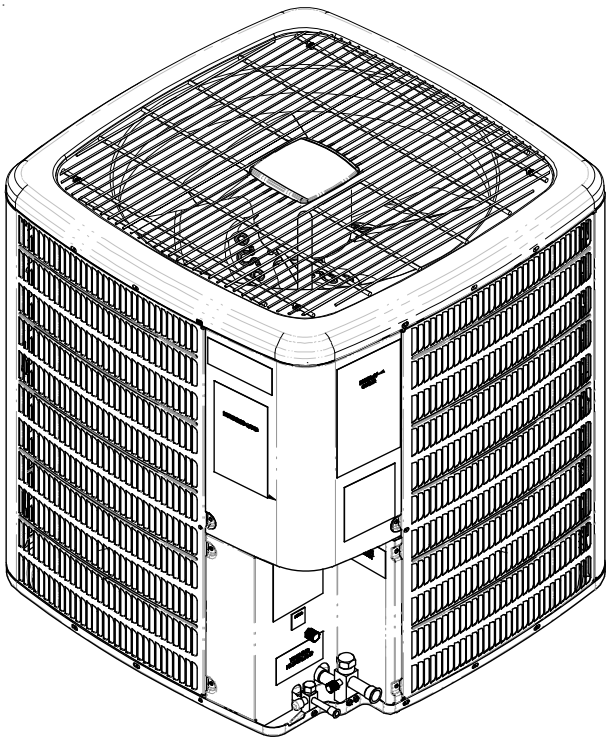
# TECHNICAL MANUAL

## *SXC 18 SEER
## Condensing Units

- Refer to Service Manual RS6200006* for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- See models on page 3.



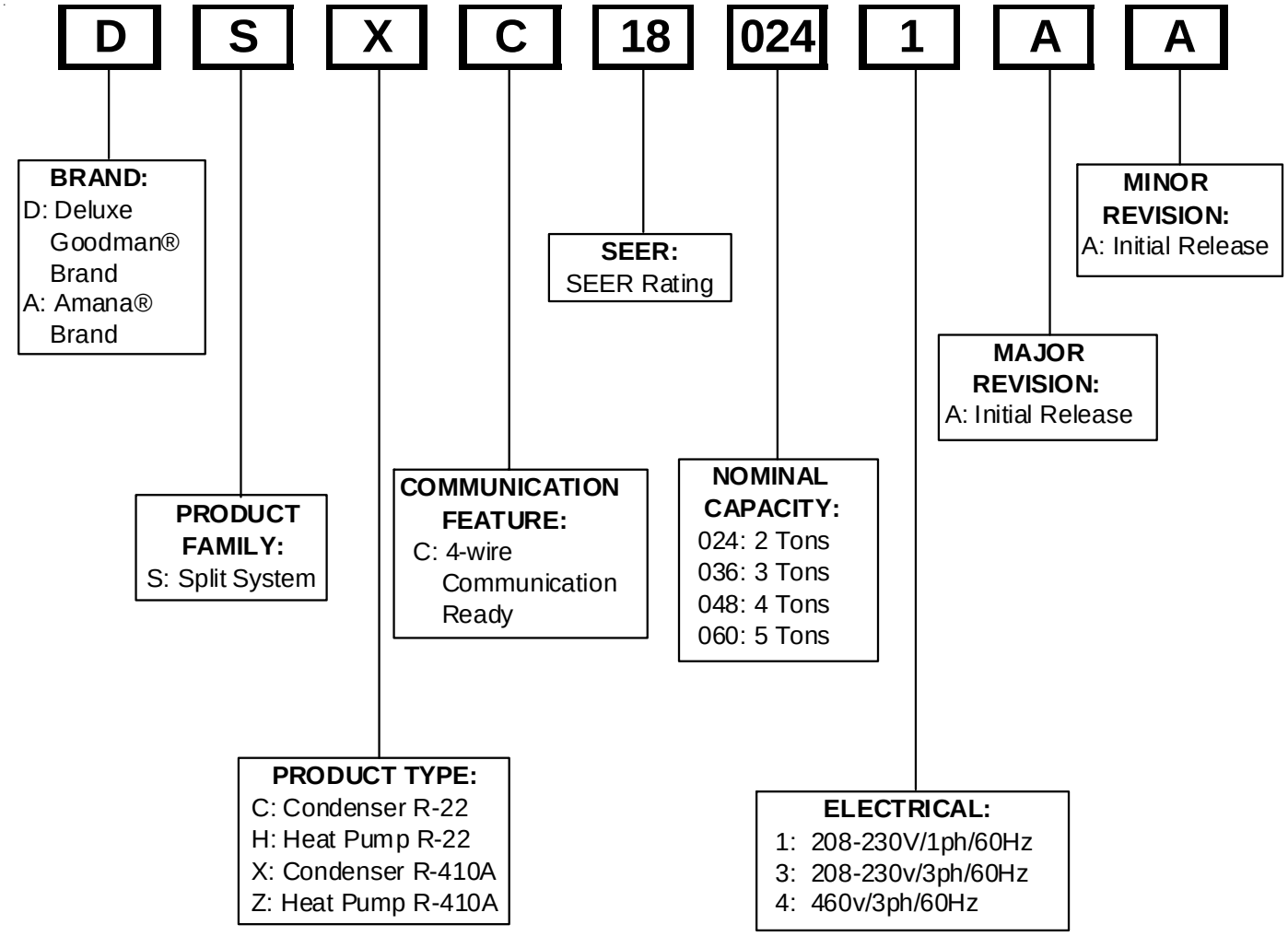
ComfortNet CONTROL SYSTEM

This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6114005r4
October 2012

# PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.




**⚠ WARNING**

**HIGH VOLTAGE!**

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

**⚠ WARNING** **Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.**

**⚠ WARNING** **Installation and repair of this unit should be performed ONLY by individuals meeting the requirements (at a minimum) of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.**

# PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

| | |
|---|---|
| ASXC180361A* | DSXC180361A* |
| ASXC180481A* | DSXC180481A* |
| ASXC180601A* | DSXC180601A* |

** Indicates minor revision & is not used for order entry or inventory management*

**⚠ WARNING** **The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.**

**⚠ WARNING** **Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.**

**⚠ WARNING** **To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.**

# PRODUCT DESIGN

Models covered by this manual come with a new 4-wire communicating PCB. When paired with a compatible communicating indoor unit and a communicating thermostat, these models can support 4-wire communication protocol and provide more troubleshooting information. These models are also backward compatible with the legacy thermostat wiring.

*SXC18 models are available in 3, 4 and 5 ton sizes and use R-410A refrigerant. They are designed for 208/230 volt single phase applications.

The condenser air is pulled through the condenser coil by a direct drive propeller fan. This condenser air is then discharged out of the top of the cabinet.

These units are designed for free air discharge, so no additional resistance like duct work shall be attached.

The suction and liquid line connections on present models are of the sweat type for field piping with refrigerant type copper. Front seating valves are factory installed to accept the field run copper. The total refrigerant charge for a normal installation is factory installed in the condensing unit. *SXC units are charged for the matching evaporator coil and a 15 foot refrigerant line set.

Systems should be properly sized by heat gain and loss calculations made according to methods of the Air Conditioning Contractors Association (ACCA) or equivalent. It is the contractors responsibility to ensure the system has adequate capacity to heat or cool the conditioned space.

*SXC18 models use the Copeland Scroll "Ultratech" Series compressors which are specifically designed for R-410A refrigerant. There are a number of design characteristics which are different from the traditional reciprocating and/or scroll compressors.

"Ultratech" Series scroll compressors with Copeland® ComfortAlert diagnostics will not have a discharge thermostat, some of the early model scroll compressors required discharge thermostats.

Due to their design Scroll compressors are inherently more tolerant of small quantities of liquid refrigerant.

***NOTE:*** *Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.*

"Ultratech" Series scroll compressors use "POE" or polyolester oil which is **NOT** compatible with mineral oil based lubricants like 3GS. "POE" oil must be used if additional oil is required.

**⚠ WARNING**

**To avoid possible injury, explosion or death, practice safe handling of refrigerants.**

Operating pressures and amp draws may differ from standard reciprocating and/or scroll compressors. This information may be found in the "Cooling Performance Data" section.

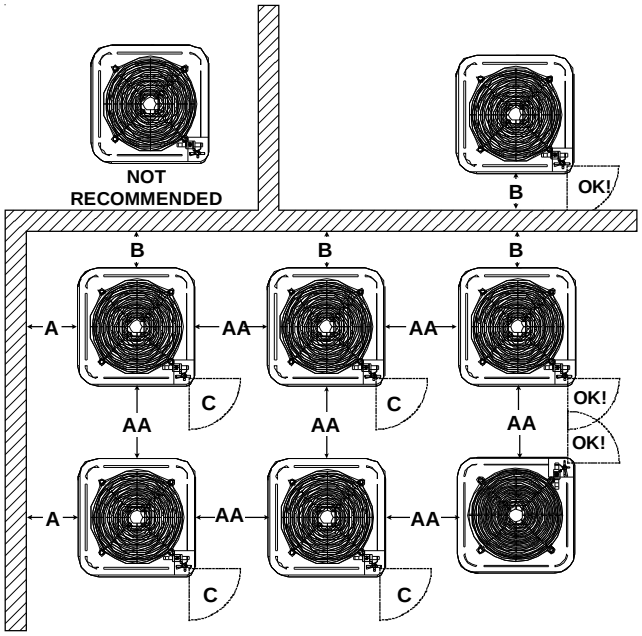
This unit is for outdoor installation only. Refer to figure for minimum clearances from the sides of the unit to full walls and other objects.

**NOTE:** This unit cannot be completely enclosed. At least one side must be unrestricted.

These clearances will help avoid air recirculation. If installing two or more units at the same location, allow at least 24 inches between units. If only one side is restricted (for example, against the outside wall of a house), the unit may be placed as close as 8" to that one wall.

DO **NOT** locate the unit:

* Directly under a vent termination for a gas appliance.
* Within 3 feet of a clothes drier vent
* Where the refreezing of defrost water would create a hazard
* Where water may rise into the unit.




| Minimum Airflow Clearance | | | | |
|---|---|---|---|---|
| **Model Type** | **A** | **B** | **C** | **AA** |
| **Residential** | 10" | 10" | 18" | 20" |
| **Light Commercial** | 12" | 12" | 18" | 24" |

# CONDENSING UNIT SPECIFICATIONS

## Dimensions

| Model | Dimensions - W x D x H |
|---|---|
| *SXC180361A* | **35½ x 35½ x 38¼** |
| *SXC180481A* | **35½ x 35½ x 38¼** |

