# GC Infinity® Series
# Geothermal Heat Pump
# Sizes 024, 036, 048, 060, 072

Carrier
turn to the experts

# Product Data

## FEATURES & BENEFITS

### Energy Efficiency
- 3.8 - 4.7 COP, 18.5 - 32.0 EER (Closed Loop)
- 4.5 - 5.2 COP, 23.1 - 37.0 EER (Open Loop)
- Optional supplemental domestic water heating
- All sizes meet Energy Star requirements

### Comfort
- Two-stage scroll compressor
- Variable speed ECM blower motor

### Control
- Microprocessor control
- Uses Infinity Control (with V13.0 or newer software)

### Sound
- Fully insulated cabinet with closed cell foam
- Compressor blanket

### Reliability, Quality and Durability
- Puron® refrigerant
- Tin plated copper tubing in air coil

### Flexibility and Installation
- Unit available in vertical up-flow, down-flow and horizontal
- Unit can be field converted from left to right or vice-versa

### Indoor Air Quality
- MERV 13, 2” filter

## MODEL NUMBER NOMENCLATURE

| Position>>> | 1-2 | 3-5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GC | 036 | V | T | L | C | D | E | T | 1 | X | X | 1 |

**Model**
GC

**Size**
024, 036, 048, 060, 072

**Cabinet Configuration**
V = Vertical
H = Horizontal
C = Counterflow

**Discharge Air Configuration**
T = Top (vertical)
B = Bottom (vertical)
E = End (horizontal)
S = Side (horizontal)

**Return Air Configuration**
L = Left
R = Right

**Coax Options**
C = Copper (source)
N = Cupronickel (source)

**Hot Water Option**
D = with Desuperheater
X = without Desuperheater

**Fan/Motor Options**
E = ECM

**Air Coil Coating**
T = Tin plated hair pins

**Voltage**
1 = 208-230/60/1

**Future Use**

**Future Use**

**Revision Level**
1 = Original vintage

Puron™
the environmentally sound refrigerant

AHRI CERTIFIED™ www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

Certified System™
ISO 9001
QMI-SAI Global

c UL us

ENERGY STAR

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**

## AHRI RATINGS

| FULL LOAD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | Cooling 86°F | | Heating 68°F | | Cooling 59°F | | Heating 50°F | | Cooling 77°F | | Heating 32°F | |
| | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP |
| **GC024** | 25500 | 17.4 | 29200 | 5.6 | 29000 | 26.5 | 23500 | 4.9 | 26600 | 19.9 | 18000 | 4.1 |
| **GC036** | 39000 | 19.0 | 42800 | 5.6 | 43300 | 28.0 | 35900 | 5.1 | 40800 | 22.0 | 28400 | 4.3 |
| **GC048** | 49200 | 16.6 | 56100 | 5.3 | 55300 | 25.3 | 46300 | 4.7 | 51300 | 19.3 | 36900 | 4.0 |
| **GC060** | 63800 | 17.0 | 73300 | 5.2 | 70200 | 24.4 | 60300 | 4.6 | 65100 | 18.9 | 48000 | 3.9 |
| **GC072** | 71600 | 16.3 | 84000 | 5.1 | 78700 | 23.1 | 70000 | 4.5 | 73700 | 18.5 | 55300 | 3.8 |

| PART LOAD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | Cooling 86°F | | Heating 68°F | | Cooling 59°F | | Heating 50°F | | Cooling 68°F | | Heating 41°F | |
| | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP |
| **GC024** | 18500 | 18.9 | 21200 | 6.5 | 21700 | 33.6 | 16700 | 5.1 | 21000 | 28.1 | 14400 | 4.4 |
| **GC036** | 29000 | 22.2 | 31000 | 6.5 | 32600 | 37.0 | 25200 | 5.2 | 31900 | 32.0 | 22400 | 4.7 |
| **GC048** | 36700 | 18.9 | 40900 | 6.2 | 42000 | 33.8 | 33700 | 5.2 | 39900 | 27.8 | 29800 | 4.5 |
| **GC060** | 47500 | 18.7 | 53600 | 5.8 | 53300 | 31.2 | 44300 | 4.8 | 51600 | 26.5 | 39800 | 4.4 |
| **GC072** | 55200 | 17.8 | 64900 | 5.7 | 60800 | 28.5 | 52900 | 4.8 | 60300 | 25.4 | 46900 | 4.3 |

**NOTE**: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up–to–date ratings information.

## PHYSICAL DATA

| **Description** | **024** | **036** | **048** | **060** | **072** |
|---|---|---|---|---|---|
| Compressor Type (Qty 1) | Scroll | Scroll | Scroll | Scroll | Scroll |
| Refrigeration Charge VT and CF (oz) | 58 | 98 | 88 | 110 | 114 |
| Refrigeration Charge HZ only (oz) | 64 | 85 | 77 | 100 | 114 |
| Refrigerant Metering Device | Bi–directional thermal expansion valve (TXV) | | | | |
| Max Water Working Pressure (PSIG/kPa) | 450/3100 | 450/3100 | 450/3100 | 450/3100 | 450/3100 |
| **ECM Const Air Flow – Eon Fan Motor & Blower** | | | | | |
| Fan Motor Type/Speeds | ECM Const Air Flow | | | | |
| Fan Motor (HP) | 0.33 | 0.75 | 0.75 | 1.00 | 1.00 |
| Blower Wheel Size (Dia. x W) | 10 X 8 | 11 X 9 | 11 X 9 | 11 X 11 | 11 X 11 |
| **Water Connection Size** | | | | | |
| Loop Connection Size | 1” Swivel | | | | |
| FPT (Hot Water) | 3/4” | 1.0” | 1.0” | 1.0” | 1.0” |
| Coaxial Coil Volume (gal) | 0.33 | 1.18 | 0.62 | 1.07 | 1.12 |
| **Vertical Cabinet** | | | | | |
| Air Coil Dimensions (H x W) | 24 X 20 | 32 X 26 | 32 X 26 | 38 X 26 | 38 x 26 |
| Nominal size of Standard Filter – 2” MERV13 (L x H) | 24 X 24 (1) | 16 X 30 (2) | 16 X 30 (2) | 20 X 30 (2) | 20 X 30 (2) |
| Weight – Operating (lbs) | 250 | 360 | 340 | 410 | 440 |
| Weight – Shipping (lbs) | 350 | 475 | 450 | 530 | 560 |
| **Horizontal Cabinet** | | | | | |
| Air Coil Dimensions (H x W) | 18 X 31.5 | 20 X 42 | 20 X 42 | 20 X 49 | 20 X 49 |
| Nominal size of Standard Filter – 2” MERV13 (L x H) | 18 X 18 (2) | 20 X 24 (2) | 20 X 24 (2) | 18 X 20 (3) | 18 X 20 (3) |
| Weight – Operating (lbs) | 260 | 375 | 355 | 430 | 460 |

# BLOWER PERFORMANCE DATA - VARIABLE SPEED CONSTANT CFM

| GC Model – Stage | Airflow Settings | CFM from Communicating Wall Control | |
|---|---|---|---|
| | | Heating Mode | Cooling Mode |
| 024 – Low | MAX | 744 | 744 |
| | EFF 1 | 605 | 605 |
| | EFF 2 | 651 | 651 |
| | COM | 498 | 497 |
| | QUIET | N.A. | 426 |
| 024 – High | MAX | 944 | 944 |
| | EFF 1 | 767 | 767 |
| | EFF 2 | 826 | 826 |
| | COM | 729 | 728 |
| | QUIET | N.A. | 624 |
| 036 – Low | MAX | 912 | 912 |
| | EFF 1 | 741 | 741 |
| | EFF 2 | 798 | 798 |
| | COM | 747 | 746 |
| | QUIET | N.A. | 639 |
| 036 – High | MAX | 1260 | 1260 |
| | EFF 1 | 1024 | 1024 |
| | EFF 2 | 1103 | 1103 |
| | COM | 946 | 945 |
| | QUIET | N.A. | 810 |
| 048 – Low | MAX | 1600 | 1600 |
| | EFF 1 | 1300 | 1300 |
| | EFF 2 | 1400 | 1400 |
| | COM | 1108 | 1106 |
| | QUIET | N.A. | 948 |
| 048 – High | MAX | 1824 | 1824 |
| | EFF 1 | 1482 | 1482 |
| | EFF 2 | 1596 | 1596 |
| | COM | 1402 | 1400 |
| | QUIET | N.A. | 1200 |
| 060 – Low | MAX | 2000 | 2000 |
| | EFF 1 | 1625 | 1625 |
| | EFF 2 | 1750 | 1750 |
| | COM | 1402 | 1400 |
| | QUIET | N.A. | 1200 |
| 060 – High | MAX | 2280 | 2280 |
| | EFF 1 | 1853 | 1853 |
| | EFF 2 | 1995 | 1995 |
| | COM | 1805 | 1803 |
| | QUIET | N.A. | 1545 |
| 072 – Low | MAX | 2064 | 2064 |
| | EFF 1 | 1677 | 1677 |
| | EFF 2 | 1806 | 1806 |
| | COM | 1598 | 1596 |
| | QUIET | N.A. | 1368 |
| 072 – High | MAX | 2688 | 2688 |
| | EFF 1 | 2184 | 2184 |
| | EFF 2 | 2352 | 2352 |
| | COM | 2103 | 2100 |
| | QUIET | N.A. | 1800 |

| | CFM | | ESP |
|---|---|---|---|
| Model | Max | Min | Range |
| GC024 | 950 | 400 | 0.1 – 0.8” |
| GC036 | 1300 | 625 | 0.1 – 1.0” |
| GC048 | 1800 | 925 | 0.1 – 1.0” |
| GC060 | 2200 | 1200 | 0.1 – 1.0” |
| GC072 | 2500 | 1350 | 0.1 – 1.0” |

**NOTES**:
– CFM based on standard air conditions at 0.5” w.c. external static pressure with 2” MERV 13 filter.
– Comfort cooling (COM) CFM will vary from data above while in Dehum mode.

## UNIT ELECTRICAL DATA

| Model | Voltage Code | Rated Voltage | Voltage Min/Max | Compressor | | | Total Unit ECM Const Air Flow motor | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | QTY | RLA | LRA | FLA | Min Circuit Amps | Max Fuse/ HACR |
| **GC024** | 1 | 208 – 230/60/1 | 197/253 | 1 | 11.7 | 58.3 | 2.8 | 17.4 | 25 |
| **GC036** | 1 | 208 – 230/60/1 | 197/253 | 1 | 15.3 | 83.0 | 6.8 | 25.9 | 40 |
| **GC048** | 1 | 208 – 230/60/1 | 197/253 | 1 | 21.2 | 104.0 | 6.8 | 33.2 | 50 |
| **GC060** | 1 | 208 – 230/60/1 | 197/253 | 1 | 27.1 | 152.9 | 9.1 | 43.0 | 70 |
| **GC072** | 1 | 208 – 230/60/1 | 197/253 | 1 | 29.7 | 179.2 | 9.1 | 46.2 | 70 |

## ELECTRIC HEATER ELECTRICAL DATA

| Heater Model | Nom. KW @ 208V / 240V | Circuit 1* | | Circuit 2* | |
|---|---|---|---|---|---|
| | | MCA | MOP | MCA | MOP |
| KWCEH0101B05 | 3.6 / 4.8 | 25.0 / 21.6 | 25 / 25 | N/A | N/A |
| KWCEH0101B10 | 7.2 / 9.6 | 50.0 / 37.5 | 50 / 40 | N/A | N/A |
| KWCEH0101B15 | 10.8 / 14.4 | 50.0 / 37.5 | 50 / 40 | 25.0 / 21.6 | 25 / 25 |
| KWCEH0101B20 | 14.4 / 19.2 | 50.0 / 37.5 | 50 / 40 | 50.0 / 37.5 | 50 / 40 |
| Note: Calculations are for Heater Only. For heat pump electrical information, refer to the Unit Electrical Data in this document. | | | | | |

## ACCESSORIES

### Factory Installed Options

- Cupro-nickel Coil - Recommended in conditions anticipating moderate scale formation or in brackish water.
- Domestic Hot Water Heat Recovery Package: - Used to heat domestic hot water using the wasted heat from the hot compressed gas of the compressor.

### Field Installed Accessories

- Thermostats - Compatible with Infinity Control (using V13.0 software or newer).
- Internal Electric Heat - Choices include 5, 10, 15, or 20 kilowatt back up or an emergency heater depending on the size of the geothermal heat pump.

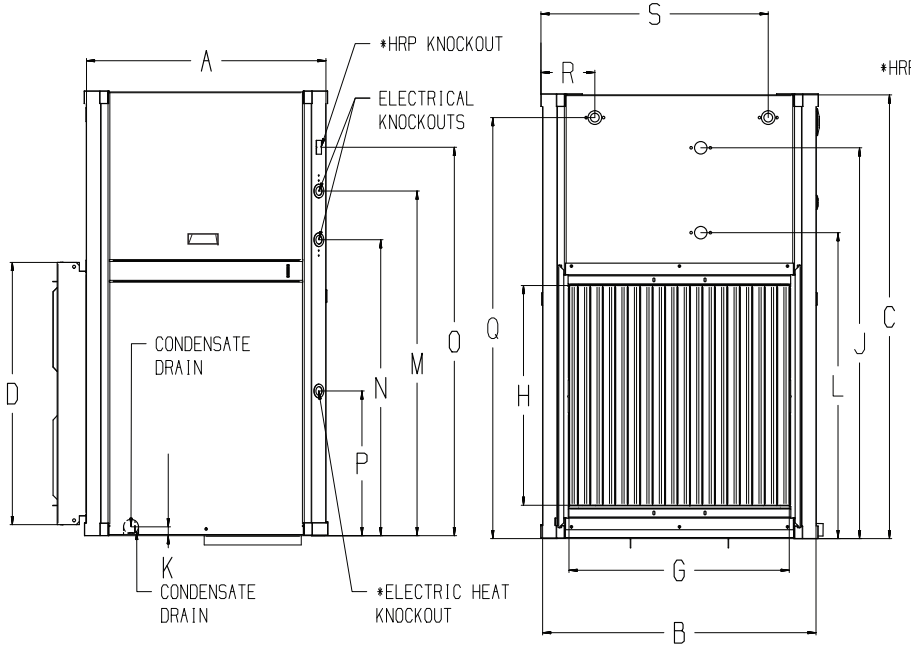
## AUXILIARY HEATER MATCH-UP

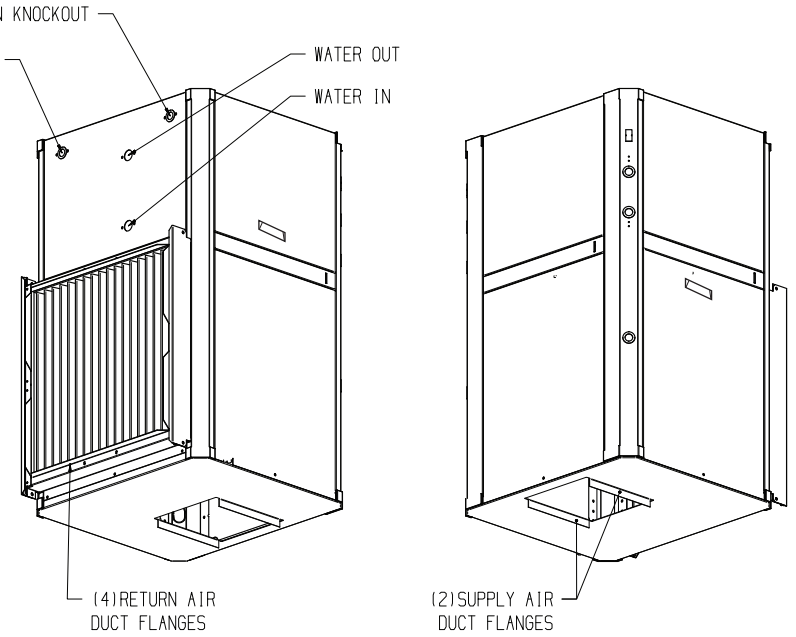
| Heater Model | kW | | Stages | Btu/h | | Product Series Compatibility | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 208V | 240V | | 208V | 240V | GC024 | GC036 | GCT048 | GC060 | GC072 |
| **KWCEH0101B05** | 3.6 | 4.8 | 1 | 12300 | 16400 | X | X | X | X | X |
| **KWCEH0101B10** | 7.2 | 9.6 | 1 | 24600 | 32800 | X | X | X | X | X |
| **KWCEH0101B15** | 10.8 | 14.4 | 2 | 36900 | 49000 | | X | X | X | X |
| **KWCEH0101B20** | 14.4 | 19.2 | 3 | 49200 | 65500 | | | X | X | X |
| **X = Compatible** | | | | | | | | | | |

**NOTE**: Auxiliary heat must be mounted externally on vertical units with side or back discharge and on horizontal units with side discharge.

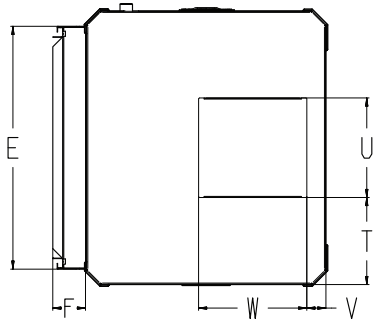
# DIMENSIONS - VERTICAL BOTTOM DISCHARGE (COUNTER FLOW)

| MODEL | A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | WATER CONNECTIONS | FILTER SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WIDTH | DEPTH | HEIGHT | FILTER RACK | | | RETURN AIR DUCT | | WATER OUT | DRAIN PORT | WATER IN | ELECTRICAL KNOCKOUT | | HRP KNOCKOUT | HEATER KNOCKOUT | HRP CONNECTIONS** | | | SUPPLY AIR DUCT OPENING | | | | | |
| | | | | HEIGHT | WIDTH | DEPTH | WIDTH | HEIGHT | | | | | | | | | | | | | | | | |
| GC024-CF | 24.0 | 27.4 | 44.4 | 25.0 | 24.7 | 3.3 | 22.2 | 22.5 | 39.4 | 1.0 | 30.9 | 34.5 | 29.6 | 38.9 | 5.5 | 42.2 | 5.4 | 18.4 | 8.7 | 10.0 | 1.9 | 10.8 | 1" F.P.T. | 24x24x2(1) |
| GC036-CF | 25.8 | 33.4 | 52.4 | 33.0 | 30.8 | 3.3 | 28.2 | 30.5 | 44.8 | 1.0 | 38.8 | 42.5 | 37.6 | 46.9 | 5.5 | 50.1 | 5.1 | 26.5 | 10.8 | 11.7 | 1.9 | 13.0 | 1" F.P.T. | 16x30x2(2) |
| GC048-CF | 25.8 | 33.4 | 52.4 | 33.0 | 30.8 | 3.3 | 28.2 | 30.5 | 44.8 | 1.0 | 38.8 | 42.5 | 37.6 | 46.9 | 5.5 | 50.1 | 5.1 | 26.5 | 10.8 | 11.7 | 1.9 | 13.0 | 1" F.P.T. | 16x30x2(2) |
| GC060-CF | 27.0 | 33.4 | 61.8 | 41.0 | 30.8 | 3.3 | 28.3 | 38.6 | 51.4 | 0.8 | 45.3 | 51.9 | 47.0 | 56.3 | 14.5 | 59.6 | 5.5 | 28.2 | 9.6 | 14.2 | 1.9 | 13.0 | 1" F.P.T. | 20x30x2(2) |
| GC072-CF | 27.0 | 33.4 | 61.8 | 41.0 | 30.8 | 3.3 | 28.3 | 38.6 | 51.4 | 0.8 | 45.3 | 51.9 | 47.0 | 56.3 | 14.5 | 59.6 | 5.5 | 28.2 | 9.6 | 14.2 | 1.9 | 13.0 | 1" F.P.T. | 20x30x2(2) |



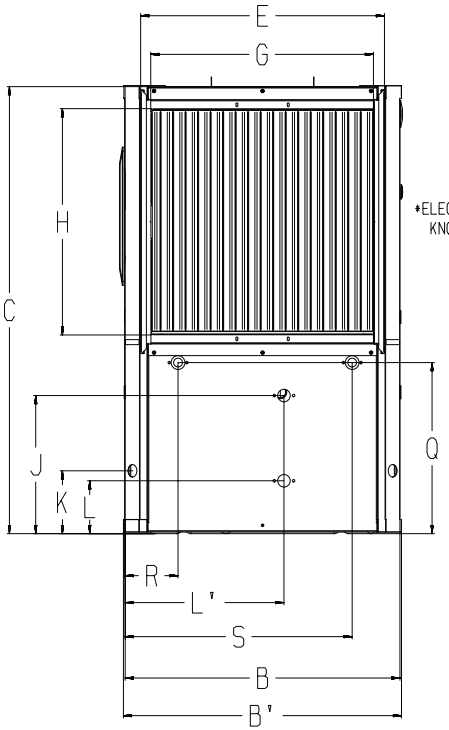

LEFT HAND RETURN

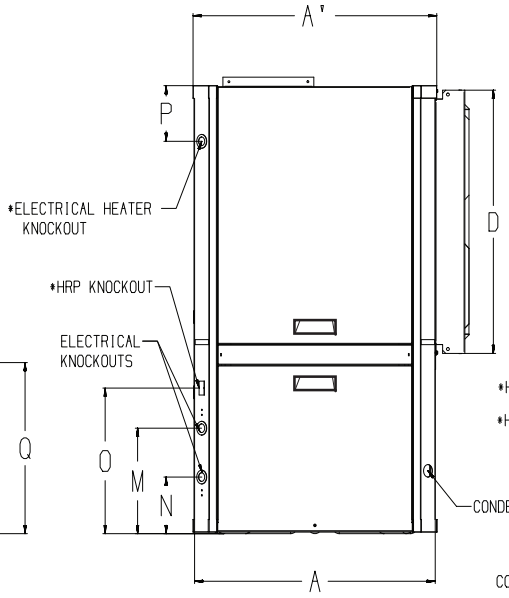


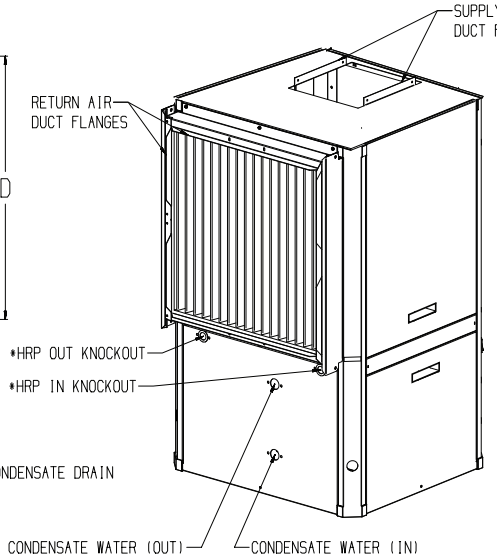

NOTES
*HRP AND ELECTRIC HEAT ARE OPTIONAL FEATURES
**HRP WATER CONNECTIONS - 1/2" F.P.T.
-ALL DIMENSIONS WITHIN +/- 0.125"
-RETURN AIR & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
-ALL DIMENSIONS ARE IN INCHES
-SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

