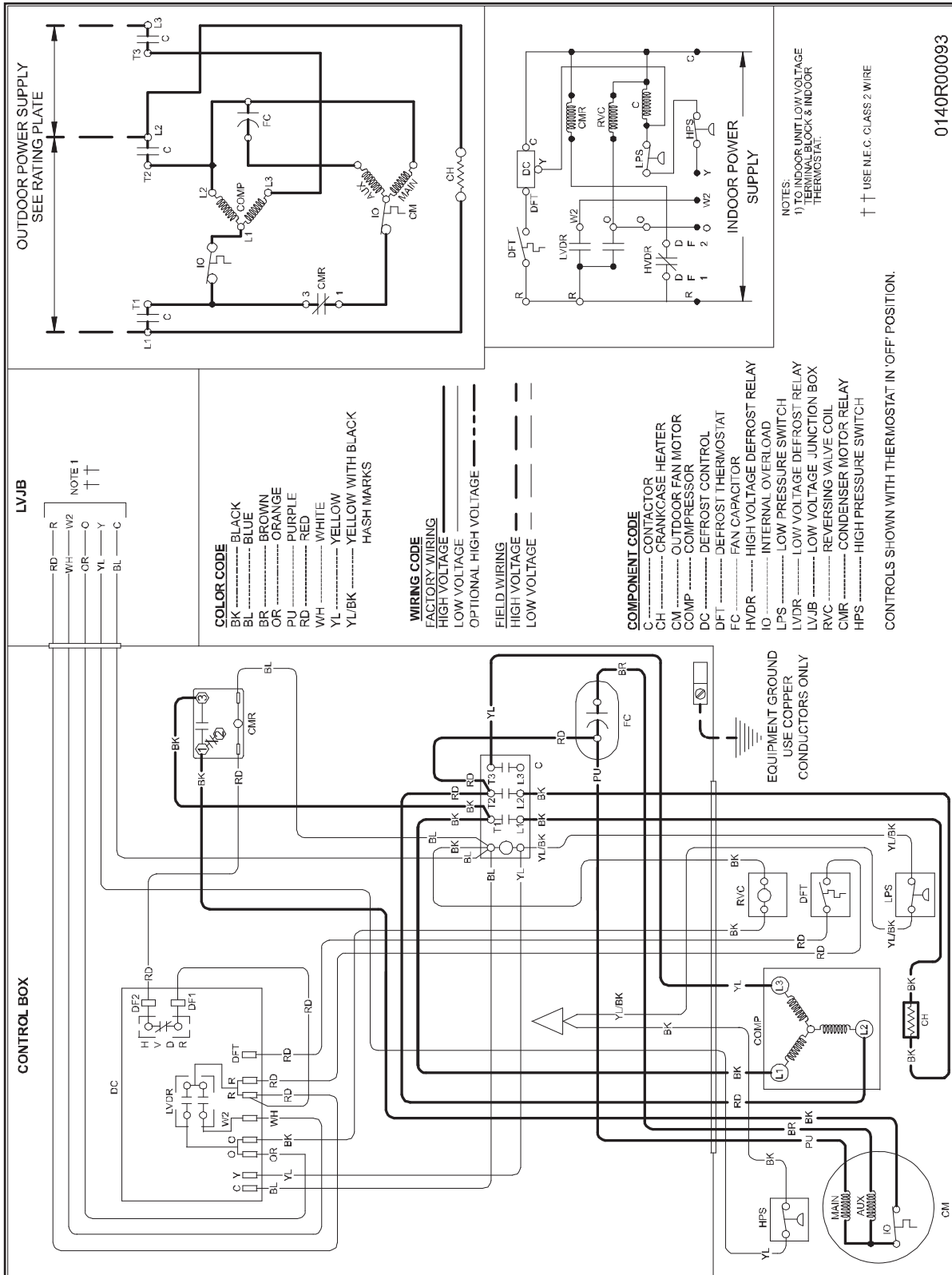
kW = Total system power

DIMENSIONS



| Model       | Dimensions<br>W x D x H |
|-------------|-------------------------|
| GSH100903AA | 35½ x 35½ x 41½         |
| GSH100904AA | 35½ x 35½ x 41½         |
| GSH101203AA | 35½ x 35½ x 37½         |
| GSH101204AA | 35½ x 35½ x 37½         |

# WIRING DIAGRAM



0140R00093

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date schematic.



## WARNING

### High Voltage:

Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



## ACCESSORIES

| Model                 | Description                                             |
|-----------------------|---------------------------------------------------------|
| ABK-20                | Anchor Bracket Kit *                                    |
| AFE18-60A             | All-fuel Kit                                            |
| FSK01A <sup>1</sup>   | Freeze Protection Kit                                   |
| HPTD18-60             | Digital room thermostat with 1-stage cool/1-stage heat  |
| HPT18-60              | Standard room thermostat with 1-stage cool/1-stage heat |
| OT/EHR18-60           | Outdoor Lock-out Thermostat/Emergency Heat Relay Kit    |
| OT18-60A <sup>2</sup> | Outdoor Thermostat                                      |

\* Contains 20 brackets; four brackets needed to anchor unit to pad

<sup>1</sup> Installed on indoor coil

<sup>2</sup> Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity.

**NOTES**