## *SXC180361A* - *SXC180481A*

| | *SXC180361A* | *SXC180361AC | *SXC180481A* | *SXC180481AC |
|---|---|---|---|---|
| Cooling Capacity, BTUH | 36,000 | 36,000 | 48,000 | 48,000 |
| Compressor | | | | |
| R.L. Amps | 16.7 | 15.3 | 21.2 | 21.2 |
| L.R. Amps | 82.0 | 83.0 | 96.0 | 104.0 |
| Low Pressure Switch | | | | |
| Open | 22 + / - 7 PSIG | 22 + / - 7 PSIG | 22 + / - 7 PSIG | 22 + / - 7 PSIG |
| Close | 50 + / - 7 PSIG | 50 + / - 7 PSIG | 50 + / - 7 PSIG | 50 + / - 7 PSIG |
| High Pressure Switch | | | | |
| Open | 610 PSIG | 610 PSIG | 610 PSIG | 610 PSIG |
| Close | 420 PSIG | 420 PSIG | 420 PSIG | 420 PSIG |
| Condenser Fan Motor | | | | |
| Horsepower | 1/3 | 1/3 | 1/3 | 1/3 |
| F.L. Amps | 2.8 | 2.8 | 2.8 | 2.8 |
| Liquid Line, Inches O.D.* | 3/8" | 3/8" | 3/8" | 3/8" |
| Suction Line, Inches O.D.* | 7/8" | 7/8" | 1 1/8" | 1 1/8" |
| Refrigerant Charge | 187.0 | 187.0 | 262.0 | 262.0 |
| Power Supply | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
| Minimum Circuit Ampacity(1) | 23.7 | 21.9 | 29.3 | 29.3 |
| Maximum Overcurrent Device(2) | 40 | 35 | 50 | 50 |
| Electrical Conduit Size | | | | |
| Power Supply (Inches) | 1/2 or 3/4 | 1/2 or 3/4 | 1/2 or 3/4 | 1/2 or 3/4 |
| Approximate Shipping Weight | 270 | 270 | 320 | 320 |

* Up to 24' in equivalent line length

(1) Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

(2) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

**NOTES:**

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

# CONDENSING UNIT SPECIFICATIONS

## Dimensions

| Model | Dimensions - W x D x H |
|---|---|
| *SXC180601A* | 35½ x 35½ x 38¼ |

### *SXC180601A*

| | *SXC180601A* | *SXC180601AC |
|---|---|---|
| Cooling Capacity, BTUH | 60,000 | 60,000 |
| Compressor | | |
| R.L. Amps | 25.6 | 27.1 |
| L.R. Amps | 118.0 | 152.9 |
| Low Pressure Switch | | |
| Open | 22 +/- 7 PSIG | 22 +/- 7 PSIG |
| Close | 50 +/- 7 PSIG | 50 +/- 7 PSIG |
| High Pressure Switch | | |
| Open | 610 PSIG | 610 PSIG |
| Close | 420 PSIG | 420 PSIG |
| Condenser Fan Motor | | |
| Horsepower | 1/3 | 1/3 |
| F.L. Amps | 2.8 | 2.8 |
| Liquid Line, Inches O.D.* | 3/8" | 3/8" |
| Suction Line, Inches O.D.* | 1 1/8" | 1 1/8" |
| Refrigerant Charge | 262.0 | 262.0 |
| Power Supply | 208/230-60-1 | 208/230-60-1 |
| Minimum Circuit Ampacity(1) | 34.8 | 36.7 |
| Maximum Overcurrent Device(2) | 60 | 60 |
| Electrical Conduit Size | | |
| Power Supply (Inches) | 1/2 or 3/4 | 1/2 or 3/4 |
| Approximate Shipping Weight | 330 | 330 |