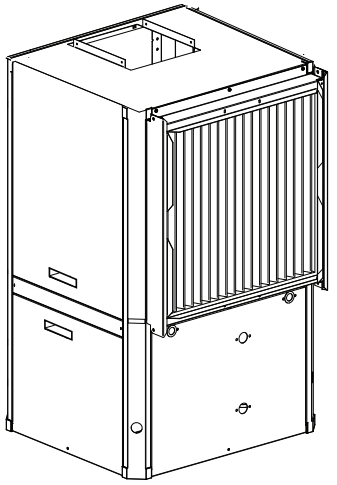
# DIMENSIONS - TOP DISCHARGE

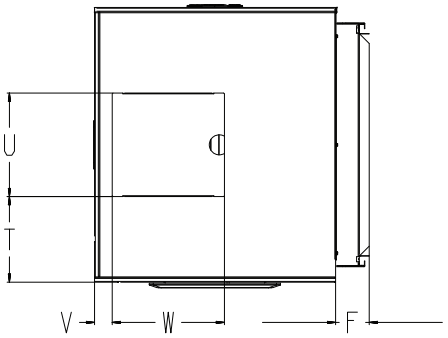
| Model | A (A') | B (B') | C (C') | D | E | F | G | H | J | K | L | L' | M | N | O | P | Q | R | S | T | U | V | W | WATER CONNECTIONS | FILTER SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WIDTH | DEPTH | HEIGHT | FILTER RACK | | | RETURN AIR DUCT | | WATER OUT | DRAIN PORT | WATER IN | WATER IN/OUT | ELECTRICAL KNOCKOUT | | HRP KNOCKOUT | HEATER KNOCK OUT | HRP CONNECTIONS** | | | SUPPLY AIR DUCT OPENING | | | | | |
| | | | | HEIGHT | WIDTH | DEPTH | WIDTH | HEIGHT | | | | | | | | | | | | | | | | | |
| GC024 - VT | 24.0 (24.3) | 27.4 (27.7) | 44.6 (44.7) | 25.0 | 24.7 | 3.3 | 22.2 | 22.5 | 13.8 | 6.3 | 5.3 | 15.8 | 10.5 | 5.6 | 14.5 | 5.6 | 16.5 | 4.9 | 18.2 | 8.7 | 10.0 | 1.9 | 10.8 | 1" F.P.T | 24x24x2(1) |
| GC036 - VT | 25.8 (26.1) | 33.4 (33.7) | 52.6 (52.7) | 33.0 | 30.8 | 3.3 | 28.2 | 30.5 | 11.3 | 6.3 | 5.3 | 19.3 | 10.5 | 5.6 | 14.5 | 5.6 | 16.9 | 5.6 | 28.5 | 10.8 | 11.7 | 1.9 | 13.0 | 1" F.P.T | 16x30x2(2) |
| GC048 - VT | 25.8 (26.1) | 33.4 (33.7) | 52.6 (52.7) | 33.0 | 30.8 | 3.3 | 28.2 | 30.5 | 11.3 | 6.3 | 5.3 | 19.3 | 10.5 | 5.6 | 14.5 | 5.6 | 16.9 | 5.6 | 28.5 | 10.8 | 11.7 | 1.9 | 13.0 | 1" F.P.T | 16x30x2(2) |
| GC060 - VT | 27.0 (27.3) | 33.4 (33.7) | 62.0 (62.1) | 41.0 | 30.8 | 3.3 | 28.3 | 38.6 | 12.0 | 6.3 | 5.9 | 17.0 | 10.5 | 5.6 | 14.5 | 5.6 | 18.3 | 4.7 | 27.8 | 9.6 | 14.2 | 1.9 | 13.0 | 1" F.P.T | 20x30x2(2) |
| GC072 - VT | 27.0 (27.3) | 33.4 (33.7) | 62.0 (62.1) | 41.0 | 30.8 | 3.3 | 28.3 | 38.6 | 12.0 | 6.3 | 5.9 | 17.0 | 10.5 | 5.6 | 14.5 | 5.6 | 18.3 | 4.7 | 27.8 | 9.6 | 14.2 | 1.9 | 13.0 | 1" F.P.T | 20x30x2(2) |



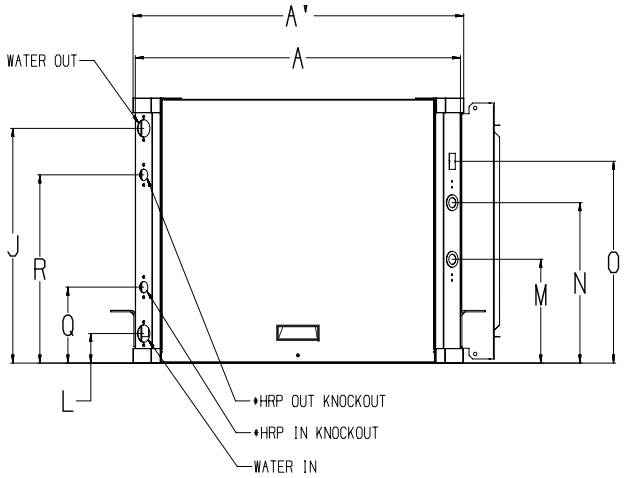


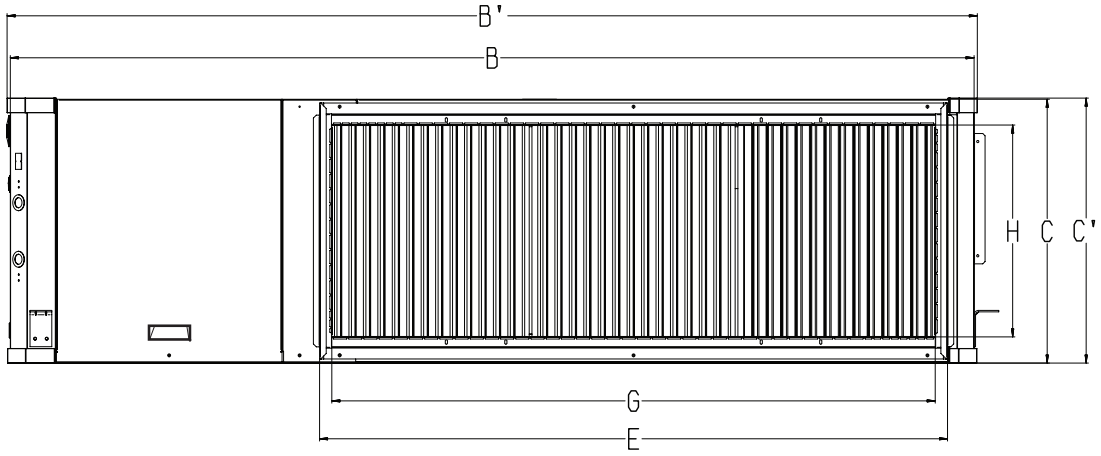

LEFT HAND RETURN

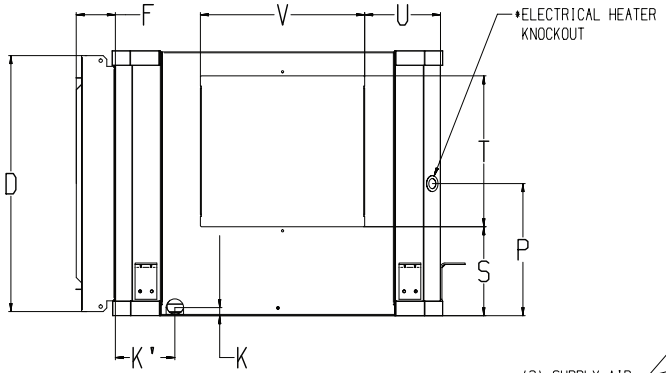
NOTES:
* HRP & ELECTRICAL HEAT ARE OPTIONAL FEATURES
**HRP WATER CONNECTIONS -1/2" F.P.T
- ALL DIMENSIONS WITHIN +/-0.125"
- RETURN & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
- ALL DIMENSIONS ARE IN INCHES
- SPECIFICATIONS SUBJECTED TO CHANGE WITHOUT NOTICE
- (A'), (B'), (C') : MEASUREMENTS WITH PLASTIC CAPS ATTACHED

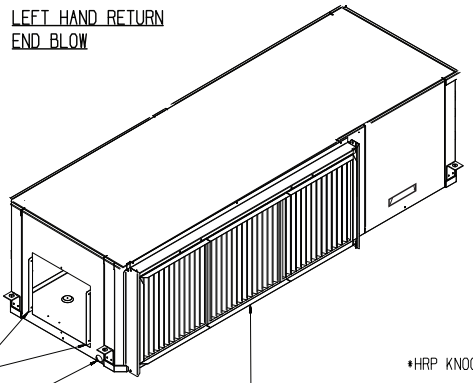
# DIMENSIONS - HORIZONTAL END DISCHARGE

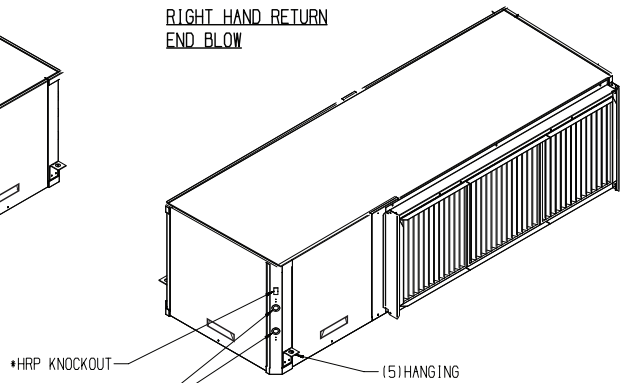
| Model | A (A') | B (B') | C (C') | D | E | F | G | H | J | K | K' | L | M | N | O | P | Q | R | S(RH) | S'(LH) | T | U(RH) | U'(LH) | V | WATER CONNECTIONS | FILTER SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WIDTH | DEPTH | HEIGHT | FILTER RACK | | | RETURN AIR DUCT | | WATER OUT | DRAIN PORT | | WATER IN | ELECTRICAL KNCOCKOUT | | HRP KNOCKOUT | HEATER KNOCKOUT | HRP CONNECTIONS** | | SUPPLY AIR DUCT OPENING | | | | | | | |
| | | | | HEIGHT | WIDTH | DEPTH | WIDTH | HEIGHT | | | | | | | | | | | | | | | | | | |
| GC024-HZ | 25.1 (25.5) | 64.1 (64.5) | 19.7 (19.82) | 18.7 | 36.4 | 3.4 | 34.0 | 16.2 | 17.2 | 1.3 | 5.1 | 2.5 | 7.4 | 12.3 | 15.9 | 9.9 | 6.5 | 13.2 | 6.5 | 2.0 | 10.0 | 7.5 | 7.5 | 10.8 | 1" F.P.T. | 18X18X2 (2) |
| GC036-HZ | 28.0 (28.4) | 76.0 (76.4) | 22.7 (22.82) | 20.7 | 48.4 | 3.4 | 46.0 | 18.2 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 7.5 | 2.0 | 11.7 | 9.0 | 7.7 | 13.0 | 1" F.P.T. | 20X24X2 (2) |
| GC048-HZ | 28.0 (28.4) | 76.0 (76.4) | 22.7 (22.82) | 20.7 | 48.4 | 3.4 | 46.0 | 18.2 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 7.5 | 2.0 | 11.7 | 9.0 | 7.7 | 13.0 | 1" F.P.T. | 20X24X2 (2) |
| GC060-HZ | 28.0 (28.4) | 83.0 (83.4) | 22.7 (22.82) | 20.7 | 54.4 | 3.4 | 52.0 | 18.3 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 7.5 | 2.0 | 14.2 | 6.5 | 6.5 | 13.0 | 1" F.P.T. | 18X20X2 (3) |
| GC072-HZ | 28.0 (28.4) | 83.0 (83.4) | 22.7 (22.82) | 20.7 | 54.4 | 3.4 | 52.0 | 18.3 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 7.5 | 2.0 | 14.2 | 6.5 | 6.5 | 13.0 | 1" F.P.T. | 18X20X2 (3) |



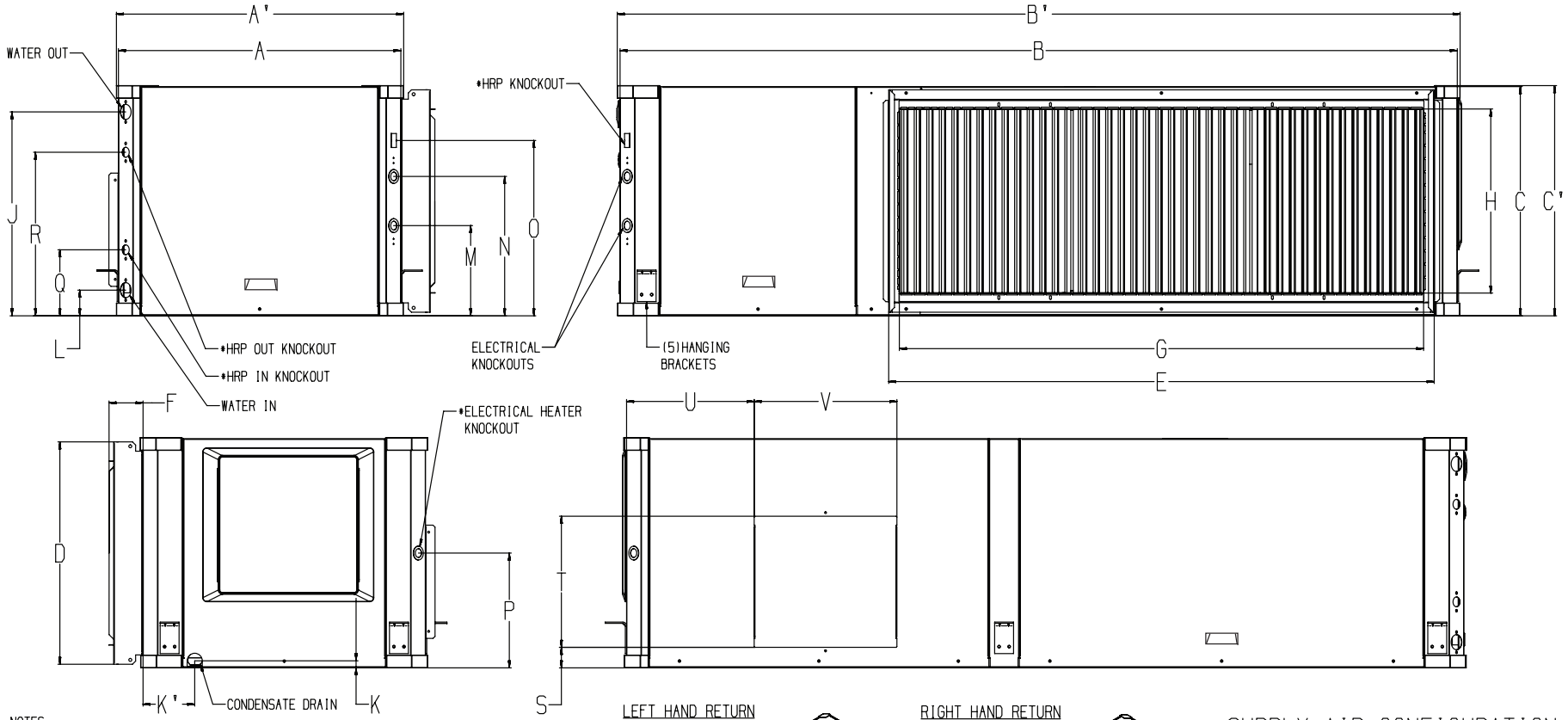




NOTES
- *HRP AND ELECTRIC HEAT ARE OPTIONAL FEATURES
- **HRP WATER CONNECTIONS - 1/2" F.P.T.
- -ALL DIMENSIONS WITHIN +/- 0.125"
- -RETURN AIR & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
- -ALL DIMENSIONS ARE IN INCHES
- -SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
- -(A'),(B'),(C') = MEASUREMENT WITH PLASTIC CAPS ATTACHED
- -ADD 0.5" TO THE HEIGHT ON SM036 TO SM070 FOR BASE SUPPORT RAILS (NOT SHOWN)
- -UNITS CAN BE FIELD CONVERTED BETWEEN END BLOW AND STRAIGH THROUGH SUPPLY AIR CONFIGURATIONS

SUPPLY AIR CONFIGURATION: END BLOW

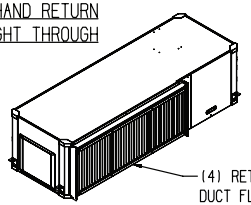
# DIMENSIONS - HORIZONTAL SIDE DISCHARGE

| Model | A (A') | B (B') | C (C') | D | E | F | G | H | J | K | K' | L | M | N | O | P | Q | R | S(RH) | S'(LH) | T | U(RH) | U'(LH) | V | WATER CONNECTIONS | FILTER SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WIDTH | DEPTH | HEIGHT | FILTER RACK | | | RETURN AIR DUCT | | WATER OUT | DRAIN PORT | | WATER IN | ELECTRICAL KNCOCKOUT | | HRP KNOCKOUT | HEATER KNOCKOUT | HRP CONNECTIONS** | | SUPPLY AIR DUCT OPENING | | | | | | | |
| | | | | HEIGHT | WIDTH | DEPTH | WIDTH | HEIGHT | | | | | | | | | | | | | | | | | | |
| GC024-HZ | 25.1 (25.5) | 64.1 (64.5) | 19.7 (19.82) | 18.7 | 36.4 | 3.4 | 34.0 | 16.2 | 17.2 | 1.3 | 5.1 | 2.5 | 7.4 | 12.3 | 15.9 | 9.9 | 6.5 | 13.2 | 2.0 | 6.5 | 10.0 | 11.8 | 11.8 | 10.8 | 1" F.P.T. | 18X18X2 (2) |
| GC036-HZ | 28.0 (28.4) | 76.0 (76.4) | 22.7 (22.82) | 20.7 | 48.4 | 3.4 | 46.0 | 18.2 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 2.0 | 7.5 | 11.7 | 12.9 | 12.9 | 13.0 | 1" F.P.T. | 20X24X2 (2) |
| GC048-HZ | 28.0 (28.4) | 76.0 (76.4) | 22.7 (22.82) | 20.7 | 48.4 | 3.4 | 46.0 | 18.2 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 2.0 | 7.5 | 11.7 | 12.9 | 12.9 | 13.0 | 1" F.P.T. | 20X24X2 (2) |
| GC060-HZ | 28.0 (28.4) | 83.0 (83.4) | 22.7 (22.82) | 20.7 | 54.4 | 3.4 | 52.0 | 18.3 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 2.0 | 7.5 | 14.2 | 15.1 | 15.1 | 13.0 | 1" F.P.T. | 18X20X2 (3) |
| GC072-HZ | 28.0 (28.4) | 83.0 (83.4) | 22.7 (22.82) | 20.7 | 54.4 | 3.4 | 52.0 | 18.3 | 20.2 | 1.3 | 5.1 | 2.5 | 8.9 | 13.8 | 17.4 | 11.4 | 6.5 | 16.2 | 2.0 | 7.5 | 14.2 | 15.1 | 15.1 | 13.0 | 1" F.P.T. | 18X20X2 (3) |

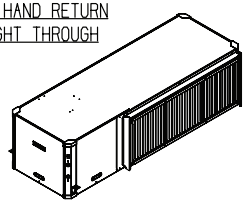



NOTES
*HRP AND ELECTRIC HEAT ARE OPTIONAL FEATURES
**HRP WATER CONNECTIONS - 1/2" F.P.T.
-ALL DIMENSIONS WITHIN +/- 0.125"
-RETURN AIR & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
-ALL DIMENSIONS ARE IN INCHES
-SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
-(A'),(B'),(C') = MEASUREMENT WITH PLASTIC CAPS ATTACHED
-ADD 0.5" TO THE HEIGHT ON SM036 TO SM070 FOR BASE SUPPORT RAILS (NOT SHOWN)
-UNITS CAN BE FIELD CONVERTED BETWEEN END BLOW AND STRAIGH THROUGH SUPPLY AIR CONFIGURATIONS

LEFT HAND RETURN STRAIGHT THROUGH




RIGHT HAND RETURN STRAIGHT THROUGH



SUPPLY AIR CONFIGURATION: STRAIGHT THROUGH

## GC024 HEATING PERFORMANCE - PART LOAD

| GC024 Heating performance – PART LOAD @ 650CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air ° F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 3 | 1.9 | 0.8 | 60 | 12.8 | 9.7 | 1.01 | 3.7 |
| | | | | 70 | 12.4 | 8.9 | 1.13 | 3.2 |
| | | | | 80 | 12.1 | 8.1 | 1.26 | 2.8 |
| | 4 | 3.2 | 1.4 | 60 | 13.2 | 10.0 | 1.01 | 3.8 |
| | | | | 70 | 12.7 | 9.2 | 1.13 | 3.3 |
| | | | | 80 | 12.3 | 8.4 | 1.26 | 2.9 |
| | 6 | 6.6 | 2.9 | 60 | 13.6 | 10.4 | 1.02 | 3.9 |
| | | | | 70 | 13.1 | 9.5 | 1.14 | 3.4 |
| | | | | 80 | 12.7 | 8.7 | 1.27 | 2.9 |
| 40 | 3 | 1.8 | 0.8 | 60 | 14.8 | 11.6 | 1.03 | 4.2 |
| | | | | 70 | 14.4 | 10.8 | 1.15 | 3.7 |
| | | | | 80 | 14.0 | 9.9 | 1.28 | 3.2 |
| | 4 | 3.1 | 1.3 | 60 | 15.3 | 12.0 | 1.03 | 4.4 |
| | | | | 70 | 14.9 | 11.1 | 1.15 | 3.8 |
| | | | | 80 | 14.3 | 10.3 | 1.28 | 3.3 |
| | 6 | 6.4 | 2.8 | 60 | 15.7 | 12.5 | 1.03 | 4.5 |
| | | | | 70 | 15.3 | 11.5 | 1.15 | 3.9 |
| | | | | 80 | 14.7 | 10.7 | 1.29 | 3.4 |
| 50 | 3 | 1.8 | 0.8 | 60 | 16.9 | 13.7 | 1.04 | 4.8 |
| | | | | 70 | 16.4 | 12.7 | 1.16 | 4.2 |
| | | | | 80 | 16.0 | 11.9 | 1.29 | 3.6 |
| | 4 | 3 | 1.3 | 60 | 17.5 | 14.2 | 1.04 | 5.0 |
| | | | | 70 | 16.9 | 13.2 | 1.16 | 4.3 |
| | | | | 80 | 16.5 | 12.3 | 1.30 | 3.7 |
| | 6 | 6.1 | 2.6 | 60 | 18.0 | 14.7 | 1.04 | 5.1 |
| | | | | 70 | 17.4 | 13.7 | 1.16 | 4.4 |
| | | | | 80 | 17.0 | 12.8 | 1.30 | 3.8 |
| 60 | 3 | 1.7 | 0.7 | 60 | 19.1 | 15.8 | 1.04 | 5.4 |
| | | | | 70 | 18.5 | 14.8 | 1.17 | 4.7 |
| | | | | 80 | 18.1 | 13.9 | 1.31 | 4.1 |
| | 4 | 2.9 | 1.3 | 60 | 19.7 | 16.4 | 1.04 | 5.6 |
| | | | | 70 | 19.1 | 15.4 | 1.17 | 4.8 |
| | | | | 80 | 18.6 | 14.4 | 1.31 | 4.2 |
| | 6 | 5.9 | 2.6 | 60 | 20.4 | 17.1 | 1.04 | 5.8 |
| | | | | 70 | 19.7 | 16.0 | 1.17 | 5.0 |
| | | | | 80 | 19.1 | 14.9 | 1.31 | 4.3 |
| 70 | 3 | 1.6 | 0.7 | 60 | 21.3 | 18.0 | 1.04 | 6.0 |
| | | | | 70 | 20.7 | 17.0 | 1.17 | 5.2 |
| | | | | 80 | 20.1 | 15.9 | 1.32 | 4.5 |
| | 4 | 2.8 | 1.2 | 60 | 22.0 | 18.7 | 1.04 | 6.2 |
| | | | | 70 | 21.3 | 17.6 | 1.17 | 5.3 |
| | | | | 80 | 20.7 | 16.5 | 1.32 | 4.6 |
| | 6 | 5.7 | 2.5 | 60 | 22.8 | 19.5 | 1.04 | 6.4 |
| | | | | 70 | 22.0 | 18.3 | 1.17 | 5.5 |
| | | | | 80 | 21.4 | 17.1 | 1.32 | 4.7 |
| 80 | 3 | 1.6 | 0.7 | 60 | 23.5 | 20.3 | 1.04 | 6.7 |
| | | | | 70 | 22.9 | 19.2 | 1.17 | 5.8 |
| | | | | 80 | 22.3 | 18.0 | 1.32 | 4.9 |
| | 4 | 2.7 | 1.2 | 60 | 24.4 | 21.1 | 1.03 | 6.9 |
| | | | | 70 | 23.6 | 19.9 | 1.17 | 5.9 |
| | | | | 80 | 22.9 | 18.7 | 1.32 | 5.1 |
| | 6 | 5.5 | 2.4 | 60 | 25.2 | 22.1 | 1.03 | 7.2 |
| | | | | 70 | 24.4 | 20.8 | 1.16 | 6.2 |
| | | | | 80 | 23.7 | 19.5 | 1.32 | 5.3 |

## GC024 HEATING PERFORMANCE - FULL LOAD

| GC024 Heating performance – Full Load @ 825CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 3 | 1.9 | 0.8 | 60 | 18.1 | 13.6 | 1.38 | 3.8 |
| | | | | 70 | 17.7 | 12.7 | 1.52 | 3.4 |
| | | | | 80 | 17.4 | 11.8 | 1.67 | 3.0 |
| | 4 | 3.2 | 1.4 | 60 | 18.7 | 14.1 | 1.39 | 3.9 |
| | | | | 70 | 18.2 | 13.2 | 1.53 | 3.5 |
| | | | | 80 | 17.9 | 12.2 | 1.68 | 3.1 |
| | 6 | 6.6 | 2.9 | 60 | 19.4 | 14.7 | 1.41 | 4.0 |
| | | | | 70 | 18.8 | 13.8 | 1.54 | 3.6 |
| | | | | 80 | 18.4 | 12.7 | 1.69 | 3.2 |
| 40 | 3 | 1.8 | 0.8 | 60 | 20.5 | 15.8 | 1.43 | 4.2 |
| | | | | 70 | 20.0 | 14.8 | 1.57 | 3.7 |
| | | | | 80 | 19.6 | 13.9 | 1.72 | 3.3 |
| | 4 | 3.1 | 1.3 | 60 | 21.2 | 16.5 | 1.44 | 4.3 |
| | | | | 70 | 20.7 | 15.5 | 1.58 | 3.8 |
| | | | | 80 | 20.2 | 14.5 | 1.74 | 3.4 |
| | 6 | 6.4 | 2.8 | 60 | 22.1 | 17.3 | 1.46 | 4.4 |
| | | | | 70 | 21.5 | 16.2 | 1.60 | 3.9 |
| | | | | 80 | 20.9 | 15.2 | 1.75 | 3.5 |
| 50 | 3 | 1.8 | 0.8 | 60 | 23.1 | 18.2 | 1.48 | 4.6 |
| | | | | 70 | 22.6 | 17.2 | 1.62 | 4.1 |
| | | | | 80 | 22.2 | 16.2 | 1.78 | 3.6 |
| | 4 | 3 | 1.3 | 60 | 24.0 | 19.1 | 1.50 | 4.7 |
| | | | | 70 | 23.4 | 18.0 | 1.64 | 4.2 |
| | | | | 80 | 23.0 | 16.8 | 1.80 | 3.7 |
| | 6 | 6.1 | 2.6 | 60 | 25.1 | 20.0 | 1.52 | 4.8 |
| | | | | 70 | 24.4 | 18.9 | 1.66 | 4.3 |
| | | | | 80 | 23.8 | 17.7 | 1.82 | 3.8 |
| 60 | 3 | 1.7 | 0.7 | 60 | 25.9 | 20.8 | 1.54 | 4.9 |
| | | | | 70 | 25.3 | 19.8 | 1.68 | 4.4 |
| | | | | 80 | 24.9 | 18.6 | 1.84 | 4.0 |
| | 4 | 2.9 | 1.3 | 60 | 27.0 | 21.9 | 1.56 | 5.1 |
| | | | | 70 | 26.3 | 20.8 | 1.70 | 4.5 |
| | | | | 80 | 25.8 | 19.5 | 1.85 | 4.1 |
| | 6 | 5.9 | 2.6 | 60 | 28.2 | 23.1 | 1.58 | 5.2 |
| | | | | 70 | 27.5 | 21.8 | 1.72 | 4.7 |
| | | | | 80 | 26.8 | 20.5 | 1.87 | 4.2 |
| 70 | 3 | 1.6 | 0.7 | 60 | 28.9 | 23.6 | 1.59 | 5.3 |
| | | | | 70 | 28.2 | 22.5 | 1.73 | 4.8 |
| | | | | 80 | 27.6 | 21.3 | 1.89 | 4.3 |
| | 4 | 2.8 | 1.2 | 60 | 30.1 | 24.8 | 1.61 | 5.5 |
| | | | | 70 | 29.4 | 23.7 | 1.75 | 4.9 |
| | | | | 80 | 28.7 | 22.3 | 1.91 | 4.4 |
| | 6 | 5.7 | 2.5 | 60 | 31.6 | 26.2 | 1.63 | 5.7 |
| | | | | 70 | 30.7 | 24.9 | 1.78 | 5.1 |
| | | | | 80 | 29.9 | 23.4 | 1.93 | 4.5 |
| 80 | 3 | 1.6 | 0.7 | 60 | 31.9 | 26.5 | 1.64 | 5.7 |
| | | | | 70 | 31.1 | 25.3 | 1.78 | 5.1 |
| | | | | 80 | 30.5 | 24.0 | 1.94 | 4.6 |
| | 4 | 2.7 | 1.2 | 60 | 33.4 | 27.9 | 1.66 | 5.9 |
| | | | | 70 | 32.5 | 26.6 | 1.81 | 5.3 |
| | | | | 80 | 31.7 | 25.1 | 1.97 | 4.7 |
| | 6 | 5.5 | 2.4 | 60 | 35.0 | 29.5 | 1.69 | 6.1 |
| | | | | 70 | 34.0 | 28.0 | 1.83 | 5.4 |
| | | | | 80 | 33.1 | 26.4 | 2.00 | 4.9 |

# GC024 COOLING PERFORMANCE - PART LOAD

| GC024 Cooling performance – PART LOAD @ 650 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 3 | 1.7 | 0.7 | 75/63 | 20.0 | 15.8 | 22.5 | 0.77 | 25.8 |
| | | | | 80/67 | 21.3 | 16.3 | 23.8 | 0.76 | 27.8 |
| | | | | 85/71 | 22.7 | 16.7 | 25.1 | 0.76 | 30.0 |
| | 4 | 2.9 | 1.3 | 75/63 | 20.4 | 16.0 | 22.8 | 0.74 | 27.4 |
| | | | | 80/67 | 21.8 | 16.5 | 24.1 | 0.73 | 29.7 |
| | | | | 85/71 | 23.1 | 16.9 | 25.5 | 0.72 | 31.9 |
| | 6 | 5.9 | 2.6 | 75/63 | 20.8 | 16.1 | 23.1 | 0.71 | 29.1 |
| | | | | 80/67 | 22.2 | 16.7 | 24.5 | 0.70 | 31.5 |
| | | | | 85/71 | 23.7 | 17.1 | 26.0 | 0.69 | 34.2 |
| 60 | 3 | 1.6 | 0.7 | 75/63 | 19.0 | 15.4 | 21.7 | 0.86 | 22.1 |
| | | | | 80/67 | 20.3 | 15.9 | 22.9 | 0.85 | 23.9 |
| | | | | 85/71 | 21.5 | 16.3 | 24.2 | 0.84 | 25.5 |
| | 4 | 2.8 | 1.2 | 75/63 | 19.4 | 15.6 | 22.0 | 0.82 | 23.5 |
| | | | | 80/67 | 20.7 | 16.1 | 23.3 | 0.81 | 25.4 |
| | | | | 85/71 | 22.0 | 16.5 | 24.6 | 0.80 | 27.3 |
| | 6 | 5.7 | 2.5 | 75/63 | 19.8 | 15.7 | 22.3 | 0.79 | 24.9 |
| | | | | 80/67 | 21.1 | 16.2 | 23.6 | 0.78 | 27.0 |
| | | | | 85/71 | 22.5 | 16.7 | 25.0 | 0.77 | 29.3 |
| 70 | 3 | 1.6 | 0.7 | 75/63 | 18.0 | 15.0 | 21.0 | 0.96 | 18.7 |
| | | | | 80/67 | 19.2 | 15.5 | 22.2 | 0.95 | 20.1 |
| | | | | 85/71 | 20.4 | 16.0 | 23.4 | 0.94 | 21.6 |
| | 4 | 2.7 | 1.2 | 75/63 | 18.3 | 15.1 | 21.2 | 0.92 | 19.8 |
| | | | | 80/67 | 19.6 | 15.6 | 22.4 | 0.91 | 21.4 |
| | | | | 85/71 | 20.8 | 16.1 | 23.7 | 0.90 | 23.0 |
| | 6 | 5.5 | 2.4 | 75/63 | 18.7 | 15.3 | 21.5 | 0.89 | 21.0 |
| | | | | 80/67 | 20.0 | 15.8 | 22.8 | 0.87 | 22.8 |
| | | | | 85/71 | 21.3 | 16.3 | 24.0 | 0.86 | 24.7 |
| 80 | 3 | 1.5 | 0.7 | 75/63 | 17.0 | 14.5 | 20.2 | 1.08 | 15.8 |
| | | | | 80/67 | 18.1 | 15.1 | 21.4 | 1.07 | 16.9 |
| | | | | 85/71 | 19.2 | 15.6 | 22.5 | 1.06 | 18.1 |
| | 4 | 2.6 | 1.1 | 75/63 | 17.3 | 14.7 | 20.5 | 1.04 | 16.6 |
| | | | | 80/67 | 18.4 | 15.2 | 21.6 | 1.03 | 17.9 |
| | | | | 85/71 | 19.6 | 15.7 | 22.8 | 1.02 | 19.2 |
| | 6 | 5.4 | 2.3 | 75/63 | 17.6 | 14.8 | 20.7 | 1.00 | 17.6 |
| | | | | 80/67 | 18.9 | 15.3 | 21.9 | 0.99 | 19.1 |
| | | | | 85/71 | 20.1 | 15.9 | 23.1 | 0.97 | 20.6 |
| 85 | 3 | 1.5 | 0.7 | 75/63 | 16.4 | 14.3 | 19.9 | 1.14 | 14.3 |
| | | | | 80/67 | 17.5 | 14.8 | 21.0 | 1.14 | 15.4 |
| | | | | 85/71 | 18.7 | 15.3 | 22.2 | 1.13 | 16.5 |
| | 4 | 2.5 | 1.1 | 75/63 | 16.7 | 14.4 | 20.1 | 1.10 | 15.1 |
| | | | | 80/67 | 17.9 | 15.0 | 21.2 | 1.09 | 16.3 |
| | | | | 85/71 | 19.1 | 15.5 | 22.4 | 1.08 | 17.6 |
| | 6 | 5.3 | 2.3 | 75/63 | 17.1 | 14.6 | 20.3 | 1.06 | 16.1 |
| | | | | 80/67 | 18.2 | 15.1 | 21.5 | 1.05 | 17.3 |
| | | | | 85/71 | 19.5 | 15.7 | 22.7 | 1.04 | 18.8 |
| 90 | 3 | 1.5 | 0.7 | 75/63 | 15.9 | 14.1 | 19.5 | 1.21 | 13.1 |
| | | | | 80/67 | 17.0 | 14.6 | 20.6 | 1.21 | 14.1 |
| | | | | 85/71 | 18.0 | 15.2 | 21.7 | 1.20 | 15.0 |
| | 4 | 2.5 | 1.1 | 75/63 | 16.2 | 14.2 | 19.7 | 1.17 | 13.8 |
| | | | | 80/67 | 17.3 | 14.7 | 20.9 | 1.16 | 14.9 |
| | | | | 85/71 | 18.5 | 15.2 | 22.0 | 1.15 | 16.0 |
| | 6 | 5.2 | 2.3 | 75/63 | 16.5 | 14.3 | 19.9 | 1.13 | 14.6 |
| | | | | 80/67 | 17.7 | 14.9 | 21.1 | 1.12 | 15.8 |
| | | | | 85/71 | 18.9 | 15.4 | 22.3 | 1.11 | 17.1 |
| 100 | 3 | 1.4 | 0.6 | 75/63 | 14.8 | 13.6 | 18.9 | 1.36 | 10.8 |
| | | | | 80/67 | 15.8 | 14.2 | 19.9 | 1.36 | 11.6 |
| | | | | 85/71 | 16.8 | 14.8 | 21.0 | 1.35 | 12.4 |
| | 4 | 2.4 | 1.0 | 75/63 | 15.1 | 13.7 | 19.0 | 1.32 | 11.4 |
| | | | | 80/67 | 16.1 | 14.3 | 20.1 | 1.31 | 12.2 |
| | | | | 85/71 | 17.2 | 14.9 | 21.2 | 1.31 | 13.1 |
| | 6 | 5 | 2.2 | 75/63 | 15.3 | 13.9 | 19.2 | 1.28 | 11.9 |
| | | | | 80/67 | 16.5 | 14.4 | 20.3 | 1.27 | 13.0 |
| | | | | 85/71 | 17.6 | 15.0 | 21.5 | 1.26 | 14.0 |
| 110 | 3 | 1.4 | 0.6 | 75/63 | 13.7 | 13.2 | 18.3 | 1.53 | 8.9 |
| | | | | 80/67 | 14.6 | 13.8 | 19.2 | 1.53 | 9.5 |
| | | | | 85/71 | 15.6 | 14.3 | 20.3 | 1.53 | 10.2 |
| | 4 | 2.4 | 1.0 | 75/63 | 13.9 | 13.3 | 18.4 | 1.49 | 9.3 |
| | | | | 80/67 | 14.9 | 13.9 | 19.4 | 1.48 | 10.0 |
| | | | | 85/71 | 15.9 | 14.5 | 20.4 | 1.48 | 10.7 |
| | 6 | 4.9 | 2.1 | 75/63 | 14.2 | 13.4 | 18.5 | 1.45 | 9.8 |
| | | | | 80/67 | 15.2 | 14.0 | 19.6 | 1.44 | 10.5 |
| | | | | 85/71 | 16.3 | 14.5 | 20.7 | 1.43 | 11.4 |

# GC024 COOLING PERFORMANCE - FULL LOAD

| GC024 Cooling performance – Full Load @ 825CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 3 | 1.7 | 0.7 | 75/63 | 27.1 | 20.7 | 31.3 | 1.27 | 21.4 |
| | | | | 80/67 | 28.8 | 21.2 | 33.1 | 1.29 | 22.4 |
| | | | | 85/71 | 30.5 | 21.8 | 34.9 | 1.30 | 23.4 |
| | 4 | 2.9 | 1.3 | 75/63 | 27.8 | 21.0 | 31.8 | 1.21 | 23.1 |
| | | | | 80/67 | 29.5 | 21.6 | 33.6 | 1.22 | 24.2 |
| | | | | 85/71 | 31.4 | 22.1 | 35.6 | 1.24 | 25.4 |
| | 6 | 5.9 | 2.6 | 75/63 | 28.5 | 21.3 | 32.3 | 1.14 | 25.1 |
| | | | | 80/67 | 30.3 | 21.9 | 34.2 | 1.15 | 26.3 |
| | | | | 85/71 | 32.3 | 22.4 | 36.2 | 1.16 | 27.8 |
| 60 | 3 | 1.6 | 0.7 | 75/63 | 25.9 | 20.1 | 30.4 | 1.38 | 18.8 |
| | | | | 80/67 | 27.5 | 20.8 | 32.0 | 1.40 | 19.7 |
| | | | | 85/71 | 29.2 | 21.3 | 33.9 | 1.42 | 20.7 |
| | 4 | 2.8 | 1.2 | 75/63 | 26.5 | 20.4 | 30.9 | 1.32 | 20.1 |
| | | | | 80/67 | 28.2 | 21.0 | 32.6 | 1.34 | 21.1 |
| | | | | 85/71 | 30.0 | 21.6 | 34.5 | 1.35 | 22.2 |
| | 6 | 5.7 | 2.5 | 75/63 | 27.2 | 20.7 | 31.3 | 1.26 | 21.6 |
| | | | | 80/67 | 29.0 | 21.3 | 33.2 | 1.27 | 22.8 |
| | | | | 85/71 | 30.9 | 21.9 | 35.1 | 1.28 | 24.1 |
| 70 | 3 | 1.6 | 0.7 | 75/63 | 24.6 | 19.6 | 29.4 | 1.50 | 16.5 |
| | | | | 80/67 | 26.2 | 20.2 | 31.1 | 1.52 | 17.3 |
| | | | | 85/71 | 27.8 | 20.8 | 32.7 | 1.53 | 18.2 |
| | 4 | 2.7 | 1.2 | 75/63 | 25.2 | 19.9 | 29.9 | 1.44 | 17.6 |
| | | | | 80/67 | 26.8 | 20.5 | 31.6 | 1.46 | 18.4 |
| | | | | 85/71 | 28.6 | 21.0 | 33.4 | 1.47 | 19.5 |
| | 6 | 5.5 | 2.4 | 75/63 | 25.9 | 20.1 | 30.4 | 1.38 | 18.8 |
| | | | | 80/67 | 27.5 | 20.8 | 32.1 | 1.39 | 19.8 |
| | | | | 85/71 | 29.3 | 21.4 | 33.9 | 1.40 | 20.9 |
| 80 | 3 | 1.5 | 0.7 | 75/63 | 23.3 | 19.1 | 28.5 | 1.63 | 14.4 |
| | | | | 80/67 | 24.8 | 19.7 | 30.1 | 1.65 | 15.1 |
| | | | | 85/71 | 26.3 | 20.2 | 31.7 | 1.66 | 15.9 |
| | 4 | 2.6 | 1.1 | 75/63 | 23.9 | 19.3 | 28.9 | 1.57 | 15.3 |
| | | | | 80/67 | 25.4 | 19.9 | 30.5 | 1.58 | 16.1 |
| | | | | 85/71 | 27.1 | 20.5 | 32.3 | 1.60 | 17.0 |
| | 6 | 5.4 | 2.3 | 75/63 | 24.5 | 19.5 | 29.4 | 1.51 | 16.3 |
| | | | | 80/67 | 26.1 | 20.2 | 31.0 | 1.52 | 17.2 |
| | | | | 85/71 | 27.8 | 20.8 | 32.8 | 1.53 | 18.2 |
| 85 | 3 | 1.5 | 0.7 | 75/63 | 22.7 | 18.8 | 28.1 | 1.70 | 13.4 |
| | | | | 80/67 | 24.1 | 19.4 | 29.6 | 1.72 | 14.1 |
| | | | | 85/71 | 25.6 | 20.1 | 31.1 | 1.73 | 14.8 |
| | 4 | 2.5 | 1.1 | 75/63 | 23.2 | 19.1 | 28.4 | 1.64 | 14.2 |
| | | | | 80/67 | 24.7 | 19.6 | 30.0 | 1.65 | 15.0 |
| | | | | 85/71 | 26.3 | 20.2 | 31.7 | 1.67 | 15.8 |
| | 6 | 5.3 | 2.3 | 75/63 | 23.8 | 19.3 | 28.9 | 1.57 | 15.2 |
| | | | | 80/67 | 25.4 | 19.9 | 30.5 | 1.59 | 16.0 |
| | | | | 85/71 | 27.1 | 20.5 | 32.3 | 1.60 | 17.0 |
| 90 | 3 | 1.5 | 0.7 | 75/63 | 22.0 | 18.6 | 27.6 | 1.77 | 12.4 |
| | | | | 80/67 | 23.4 | 19.1 | 29.1 | 1.79 | 13.1 |
| | | | | 85/71 | 24.9 | 19.7 | 30.7 | 1.81 | 13.8 |
| | 4 | 2.5 | 1.1 | 75/63 | 22.6 | 18.7 | 28.0 | 1.71 | 13.2 |
| | | | | 80/67 | 24.0 | 19.4 | 29.5 | 1.73 | 13.9 |
| | | | | 85/71 | 25.5 | 20.0 | 31.1 | 1.74 | 14.7 |
| | 6 | 5.2 | 2.3 | 75/63 | 23.1 | 19.0 | 28.3 | 1.65 | 14.1 |
| | | | | 80/67 | 24.6 | 19.6 | 30.0 | 1.66 | 14.8 |
| | | | | 85/71 | 26.3 | 20.2 | 31.7 | 1.67 | 15.8 |
| 100 | 3 | 1.4 | 0.6 | 75/63 | 20.6 | 18.0 | 26.8 | 1.94 | 10.6 |
| | | | | 80/67 | 22.0 | 18.7 | 28.2 | 1.96 | 11.3 |
| | | | | 85/71 | 23.4 | 19.3 | 29.7 | 1.97 | 11.9 |
| | 4 | 2.4 | 1.0 | 75/63 | 21.1 | 18.2 | 27.1 | 1.88 | 11.3 |
| | | | | 80/67 | 22.5 | 18.9 | 28.6 | 1.89 | 11.9 |
| | | | | 85/71 | 24.0 | 19.5 | 30.1 | 1.90 | 12.7 |
| | 6 | 5 | 2.2 | 75/63 | 21.7 | 18.4 | 27.4 | 1.81 | 12.0 |
| | | | | 80/67 | 23.2 | 19.0 | 29.0 | 1.82 | 12.8 |
| | | | | 85/71 | 24.6 | 19.7 | 30.5 | 1.83 | 13.5 |
| 110 | 3 | 1.4 | 0.6 | 75/63 | 19.3 | 17.5 | 26.0 | 2.14 | 9.1 |
| | | | | 80/67 | 20.6 | 18.2 | 27.4 | 2.15 | 9.6 |
| | | | | 85/71 | 22.0 | 18.7 | 28.9 | 2.17 | 10.2 |
| | 4 | 2.4 | 1.0 | 75/63 | 19.8 | 17.7 | 26.3 | 2.07 | 9.6 |
| | | | | 80/67 | 21.1 | 18.3 | 27.7 | 2.08 | 10.2 |
| | | | | 85/71 | 22.5 | 19.0 | 29.2 | 2.09 | 10.8 |
| | 6 | 4.9 | 2.1 | 75/63 | 20.2 | 17.9 | 26.5 | 2.00 | 10.1 |
| | | | | 80/67 | 21.7 | 18.5 | 28.1 | 2.00 | 10.9 |
| | | | | 85/71 | 23.2 | 19.1 | 29.6 | 2.01 | 11.6 |