* Up to 24' in equivalent line length

(1) Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

(2) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

**NOTES:**

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/ circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**MODEL: *SXC180361A* / CA*F4961*6**+TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 720 | MBh | 22.7 | 23.5 | 25.8 | - | 22.2 | 23.0 | 25.2 | - | 21.6 | 22.4 | 24.6 | - | 21.1 | 21.9 | 24.0 | - | 20.1 | 20.8 | 22.8 | - | 18.6 | 19.3 | 21.1 | - |
| | | S/T | 0.70 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.42 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.80 | 0.67 | 0.46 | - |
| | | Delta T | 20 | 18 | 13 | - | 20 | 18 | 13 | - | 20 | 18 | 13 | - | 21 | 18 | 14 | - | 20 | 18 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 1.28 | 1.31 | 1.36 | - | 1.39 | 1.42 | 1.47 | - | 1.48 | 1.52 | 1.57 | - | 1.57 | 1.60 | 1.66 | - | 1.64 | 1.68 | 1.74 | - | 1.70 | 1.74 | 1.80 | - |
| | | AMPS | 5.2 | 5.4 | 5.5 | - | 5.7 | 5.8 | 6.0 | - | 6.2 | 6.3 | 6.5 | - | 6.6 | 6.8 | 7.0 | - | 7.1 | 7.2 | 7.5 | - | 7.5 | 7.7 | 7.9 | - |
| | | HI PR | 206 | 221 | 225 | - | 233 | 250 | 254 | - | 265 | 285 | 289 | - | 302 | 324 | 329 | - | 326 | 350 | 355 | - | 386 | 415 | 421 | - |
| | | LO PR | 122 | 125 | 137 | - | 125 | 129 | 141 | - | 129 | 133 | 146 | - | 133 | 137 | 150 | - | 135 | 140 | 153 | - | 139 | 143 | 156 | - |
| | 825 | MBh | 24.6 | 25.5 | 27.9 | - | 24.0 | 24.9 | 27.3 | - | 23.4 | 24.3 | 26.6 | - | 22.9 | 23.7 | 26.0 | - | 21.7 | 22.5 | 24.7 | - | 20.1 | 20.9 | 22.9 | - |
| | | S/T | 0.72 | 0.60 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.82 | 0.69 | 0.48 | - | 0.83 | 0.69 | 0.48 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 18 | 13 | - | 20 | 17 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 1.29 | 1.32 | 1.37 | - | 1.40 | 1.43 | 1.48 | - | 1.50 | 1.53 | 1.59 | - | 1.58 | 1.62 | 1.68 | - | 1.65 | 1.69 | 1.75 | - | 1.72 | 1.76 | 1.82 | - |
| | | AMPS | 5.3 | 5.4 | 5.6 | - | 5.7 | 5.9 | 6.1 | - | 6.2 | 6.4 | 6.6 | - | 6.7 | 6.8 | 7.1 | - | 7.1 | 7.3 | 7.5 | - | 7.6 | 7.7 | 8.0 | - |
| | | HI PR | 208 | 224 | 227 | - | 235 | 253 | 256 | - | 267 | 288 | 292 | - | 305 | 327 | 332 | - | 329 | 354 | 359 | - | 390 | 419 | 425 | - |
| | | LO PR | 123 | 127 | 138 | - | 126 | 130 | 142 | - | 131 | 135 | 147 | - | 134 | 138 | 151 | - | 137 | 141 | 154 | - | 140 | 145 | 158 | - |
| | 930 | MBh | 25.3 | 26.2 | 28.8 | - | 24.7 | 25.6 | 28.1 | - | 24.1 | 25.0 | 27.4 | - | 23.6 | 24.4 | 26.8 | - | 22.4 | 23.2 | 25.4 | - | 20.7 | 21.5 | 23.5 | - |
| | | S/T | 0.76 | 0.63 | 0.44 | - | 0.79 | 0.66 | 0.45 | - | 0.81 | 0.67 | 0.47 | - | 0.83 | 0.70 | 0.48 | - | 0.86 | 0.72 | 0.50 | - | 0.87 | 0.73 | 0.50 | - |
| | | Delta T | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 15 | 12 | - |
| | | KW | 1.30 | 1.33 | 1.38 | - | 1.41 | 1.45 | 1.50 | - | 1.51 | 1.55 | 1.60 | - | 1.60 | 1.63 | 1.69 | - | 1.67 | 1.71 | 1.77 | - | 1.73 | 1.77 | 1.84 | - |
| | | AMPS | 5.3 | 5.5 | 5.7 | - | 5.8 | 5.9 | 6.1 | - | 6.3 | 6.5 | 6.7 | - | 6.7 | 6.9 | 7.1 | - | 7.2 | 7.4 | 7.6 | - | 7.6 | 7.8 | 8.1 | - |
| | | HI PR | 210 | 226 | 229 | - | 237 | 255 | 259 | - | 270 | 290 | 295 | - | 308 | 331 | 335 | - | 332 | 357 | 362 | - | 394 | 423 | 429 | - |
| | | LO PR | 124 | 128 | 140 | - | 128 | 132 | 144 | - | 132 | 136 | 149 | - | 135 | 140 | 153 | - | 138 | 143 | 156 | - | 142 | 146 | 159 | - |