## GC036 HEATING PERFORMANCE - PART LOAD

| GC036 Heating performance – PART LOAD @ 800CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 4.5 | 3.5 | 1.5 | 60 | 18.4 | 13.6 | 1.46 | 3.7 |
| | | | | 70 | 18.0 | 12.6 | 1.65 | 3.2 |
| | | | | 80 | 17.7 | 11.5 | 1.86 | 2.8 |
| | 6 | 6 | 2.6 | 60 | 18.9 | 14.0 | 1.47 | 3.8 |
| | | | | 70 | 18.4 | 12.9 | 1.65 | 3.3 |
| | | | | 80 | 18.0 | 11.7 | 1.87 | 2.8 |
| | 9 | 12.4 | 5.4 | 60 | 19.3 | 14.5 | 1.47 | 3.8 |
| | | | | 70 | 18.9 | 13.4 | 1.65 | 3.3 |
| | | | | 80 | 18.3 | 12.4 | 1.87 | 2.9 |
| 40 | 4.5 | 3.4 | 1.5 | 60 | 21.3 | 16.4 | 1.48 | 4.2 |
| | | | | 70 | 20.8 | 15.3 | 1.67 | 3.7 |
| | | | | 80 | 20.4 | 14.1 | 1.88 | 3.2 |
| | 6 | 5.7 | 2.5 | 60 | 21.9 | 17.0 | 1.49 | 4.3 |
| | | | | 70 | 21.3 | 15.8 | 1.67 | 3.7 |
| | | | | 80 | 20.8 | 14.6 | 1.89 | 3.2 |
| | 9 | 11.9 | 5.2 | 60 | 22.5 | 17.6 | 1.49 | 4.4 |
| | | | | 70 | 21.9 | 16.3 | 1.68 | 3.8 |
| | | | | 80 | 21.4 | 15.1 | 1.89 | 3.3 |
| 50 | 4.5 | 3.3 | 1.4 | 60 | 24.4 | 19.5 | 1.50 | 4.8 |
| | | | | 70 | 23.8 | 18.2 | 1.69 | 4.1 |
| | | | | 80 | 23.4 | 17.0 | 1.91 | 3.6 |
| | 6 | 5.5 | 2.4 | 60 | 25.1 | 20.2 | 1.51 | 4.9 |
| | | | | 70 | 24.4 | 18.8 | 1.70 | 4.2 |
| | | | | 80 | 23.9 | 17.5 | 1.92 | 3.6 |
| | 9 | 11.5 | 5.0 | 60 | 25.9 | 20.9 | 1.51 | 5.0 |
| | | | | 70 | 25.1 | 19.5 | 1.70 | 4.3 |
| | | | | 80 | 24.6 | 18.1 | 1.92 | 3.7 |
| 60 | 4.5 | 3.2 | 1.4 | 60 | 27.6 | 22.6 | 1.52 | 5.3 |
| | | | | 70 | 26.9 | 21.2 | 1.72 | 4.6 |
| | | | | 80 | 26.4 | 19.8 | 1.94 | 4.0 |
| | 6 | 5.4 | 2.3 | 60 | 28.5 | 23.5 | 1.52 | 5.5 |
| | | | | 70 | 27.7 | 22.0 | 1.72 | 4.7 |
| | | | | 80 | 27.0 | 20.5 | 1.95 | 4.0 |
| | 9 | 11.1 | 4.8 | 60 | 29.4 | 24.4 | 1.53 | 5.6 |
| | | | | 70 | 28.5 | 22.8 | 1.73 | 4.8 |
| | | | | 80 | 27.8 | 21.3 | 1.96 | 4.2 |
| 70 | 4.5 | 3.1 | 1.3 | 60 | 30.9 | 25.9 | 1.54 | 5.9 |
| | | | | 70 | 30.0 | 24.3 | 1.74 | 5.0 |
| | | | | 80 | 29.6 | 22.6 | 1.98 | 4.4 |
| | 6 | 5.2 | 2.3 | 60 | 31.9 | 26.9 | 1.54 | 6.1 |
| | | | | 70 | 31.0 | 25.3 | 1.75 | 5.2 |
| | | | | 80 | 30.3 | 23.6 | 1.99 | 4.5 |
| | 9 | 10.7 | 4.6 | 60 | 33.0 | 28.0 | 1.55 | 6.3 |
| | | | | 70 | 32.0 | 26.3 | 1.76 | 5.3 |
| | | | | 80 | 31.2 | 24.4 | 2.00 | 4.6 |
| 80 | 4.5 | 3 | 1.3 | 60 | 34.2 | 29.0 | 1.55 | 6.5 |
| | | | | 70 | 33.2 | 27.6 | 1.77 | 5.5 |
| | | | | 80 | 32.8 | 25.8 | 2.02 | 4.8 |
| | 6 | 5 | 2.2 | 60 | 35.4 | 30.5 | 1.56 | 6.7 |
| | | | | 70 | 34.4 | 28.6 | 1.78 | 5.7 |
| | | | | 80 | 33.8 | 27.1 | 2.03 | 4.9 |
| | 9 | 10.4 | 4.5 | 60 | 36.7 | 31.8 | 1.56 | 6.9 |
| | | | | 70 | 35.6 | 29.9 | 1.79 | 5.8 |
| | | | | 80 | 34.7 | 27.7 | 2.04 | 5.0 |

## GC036 HEATING PERFORMANCE - FULL LOAD

| GC036 Heating performance – Full Load @ 1100CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Entering Water, °F** | **Water flow, GPM** | **Pressure Drop Ft. Water** | **Pressure Drop (Psi)** | **Ent. Air °F** | **Total Btu/hr.** | **Ht. Abs. Btu/hr.** | **Unit kW** | **COP** |
| **30** | 4.5 | 3.5 | 1.5 | 60 | 26.0 | 19.5 | 1.93 | 3.9 |
| | | | | 70 | 25.6 | 18.4 | 2.15 | 3.5 |
| | | | | 80 | 25.4 | 17.2 | 2.40 | 3.1 |
| | 6 | 6 | 2.6 | 60 | 26.8 | 20.3 | 1.95 | 4.0 |
| | | | | 70 | 26.4 | 19.1 | 2.17 | 3.6 |
| | | | | 80 | 26.1 | 17.9 | 2.42 | 3.2 |
| | 9 | 12.4 | 5.4 | 60 | 27.8 | 21.2 | 1.97 | 4.1 |
| | | | | 70 | 27.2 | 19.9 | 2.19 | 3.6 |
| | | | | 80 | 26.8 | 18.6 | 2.43 | 3.2 |
| **40** | 4.5 | 3.4 | 1.5 | 60 | 29.7 | 22.9 | 2.01 | 4.3 |
| | | | | 70 | 29.2 | 21.7 | 2.23 | 3.8 |
| | | | | 80 | 28.7 | 20.4 | 2.48 | 3.4 |
| | 6 | 5.7 | 2.5 | 60 | 30.7 | 23.9 | 2.03 | 4.4 |
| | | | | 70 | 30.1 | 22.5 | 2.25 | 3.9 |
| | | | | 80 | 29.6 | 21.2 | 2.50 | 3.5 |
| | 9 | 11.9 | 5.2 | 60 | 31.9 | 25.0 | 2.05 | 4.6 |
| | | | | 70 | 31.2 | 23.5 | 2.28 | 4.0 |
| | | | | 80 | 30.5 | 22.0 | 2.52 | 3.5 |
| **50** | 4.5 | 3.3 | 1.4 | 60 | 33.6 | 26.6 | 2.09 | 4.7 |
| | | | | 70 | 33.0 | 25.2 | 2.32 | 4.2 |
| | | | | 80 | 32.5 | 23.7 | 2.57 | 3.7 |
| | 6 | 5.5 | 2.4 | 60 | 34.9 | 27.8 | 2.12 | 4.8 |
| | | | | 70 | 34.2 | 26.3 | 2.34 | 4.3 |
| | | | | 80 | 33.6 | 24.7 | 2.59 | 3.8 |
| | 9 | 11.5 | 5.0 | 60 | 36.3 | 29.1 | 2.15 | 4.9 |
| | | | | 70 | 35.5 | 27.5 | 2.37 | 4.4 |
| | | | | 80 | 34.8 | 25.9 | 2.62 | 3.9 |
| **60** | 4.5 | 3.2 | 1.4 | 60 | 37.8 | 30.5 | 2.18 | 5.1 |
| | | | | 70 | 37.0 | 28.9 | 2.40 | 4.5 |
| | | | | 80 | 36.4 | 27.4 | 2.65 | 4.0 |
| | 6 | 5.4 | 2.3 | 60 | 39.4 | 31.9 | 2.21 | 5.2 |
| | | | | 70 | 38.4 | 30.2 | 2.43 | 4.6 |
| | | | | 80 | 37.7 | 28.5 | 2.68 | 4.1 |
| | 9 | 11.1 | 4.8 | 60 | 41.1 | 33.5 | 2.25 | 5.4 |
| | | | | 70 | 40.0 | 31.7 | 2.47 | 4.8 |
| | | | | 80 | 39.1 | 29.8 | 2.71 | 4.2 |
| **70** | 4.5 | 3.1 | 1.3 | 60 | 42.2 | 34.6 | 2.27 | 5.4 |
| | | | | 70 | 41.3 | 32.9 | 2.49 | 4.9 |
| | | | | 80 | 40.5 | 31.1 | 2.75 | 4.3 |
| | 6 | 5.2 | 2.3 | 60 | 44.0 | 36.3 | 2.31 | 5.6 |
| | | | | 70 | 42.9 | 34.4 | 2.53 | 5.0 |
| | | | | 80 | 41.9 | 32.5 | 2.78 | 4.4 |
| | 9 | 10.7 | 4.6 | 60 | 46.0 | 38.1 | 2.36 | 5.7 |
| | | | | 70 | 44.7 | 36.1 | 2.57 | 5.1 |
| | | | | 80 | 43.6 | 34.0 | 2.82 | 4.5 |
| **80** | 4.5 | 3 | 1.3 | 60 | 46.7 | 38.8 | 2.37 | 5.8 |
| | | | | 70 | 45.7 | 36.9 | 2.59 | 5.2 |
| | | | | 80 | 44.7 | 35.0 | 2.85 | 4.6 |
| | 6 | 5 | 2.2 | 60 | 48.8 | 40.7 | 2.42 | 5.9 |
| | | | | 70 | 47.5 | 38.7 | 2.64 | 5.3 |
| | | | | 80 | 46.4 | 36.6 | 2.89 | 4.7 |
| | 9 | 10.4 | 4.5 | 60 | 51.1 | 42.8 | 2.48 | 6.0 |
| | | | | 70 | 49.6 | 40.6 | 2.69 | 5.4 |
| | | | | 80 | 48.3 | 38.4 | 2.94 | 4.8 |

# GC036 COOLING PERFORMANCE - PART LOAD

| GC036 Cooling performance – PART LOAD @ 800 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 4.5 | 3.2 | 1.4 | 75/63 | 29.9 | 21.8 | 33.2 | 1.01 | 29.6 |
| | | | | 80/67 | 32.0 | 22.5 | 35.3 | 1.00 | 32.1 |
| | | | | 85/71 | 34.2 | 23.0 | 37.4 | 0.98 | 34.9 |
| | 6 | 5.4 | 2.3 | 75/63 | 30.4 | 22.0 | 33.6 | 0.99 | 30.9 |
| | | | | 80/67 | 32.5 | 22.7 | 35.7 | 0.97 | 33.6 |
| | | | | 85/71 | 34.8 | 23.2 | 37.9 | 0.95 | 36.7 |
| | 9 | 11.1 | 4.8 | 75/63 | 30.8 | 22.2 | 34.0 | 0.96 | 32.0 |
| | | | | 80/67 | 33.1 | 22.9 | 36.2 | 0.94 | 35.1 |
| | | | | 85/71 | 35.4 | 23.5 | 38.5 | 0.92 | 38.5 |
| 60 | 4.5 | 3.1 | 1.3 | 75/63 | 28.5 | 21.2 | 32.1 | 1.11 | 25.7 |
| | | | | 80/67 | 30.5 | 21.9 | 34.1 | 1.10 | 27.9 |
| | | | | 85/71 | 32.7 | 22.4 | 36.2 | 1.08 | 30.3 |
| | 6 | 5.2 | 2.3 | 75/63 | 29.0 | 21.4 | 32.5 | 1.07 | 27.0 |
| | | | | 80/67 | 31.0 | 22.1 | 34.5 | 1.06 | 29.3 |
| | | | | 85/71 | 33.3 | 22.6 | 36.7 | 1.04 | 32.0 |
| | 9 | 10.7 | 4.6 | 75/63 | 29.4 | 21.6 | 32.8 | 1.04 | 28.2 |
| | | | | 80/67 | 31.6 | 22.3 | 34.9 | 1.02 | 30.9 |
| | | | | 85/71 | 33.8 | 22.9 | 37.2 | 1.00 | 33.7 |
| 70 | 4.5 | 3 | 1.3 | 75/63 | 27.1 | 20.6 | 31.0 | 1.24 | 22.0 |
| | | | | 80/67 | 29.1 | 21.2 | 33.0 | 1.23 | 23.8 |
| | | | | 85/71 | 31.1 | 21.9 | 35.0 | 1.21 | 25.7 |
| | 6 | 5 | 2.2 | 75/63 | 27.5 | 20.8 | 31.3 | 1.19 | 23.0 |
| | | | | 80/67 | 29.6 | 21.4 | 33.4 | 1.18 | 25.1 |
| | | | | 85/71 | 31.6 | 22.1 | 35.4 | 1.16 | 27.2 |
| | 9 | 10.4 | 4.5 | 75/63 | 27.9 | 21.0 | 31.6 | 1.16 | 24.2 |
| | | | | 80/67 | 30.0 | 21.6 | 33.7 | 1.14 | 26.4 |
| | | | | 85/71 | 32.2 | 22.2 | 35.9 | 1.12 | 28.8 |
| 80 | 4.5 | 2.9 | 1.3 | 75/63 | 25.7 | 19.9 | 30.1 | 1.39 | 18.5 |
| | | | | 80/67 | 27.5 | 20.6 | 31.9 | 1.38 | 19.9 |
| | | | | 85/71 | 29.5 | 21.3 | 33.9 | 1.38 | 21.5 |
| | 6 | 4.8 | 2.1 | 75/63 | 26.1 | 20.1 | 30.3 | 1.35 | 19.4 |
| | | | | 80/67 | 28.0 | 20.8 | 32.2 | 1.33 | 21.0 |
| | | | | 85/71 | 30.0 | 21.4 | 34.3 | 1.32 | 22.7 |
| | 9 | 10.1 | 4.4 | 75/63 | 26.4 | 20.3 | 30.6 | 1.30 | 20.3 |
| | | | | 80/67 | 28.5 | 20.9 | 32.6 | 1.29 | 22.2 |
| | | | | 85/71 | 30.5 | 21.6 | 34.6 | 1.27 | 24.1 |
| 85 | 4.5 | 2.8 | 1.2 | 75/63 | 24.9 | 19.6 | 29.6 | 1.48 | 16.8 |
| | | | | 80/67 | 26.8 | 20.3 | 31.5 | 1.48 | 18.2 |
| | | | | 85/71 | 28.7 | 20.9 | 33.4 | 1.47 | 19.6 |
| | 6 | 4.8 | 2.1 | 75/63 | 25.3 | 19.8 | 29.8 | 1.43 | 17.7 |
| | | | | 80/67 | 27.2 | 20.5 | 31.7 | 1.42 | 19.1 |
| | | | | 85/71 | 29.1 | 21.2 | 33.7 | 1.41 | 20.7 |
| | 9 | 9.9 | 4.3 | 75/63 | 25.7 | 19.9 | 30.1 | 1.39 | 18.5 |
| | | | | 80/67 | 27.6 | 20.7 | 32.0 | 1.37 | 20.1 |
| | | | | 85/71 | 29.7 | 21.3 | 34.0 | 1.36 | 21.9 |
| 90 | 4.5 | 2.8 | 1.2 | 75/63 | 24.2 | 19.3 | 29.1 | 1.58 | 15.3 |
| | | | | 80/67 | 25.9 | 20.0 | 30.9 | 1.57 | 16.5 |
| | | | | 85/71 | 27.8 | 20.7 | 32.8 | 1.57 | 17.8 |
| | 6 | 4.7 | 2.0 | 75/63 | 24.5 | 19.5 | 29.3 | 1.53 | 16.0 |
| | | | | 80/67 | 26.4 | 20.1 | 31.2 | 1.52 | 17.4 |
| | | | | 85/71 | 28.3 | 20.8 | 33.2 | 1.51 | 18.8 |
| | 9 | 9.7 | 4.2 | 75/63 | 24.9 | 19.5 | 29.6 | 1.49 | 16.7 |
| | | | | 80/67 | 26.8 | 20.3 | 31.5 | 1.47 | 18.3 |
| | | | | 85/71 | 28.8 | 21.0 | 33.4 | 1.45 | 19.9 |
| 100 | 4.5 | 2.7 | 1.2 | 75/63 | 22.7 | 18.7 | 28.3 | 1.80 | 12.6 |
| | | | | 80/67 | 24.4 | 19.4 | 30.0 | 1.79 | 13.6 |
| | | | | 85/71 | 26.1 | 20.1 | 31.8 | 1.79 | 14.6 |
| | 6 | 4.6 | 2.0 | 75/63 | 23.0 | 18.9 | 28.5 | 1.75 | 13.2 |
| | | | | 80/67 | 24.8 | 19.6 | 30.2 | 1.74 | 14.3 |
| | | | | 85/71 | 26.6 | 20.2 | 32.1 | 1.73 | 15.4 |
| | 9 | 9.5 | 4.1 | 75/63 | 23.3 | 18.9 | 28.6 | 1.71 | 13.6 |
| | | | | 80/67 | 25.1 | 19.7 | 30.4 | 1.68 | 14.9 |
| | | | | 85/71 | 27.1 | 20.3 | 32.4 | 1.67 | 16.3 |
| 110 | 4.5 | 2.6 | 1.1 | 75/63 | 21.1 | 18.1 | 27.5 | 2.05 | 10.3 |
| | | | | 80/67 | 22.8 | 18.8 | 29.2 | 2.04 | 11.2 |
| | | | | 85/71 | 24.5 | 19.5 | 30.9 | 2.04 | 12.0 |
| | 6 | 4.4 | 1.9 | 75/63 | 21.4 | 18.2 | 27.7 | 1.99 | 10.7 |
| | | | | 80/67 | 23.1 | 18.9 | 29.4 | 1.98 | 11.7 |
| | | | | 85/71 | 24.9 | 19.6 | 31.1 | 1.97 | 12.6 |
| | 9 | 9.2 | 4.0 | 75/63 | 21.7 | 18.3 | 27.8 | 1.95 | 11.1 |
| | | | | 80/67 | 23.4 | 19.0 | 29.5 | 1.94 | 12.1 |
| | | | | 85/71 | 25.2 | 19.8 | 31.2 | 1.92 | 13.2 |

# GC036 COOLING PERFORMANCE - FULL LOAD

| GC036 Cooling performance – Full Load @ 1100 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 4.5 | 3.2 | 1.4 | 75/63 | 40.8 | 29.9 | 46.4 | 1.69 | 24.1 |
| | | | | 80/67 | 43.5 | 30.6 | 49.2 | 1.74 | 25.1 |
| | | | | 85/71 | 46.3 | 31.4 | 52.2 | 1.78 | 26.1 |
| | 6 | 5.4 | 2.3 | 75/63 | 41.6 | 30.2 | 47.0 | 1.64 | 25.4 |
| | | | | 80/67 | 44.4 | 31.0 | 49.9 | 1.69 | 26.4 |
| | | | | 85/71 | 47.3 | 31.7 | 53.0 | 1.73 | 27.4 |
| | 9 | 11.1 | 4.8 | 75/63 | 42.3 | 30.5 | 47.6 | 1.60 | 26.5 |
| | | | | 80/67 | 45.2 | 31.4 | 50.7 | 1.64 | 27.6 |
| | | | | 85/71 | 48.3 | 32.1 | 53.9 | 1.69 | 28.7 |
| 60 | 4.5 | 3.1 | 1.3 | 75/63 | 39.2 | 29.1 | 45.1 | 1.82 | 21.6 |
| | | | | 80/67 | 41.7 | 30.0 | 47.8 | 1.86 | 22.5 |
| | | | | 85/71 | 44.5 | 30.6 | 50.7 | 1.89 | 23.5 |
| | 6 | 5.2 | 2.3 | 75/63 | 39.9 | 29.4 | 45.7 | 1.76 | 22.7 |
| | | | | 80/67 | 42.6 | 30.3 | 48.5 | 1.80 | 23.7 |
| | | | | 85/71 | 45.4 | 31.0 | 51.4 | 1.83 | 24.8 |
| | 9 | 10.7 | 4.6 | 75/63 | 40.7 | 29.8 | 46.2 | 1.71 | 23.9 |
| | | | | 80/67 | 43.4 | 30.5 | 49.2 | 1.74 | 24.9 |
| | | | | 85/71 | 46.3 | 31.4 | 52.2 | 1.78 | 26.1 |
| 70 | 4.5 | 3 | 1.3 | 75/63 | 37.5 | 28.4 | 43.9 | 1.98 | 19.0 |
| | | | | 80/67 | 39.9 | 29.2 | 46.5 | 2.01 | 19.9 |
| | | | | 85/71 | 42.6 | 29.9 | 49.3 | 2.04 | 20.9 |
| | 6 | 5 | 2.2 | 75/63 | 38.1 | 28.7 | 44.3 | 1.91 | 20.0 |
| | | | | 80/67 | 40.8 | 29.5 | 47.1 | 1.94 | 21.1 |
| | | | | 85/71 | 43.4 | 30.3 | 49.9 | 1.97 | 22.1 |
| | 9 | 10.4 | 4.5 | 75/63 | 38.8 | 29.0 | 44.8 | 1.85 | 21.0 |
| | | | | 80/67 | 41.5 | 29.8 | 47.7 | 1.87 | 22.2 |
| | | | | 85/71 | 44.3 | 30.7 | 50.6 | 1.90 | 23.3 |
| 80 | 4.5 | 2.9 | 1.3 | 75/63 | 35.7 | 27.6 | 42.6 | 2.16 | 16.5 |
| | | | | 80/67 | 38.1 | 28.4 | 45.2 | 2.19 | 17.4 |
| | | | | 85/71 | 40.6 | 29.2 | 47.9 | 2.22 | 18.3 |
| | 6 | 4.8 | 2.1 | 75/63 | 36.4 | 27.8 | 43.2 | 2.09 | 17.4 |
| | | | | 80/67 | 38.9 | 28.7 | 45.7 | 2.11 | 18.4 |
| | | | | 85/71 | 41.4 | 29.6 | 48.4 | 2.14 | 19.4 |
| | 9 | 10.1 | 4.4 | 75/63 | 37.0 | 28.1 | 43.6 | 2.02 | 18.3 |
| | | | | 80/67 | 39.5 | 29.0 | 46.2 | 2.04 | 19.4 |
| | | | | 85/71 | 42.3 | 29.9 | 49.0 | 2.06 | 20.6 |
| 85 | 4.5 | 2.8 | 1.2 | 75/63 | 34.8 | 27.2 | 42.1 | 2.27 | 15.3 |
| | | | | 80/67 | 37.1 | 28.1 | 44.5 | 2.30 | 16.2 |
| | | | | 85/71 | 39.6 | 28.8 | 47.2 | 2.32 | 17.1 |
| | 6 | 4.8 | 2.1 | 75/63 | 35.4 | 27.5 | 42.5 | 2.19 | 16.2 |
| | | | | 80/67 | 37.9 | 28.3 | 45.1 | 2.22 | 17.1 |
| | | | | 85/71 | 40.5 | 29.1 | 47.8 | 2.24 | 18.1 |
| | 9 | 9.9 | 4.3 | 75/63 | 36.0 | 27.5 | 42.9 | 2.13 | 16.9 |
| | | | | 80/67 | 38.6 | 28.6 | 45.6 | 2.14 | 18.0 |
| | | | | 85/71 | 41.3 | 29.5 | 48.3 | 2.16 | 19.2 |
| 90 | 4.5 | 2.8 | 1.2 | 75/63 | 33.9 | 26.8 | 41.6 | 2.39 | 14.2 |
| | | | | 80/67 | 36.2 | 27.6 | 44.0 | 2.41 | 15.0 |
| | | | | 85/71 | 38.6 | 28.6 | 46.4 | 2.43 | 15.9 |
| | 6 | 4.7 | 2.0 | 75/63 | 34.6 | 27.1 | 42.0 | 2.30 | 15.0 |
| | | | | 80/67 | 36.9 | 27.9 | 44.5 | 2.33 | 15.9 |
| | | | | 85/71 | 39.5 | 28.8 | 47.1 | 2.34 | 16.9 |
| | 9 | 9.7 | 4.2 | 75/63 | 35.1 | 27.4 | 42.2 | 2.23 | 15.8 |
| | | | | 80/67 | 37.6 | 28.2 | 44.9 | 2.25 | 16.7 |
| | | | | 85/71 | 40.2 | 29.1 | 47.5 | 2.26 | 17.8 |
| 100 | 4.5 | 2.7 | 1.2 | 75/63 | 32.0 | 26.1 | 40.5 | 2.64 | 12.1 |
| | | | | 80/67 | 34.3 | 26.9 | 42.9 | 2.67 | 12.9 |
| | | | | 85/71 | 36.5 | 27.8 | 45.2 | 2.69 | 13.6 |
| | 6 | 4.6 | 2.0 | 75/63 | 32.7 | 26.3 | 40.9 | 2.56 | 12.8 |
| | | | | 80/67 | 35.0 | 27.1 | 43.2 | 2.58 | 13.6 |
| | | | | 85/71 | 37.4 | 28.0 | 45.7 | 2.59 | 14.5 |
| | 9 | 9.5 | 4.1 | 75/63 | 33.2 | 26.5 | 41.1 | 2.49 | 13.4 |
| | | | | 80/67 | 35.5 | 27.3 | 43.6 | 2.51 | 14.2 |
| | | | | 85/71 | 38.0 | 28.3 | 46.0 | 2.50 | 15.2 |
| 110 | 4.5 | 2.6 | 1.1 | 75/63 | 30.2 | 25.3 | 39.6 | 2.93 | 10.3 |
| | | | | 80/67 | 32.4 | 26.2 | 41.8 | 2.95 | 11.0 |
| | | | | 85/71 | 34.6 | 27.1 | 44.1 | 2.97 | 11.6 |
| | 6 | 4.4 | 1.9 | 75/63 | 30.7 | 25.5 | 39.8 | 2.85 | 10.8 |
| | | | | 80/67 | 32.9 | 26.5 | 42.1 | 2.86 | 11.5 |
| | | | | 85/71 | 35.2 | 27.4 | 44.5 | 2.87 | 12.3 |
| | 9 | 9.2 | 4.0 | 75/63 | 31.3 | 25.7 | 40.1 | 2.77 | 11.3 |
| | | | | 80/67 | 33.5 | 26.7 | 42.4 | 2.78 | 12.1 |
| | | | | 85/71 | 35.9 | 27.5 | 44.9 | 2.79 | 12.9 |

## GC048 HEATING PERFORMANCE - PART LOAD

| GC048 Heating performance – PART LOAD @ 1300CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 6 | 2.9 | 1.3 | 60 | 25.7 | 19.3 | 1.95 | 3.9 |
| | | | | 70 | 24.9 | 17.7 | 2.18 | 3.4 |
| | | | | 80 | 24.1 | 16.1 | 2.43 | 2.9 |
| | 8 | 4.9 | 2.1 | 60 | 26.4 | 20.0 | 1.95 | 4.0 |
| | | | | 70 | 25.5 | 18.3 | 2.18 | 3.4 |
| | | | | 80 | 24.7 | 16.6 | 2.44 | 3.0 |
| | 12 | 10.2 | 4.4 | 60 | 27.2 | 20.8 | 1.95 | 4.1 |
| | | | | 70 | 26.2 | 19.0 | 2.18 | 3.5 |
| | | | | 80 | 25.2 | 17.2 | 2.44 | 3.0 |
| 40 | 6 | 2.8 | 1.2 | 60 | 29.4 | 22.9 | 1.96 | 4.4 |
| | | | | 70 | 28.5 | 21.2 | 2.20 | 3.8 |
| | | | | 80 | 27.6 | 19.4 | 2.46 | 3.3 |
| | 8 | 4.7 | 2.0 | 60 | 30.3 | 23.8 | 1.96 | 4.5 |
| | | | | 70 | 29.3 | 22.0 | 2.20 | 3.9 |
| | | | | 80 | 28.3 | 20.1 | 2.47 | 3.4 |
| | 12 | 9.8 | 4.3 | 60 | 31.3 | 24.8 | 1.96 | 4.7 |
| | | | | 70 | 30.2 | 22.8 | 2.21 | 4.0 |
| | | | | 80 | 29.1 | 20.9 | 2.47 | 3.4 |
| 50 | 6 | 2.7 | 1.2 | 60 | 33.3 | 26.8 | 1.97 | 5.0 |
| | | | | 70 | 32.4 | 25.0 | 2.22 | 4.3 |
| | | | | 80 | 31.4 | 23.1 | 2.49 | 3.7 |
| | 8 | 4.6 | 2.0 | 60 | 34.4 | 27.9 | 1.97 | 5.1 |
| | | | | 70 | 33.3 | 25.9 | 2.22 | 4.4 |
| | | | | 80 | 32.4 | 24.0 | 2.50 | 3.8 |
| | 12 | 9.5 | 4.1 | 60 | 35.6 | 29.1 | 1.97 | 5.3 |
| | | | | 70 | 34.4 | 27.0 | 2.23 | 4.5 |
| | | | | 80 | 33.4 | 25.0 | 2.51 | 3.9 |
| 60 | 6 | 2.6 | 1.1 | 60 | 37.6 | 31.0 | 1.98 | 5.6 |
| | | | | 70 | 36.5 | 29.1 | 2.24 | 4.8 |
| | | | | 80 | 35.5 | 27.1 | 2.51 | 4.1 |
| | 8 | 4.4 | 1.9 | 60 | 38.9 | 32.3 | 1.98 | 5.7 |
| | | | | 70 | 37.7 | 30.2 | 2.24 | 4.9 |
| | | | | 80 | 36.6 | 28.2 | 2.52 | 4.3 |
| | 12 | 9.1 | 3.9 | 60 | 40.3 | 33.8 | 1.98 | 6.0 |
| | | | | 70 | 39.0 | 31.6 | 2.24 | 5.1 |
| | | | | 80 | 37.8 | 29.4 | 2.52 | 4.4 |
| 70 | 6 | 2.5 | 1.1 | 60 | 42.1 | 35.5 | 1.99 | 6.2 |
| | | | | 70 | 40.9 | 33.4 | 2.25 | 5.3 |
| | | | | 80 | 39.8 | 31.3 | 2.53 | 4.6 |
| | 8 | 4.3 | 1.9 | 60 | 43.6 | 37.1 | 1.99 | 6.4 |
| | | | | 70 | 42.3 | 34.8 | 2.25 | 5.5 |
| | | | | 80 | 41.1 | 32.6 | 2.54 | 4.7 |
| | 12 | 8.8 | 3.8 | 60 | 45.3 | 38.8 | 1.99 | 6.7 |
| | | | | 70 | 43.9 | 36.4 | 2.25 | 5.7 |
| | | | | 80 | 42.5 | 34.0 | 2.54 | 4.9 |
| 80 | 6 | 2.5 | 1.1 | 60 | 46.8 | 40.2 | 1.99 | 6.9 |
| | | | | 70 | 45.5 | 38.0 | 2.25 | 5.9 |
| | | | | 80 | 44.3 | 35.8 | 2.55 | 5.1 |
| | 8 | 4.1 | 1.8 | 60 | 48.5 | 42.0 | 1.99 | 7.2 |
| | | | | 70 | 47.1 | 39.6 | 2.26 | 6.1 |
| | | | | 80 | 45.8 | 37.3 | 2.56 | 5.3 |
| | 12 | 8.6 | 3.7 | 60 | 50.5 | 44.0 | 1.99 | 7.5 |
| | | | | 70 | 48.9 | 41.4 | 2.26 | 6.3 |
| | | | | 80 | 47.4 | 38.9 | 2.56 | 5.4 |

## GC048 HEATING PERFORMANCE - FULL LOAD

| GC048 Heating performance – Full Load @ 1600CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 6 | 2.9 | 1.3 | 60 | 34.6 | 25.7 | 2.67 | 3.8 |
| | | | | 70 | 34.3 | 24.1 | 2.98 | 3.4 |
| | | | | 80 | 33.9 | 22.6 | 3.31 | 3.0 |
| | 8 | 4.9 | 2.1 | 60 | 35.9 | 26.9 | 2.70 | 3.9 |
| | | | | 70 | 35.5 | 25.1 | 3.01 | 3.5 |
| | | | | 80 | 35.0 | 23.5 | 3.34 | 3.1 |
| | 12 | 10.2 | 4.4 | 60 | 37.3 | 28.2 | 2.73 | 4.0 |
| | | | | 70 | 36.8 | 26.3 | 3.04 | 3.6 |
| | | | | 80 | 36.0 | 24.6 | 3.37 | 3.1 |
| 40 | 6 | 2.8 | 1.2 | 60 | 39.5 | 30.3 | 2.79 | 4.2 |
| | | | | 70 | 38.9 | 28.7 | 3.09 | 3.7 |
| | | | | 80 | 38.5 | 26.9 | 3.42 | 3.3 |
| | 8 | 4.7 | 2.0 | 60 | 41.2 | 31.7 | 2.82 | 4.3 |
| | | | | 70 | 40.3 | 30.0 | 3.12 | 3.8 |
| | | | | 80 | 39.8 | 28.1 | 3.45 | 3.4 |
| | 12 | 9.8 | 4.3 | 60 | 42.9 | 33.4 | 2.86 | 4.4 |
| | | | | 70 | 42.0 | 31.4 | 3.16 | 3.9 |
| | | | | 80 | 41.2 | 29.5 | 3.48 | 3.5 |
| 50 | 6 | 2.7 | 1.2 | 60 | 44.9 | 35.1 | 2.90 | 4.5 |
| | | | | 70 | 44.2 | 33.3 | 3.20 | 4.0 |
| | | | | 80 | 43.5 | 31.5 | 3.52 | 3.6 |
| | 8 | 4.6 | 2.0 | 60 | 46.8 | 36.9 | 2.94 | 4.7 |
| | | | | 70 | 45.9 | 35.0 | 3.23 | 4.2 |
| | | | | 80 | 45.1 | 33.0 | 3.56 | 3.7 |
| | 12 | 9.5 | 4.1 | 60 | 49.0 | 39.0 | 2.98 | 4.8 |
| | | | | 70 | 47.9 | 36.7 | 3.27 | 4.3 |
| | | | | 80 | 46.9 | 34.7 | 3.60 | 3.8 |
| 60 | 6 | 2.6 | 1.1 | 60 | 50.6 | 40.4 | 3.01 | 4.9 |
| | | | | 70 | 49.7 | 38.4 | 3.31 | 4.4 |
| | | | | 80 | 48.9 | 36.5 | 3.64 | 3.9 |
| | 8 | 4.4 | 1.9 | 60 | 52.9 | 42.6 | 3.05 | 5.1 |
| | | | | 70 | 51.8 | 40.4 | 3.35 | 4.5 |
| | | | | 80 | 50.8 | 38.3 | 3.68 | 4.0 |
| | 12 | 9.1 | 3.9 | 60 | 55.4 | 45.0 | 3.10 | 5.2 |
| | | | | 70 | 54.1 | 42.6 | 3.40 | 4.7 |
| | | | | 80 | 52.9 | 40.1 | 3.73 | 4.2 |
| 70 | 6 | 2.5 | 1.1 | 60 | 56.6 | 46.0 | 3.12 | 5.3 |
| | | | | 70 | 55.5 | 43.9 | 3.42 | 4.8 |
| | | | | 80 | 54.6 | 41.5 | 3.77 | 4.2 |
| | 8 | 4.3 | 1.9 | 60 | 59.1 | 48.4 | 3.16 | 5.5 |
| | | | | 70 | 57.8 | 46.0 | 3.47 | 4.9 |
| | | | | 80 | 56.7 | 43.8 | 3.82 | 4.4 |
| | 12 | 8.8 | 3.8 | 60 | 62.1 | 51.4 | 3.21 | 5.7 |
| | | | | 70 | 60.5 | 48.7 | 3.52 | 5.0 |
| | | | | 80 | 59.1 | 46.0 | 3.88 | 4.5 |
| 80 | 6 | 2.5 | 1.1 | 60 | 62.7 | 51.9 | 3.22 | 5.7 |
| | | | | 70 | 61.4 | 49.5 | 3.54 | 5.1 |
| | | | | 80 | 60.3 | 47.0 | 3.90 | 4.5 |
| | 8 | 4.1 | 1.8 | 60 | 65.6 | 54.6 | 3.27 | 5.9 |
| | | | | 70 | 64.2 | 52.0 | 3.60 | 5.2 |
| | | | | 80 | 62.8 | 49.3 | 3.96 | 4.6 |
| | 12 | 8.6 | 3.7 | 60 | 69.1 | 57.9 | 3.33 | 6.1 |
| | | | | 70 | 67.2 | 54.9 | 3.66 | 5.4 |
| | | | | 80 | 65.7 | 51.5 | 4.03 | 4.8 |

# GC048 COOLING PERFORMANCE - PART LOAD

| GC048 Cooling performance – PART LOAD @ 1300 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 6 | 2.6 | 1.1 | 75/63 | 39.7 | 31.6 | 44.4 | 1.44 | 27.5 |
| | | | | 80/67 | 42.4 | 32.5 | 47.1 | 1.42 | 29.9 |
| | | | | 85/71 | 45.2 | 33.4 | 49.8 | 1.39 | 32.5 |
| | 8 | 4.4 | 1.9 | 75/63 | 40.6 | 31.9 | 45.1 | 1.37 | 29.7 |
| | | | | 80/67 | 43.4 | 32.9 | 47.8 | 1.34 | 32.5 |
| | | | | 85/71 | 46.2 | 33.9 | 50.5 | 1.30 | 35.4 |
| | 12 | 9.1 | 3.9 | 75/63 | 41.6 | 32.3 | 45.8 | 1.29 | 32.3 |
| | | | | 80/67 | 44.5 | 33.3 | 48.6 | 1.25 | 35.6 |
| | | | | 85/71 | 47.4 | 34.3 | 51.4 | 1.21 | 39.1 |
| 60 | 6 | 2.5 | 1.1 | 75/63 | 37.6 | 30.7 | 42.8 | 1.64 | 23.0 |
| | | | | 80/67 | 40.1 | 31.7 | 45.4 | 1.61 | 24.8 |
| | | | | 85/71 | 42.8 | 32.7 | 48.0 | 1.59 | 26.9 |
| | 8 | 4.3 | 1.9 | 75/63 | 38.4 | 31.0 | 43.4 | 1.56 | 24.6 |
| | | | | 80/67 | 41.0 | 32.1 | 46.0 | 1.53 | 26.8 |
| | | | | 85/71 | 43.8 | 33.1 | 48.7 | 1.50 | 29.2 |
| | 12 | 8.8 | 3.8 | 75/63 | 39.3 | 31.3 | 44.1 | 1.48 | 26.5 |
| | | | | 80/67 | 42.0 | 32.4 | 46.8 | 1.45 | 29.1 |
| | | | | 85/71 | 45.0 | 33.4 | 49.6 | 1.41 | 31.9 |
| 70 | 6 | 2.5 | 1.1 | 75/63 | 35.4 | 29.7 | 41.3 | 1.85 | 19.1 |
| | | | | 80/67 | 37.8 | 30.8 | 43.7 | 1.83 | 20.6 |
| | | | | 85/71 | 40.4 | 31.9 | 46.2 | 1.81 | 22.3 |
| | 8 | 4.1 | 1.8 | 75/63 | 36.1 | 30.1 | 41.8 | 1.77 | 20.4 |
| | | | | 80/67 | 38.7 | 31.1 | 44.4 | 1.75 | 22.1 |
| | | | | 85/71 | 41.4 | 32.1 | 47.0 | 1.72 | 24.1 |
| | 12 | 8.6 | 3.7 | 75/63 | 37.0 | 30.4 | 42.4 | 1.69 | 21.9 |
| | | | | 80/67 | 39.7 | 31.4 | 45.0 | 1.66 | 23.9 |
| | | | | 85/71 | 42.4 | 32.5 | 47.8 | 1.63 | 26.0 |
| 80 | 6 | 2.4 | 1.0 | 75/63 | 33.2 | 28.8 | 39.8 | 2.09 | 15.9 |
| | | | | 80/67 | 35.5 | 29.8 | 42.2 | 2.08 | 17.1 |
| | | | | 85/71 | 38.0 | 30.9 | 44.6 | 2.06 | 18.5 |
| | 8 | 4 | 1.7 | 75/63 | 33.9 | 29.2 | 40.3 | 2.01 | 16.9 |
| | | | | 80/67 | 36.3 | 30.2 | 42.7 | 1.99 | 18.2 |
| | | | | 85/71 | 38.8 | 31.3 | 45.2 | 1.96 | 19.8 |
| | 12 | 8.3 | 3.6 | 75/63 | 34.6 | 29.5 | 40.8 | 1.93 | 17.9 |
| | | | | 80/67 | 37.2 | 30.5 | 43.3 | 1.90 | 19.5 |
| | | | | 85/71 | 39.8 | 31.7 | 45.8 | 1.87 | 21.3 |
| 85 | 6 | 2.3 | 1.0 | 75/63 | 32.0 | 28.4 | 39.1 | 2.22 | 14.4 |
| | | | | 80/67 | 34.3 | 29.4 | 41.4 | 2.22 | 15.5 |
| | | | | 85/71 | 36.7 | 30.6 | 43.7 | 2.19 | 16.7 |
| | 8 | 3.9 | 1.7 | 75/63 | 32.7 | 28.7 | 39.5 | 2.14 | 15.3 |
| | | | | 80/67 | 35.0 | 29.8 | 41.8 | 2.13 | 16.5 |
| | | | | 85/71 | 37.6 | 30.9 | 44.3 | 2.10 | 17.9 |
| | 12 | 8.1 | 3.5 | 75/63 | 33.5 | 29.0 | 40.0 | 2.06 | 16.3 |
| | | | | 80/67 | 35.9 | 30.0 | 42.4 | 2.04 | 17.6 |
| | | | | 85/71 | 38.6 | 31.1 | 45.0 | 2.00 | 19.3 |
| 90 | 6 | 2.3 | 1.0 | 75/63 | 30.9 | 27.9 | 38.4 | 2.36 | 13.1 |
| | | | | 80/67 | 33.1 | 29.1 | 40.5 | 2.36 | 14.1 |
| | | | | 85/71 | 35.5 | 30.2 | 43.0 | 2.33 | 15.2 |
| | 8 | 3.9 | 1.7 | 75/63 | 31.6 | 28.2 | 38.8 | 2.28 | 13.9 |
| | | | | 80/67 | 33.8 | 29.3 | 41.0 | 2.27 | 14.9 |
| | | | | 85/71 | 36.3 | 30.5 | 43.5 | 2.24 | 16.2 |
| | 12 | 8 | 3.5 | 75/63 | 32.3 | 28.5 | 39.2 | 2.19 | 14.7 |
| | | | | 80/67 | 34.7 | 29.6 | 41.6 | 2.17 | 16.0 |
| | | | | 85/71 | 37.2 | 30.8 | 44.1 | 2.14 | 17.4 |
| 100 | 6 | 2.2 | 1.0 | 75/63 | 28.7 | 27.0 | 37.0 | 2.66 | 10.8 |
| | | | | 80/67 | 30.8 | 28.2 | 39.2 | 2.65 | 11.6 |
| | | | | 85/71 | 33.1 | 29.4 | 41.4 | 2.63 | 12.6 |
| | 8 | 3.8 | 1.6 | 75/63 | 29.3 | 27.2 | 37.4 | 2.58 | 11.4 |
| | | | | 80/67 | 31.5 | 28.4 | 39.6 | 2.56 | 12.3 |
| | | | | 85/71 | 33.8 | 29.6 | 41.9 | 2.54 | 13.3 |
| | 12 | 7.8 | 3.4 | 75/63 | 29.9 | 27.4 | 37.8 | 2.49 | 12.0 |
| | | | | 80/67 | 32.1 | 28.7 | 40.0 | 2.47 | 13.0 |
| | | | | 85/71 | 34.5 | 29.9 | 42.3 | 2.44 | 14.1 |
| 110 | 6 | 2.2 | 1.0 | 75/63 | 26.4 | 26.1 | 35.8 | 2.98 | 8.8 |
| | | | | 80/67 | 28.4 | 27.4 | 37.8 | 2.97 | 9.6 |
| | | | | 85/71 | 30.5 | 28.5 | 39.9 | 2.96 | 10.3 |
| | 8 | 3.6 | 1.6 | 75/63 | 27.0 | 26.3 | 36.1 | 2.90 | 9.3 |
| | | | | 80/67 | 29.1 | 27.6 | 38.2 | 2.88 | 10.1 |
| | | | | 85/71 | 31.4 | 28.7 | 40.4 | 2.86 | 11.0 |
| | 12 | 7.6 | 3.3 | 75/63 | 27.5 | 26.6 | 36.3 | 2.82 | 9.8 |
| | | | | 80/67 | 29.8 | 27.8 | 38.6 | 2.79 | 10.7 |
| | | | | 85/71 | 32.1 | 28.9 | 40.9 | 2.76 | 11.6 |