| 75 | 720 | MBh | 23.1 | 23.8 | 25.7 | 27.6 | 22.5 | 23.2 | 25.1 | 27.0 | 22.0 | 22.7 | 24.5 | 26.3 | 21.5 | **22.1** | 23.9 | 25.7 | 20.4 | 21.0 | 22.7 | 24.4 | 18.9 | 19.5 | 21.1 | 22.6 |
| | | S/T | 0.79 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | **0.78** | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.91 | 0.81 | 0.62 | 0.40 |
| | | Delta T | 23 | 22 | 18 | 12 | 24 | 22 | 18 | 12 | 24 | 22 | 18 | 12 | 24 | **22** | 18 | 12 | 24 | 22 | 18 | 12 | 22 | 20 | 17 | 11 |
| | | KW | 1.28 | 1.31 | 1.36 | 1.40 | 1.39 | 1.42 | 1.47 | 1.52 | 1.48 | 1.52 | 1.57 | 1.63 | 1.57 | **1.60** | 1.66 | 1.72 | 1.64 | 1.68 | 1.74 | 1.80 | 1.70 | 1.74 | 1.80 | 1.87 |
| | | AMPS | 5.2 | 5.4 | 5.5 | 5.8 | 5.7 | 5.8 | 6.0 | 6.2 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | **6.8** | 7.0 | 7.3 | 7.1 | 7.2 | 7.5 | 7.8 | 7.5 | 7.7 | 7.9 | 8.2 |
| | | HI PR | 206 | 221 | 225 | 230 | 233 | 250 | 254 | 259 | 265 | 285 | 289 | 295 | 302 | **324** | 329 | 336 | 326 | 350 | 355 | 363 | 386 | 415 | 421 | 430 |
| | | LO PR | 122 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | **137** | 150 | 159 | 135 | 140 | 153 | 162 | 139 | 143 | 156 | 166 |
| | 825 | MBh | 25.0 | 25.7 | 27.9 | 29.9 | 24.4 | 25.1 | 27.2 | 29.2 | 23.8 | 24.5 | 26.6 | 28.5 | 23.3 | **23.9** | 25.9 | 27.8 | 22.1 | 22.8 | 24.6 | 26.4 | 20.5 | 21.1 | 22.8 | 24.5 |
| | | S/T | 0.82 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | **0.81** | 0.61 | 0.39 | 0.94 | 0.84 | 0.63 | 0.41 | 0.94 | 0.84 | 0.64 | 0.41 |
| | | Delta T | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 18 | 12 | 23 | **22** | 18 | 12 | 23 | 21 | 17 | 12 | 22 | 20 | 16 | 11 |
| | | KW | 1.29 | 1.32 | 1.37 | 1.42 | 1.40 | 1.43 | 1.48 | 1.54 | 1.50 | 1.53 | 1.59 | 1.64 | 1.58 | **1.62** | 1.68 | 1.74 | 1.65 | 1.69 | 1.75 | 1.82 | 1.72 | 1.76 | 1.82 | 1.88 |
| | | AMPS | 5.3 | 5.4 | 5.6 | 5.8 | 5.7 | 5.9 | 6.1 | 6.3 | 6.2 | 6.4 | 6.6 | 6.9 | 6.7 | **6.8** | 7.1 | 7.4 | 7.1 | 7.3 | 7.5 | 7.8 | 7.6 | 7.7 | 8.0 | 8.3 |
| | | HI PR | 208 | 224 | 227 | 232 | 235 | 253 | 256 | 262 | 267 | 288 | 292 | 298 | 305 | **327** | 332 | 339 | 329 | 354 | 359 | 367 | 390 | 419 | 425 | 435 |
| | | LO PR | 123 | 127 | 138 | 147 | 126 | 130 | 142 | 152 | 131 | 135 | 147 | 157 | 134 | **138** | 151 | 161 | 137 | 141 | 154 | 164 | 140 | 145 | 158 | 168 |
| | 930 | MBh | 25.8 | 26.5 | 28.7 | 30.8 | 25.2 | 25.9 | 28.0 | 30.1 | 24.6 | 25.3 | 27.4 | 29.4 | 24.0 | **24.7** | 26.7 | 28.7 | 22.8 | 23.4 | 25.4 | 27.2 | 21.1 | 21.7 | 23.5 | 25.2 |
| | | S/T | 0.86 | 0.77 | 0.58 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95 | **0.85** | 0.64 | 0.41 | 0.98 | 0.88 | 0.66 | 0.43 | 0.99 | 0.89 | 0.67 | 0.43 |
| | | Delta T | 22 | 20 | 17 | 11 | 22 | 20 | 17 | 12 | 22 | 20 | 17 | 12 | 22 | **21** | 17 | 12 | 22 | 20 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 1.30 | 1.33 | 1.38 | 1.43 | 1.41 | 1.45 | 1.50 | 1.55 | 1.51 | 1.55 | 1.60 | 1.66 | 1.60 | **1.63** | 1.69 | 1.75 | 1.67 | 1.71 | 1.77 | 1.83 | 1.73 | 1.77 | 1.84 | 1.90 |
| | | AMPS | 5.3 | 5.5 | 5.7 | 5.9 | 5.8 | 5.9 | 6.1 | 6.4 | 6.3 | 6.5 | 6.7 | 6.9 | 6.7 | **6.9** | 7.1 | 7.4 | 7.2 | 7.4 | 7.6 | 7.9 | 7.6 | 7.8 | 8.1 | 8.4 |
| | | HI PR | 210 | 226 | 229 | 234 | 237 | 255 | 259 | 265 | 270 | 290 | 295 | 301 | 308 | **331** | 335 | 343 | 332 | 357 | 362 | 370 | 394 | 423 | 429 | 439 |