# GC048 COOLING PERFORMANCE - FULL LOAD

| GC048 Cooling performance – Full Load @ 1600 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 6 | 2.6 | 1.1 | 75/63 | 52.3 | 40.1 | 60.4 | 2.48 | 21.1 |
| | | | | 80/67 | 55.6 | 41.3 | 63.9 | 2.50 | 22.2 |
| | | | | 85/71 | 59.2 | 42.3 | 67.6 | 2.53 | 23.4 |
| | 8 | 4.4 | 1.9 | 75/63 | 53.6 | 40.6 | 61.4 | 2.36 | 22.7 |
| | | | | 80/67 | 57.1 | 41.8 | 64.9 | 2.38 | 24.0 |
| | | | | 85/71 | 60.8 | 42.8 | 68.8 | 2.40 | 25.3 |
| | 12 | 9.1 | 3.9 | 75/63 | 54.9 | 41.3 | 62.3 | 2.24 | 24.5 |
| | | | | 80/67 | 58.7 | 42.4 | 66.2 | 2.26 | 26.0 |
| | | | | 85/71 | 62.5 | 43.5 | 70.1 | 2.27 | 27.6 |
| 60 | 6 | 2.5 | 1.1 | 75/63 | 49.9 | 39.1 | 58.7 | 2.69 | 18.5 |
| | | | | 80/67 | 53.2 | 40.3 | 62.1 | 2.72 | 19.6 |
| | | | | 85/71 | 56.7 | 41.4 | 65.7 | 2.75 | 20.6 |
| | 8 | 4.3 | 1.9 | 75/63 | 51.2 | 39.6 | 59.6 | 2.57 | 19.9 |
| | | | | 80/67 | 54.6 | 40.9 | 63.1 | 2.59 | 21.1 |
| | | | | 85/71 | 58.1 | 42.0 | 66.7 | 2.61 | 22.3 |
| | 12 | 8.8 | 3.8 | 75/63 | 52.5 | 40.2 | 60.5 | 2.46 | 21.4 |
| | | | | 80/67 | 56.1 | 41.3 | 64.3 | 2.47 | 22.7 |
| | | | | 85/71 | 59.8 | 42.5 | 68.0 | 2.48 | 24.1 |
| 70 | 6 | 2.5 | 1.1 | 75/63 | 47.5 | 38.1 | 57.0 | 2.93 | 16.2 |
| | | | | 80/67 | 50.8 | 39.3 | 60.4 | 2.96 | 17.1 |
| | | | | 85/71 | 53.9 | 40.5 | 63.7 | 2.99 | 18.0 |
| | 8 | 4.1 | 1.8 | 75/63 | 48.7 | 38.6 | 57.9 | 2.81 | 17.3 |
| | | | | 80/67 | 52.0 | 39.9 | 61.3 | 2.83 | 18.4 |
| | | | | 85/71 | 55.4 | 41.0 | 64.7 | 2.85 | 19.4 |
| | 12 | 8.6 | 3.7 | 75/63 | 50.1 | 39.0 | 58.8 | 2.69 | 18.6 |
| | | | | 80/67 | 53.5 | 40.3 | 62.3 | 2.70 | 19.8 |
| | | | | 85/71 | 57.1 | 41.5 | 66.0 | 2.71 | 21.1 |
| 80 | 6 | 2.4 | 1.0 | 75/63 | 45.2 | 37.0 | 55.5 | 3.21 | 14.1 |
| | | | | 80/67 | 48.2 | 38.3 | 58.7 | 3.24 | 14.9 |
| | | | | 85/71 | 51.3 | 39.4 | 62.0 | 3.27 | 15.7 |
| | 8 | 4 | 1.7 | 75/63 | 46.2 | 37.6 | 56.2 | 3.08 | 15.0 |
| | | | | 80/67 | 49.5 | 38.7 | 59.5 | 3.10 | 15.9 |
| | | | | 85/71 | 52.6 | 40.1 | 62.8 | 3.12 | 16.8 |
| | 12 | 8.3 | 3.6 | 75/63 | 47.5 | 38.0 | 57.0 | 2.95 | 16.1 |
| | | | | 80/67 | 50.8 | 39.2 | 60.4 | 2.96 | 17.1 |
| | | | | 85/71 | 54.1 | 40.6 | 63.8 | 2.97 | 18.2 |
| 85 | 6 | 2.3 | 1.0 | 75/63 | 43.8 | 36.6 | 54.7 | 3.37 | 13.0 |
| | | | | 80/67 | 46.8 | 37.9 | 57.8 | 3.40 | 13.8 |
| | | | | 85/71 | 49.8 | 39.1 | 61.0 | 3.43 | 14.5 |
| | 8 | 3.9 | 1.7 | 75/63 | 45.0 | 36.9 | 55.4 | 3.23 | 13.9 |
| | | | | 80/67 | 48.1 | 38.2 | 58.7 | 3.25 | 14.8 |
| | | | | 85/71 | 51.3 | 39.4 | 62.0 | 3.27 | 15.7 |
| | 12 | 8.1 | 3.5 | 75/63 | 46.1 | 37.5 | 56.1 | 3.10 | 14.9 |
| | | | | 80/67 | 49.4 | 38.7 | 59.5 | 3.11 | 15.9 |
| | | | | 85/71 | 52.6 | 40.1 | 62.8 | 3.12 | 16.9 |
| 90 | 6 | 2.3 | 1.0 | 75/63 | 42.6 | 36.1 | 54.0 | 3.53 | 12.1 |
| | | | | 80/67 | 45.5 | 37.4 | 57.0 | 3.56 | 12.8 |
| | | | | 85/71 | 48.5 | 38.6 | 60.1 | 3.60 | 13.5 |
| | 8 | 3.9 | 1.7 | 75/63 | 43.6 | 36.5 | 54.6 | 3.39 | 12.8 |
| | | | | 80/67 | 46.8 | 37.7 | 57.8 | 3.42 | 13.7 |
| | | | | 85/71 | 49.8 | 39.1 | 60.9 | 3.44 | 14.5 |
| | 12 | 8 | 3.5 | 75/63 | 44.7 | 37.0 | 55.2 | 3.25 | 13.7 |
| | | | | 80/67 | 48.0 | 38.2 | 58.6 | 3.27 | 14.7 |
| | | | | 85/71 | 51.3 | 39.4 | 62.0 | 3.28 | 15.6 |
| 100 | 6 | 2.2 | 1.0 | 75/63 | 40.0 | 35.0 | 52.5 | 3.90 | 10.2 |
| | | | | 80/67 | 42.7 | 36.3 | 55.4 | 3.94 | 10.8 |
| | | | | 85/71 | 45.5 | 37.6 | 58.4 | 3.97 | 11.4 |
| | 8 | 3.8 | 1.6 | 75/63 | 41.0 | 35.5 | 53.1 | 3.75 | 10.9 |
| | | | | 80/67 | 43.9 | 36.8 | 56.1 | 3.78 | 11.6 |
| | | | | 85/71 | 46.8 | 38.0 | 59.1 | 3.80 | 12.3 |
| | 12 | 7.8 | 3.4 | 75/63 | 42.1 | 35.8 | 53.7 | 3.61 | 11.7 |
| | | | | 80/67 | 45.1 | 37.1 | 56.8 | 3.62 | 12.5 |
| | | | | 85/71 | 48.1 | 38.5 | 59.9 | 3.63 | 13.2 |
| 110 | 6 | 2.2 | 1.0 | 75/63 | 37.4 | 34.0 | 51.3 | 4.33 | 8.6 |
| | | | | 80/67 | 39.9 | 35.3 | 54.0 | 4.38 | 9.1 |
| | | | | 85/71 | 42.7 | 36.6 | 57.0 | 4.42 | 9.7 |
| | 8 | 3.6 | 1.6 | 75/63 | 38.3 | 34.4 | 51.7 | 4.17 | 9.2 |
| | | | | 80/67 | 41.1 | 35.7 | 54.6 | 4.20 | 9.8 |
| | | | | 85/71 | 43.8 | 37.0 | 57.5 | 4.23 | 10.4 |
| | 12 | 7.6 | 3.3 | 75/63 | 39.4 | 34.7 | 52.3 | 4.02 | 9.8 |
| | | | | 80/67 | 42.0 | 36.1 | 55.0 | 4.03 | 10.4 |
| | | | | 85/71 | 45.1 | 37.4 | 58.1 | 4.04 | 11.1 |

## GC060 HEATING PERFORMANCE - PART LOAD

| GC060 Heating performance – PART LOAD @ 1600CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air ° F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 7.5 | 3.1 | 1.3 | 60 | 33.7 | 25.2 | 2.56 | 3.9 |
| | | | | 70 | 32.5 | 22.9 | 2.85 | 3.3 |
| | | | | 80 | 31.3 | 20.8 | 3.17 | 2.9 |
| | 10 | 5.2 | 2.3 | 60 | 34.6 | 26.1 | 2.57 | 4.0 |
| | | | | 70 | 33.3 | 23.7 | 2.85 | 3.4 |
| | | | | 80 | 31.9 | 21.4 | 3.17 | 2.9 |
| | 15 | 10.8 | 4.7 | 60 | 35.6 | 27.0 | 2.57 | 4.1 |
| | | | | 70 | 34.4 | 24.4 | 2.86 | 3.5 |
| | | | | 80 | 32.7 | 22.2 | 3.18 | 3.0 |
| 40 | 7.5 | 3 | 1.3 | 60 | 38.5 | 29.9 | 2.59 | 4.4 |
| | | | | 70 | 37.1 | 27.6 | 2.89 | 3.8 |
| | | | | 80 | 35.9 | 25.3 | 3.22 | 3.3 |
| | 10 | 5 | 2.2 | 60 | 39.6 | 31.0 | 2.60 | 4.5 |
| | | | | 70 | 38.1 | 28.6 | 2.90 | 3.9 |
| | | | | 80 | 36.7 | 26.3 | 3.23 | 3.3 |
| | 15 | 10.4 | 4.5 | 60 | 40.8 | 32.3 | 2.60 | 4.6 |
| | | | | 70 | 39.3 | 29.7 | 2.91 | 4.0 |
| | | | | 80 | 38.0 | 27.0 | 3.24 | 3.4 |
| 50 | 7.5 | 2.9 | 1.3 | 60 | 43.6 | 35.0 | 2.62 | 4.9 |
| | | | | 70 | 42.3 | 32.4 | 2.93 | 4.2 |
| | | | | 80 | 41.0 | 29.9 | 3.26 | 3.7 |
| | 10 | 4.9 | 2.1 | 60 | 45.0 | 36.4 | 2.63 | 5.0 |
| | | | | 70 | 43.6 | 33.7 | 2.94 | 4.4 |
| | | | | 80 | 42.1 | 31.3 | 3.27 | 3.8 |
| | 15 | 10.1 | 4.4 | 60 | 46.5 | 38.0 | 2.63 | 5.2 |
| | | | | 70 | 44.8 | 35.4 | 2.94 | 4.5 |
| | | | | 80 | 43.4 | 32.1 | 3.28 | 3.9 |
| 60 | 7.5 | 2.8 | 1.2 | 60 | 49.2 | 40.4 | 2.64 | 5.5 |
| | | | | 70 | 47.7 | 37.9 | 2.96 | 4.7 |
| | | | | 80 | 46.4 | 35.1 | 3.30 | 4.1 |
| | 10 | 4.7 | 2.0 | 60 | 50.8 | 42.1 | 2.65 | 5.6 |
| | | | | 70 | 49.2 | 39.4 | 2.96 | 4.9 |
| | | | | 80 | 47.7 | 36.3 | 3.31 | 4.2 |
| | 15 | 9.7 | 4.2 | 60 | 52.6 | 44.1 | 2.65 | 5.8 |
| | | | | 70 | 50.9 | 41.1 | 2.97 | 5.0 |
| | | | | 80 | 49.1 | 38.4 | 3.32 | 4.3 |
| 70 | 7.5 | 2.7 | 1.2 | 60 | 54.9 | 46.2 | 2.66 | 6.1 |
| | | | | 70 | 53.4 | 43.4 | 2.98 | 5.3 |
| | | | | 80 | 51.7 | 40.8 | 3.34 | 4.5 |
| | 10 | 4.5 | 2.0 | 60 | 56.9 | 48.2 | 2.66 | 6.3 |
| | | | | 70 | 55.1 | 45.2 | 2.99 | 5.4 |
| | | | | 80 | 53.5 | 41.8 | 3.35 | 4.7 |
| | 15 | 9.4 | 4.1 | 60 | 59.0 | 50.4 | 2.66 | 6.5 |
| | | | | 70 | 57.1 | 47.2 | 2.99 | 5.6 |
| | | | | 80 | 55.2 | 44.1 | 3.36 | 4.8 |
| 80 | 7.5 | 2.6 | 1.1 | 60 | 60.9 | 52.2 | 2.66 | 6.7 |
| | | | | 70 | 59.2 | 49.2 | 3.00 | 5.8 |
| | | | | 80 | 57.4 | 46.2 | 3.37 | 5.0 |
| | 10 | 4.4 | 1.9 | 60 | 63.2 | 54.5 | 2.66 | 7.0 |
| | | | | 70 | 61.1 | 51.3 | 3.00 | 6.0 |
| | | | | 80 | 59.4 | 47.7 | 3.38 | 5.2 |
| | 15 | 9.1 | 3.9 | 60 | 65.6 | 57.0 | 2.66 | 7.2 |
| | | | | 70 | 63.4 | 53.6 | 3.01 | 6.2 |
| | | | | 80 | 61.3 | 50.2 | 3.38 | 5.3 |

## GC060 HEATING PERFORMANCE - FULL LOAD

| GC060 Heating performance – Full Load @ 2000CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 7.5 | 3.1 | 1.3 | 60 | 45.9 | 34.1 | 3.51 | 3.8 |
| | | | | 70 | 45.2 | 32.1 | 3.87 | 3.4 |
| | | | | 80 | 44.6 | 30.2 | 4.25 | 3.1 |
| | 10 | 5.2 | 2.3 | 60 | 47.4 | 35.5 | 3.54 | 3.9 |
| | | | | 70 | 46.6 | 33.4 | 3.90 | 3.5 |
| | | | | 80 | 45.8 | 31.3 | 4.28 | 3.1 |
| | 15 | 10.8 | 4.7 | 60 | 49.1 | 36.8 | 3.57 | 4.0 |
| | | | | 70 | 48.1 | 34.8 | 3.93 | 3.6 |
| | | | | 80 | 47.3 | 32.7 | 4.31 | 3.2 |
| 40 | 7.5 | 3 | 1.3 | 60 | 52.0 | 39.7 | 3.64 | 4.2 |
| | | | | 70 | 51.2 | 37.7 | 3.99 | 3.8 |
| | | | | 80 | 50.5 | 35.6 | 4.38 | 3.4 |
| | 10 | 5 | 2.2 | 60 | 53.9 | 41.5 | 3.67 | 4.3 |
| | | | | 70 | 52.9 | 39.3 | 4.03 | 3.9 |
| | | | | 80 | 52.1 | 37.1 | 4.42 | 3.5 |
| | 15 | 10.4 | 4.5 | 60 | 56.0 | 43.2 | 3.71 | 4.4 |
| | | | | 70 | 54.9 | 40.8 | 4.07 | 4.0 |
| | | | | 80 | 53.9 | 38.8 | 4.46 | 3.5 |
| 50 | 7.5 | 2.9 | 1.3 | 60 | 58.8 | 45.9 | 3.76 | 4.6 |
| | | | | 70 | 57.9 | 43.6 | 4.13 | 4.1 |
| | | | | 80 | 57.0 | 41.3 | 4.53 | 3.7 |
| | 10 | 4.9 | 2.1 | 60 | 61.1 | 48.5 | 3.81 | 4.7 |
| | | | | 70 | 59.9 | 45.8 | 4.17 | 4.2 |
| | | | | 80 | 58.8 | 43.4 | 4.57 | 3.8 |
| | 15 | 10.1 | 4.4 | 60 | 63.6 | 50.5 | 3.86 | 4.8 |
| | | | | 70 | 62.3 | 48.1 | 4.22 | 4.3 |
| | | | | 80 | 61.0 | 45.4 | 4.62 | 3.9 |
| 60 | 7.5 | 2.8 | 1.2 | 60 | 65.9 | 52.9 | 3.91 | 4.9 |
| | | | | 70 | 64.7 | 50.3 | 4.27 | 4.4 |
| | | | | 80 | 63.7 | 48.2 | 4.69 | 4.0 |
| | 10 | 4.7 | 2.0 | 60 | 68.8 | 55.7 | 3.96 | 5.1 |
| | | | | 70 | 67.3 | 52.8 | 4.33 | 4.6 |
| | | | | 80 | 66.0 | 50.0 | 4.74 | 4.1 |
| | 15 | 9.7 | 4.2 | 60 | 71.8 | 58.1 | 4.02 | 5.2 |
| | | | | 70 | 70.1 | 55.2 | 4.39 | 4.7 |
| | | | | 80 | 68.7 | 52.4 | 4.80 | 4.2 |
| 70 | 7.5 | 2.7 | 1.2 | 60 | 73.5 | 60.0 | 4.06 | 5.3 |
| | | | | 70 | 72.1 | 57.2 | 4.43 | 4.8 |
| | | | | 80 | 70.8 | 54.4 | 4.86 | 4.3 |
| | 10 | 4.5 | 2.0 | 60 | 76.8 | 63.0 | 4.13 | 5.5 |
| | | | | 70 | 75.1 | 60.0 | 4.50 | 4.9 |
| | | | | 80 | 73.6 | 57.0 | 4.92 | 4.4 |
| | 15 | 9.4 | 4.1 | 60 | 80.4 | 66.2 | 4.21 | 5.6 |
| | | | | 70 | 78.4 | 62.7 | 4.58 | 5.0 |
| | | | | 80 | 76.8 | 59.4 | 5.00 | 4.5 |
| 80 | 7.5 | 2.6 | 1.1 | 60 | 81.5 | 67.3 | 4.23 | 5.7 |
| | | | | 70 | 79.8 | 64.3 | 4.61 | 5.1 |
| | | | | 80 | 78.2 | 61.2 | 5.04 | 4.5 |
| | 10 | 4.4 | 1.9 | 60 | 85.2 | 70.9 | 4.31 | 5.8 |
| | | | | 70 | 83.2 | 67.5 | 4.69 | 5.2 |
| | | | | 80 | 81.3 | 64.1 | 5.12 | 4.7 |
| | 15 | 9.1 | 3.9 | 60 | 89.3 | 74.5 | 4.40 | 5.9 |
| | | | | 70 | 87.1 | 71.7 | 4.79 | 5.3 |
| | | | | 80 | 84.8 | 67.3 | 5.21 | 4.8 |