| | | LO PR | 124 | 128 | 140 | 149 | 128 | 132 | 144 | 153 | 132 | 136 | 149 | 158 | 135 | **140** | 153 | 162 | 138 | 143 | 156 | 166 | 142 | 146 | 159 | 170 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**MODEL: *SXC180361A* / CA*F4961*6**+TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 720 | MBh | 23.5 | 24.0 | 25.6 | 27.4 | 22.9 | 23.4 | 25.0 | 26.8 | 22.4 | 22.9 | 24.5 | 26.1 | 21.9 | 22.3 | 23.9 | 25.5 | 20.8 | 21.2 | 22.7 | 24.2 | 19.2 | 19.6 | 21.0 | 22.4 |
| | | S/T | 0.87 | 0.82 | 0.66 | 0.50 | 0.90 | 0.85 | 0.69 | 0.51 | 0.92 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.73 | 0.54 | 0.99 | 0.93 | 0.76 | 0.56 | 1.00 | 0.94 | 0.76 | 0.57 |
| | | Delta T | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 18 | 26 | 25 | 22 | 18 | 27 | 26 | 22 | 18 | 26 | 25 | 22 | 17 | 25 | 24 | 20 | 16 |
| | | KW | 1.28 | 1.31 | 1.36 | 1.40 | 1.39 | 1.42 | 1.47 | 1.52 | 1.48 | 1.52 | 1.57 | 1.63 | 1.57 | 1.60 | 1.66 | 1.72 | 1.64 | 1.68 | 1.74 | 1.80 | 1.70 | 1.74 | 1.80 | 1.87 |
| | | AMPS | 5.2 | 5.4 | 5.5 | 5.8 | 5.7 | 5.8 | 6.0 | 6.2 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.8 | 7.0 | 7.3 | 7.1 | 7.2 | 7.5 | 7.8 | 7.5 | 7.7 | 7.9 | 8.2 |
| | | HI PR | 206 | 221 | 225 | 230 | 233 | 250 | 254 | 259 | 265 | 285 | 289 | 295 | 302 | 324 | 329 | 336 | 326 | 350 | 355 | 363 | 386 | 415 | 421 | 430 |
| | | LO PR | 122 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | 137 | 150 | 159 | 135 | 140 | 153 | 162 | 139 | 143 | 156 | 166 |
| | 825 | MBh | 25.4 | 26.0 | 27.8 | 29.7 | 24.9 | 25.4 | 27.1 | 29.0 | 24.3 | 24.8 | 26.5 | 28.3 | 23.7 | 24.2 | **25.8** | 27.6 | 22.5 | 23.0 | 24.6 | 26.2 | 20.8 | 21.3 | 22.7 | 24.3 |
| | | S/T | 0.90 | 0.85 | 0.69 | 0.51 | 0.93 | 0.88 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.99 | 0.93 | **0.76** | 0.56 | 1.00 | 0.96 | 0.78 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 |
| | | Delta T | 26 | 25 | 21 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | **22** | 17 | 25 | 25 | 21 | 17 | 23 | 23 | 20 | 16 |
| | | KW | 1.29 | 1.32 | 1.37 | 1.42 | 1.40 | 1.43 | 1.48 | 1.54 | 1.50 | 1.53 | 1.59 | 1.64 | 1.58 | 1.62 | **1.68** | 1.74 | 1.65 | 1.69 | 1.75 | 1.82 | 1.72 | 1.76 | 1.82 | 1.88 |
| | | AMPS | 5.3 | 5.4 | 5.6 | 5.8 | 5.7 | 5.9 | 6.1 | 6.3 | 6.2 | 6.4 | 6.6 | 6.9 | 6.7 | 6.8 | **7.1** | 7.4 | 7.1 | 7.3 | 7.5 | 7.8 | 7.6 | 7.7 | 8.0 | 8.3 |
| | | HI PR | 208 | 224 | 227 | 232 | 235 | 253 | 256 | 262 | 267 | 288 | 292 | 298 | 305 | 327 | **332** | 339 | 329 | 354 | 359 | 367 | 390 | 419 | 425 | 435 |
| | | LO PR | 123 | 127 | 138 | 147 | 126 | 130 | 142 | 152 | 131 | 135 | 147 | 157 | 134 | 138 | **151** | 161 | 137 | 141 | 154 | 164 | 140 | 145 | 158 | 168 |
| | 930 | MBh | 26.2 | 26.8 | 28.6 | 30.6 | 25.6 | 26.2 | 28.0 | 29.9 | 25.0 | 25.5 | 27.3 | 29.2 | 24.4 | 24.9 | 26.6 | 28.5 | 23.2 | 23.7 | 25.3 | 27.0 | 21.5 | 21.9 | 23.4 | 25.0 |
| | | S/T | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.94 | 0.77 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.82 | 0.61 | 1.00 | 1.00 | 0.83 | 0.62 |
| | | Delta T | 25 | 23 | 20 | 16 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 24 | 25 | 21 | 17 | 23 | 23 | 21 | 16 | 21 | 22 | 19 | 15 |
| | | KW | 1.30 | 1.33 | 1.38 | 1.43 | 1.41 | 1.45 | 1.50 | 1.55 | 1.51 | 1.55 | 1.60 | 1.66 | 1.60 | 1.63 | 1.69 | 1.75 | 1.67 | 1.71 | 1.77 | 1.83 | 1.73 | 1.77 | 1.84 | 1.90 |
| | | AMPS | 5.3 | 5.5 | 5.7 | 5.9 | 5.8 | 5.9 | 6.1 | 6.4 | 6.3 | 6.5 | 6.7 | 6.9 | 6.7 | 6.9 | 7.1 | 7.4 | 7.2 | 7.4 | 7.6 | 7.9 | 7.6 | 7.8 | 8.1 | 8.4 |
| | | HI PR | 210 | 226 | 229 | 234 | 237 | 255 | 259 | 265 | 270 | 290 | 295 | 301 | 308 | 331 | 335 | 343 | 332 | 357 | 362 | 370 | 394 | 423 | 429 | 439 |
| | | LO PR | 124 | 128 | 140 | 149 | 128 | 132 | 144 | 153 | 132 | 136 | 149 | 158 | 135 | 140 | 153 | 162 | 138 | 143 | 156 | 166 | 142 | 146 | 159 | 170 |
| 85 | 720 | MBh | 23.9 | 24.4 | 25.5 | 27.2 | 23.3 | 23.8 | 24.9 | 26.6 | 22.8 | 23.2 | 24.3 | 26.0 | 22.2 | 22.7 | 23.7 | 25.3 | 21.1 | 21.5 | 22.5 | 24.1 | 19.6 | 19.9 | 20.9 | 22.3 |
| | | S/T | 0.91 | 0.88 | 0.79 | 0.64 | 0.94 | 0.91 | 0.82 | 0.67 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.91 | 0.74 |
| | | Delta T | 28 | 27 | 26 | 22 | 28 | 28 | 26 | 23 | 28 | 28 | 26 | 23 | 28 | 28 | 26 | 23 | 27 | 27 | 26 | 23 | 25 | 25 | 24 | 21 |
| | | KW | 1.28 | 1.31 | 1.36 | 1.40 | 1.39 | 1.42 | 1.47 | 1.52 | 1.48 | 1.52 | 1.57 | 1.63 | 1.57 | 1.60 | 1.66 | 1.72 | 1.64 | 1.68 | 1.74 | 1.80 | 1.70 | 1.74 | 1.80 | 1.87 |
| | | AMPS | 5.2 | 5.4 | 5.5 | 5.8 | 5.7 | 5.8 | 6.0 | 6.2 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.8 | 7.0 | 7.3 | 7.1 | 7.2 | 7.5 | 7.8 | 7.5 | 7.7 | 7.9 | 8.2 |
| | | HI PR | 206 | 221 | 225 | 230 | 233 | 250 | 254 | 259 | 265 | 285 | 289 | 295 | 302 | 324 | 329 | 336 | 326 | 350 | 355 | 363 | 386 | 415 | 421 | 430 |
| | | LO PR | 122 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | 137 | 150 | 159 | 135 | 140 | 153 | 162 | 139 | 143 | 156 | 166 |
| | 825 | MBh | 25.9 | 26.4 | 27.6 | 29.5 | 25.3 | 25.8 | 27.0 | 28.8 | 24.7 | 25.2 | 26.4 | 28.1 | 24.1 | 24.6 | 25.7 | 27.4 | 22.9 | 23.3 | 24.4 | 26.1 | 21.2 | 21.6 | 22.6 | 24.1 |
| | | S/T | 0.95 | 0.91 | 0.82 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.95 | 0.77 |
| | | Delta T | 27 | 27 | 25 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 27 | 27 | 26 | 22 | 25 | 26 | 26 | 22 | 24 | 24 | 24 | 21 |
| | | KW | 1.29 | 1.32 | 1.37 | 1.42 | 1.40 | 1.43 | 1.48 | 1.54 | 1.50 | 1.53 | 1.59 | 1.64 | 1.58 | 1.62 | 1.68 | 1.74 | 1.65 | 1.69 | 1.75 | 1.82 | 1.72 | 1.76 | 1.82 | 1.88 |
| | | AMPS | 5.3 | 5.4 | 5.6 | 5.8 | 5.7 | 5.9 | 6.1 | 6.3 | 6.2 | 6.4 | 6.6 | 6.9 | 6.7 | 6.8 | 7.1 | 7.4 | 7.1 | 7.3 | 7.5 | 7.8 | 7.6 | 7.7 | 8.0 | 8.3 |
| | | HI PR | 208 | 224 | 227 | 232 | 235 | 253 | 256 | 262 | 267 | 288 | 292 | 298 | 305 | 327 | 332 | 339 | 329 | 354 | 359 | 367 | 390 | 419 | 425 | 435 |
| | | LO PR | 123 | 127 | 138 | 147 | 126 | 130 | 142 | 152 | 131 | 135 | 147 | 157 | 134 | 138 | 151 | 161 | 137 | 141 | 154 | 164 | 140 | 145 | 158 | 168 |
| | 930 | MBh | 26.7 | 27.2 | 28.5 | 30.4 | 26.0 | 26.6 | 27.8 | 29.7 | 25.4 | 25.9 | 27.1 | 29.0 | 24.8 | 25.3 | 26.5 | 28.3 | 23.6 | 24.0 | 25.2 | 26.8 | 21.8 | 22.3 | 23.3 | 24.9 |
| | | S/T | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.99 | 0.89 | 0.73 | 1.00 | 1.00 | 0.92 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.98 | 0.80 | 1.00 | 1.00 | 0.99 | 0.80 |
| | | Delta T | 26.14 | 26 | 24 | 21 | 26 | 26 | 25 | 21 | 25 | 26 | 25 | 21 | 25 | 25 | 25 | 21 | 23 | 24 | 24 | 21 | 22 | 22 | 23 | 20 |
| | | KW | 1.30 | 1.33 | 1.38 | 1.43 | 1.41 | 1.45 | 1.50 | 1.55 | 1.51 | 1.55 | 1.60 | 1.66 | 1.60 | 1.63 | 1.69 | 1.75 | 1.67 | 1.71 | 1.77 | 1.83 | 1.73 | 1.77 | 1.84 | 1.90 |
| | | AMPS | 5.3 | 5.5 | 5.7 | 5.9 | 5.8 | 5.9 | 6.1 | 6.4 | 6.3 | 6.5 | 6.7 | 6.9 | 6.7 | 6.9 | 7.1 | 7.4 | 7.2 | 7.4 | 7.6 | 7.9 | 7.6 | 7.8 | 8.1 | 8.4 |
| | | HI PR | 210 | 226 | 229 | 234 | 237 | 255 | 259 | 265 | 270 | 290 | 295 | 301 | 308 | 331 | 335 | 343 | 332 | 357 | 362 | 370 | 394 | 423 | 429 | 439 |