# GC060 COOLING PERFORMANCE - PART LOAD

| GC060 Cooling performance – PART LOAD @ 1600 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 7.5 | 2.8 | 1.2 | 75/63 | 51.0 | 39.6 | 57.1 | 1.86 | 27.4 |
| | | | | 80/67 | 54.3 | 40.9 | 60.3 | 1.83 | 29.7 |
| | | | | 85/71 | 57.8 | 42.0 | 63.7 | 1.80 | 32.1 |
| | 10 | 4.7 | 2.0 | 75/63 | 52.0 | 40.1 | 57.8 | 1.78 | 29.2 |
| | | | | 80/67 | 55.5 | 41.3 | 61.2 | 1.74 | 31.8 |
| | | | | 85/71 | 59.2 | 42.4 | 64.8 | 1.71 | 34.6 |
| | 15 | 9.7 | 4.2 | 75/63 | 53.1 | 40.6 | 58.7 | 1.70 | 31.3 |
| | | | | 80/67 | 56.8 | 41.7 | 62.3 | 1.66 | 34.2 |
| | | | | 85/71 | 60.4 | 43.0 | 65.8 | 1.62 | 37.4 |
| 60 | 7.5 | 2.7 | 1.2 | 75/63 | 48.1 | 38.5 | 54.9 | 2.09 | 23.0 |
| | | | | 80/67 | 51.4 | 39.8 | 58.2 | 2.06 | 24.9 |
| | | | | 85/71 | 54.9 | 40.9 | 61.6 | 2.03 | 27.0 |
| | 10 | 4.5 | 2.0 | 75/63 | 49.1 | 38.9 | 55.7 | 2.00 | 24.5 |
| | | | | 80/67 | 52.5 | 40.2 | 59.0 | 1.97 | 26.7 |
| | | | | 85/71 | 56.0 | 41.4 | 62.4 | 1.93 | 29.0 |
| | 15 | 9.4 | 4.1 | 75/63 | 50.2 | 39.3 | 56.4 | 1.92 | 26.2 |
| | | | | 80/67 | 53.8 | 40.5 | 59.9 | 1.88 | 28.6 |
| | | | | 85/71 | 57.4 | 41.8 | 63.5 | 1.84 | 31.3 |
| 70 | 7.5 | 2.6 | 1.1 | 75/63 | 45.4 | 37.2 | 53.0 | 2.35 | 19.3 |
| | | | | 80/67 | 48.5 | 38.6 | 56.0 | 2.32 | 20.9 |
| | | | | 85/71 | 51.7 | 39.9 | 59.2 | 2.29 | 22.5 |
| | 10 | 4.4 | 1.9 | 75/63 | 46.2 | 37.7 | 53.5 | 2.26 | 20.4 |
| | | | | 80/67 | 49.6 | 38.9 | 56.8 | 2.23 | 22.2 |
| | | | | 85/71 | 52.9 | 40.3 | 60.1 | 2.19 | 24.1 |
| | 15 | 9.1 | 3.9 | 75/63 | 47.2 | 38.1 | 54.3 | 2.17 | 21.7 |
| | | | | 80/67 | 50.7 | 39.4 | 57.6 | 2.13 | 23.8 |
| | | | | 85/71 | 54.1 | 40.7 | 60.9 | 2.09 | 25.9 |
| 80 | 7.5 | 2.5 | 1.1 | 75/63 | 42.4 | 36.1 | 50.9 | 2.65 | 16.0 |
| | | | | 80/67 | 45.5 | 37.5 | 53.9 | 2.62 | 17.3 |
| | | | | 85/71 | 48.6 | 38.8 | 57.0 | 2.59 | 18.7 |
| | 10 | 4.2 | 1.8 | 75/63 | 43.3 | 36.5 | 51.5 | 2.56 | 16.9 |
| | | | | 80/67 | 46.4 | 37.8 | 54.5 | 2.52 | 18.4 |
| | | | | 85/71 | 49.7 | 39.2 | 57.8 | 2.49 | 20.0 |
| | 15 | 8.8 | 3.8 | 75/63 | 44.2 | 36.8 | 52.2 | 2.47 | 17.9 |
| | | | | 80/67 | 47.5 | 38.2 | 55.3 | 2.42 | 19.6 |
| | | | | 85/71 | 50.9 | 39.4 | 58.7 | 2.38 | 21.4 |
| 85 | 7.5 | 2.5 | 1.1 | 75/63 | 41.1 | 35.5 | 50.1 | 2.81 | 14.6 |
| | | | | 80/67 | 44.0 | 36.9 | 52.9 | 2.79 | 15.8 |
| | | | | 85/71 | 47.0 | 38.2 | 55.9 | 2.76 | 17.0 |
| | 10 | 4.2 | 1.8 | 75/63 | 41.8 | 35.9 | 50.5 | 2.72 | 15.4 |
| | | | | 80/67 | 44.9 | 37.3 | 53.5 | 2.68 | 16.7 |
| | | | | 85/71 | 48.0 | 38.6 | 56.6 | 2.65 | 18.1 |
| | 15 | 8.7 | 3.8 | 75/63 | 42.8 | 36.2 | 51.2 | 2.62 | 16.3 |
| | | | | 80/67 | 45.8 | 37.6 | 54.2 | 2.58 | 17.7 |
| | | | | 85/71 | 49.1 | 39.0 | 57.4 | 2.54 | 19.3 |
| 90 | 7.5 | 2.5 | 1.1 | 75/63 | 39.6 | 35.0 | 49.1 | 2.98 | 13.3 |
| | | | | 80/67 | 42.4 | 36.4 | 51.9 | 2.96 | 14.3 |
| | | | | 85/71 | 45.4 | 37.7 | 54.9 | 2.93 | 15.5 |
| | 10 | 4.1 | 1.8 | 75/63 | 40.4 | 35.3 | 49.6 | 2.89 | 14.0 |
| | | | | 80/67 | 43.3 | 36.7 | 52.5 | 2.86 | 15.1 |
| | | | | 85/71 | 46.4 | 38.0 | 55.5 | 2.82 | 16.4 |
| | 15 | 8.5 | 3.7 | 75/63 | 41.2 | 35.6 | 50.1 | 2.79 | 14.7 |
| | | | | 80/67 | 44.3 | 36.9 | 53.2 | 2.75 | 16.1 |
| | | | | 85/71 | 47.4 | 38.4 | 56.2 | 2.71 | 17.5 |
| 100 | 7.5 | 2.4 | 1.0 | 75/63 | 36.7 | 33.8 | 47.3 | 3.34 | 11.0 |
| | | | | 80/67 | 39.4 | 35.2 | 50.0 | 3.33 | 11.8 |
| | | | | 85/71 | 42.3 | 36.6 | 52.9 | 3.30 | 12.8 |
| | 10 | 4 | 1.7 | 75/63 | 37.4 | 34.1 | 47.8 | 3.25 | 11.5 |
| | | | | 80/67 | 40.2 | 35.5 | 50.5 | 3.22 | 12.5 |
| | | | | 85/71 | 43.2 | 36.9 | 53.5 | 3.20 | 13.5 |
| | 15 | 8.3 | 3.6 | 75/63 | 38.1 | 34.4 | 48.2 | 3.16 | 12.1 |
| | | | | 80/67 | 41.0 | 35.8 | 51.1 | 3.13 | 13.1 |
| | | | | 85/71 | 44.1 | 37.2 | 54.0 | 3.08 | 14.3 |
| 110 | 7.5 | 2.3 | 1.0 | 75/63 | 33.8 | 32.6 | 45.7 | 3.74 | 9.0 |
| | | | | 80/67 | 36.5 | 34.2 | 48.4 | 3.72 | 9.8 |
| | | | | 85/71 | 38.7 | 35.4 | 50.6 | 3.71 | 10.4 |
| | 10 | 3.9 | 1.7 | 75/63 | 34.5 | 32.8 | 46.1 | 3.65 | 9.4 |
| | | | | 80/67 | 37.2 | 34.4 | 48.8 | 3.62 | 10.3 |
| | | | | 85/71 | 39.6 | 35.7 | 51.2 | 3.60 | 11.0 |
| | 15 | 8 | 3.5 | 75/63 | 35.1 | 33.2 | 46.4 | 3.56 | 9.9 |
| | | | | 80/67 | 38.0 | 34.6 | 49.2 | 3.53 | 10.8 |
| | | | | 85/71 | 40.9 | 36.1 | 52.1 | 3.49 | 11.7 |

# GC060 COOLING PERFORMANCE - FULL LOAD

| GC060 Cooling performance – Full Load @ 2000 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 7.5 | 2.8 | 1.2 | 75/63 | 66.7 | 50.5 | 77.1 | 3.16 | 21.1 |
| | | | | 80/67 | 70.9 | 52.0 | 81.5 | 3.21 | 22.1 |
| | | | | 85/71 | 75.3 | 53.4 | 86.2 | 3.27 | 23.0 |
| | 10 | 4.7 | 2.0 | 75/63 | 68.0 | 51.2 | 78.1 | 3.04 | 22.3 |
| | | | | 80/67 | 72.6 | 52.6 | 82.9 | 3.10 | 23.4 |
| | | | | 85/71 | 77.2 | 53.9 | 87.7 | 3.15 | 24.5 |
| | 15 | 9.7 | 4.2 | 75/63 | 69.5 | 51.8 | 79.2 | 2.94 | 23.7 |
| | | | | 80/67 | 74.0 | 53.4 | 84.0 | 2.98 | 24.8 |
| | | | | 85/71 | 78.9 | 54.7 | 89.0 | 3.04 | 26.0 |
| 60 | 7.5 | 2.7 | 1.2 | 75/63 | 63.8 | 49.4 | 75.0 | 3.40 | 18.8 |
| | | | | 80/67 | 68.0 | 50.9 | 79.4 | 3.45 | 19.7 |
| | | | | 85/71 | 72.4 | 52.1 | 84.0 | 3.51 | 20.6 |
| | 10 | 4.5 | 2.0 | 75/63 | 65.3 | 49.8 | 76.1 | 3.28 | 19.9 |
| | | | | 80/67 | 69.6 | 51.3 | 80.6 | 3.32 | 20.9 |
| | | | | 85/71 | 73.9 | 52.9 | 85.1 | 3.37 | 21.9 |
| | 15 | 9.4 | 4.1 | 75/63 | 66.6 | 50.5 | 77.1 | 3.16 | 21.1 |
| | | | | 80/67 | 71.0 | 52.1 | 81.6 | 3.20 | 22.2 |
| | | | | 85/71 | 75.8 | 53.4 | 86.6 | 3.24 | 23.4 |
| 70 | 7.5 | 2.6 | 1.1 | 75/63 | 61.0 | 48.2 | 73.0 | 3.68 | 16.6 |
| | | | | 80/67 | 65.1 | 49.6 | 77.4 | 3.73 | 17.4 |
| | | | | 85/71 | 69.0 | 51.1 | 81.5 | 3.78 | 18.3 |
| | 10 | 4.4 | 1.9 | 75/63 | 62.4 | 48.6 | 74.0 | 3.55 | 17.6 |
| | | | | 80/67 | 66.4 | 50.3 | 78.2 | 3.59 | 18.5 |
| | | | | 85/71 | 70.7 | 51.7 | 82.7 | 3.63 | 19.5 |
| | 15 | 9.1 | 3.9 | 75/63 | 63.7 | 49.2 | 74.9 | 3.42 | 18.6 |
| | | | | 80/67 | 68.0 | 50.7 | 79.4 | 3.46 | 19.7 |
| | | | | 85/71 | 72.5 | 52.2 | 84.1 | 3.49 | 20.7 |
| 80 | 7.5 | 2.5 | 1.1 | 75/63 | 58.0 | 47.0 | 71.1 | 4.01 | 14.5 |
| | | | | 80/67 | 61.8 | 48.5 | 75.1 | 4.05 | 15.2 |
| | | | | 85/71 | 65.7 | 50.0 | 79.2 | 4.10 | 16.0 |
| | 10 | 4.2 | 1.8 | 75/63 | 59.3 | 47.5 | 71.9 | 3.87 | 15.3 |
| | | | | 80/67 | 63.4 | 48.9 | 76.2 | 3.90 | 16.2 |
| | | | | 85/71 | 67.3 | 50.5 | 80.3 | 3.94 | 17.1 |
| | 15 | 8.8 | 3.8 | 75/63 | 60.6 | 47.9 | 72.9 | 3.73 | 16.2 |
| | | | | 80/67 | 64.7 | 49.6 | 77.0 | 3.76 | 17.2 |
| | | | | 85/71 | 69.1 | 50.9 | 81.6 | 3.79 | 18.2 |
| 85 | 7.5 | 2.5 | 1.1 | 75/63 | 56.6 | 46.2 | 70.3 | 4.19 | 13.5 |
| | | | | 80/67 | 60.4 | 47.8 | 74.3 | 4.24 | 14.2 |
| | | | | 85/71 | 64.1 | 49.4 | 78.2 | 4.28 | 15.0 |
| | 10 | 4.2 | 1.8 | 75/63 | 57.8 | 46.8 | 71.0 | 4.05 | 14.3 |
| | | | | 80/67 | 61.6 | 48.4 | 75.0 | 4.08 | 15.1 |
| | | | | 85/71 | 65.7 | 49.8 | 79.3 | 4.12 | 16.0 |
| | 15 | 8.7 | 3.8 | 75/63 | 59.0 | 47.2 | 71.8 | 3.91 | 15.1 |
| | | | | 80/67 | 63.0 | 48.9 | 75.9 | 3.93 | 16.0 |
| | | | | 85/71 | 67.2 | 50.5 | 80.2 | 3.96 | 17.0 |
| 90 | 7.5 | 2.5 | 1.1 | 75/63 | 55.1 | 45.6 | 69.4 | 4.39 | 12.5 |
| | | | | 80/67 | 58.5 | 47.2 | 72.9 | 4.43 | 13.2 |
| | | | | 85/71 | 62.3 | 48.8 | 77.0 | 4.48 | 13.9 |
| | 10 | 4.1 | 1.8 | 75/63 | 56.3 | 46.1 | 70.1 | 4.24 | 13.3 |
| | | | | 80/67 | 60.1 | 47.7 | 74.1 | 4.27 | 14.1 |
| | | | | 85/71 | 63.9 | 49.3 | 78.1 | 4.30 | 14.8 |
| | 15 | 8.5 | 3.7 | 75/63 | 57.3 | 46.7 | 70.7 | 4.09 | 14.0 |
| | | | | 80/67 | 61.4 | 48.1 | 74.9 | 4.12 | 14.9 |
| | | | | 85/71 | 65.5 | 49.7 | 79.1 | 4.14 | 15.8 |
| 100 | 7.5 | 2.4 | 1.0 | 75/63 | 51.9 | 44.5 | 67.6 | 4.82 | 10.8 |
| | | | | 80/67 | 55.2 | 46.0 | 71.0 | 4.86 | 11.4 |
| | | | | 85/71 | 58.8 | 47.5 | 74.8 | 4.91 | 12.0 |
| | 10 | 4 | 1.7 | 75/63 | 53.1 | 44.8 | 68.3 | 4.67 | 11.4 |
| | | | | 80/67 | 56.7 | 46.5 | 72.0 | 4.69 | 12.1 |
| | | | | 85/71 | 60.3 | 48.1 | 75.8 | 4.73 | 12.8 |
| | 15 | 8.3 | 3.6 | 75/63 | 54.0 | 45.3 | 68.7 | 4.51 | 12.0 |
| | | | | 80/67 | 57.9 | 47.0 | 72.7 | 4.53 | 12.8 |
| | | | | 85/71 | 61.8 | 48.6 | 76.7 | 4.56 | 13.6 |
| 110 | 7.5 | 2.3 | 1.0 | 75/63 | 48.7 | 43.2 | 66.0 | 5.33 | 9.1 |
| | | | | 80/67 | 51.8 | 44.7 | 69.3 | 5.37 | 9.6 |
| | | | | 85/71 | 55.3 | 46.3 | 73.0 | 5.41 | 10.2 |
| | 10 | 3.9 | 1.7 | 75/63 | 49.8 | 43.5 | 66.6 | 5.16 | 9.6 |
| | | | | 80/67 | 53.2 | 45.2 | 70.1 | 5.19 | 10.3 |
| | | | | 85/71 | 56.7 | 46.8 | 73.7 | 5.22 | 10.9 |
| | 15 | 8 | 3.5 | 75/63 | 50.8 | 43.9 | 67.1 | 5.01 | 10.1 |
| | | | | 80/67 | 54.2 | 45.6 | 70.6 | 5.02 | 10.8 |
| | | | | 85/71 | 57.9 | 47.2 | 74.3 | 5.03 | 11.5 |

## GC072 HEATING PERFORMANCE - PART LOAD

| GC072 Heating performance – PART LOAD @ 1850CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air ° F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 9 | 2.3 | 1.0 | 60 | 39.9 | 29.3 | 3.05 | 3.8 |
| | | | | 70 | 38.9 | 26.8 | 3.38 | 3.4 |
| | | | | 80 | 37.5 | 24.5 | 3.76 | 2.9 |
| | 12 | 3.9 | 1.7 | 60 | 40.0 | 30.1 | 3.05 | 3.8 |
| | | | | 70 | 39.4 | 28.9 | 3.39 | 3.4 |
| | | | | 80 | 38.9 | 25.9 | 3.78 | 3.0 |
| | 18 | 8.2 | 3.6 | 60 | 42.2 | 30.5 | 3.06 | 4.0 |
| | | | | 70 | 40.9 | 29.6 | 3.40 | 3.5 |
| | | | | 80 | 40.0 | 27.4 | 3.80 | 3.1 |
| 40 | 9 | 2.3 | 1.0 | 60 | 45.2 | 35.1 | 3.09 | 4.3 |
| | | | | 70 | 44.3 | 32.5 | 3.44 | 3.8 |
| | | | | 80 | 43.1 | 31.7 | 3.83 | 3.3 |
| | 12 | 3.8 | 1.6 | 60 | 46.8 | 36.3 | 3.10 | 4.4 |
| | | | | 70 | 44.9 | 33.0 | 3.44 | 3.8 |
| | | | | 80 | 45.1 | 32.1 | 3.84 | 3.4 |
| | 18 | 7.9 | 3.4 | 60 | 45.7 | 38.3 | 3.06 | 4.4 |
| | | | | 70 | 46.8 | 34.8 | 3.46 | 4.0 |
| | | | | 80 | 45.7 | 32.8 | 3.85 | 3.5 |
| 50 | 9 | 2.2 | 1.0 | 60 | 51.4 | 41.2 | 3.14 | 4.8 |
| | | | | 70 | 50.3 | 38.1 | 3.48 | 4.2 |
| | | | | 80 | 49.8 | 36.6 | 3.89 | 3.8 |
| | 12 | 3.7 | 1.6 | 60 | 53.2 | 42.9 | 3.15 | 5.0 |
| | | | | 70 | 52.3 | 40.7 | 3.51 | 4.4 |
| | | | | 80 | 50.8 | 39.9 | 3.91 | 3.8 |
| | 18 | 7.6 | 3.3 | 60 | 55.3 | 44.8 | 3.16 | 5.1 |
| | | | | 70 | 53.8 | 42.1 | 3.52 | 4.5 |
| | | | | 80 | 52.0 | 38.4 | 3.91 | 3.9 |
| 60 | 9 | 2.1 | 0.9 | 60 | 58.2 | 47.3 | 3.18 | 5.4 |
| | | | | 70 | 56.9 | 44.6 | 3.55 | 4.7 |
| | | | | 80 | 55.8 | 41.9 | 3.95 | 4.1 |
| | 12 | 3.5 | 1.5 | 60 | 60.4 | 49.3 | 3.19 | 5.6 |
| | | | | 70 | 58.8 | 47.0 | 3.56 | 4.8 |
| | | | | 80 | 58.8 | 45.1 | 3.98 | 4.3 |
| | 18 | 7.3 | 3.2 | 60 | 63.1 | 52.0 | 3.21 | 5.8 |
| | | | | 70 | 58.1 | 47.7 | 3.51 | 4.9 |
| | | | | 80 | 59.3 | 45.4 | 3.99 | 4.4 |
| 70 | 9 | 2 | 0.9 | 60 | 65.3 | 54.3 | 3.22 | 5.9 |
| | | | | 70 | 63.7 | 51.4 | 3.61 | 5.2 |
| | | | | 80 | 62.1 | 48.8 | 4.02 | 4.5 |
| | 12 | 3.4 | 1.5 | 60 | 67.6 | 57.3 | 3.24 | 6.1 |
| | | | | 70 | 66.2 | 53.6 | 3.63 | 5.4 |
| | | | | 80 | 66.0 | 50.9 | 4.07 | 4.8 |
| | 18 | 7.1 | 3.1 | 60 | 70.7 | 59.3 | 3.26 | 6.4 |
| | | | | 70 | 68.9 | 55.5 | 3.65 | 5.5 |
| | | | | 80 | 67.3 | 53.7 | 4.09 | 4.8 |
| 80 | 9 | 2 | 0.9 | 60 | 72.6 | 61.5 | 3.28 | 6.5 |
| | | | | 70 | 71.0 | 58.2 | 3.67 | 5.7 |
| | | | | 80 | 70.6 | 57.2 | 4.12 | 5.0 |
| | 12 | 3.3 | 1.4 | 60 | 75.7 | 64.2 | 3.30 | 6.7 |
| | | | | 70 | 73.7 | 60.7 | 3.70 | 5.8 |
| | | | | 80 | 73.3 | 59.2 | 4.15 | 5.2 |
| | 18 | 6.9 | 3.0 | 60 | 78.9 | 68.0 | 3.32 | 7.0 |
| | | | | 70 | 76.6 | 64.8 | 3.73 | 6.0 |
| | | | | 80 | 70.0 | 66.5 | 4.09 | 5.0 |

## GC072 HEATING PERFORMANCE - FULL LOAD

| GC072 Heating performance – Full Load @ 2350CFM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Entering Water, °F | Water flow, GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Ent. Air °F | Total Btu/hr. | Ht. Abs. Btu/hr. | Unit kW | COP |
| 30 | 9 | 2.3 | 1.0 | 60 | 52.6 | 38.2 | 4.16 | 3.7 |
| | | | | 70 | 51.6 | 35.9 | 4.56 | 3.3 |
| | | | | 80 | 51.1 | 34.0 | 4.99 | 3.0 |
| | 12 | 3.9 | 1.7 | 60 | 54.0 | 39.6 | 4.19 | 3.8 |
| | | | | 70 | 53.2 | 37.6 | 4.59 | 3.4 |
| | | | | 80 | 52.8 | 35.7 | 5.03 | 3.1 |
| | 18 | 8.2 | 3.6 | 60 | 55.8 | 41.8 | 4.24 | 3.9 |
| | | | | 70 | 55.4 | 40.3 | 4.64 | 3.5 |
| | | | | 80 | 54.5 | 37.2 | 5.07 | 3.2 |
| 40 | 9 | 2.3 | 1.0 | 60 | 59.3 | 44.5 | 4.29 | 4.0 |
| | | | | 70 | 58.5 | 42.3 | 4.70 | 3.7 |
| | | | | 80 | 57.9 | 40.1 | 5.14 | 3.3 |
| | 12 | 3.8 | 1.6 | 60 | 61.7 | 46.6 | 4.33 | 4.2 |
| | | | | 70 | 60.8 | 44.6 | 4.74 | 3.8 |
| | | | | 80 | 60.2 | 42.0 | 5.19 | 3.4 |
| | 18 | 7.9 | 3.4 | 60 | 64.3 | 49.3 | 4.38 | 4.3 |
| | | | | 70 | 63.1 | 47.1 | 4.79 | 3.9 |
| | | | | 80 | 62.4 | 43.4 | 5.23 | 3.5 |
| 50 | 9 | 2.2 | 1.0 | 60 | 67.3 | 52.1 | 4.44 | 4.4 |
| | | | | 70 | 66.4 | 49.9 | 4.85 | 4.0 |
| | | | | 80 | 65.3 | 46.9 | 5.31 | 3.6 |
| | 12 | 3.7 | 1.6 | 60 | 69.9 | 54.4 | 4.48 | 4.6 |
| | | | | 70 | 68.7 | 51.8 | 4.90 | 4.1 |
| | | | | 80 | 67.7 | 49.1 | 5.36 | 3.7 |
| | 18 | 7.6 | 3.3 | 60 | 73.2 | 58.0 | 4.55 | 4.7 |
| | | | | 70 | 71.9 | 54.7 | 4.96 | 4.2 |
| | | | | 80 | 70.2 | 51.5 | 5.42 | 3.8 |
| 60 | 9 | 2.1 | 0.9 | 60 | 75.7 | 59.7 | 4.59 | 4.8 |
| | | | | 70 | 74.6 | 57.1 | 5.01 | 4.4 |
| | | | | 80 | 73.6 | 54.6 | 5.49 | 3.9 |
| | 12 | 3.5 | 1.5 | 60 | 78.8 | 62.8 | 4.65 | 5.0 |
| | | | | 70 | 77.4 | 59.8 | 5.08 | 4.5 |
| | | | | 80 | 76.1 | 56.8 | 5.55 | 4.0 |
| | 18 | 7.3 | 3.2 | 60 | 82.7 | 66.8 | 4.73 | 5.1 |
| | | | | 70 | 79.0 | 61.1 | 5.12 | 4.5 |
| | | | | 80 | 79.5 | 60.1 | 5.62 | 4.1 |
| 70 | 9 | 2 | 0.9 | 60 | 84.2 | 67.8 | 4.75 | 5.2 |
| | | | | 70 | 82.6 | 64.7 | 5.19 | 4.7 |
| | | | | 80 | 81.4 | 61.8 | 5.67 | 4.2 |
| | 12 | 3.4 | 1.5 | 60 | 88.6 | 72.2 | 4.84 | 5.4 |
| | | | | 70 | 86.9 | 69.2 | 5.27 | 4.8 |
| | | | | 80 | 84.8 | 64.9 | 5.74 | 4.3 |
| | 18 | 7.1 | 3.1 | 60 | 92.8 | 75.8 | 4.92 | 5.5 |
| | | | | 70 | 90.9 | 72.2 | 5.36 | 5.0 |
| | | | | 80 | 88.6 | 68.8 | 5.83 | 4.5 |
| 80 | 9 | 2 | 0.9 | 60 | 93.3 | 76.4 | 4.93 | 5.5 |
| | | | | 70 | 91.6 | 73.1 | 5.37 | 5.0 |
| | | | | 80 | 90.0 | 69.7 | 5.86 | 4.5 |
| | 12 | 3.3 | 1.4 | 60 | 97.9 | 80.6 | 5.03 | 5.7 |
| | | | | 70 | 95.8 | 77.0 | 5.46 | 5.1 |
| | | | | 80 | 94.5 | 74.0 | 5.96 | 4.6 |
| | 18 | 6.9 | 3.0 | 60 | 103.2 | 85.5 | 5.13 | 5.9 |
| | | | | 70 | 100.7 | 81.4 | 5.57 | 5.3 |
| | | | | 80 | 98.2 | 77.3 | 6.05 | 4.8 |

# GC072 COOLING PERFORMANCE - PART LOAD

| GC072 Cooling performance – PART LOAD @ 1850 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 9 | 2.1 | 0.9 | 75/63 | 58.7 | 45.7 | 66.2 | 2.28 | 25.7 |
| | | | | 80/67 | 62.5 | 47.1 | 70.0 | 2.28 | 27.4 |
| | | | | 85/71 | 66.4 | 48.4 | 73.9 | 2.27 | 29.2 |
| | 12 | 3.5 | 1.5 | 75/63 | 59.8 | 46.2 | 67.0 | 2.18 | 27.4 |
| | | | | 80/67 | 63.9 | 47.5 | 71.0 | 2.17 | 29.5 |
| | | | | 85/71 | 67.9 | 48.8 | 75.1 | 2.15 | 31.6 |
| | 18 | 7.3 | 3.2 | 75/63 | 61.1 | 46.6 | 68.0 | 2.08 | 29.4 |
| | | | | 80/67 | 65.1 | 48.1 | 71.9 | 2.05 | 31.7 |
| | | | | 85/71 | 69.5 | 49.3 | 76.2 | 2.03 | 34.3 |
| 60 | 9 | 2 | 0.9 | 75/63 | 55.9 | 44.6 | 64.3 | 2.55 | 21.9 |
| | | | | 80/67 | 59.6 | 46.0 | 68.0 | 2.55 | 23.4 |
| | | | | 85/71 | 63.5 | 47.2 | 71.9 | 2.54 | 24.9 |
| | 12 | 3.4 | 1.5 | 75/63 | 57.1 | 44.9 | 65.1 | 2.44 | 23.4 |
| | | | | 80/67 | 61.0 | 46.4 | 68.9 | 2.43 | 25.1 |
| | | | | 85/71 | 64.9 | 47.7 | 72.9 | 2.42 | 26.8 |
| | 18 | 7.1 | 3.1 | 75/63 | 58.2 | 45.5 | 65.8 | 2.33 | 25.0 |
| | | | | 80/67 | 62.1 | 46.9 | 69.8 | 2.31 | 26.9 |
| | | | | 85/71 | 66.2 | 48.3 | 73.8 | 2.29 | 28.9 |
| 70 | 9 | 2 | 0.9 | 75/63 | 53.1 | 43.4 | 62.3 | 2.85 | 18.6 |
| | | | | 80/67 | 56.7 | 44.8 | 66.0 | 2.85 | 19.9 |
| | | | | 85/71 | 60.3 | 46.2 | 69.6 | 2.85 | 21.1 |
| | 12 | 3.3 | 1.4 | 75/63 | 54.2 | 43.8 | 63.0 | 2.73 | 19.8 |
| | | | | 80/67 | 57.8 | 45.3 | 66.7 | 2.73 | 21.2 |
| | | | | 85/71 | 61.6 | 46.7 | 70.5 | 2.72 | 22.6 |
| | 18 | 6.9 | 3.0 | 75/63 | 55.3 | 44.2 | 63.9 | 2.62 | 21.1 |
| | | | | 80/67 | 59.1 | 45.7 | 67.6 | 2.60 | 22.7 |
| | | | | 85/71 | 63.1 | 47.0 | 71.6 | 2.59 | 24.4 |
| 80 | 9 | 1.9 | 0.8 | 75/63 | 50.3 | 42.1 | 60.6 | 3.19 | 15.8 |
| | | | | 80/67 | 53.7 | 43.6 | 64.1 | 3.19 | 16.8 |
| | | | | 85/71 | 57.2 | 45.0 | 67.7 | 3.20 | 17.9 |
| | 12 | 3.2 | 1.4 | 75/63 | 51.3 | 42.5 | 61.2 | 3.07 | 16.7 |
| | | | | 80/67 | 54.7 | 44.1 | 64.7 | 3.06 | 17.8 |
| | | | | 85/71 | 58.3 | 45.5 | 68.3 | 3.06 | 19.0 |
| | 18 | 6.6 | 2.9 | 75/63 | 52.3 | 42.9 | 61.9 | 2.95 | 17.7 |
| | | | | 80/67 | 55.9 | 44.5 | 65.4 | 2.94 | 19.0 |
| | | | | 85/71 | 59.6 | 46.0 | 69.2 | 2.92 | 20.4 |
| 85 | 9 | 1.9 | 0.8 | 75/63 | 48.8 | 41.5 | 59.7 | 3.37 | 14.5 |
| | | | | 80/67 | 52.1 | 43.1 | 63.0 | 3.38 | 15.4 |
| | | | | 85/71 | 55.4 | 44.5 | 66.4 | 3.39 | 16.3 |
| | 12 | 3.1 | 1.3 | 75/63 | 49.7 | 42.0 | 60.2 | 3.25 | 15.3 |
| | | | | 80/67 | 53.2 | 43.4 | 63.8 | 3.25 | 16.4 |
| | | | | 85/71 | 56.7 | 45.0 | 67.3 | 3.25 | 17.4 |
| | 18 | 6.5 | 2.8 | 75/63 | 50.7 | 42.4 | 60.8 | 3.13 | 16.2 |
| | | | | 80/67 | 54.3 | 43.9 | 64.4 | 3.12 | 17.4 |
| | | | | 85/71 | 57.9 | 45.4 | 68.1 | 3.11 | 18.6 |
| 90 | 9 | 1.8 | 0.8 | 75/63 | 47.4 | 40.9 | 58.9 | 3.57 | 13.3 |
| | | | | 80/67 | 50.6 | 42.4 | 62.2 | 3.58 | 14.1 |
| | | | | 85/71 | 53.9 | 44.0 | 65.5 | 3.59 | 15.0 |
| | 12 | 3.1 | 1.3 | 75/63 | 48.2 | 41.4 | 59.3 | 3.45 | 14.0 |
| | | | | 80/67 | 51.5 | 42.9 | 62.7 | 3.45 | 14.9 |
| | | | | 85/71 | 54.9 | 44.3 | 66.1 | 3.45 | 15.9 |
| | 18 | 6.4 | 2.8 | 75/63 | 49.2 | 41.7 | 59.9 | 3.32 | 14.8 |
| | | | | 80/67 | 52.7 | 43.2 | 63.5 | 3.31 | 15.9 |
| | | | | 85/71 | 56.2 | 44.8 | 67.0 | 3.30 | 17.0 |
| 100 | 9 | 1.8 | 0.8 | 75/63 | 44.2 | 39.8 | 57.1 | 4.01 | 11.0 |
| | | | | 80/67 | 47.3 | 41.3 | 60.3 | 4.01 | 11.8 |
| | | | | 85/71 | 50.5 | 42.8 | 63.5 | 4.03 | 12.5 |
| | 12 | 3 | 1.3 | 75/63 | 45.2 | 40.0 | 57.7 | 3.88 | 11.6 |
| | | | | 80/67 | 48.4 | 41.7 | 60.9 | 3.88 | 12.5 |
| | | | | 85/71 | 51.6 | 43.2 | 64.2 | 3.88 | 13.3 |
| | 18 | 6.2 | 2.7 | 75/63 | 46.0 | 40.5 | 58.1 | 3.75 | 12.3 |
| | | | | 80/67 | 49.3 | 42.0 | 61.4 | 3.74 | 13.2 |
| | | | | 85/71 | 52.8 | 43.6 | 64.9 | 3.73 | 14.1 |
| 110 | 9 | 1.7 | 0.7 | 75/63 | 41.1 | 38.4 | 55.5 | 4.51 | 9.1 |
| | | | | 80/67 | 44.1 | 40.1 | 58.6 | 4.50 | 9.8 |
| | | | | 85/71 | 47.4 | 41.8 | 61.9 | 4.48 | 10.6 |
| | 12 | 2.9 | 1.3 | 75/63 | 41.9 | 38.8 | 56.0 | 4.37 | 9.6 |
| | | | | 80/67 | 45.1 | 40.4 | 59.2 | 4.37 | 10.3 |
| | | | | 85/71 | 48.4 | 42.1 | 62.4 | 4.34 | 11.1 |
| | 18 | 6.1 | 2.6 | 75/63 | 42.8 | 39.1 | 56.4 | 4.24 | 10.1 |
| | | | | 80/67 | 45.9 | 40.8 | 59.5 | 4.23 | 10.9 |
| | | | | 85/71 | 49.3 | 42.4 | 62.9 | 4.20 | 11.7 |

# GC072 COOLING PERFORMANCE - FULL LOAD

| GC072 Cooling performance – Full Load @ 2350 CFM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Entering Water °F | Water flow GPM | Pressure Drop Ft. Water | Pressure Drop (Psi) | Cooling | | | | | |
| | | | | Ent. Air db/wb,° F | Total Btu/hr. | Sensible Btu/hr. | Ht. Rej. Btu/hr. | Unit kW | EER |
| 50 | 9 | 2.1 | 0.9 | 75/63 | 74.7 | 56.2 | 86.9 | 3.69 | 20.2 |
| | | | | 80/67 | 79.4 | 58.1 | 91.8 | 3.74 | 21.2 |
| | | | | 85/71 | 84.4 | 59.7 | 97.0 | 3.79 | 22.2 |
| | 12 | 3.5 | 1.5 | 75/63 | 76.3 | 56.9 | 88.1 | 3.54 | 21.6 |
| | | | | 80/67 | 81.4 | 58.5 | 93.3 | 3.59 | 22.7 |
| | | | | 85/71 | 86.5 | 60.5 | 98.6 | 3.63 | 23.9 |
| | 18 | 7.3 | 3.2 | 75/63 | 78.1 | 57.6 | 89.3 | 3.38 | 23.1 |
| | | | | 80/67 | 83.4 | 59.3 | 94.8 | 3.42 | 24.4 |
| | | | | 85/71 | 88.9 | 60.9 | 100.5 | 3.46 | 25.7 |
| 60 | 9 | 2 | 0.9 | 75/63 | 71.6 | 54.8 | 84.7 | 3.99 | 18.0 |
| | | | | 80/67 | 76.1 | 56.8 | 89.4 | 4.03 | 18.9 |
| | | | | 85/71 | 81.1 | 58.2 | 94.6 | 4.08 | 19.9 |
| | 12 | 3.4 | 1.5 | 75/63 | 73.2 | 55.5 | 85.8 | 3.83 | 19.1 |
| | | | | 80/67 | 78.1 | 57.2 | 90.9 | 3.87 | 20.2 |
| | | | | 85/71 | 83.2 | 58.8 | 96.2 | 3.91 | 21.3 |
| | 18 | 7.1 | 3.1 | 75/63 | 74.9 | 56.3 | 87.0 | 3.67 | 20.4 |
| | | | | 80/67 | 79.8 | 58.3 | 92.1 | 3.70 | 21.5 |
| | | | | 85/71 | 85.1 | 60.0 | 97.6 | 3.73 | 22.8 |
| 70 | 9 | 2 | 0.9 | 75/63 | 68.4 | 53.4 | 82.5 | 4.32 | 15.8 |
| | | | | 80/67 | 72.7 | 55.5 | 87.1 | 4.36 | 16.7 |
| | | | | 85/71 | 77.4 | 57.0 | 92.0 | 4.41 | 17.6 |
| | 12 | 3.3 | 1.4 | 75/63 | 69.8 | 54.4 | 83.4 | 4.15 | 16.8 |
| | | | | 80/67 | 74.4 | 56.2 | 88.3 | 4.19 | 17.7 |
| | | | | 85/71 | 79.3 | 58.0 | 93.2 | 4.22 | 18.8 |
| | 18 | 6.9 | 3.0 | 75/63 | 71.5 | 54.8 | 84.7 | 3.99 | 17.9 |
| | | | | 80/67 | 76.3 | 56.9 | 89.5 | 4.02 | 19.0 |
| | | | | 85/71 | 81.6 | 58.2 | 95.0 | 4.05 | 20.1 |
| 80 | 9 | 1.9 | 0.8 | 75/63 | 64.9 | 52.3 | 80.2 | 4.69 | 13.8 |
| | | | | 80/67 | 69.2 | 54.0 | 84.8 | 4.74 | 14.6 |
| | | | | 85/71 | 73.8 | 55.5 | 89.5 | 4.78 | 15.4 |
| | 12 | 3.2 | 1.4 | 75/63 | 66.5 | 52.7 | 81.3 | 4.52 | 14.7 |
| | | | | 80/67 | 70.8 | 54.8 | 85.8 | 4.55 | 15.5 |
| | | | | 85/71 | 75.3 | 57.1 | 90.4 | 4.58 | 16.4 |
| | 18 | 6.6 | 2.9 | 75/63 | 68.0 | 53.3 | 82.3 | 4.35 | 15.6 |
| | | | | 80/67 | 72.6 | 55.4 | 87.0 | 4.38 | 16.6 |
| | | | | 85/71 | 77.5 | 57.1 | 92.0 | 4.40 | 17.6 |
| 85 | 9 | 1.9 | 0.8 | 75/63 | 63.3 | 51.6 | 79.3 | 4.88 | 13.0 |
| | | | | 80/67 | 67.4 | 53.5 | 83.6 | 4.93 | 13.7 |
| | | | | 85/71 | 71.7 | 55.2 | 88.1 | 4.98 | 14.4 |
| | 12 | 3.1 | 1.3 | 75/63 | 64.8 | 51.9 | 80.2 | 4.72 | 13.7 |
| | | | | 80/67 | 69.0 | 54.1 | 84.6 | 4.75 | 14.5 |
| | | | | 85/71 | 73.6 | 55.6 | 89.4 | 4.78 | 15.4 |
| | 18 | 6.5 | 2.8 | 75/63 | 66.2 | 52.5 | 81.2 | 4.55 | 14.5 |
| | | | | 80/67 | 70.8 | 54.3 | 85.9 | 4.58 | 15.5 |
| | | | | 85/71 | 75.4 | 56.6 | 90.5 | 4.59 | 16.4 |
| 90 | 9 | 1.8 | 0.8 | 75/63 | 61.6 | 51.0 | 78.3 | 5.09 | 12.1 |
| | | | | 80/67 | 65.7 | 52.8 | 82.6 | 5.14 | 12.8 |
| | | | | 85/71 | 69.9 | 54.5 | 86.9 | 5.18 | 13.5 |
| | 12 | 3.1 | 1.3 | 75/63 | 63.0 | 51.6 | 79.1 | 4.92 | 12.8 |
| | | | | 80/67 | 67.2 | 53.4 | 83.5 | 4.96 | 13.6 |
| | | | | 85/71 | 71.5 | 55.4 | 87.9 | 4.99 | 14.3 |
| | 18 | 6.4 | 2.8 | 75/63 | 64.4 | 51.9 | 79.9 | 4.76 | 13.5 |
| | | | | 80/67 | 68.8 | 54.0 | 84.5 | 4.78 | 14.4 |
| | | | | 85/71 | 73.5 | 55.5 | 89.4 | 4.80 | 15.3 |
| 100 | 9 | 1.8 | 0.8 | 75/63 | 58.3 | 49.6 | 76.4 | 5.55 | 10.5 |
| | | | | 80/67 | 62.2 | 51.5 | 80.5 | 5.60 | 11.1 |
| | | | | 85/71 | 66.1 | 53.2 | 84.7 | 5.64 | 11.7 |
| | 12 | 3 | 1.3 | 75/63 | 59.5 | 50.2 | 77.1 | 5.37 | 11.1 |
| | | | | 80/67 | 63.6 | 52.0 | 81.3 | 5.41 | 11.8 |
| | | | | 85/71 | 67.8 | 53.7 | 85.6 | 5.44 | 12.5 |
| | 18 | 6.2 | 2.7 | 75/63 | 60.9 | 50.5 | 77.9 | 5.20 | 11.7 |
| | | | | 80/67 | 65.1 | 52.4 | 82.3 | 5.22 | 12.5 |
| | | | | 85/71 | 69.5 | 54.2 | 86.7 | 5.25 | 13.2 |
| 110 | 9 | 1.7 | 0.7 | 75/63 | 54.9 | 48.1 | 74.8 | 6.10 | 9.0 |
| | | | | 80/67 | 58.4 | 50.1 | 78.5 | 6.14 | 9.5 |
| | | | | 85/71 | 64.9 | 43.2 | 85.3 | 6.21 | 10.4 |
| | 12 | 2.9 | 1.3 | 75/63 | 56.1 | 48.6 | 75.3 | 5.90 | 9.5 |
| | | | | 80/67 | 60.0 | 50.1 | 79.4 | 5.93 | 10.1 |
| | | | | 85/71 | 64.6 | 50.1 | 84.2 | 5.97 | 10.8 |
| | 18 | 6.1 | 2.6 | 75/63 | 57.1 | 49.5 | 75.7 | 5.71 | 10.0 |
| | | | | 80/67 | 61.3 | 50.9 | 80.1 | 5.74 | 10.7 |
| | | | | 85/71 | 65.3 | 53.0 | 84.1 | 5.75 | 11.3 |

## ANTI-FREEZE CORRECTION TABLE

| Antifreeze Type | Antifreeze % volume | Cooling | | | Heating | | WPD Correction Factor EWT 30ºF |
|---|---|---|---|---|---|---|---|
| | | EWT 90 ºF | | | EWT 30 ºF | | |
| | | Total Cap. | Sens. Cap | Power | Htg. Cap | Power | |
| **Water** | 0 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| **Propylene Glycol** | 5 | 0.997 | 0.997 | 1.004 | 0.989 | 0.997 | 1.060 |
| | 10 | 0.994 | 0.994 | 1.006 | 0.986 | 0.995 | 1.125 |
| | 15 | 0.990 | 0.990 | 1.009 | 0.978 | 0.988 | 1.190 |
| | 25 | 0.983 | 0.983 | 1.016 | 0.960 | 0.979 | 1.300 |
| | | | | | | | |
| **Methanol** | 5 | 0.997 | 0.997 | 1.003 | 0.990 | 0.997 | 1.060 |
| | 10 | 0.996 | 0.996 | 1.005 | 0.979 | 0.993 | 1.100 |
| | 15 | 0.994 | 0.994 | 1.008 | 0.970 | 0.990 | 1.140 |
| | | | | | | | |
| | | | | | | | |
| **Ethanol** | 5 | 0.998 | 0.998 | 1.002 | 0.981 | 0.994 | 1.160 |
| | 10 | 0.996 | 0.996 | 1.004 | 0.960 | 0.988 | 1.230 |
| | 15 | 0.992 | 0.992 | 1.006 | 0.944 | 0.983 | 1.280 |
| | 25 | 0.986 | 0.986 | 1.009 | 0.917 | 0.974 | 1.400 |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