| | | LO PR | 124 | 128 | 140 | 149 | 128 | 132 | 144 | 153 | 132 | 136 | 149 | 158 | 135 | 140 | 153 | 162 | 138 | 143 | 156 | 166 | 142 | 146 | 159 | 170 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**MODEL: *SXC180481A* / CA*F4961*6**+TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 1025 | MBh | 31.0 | 32.1 | 35.2 | - | 30.3 | 31.4 | 34.4 | - | 29.5 | 30.6 | 33.5 | - | 28.8 | 29.9 | 32.7 | - | 27.4 | 28.4 | 31.1 | - | 25.4 | 26.3 | 28.8 | - |
| | | S/T | 0.70 | 0.58 | 0.40 | - | 0.73 | 0.61 | 0.42 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.80 | 0.67 | 0.46 | - | 0.80 | 0.67 | 0.46 | - |
| | | Delta T | 19 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 1.83 | 1.88 | 1.94 | - | 1.99 | 2.03 | 2.10 | - | 2.12 | 2.17 | 2.25 | - | 2.24 | 2.29 | 2.38 | - | 2.34 | 2.40 | 2.48 | - | 2.43 | 2.49 | 2.58 | - |
| | | AMPS | 7.1 | 7.2 | 7.5 | - | 7.7 | 7.9 | 8.1 | - | 8.4 | 8.6 | 8.9 | - | 9.0 | 9.2 | 9.5 | - | 9.6 | 9.8 | 10.1 | - | 10.2 | 10.4 | 10.8 | - |
| | | HI PR | 212 | 227 | 231 | - | 239 | 257 | 261 | - | 272 | 292 | 297 | - | 310 | 333 | 338 | - | 348 | 375 | 380 | - | 390 | 420 | 426 | - |
| | | LO PR | 119 | 123 | 134 | - | 123 | 126 | 138 | - | 127 | 131 | 143 | - | 130 | 134 | 147 | - | 133 | 137 | 149 | - | 136 | 140 | 153 | - |
| | 1175 | MBh | 33.6 | 34.8 | 38.1 | - | 32.8 | 34.0 | 37.2 | - | 32.0 | 33.2 | 36.3 | - | 31.2 | 32.4 | 35.5 | - | 29.7 | 30.7 | 33.7 | - | 27.5 | 28.5 | 31.2 | - |
| | | S/T | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.63 | 0.44 | - | 0.77 | 0.64 | 0.45 | - | 0.80 | 0.66 | 0.46 | - | 0.83 | 0.69 | 0.48 | - | 0.83 | 0.70 | 0.48 | - |
| | | Delta T | 19 | 16 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 1.85 | 1.89 | 1.96 | - | 2.00 | 2.05 | 2.12 | - | 2.14 | 2.19 | 2.27 | - | 2.26 | 2.32 | 2.40 | - | 2.36 | 2.42 | 2.51 | - | 2.45 | 2.51 | 2.60 | - |
| | | AMPS | 7.1 | 7.3 | 7.6 | - | 7.7 | 7.9 | 8.2 | - | 8.4 | 8.7 | 9.0 | - | 9.0 | 9.3 | 9.6 | - | 9.7 | 9.9 | 10.2 | - | 10.3 | 10.5 | 10.9 | - |
| | | HI PR | 214 | 230 | 233 | - | 242 | 260 | 263 | - | 275 | 295 | 300 | - | 313 | 336 | 341 | - | 352 | 378 | 384 | - | 394 | 424 | 430 | - |
| | | LO PR | 120 | 124 | 135 | - | 124 | 128 | 139 | - | 128 | 132 | 144 | - | 131 | 136 | 148 | - | 134 | 138 | 151 | - | 137 | 142 | 155 | - |
| | 1325 | MBh | 34.6 | 35.8 | 39.3 | - | 33.8 | 35.0 | 38.3 | - | 33.0 | 34.2 | 37.4 | - | 32.2 | 33.3 | 36.5 | - | 30.5 | 31.7 | 34.7 | - | 28.3 | 29.3 | 32.1 | - |
| | | S/T | 0.76 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.81 | 0.68 | 0.47 | - | 0.83 | 0.70 | 0.48 | - | 0.87 | 0.72 | 0.50 | - | 0.87 | 0.73 | 0.51 | - |
| | | Delta T | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 19 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 1.87 | 1.91 | 1.97 | - | 2.02 | 2.07 | 2.14 | - | 2.16 | 2.21 | 2.29 | - | 2.28 | 2.34 | 2.42 | - | 2.39 | 2.44 | 2.53 | - | 2.47 | 2.53 | 2.62 | - |
| | | AMPS | 7.2 | 7.4 | 7.6 | - | 7.8 | 8.0 | 8.3 | - | 8.5 | 8.7 | 9.0 | - | 9.1 | 9.4 | 9.7 | - | 9.7 | 10.0 | 10.3 | - | 10.4 | 10.6 | 11.0 | - |
| | | HI PR | 216 | 232 | 235 | - | 244 | 262 | 266 | - | 277 | 298 | 303 | - | 316 | 340 | 345 | - | 356 | 382 | 388 | - | 398 | 428 | 434 | - |
| | | LO PR | 121 | 125 | 137 | - | 125 | 129 | 141 | - | 129 | 133 | 146 | - | 133 | 137 | 149 | - | 135 | 140 | 152 | - | 139 | 143 | 156 | - |
| 75 | 1025 | MBh | 31.5 | 32.4 | 35.1 | 37.7 | 30.8 | 31.7 | 34.3 | 36.8 | 30.0 | 30.9 | 33.5 | 35.9 | 29.3 | **30.2** | 32.7 | 35.1 | 27.8 | 28.7 | 31.0 | 33.3 | 25.8 | 26.6 | 28.7 | 30.8 |
| | | S/T | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.87 | **0.78** | 0.59 | 0.38 | 0.91 | 0.81 | 0.61 | 0.39 | 0.91 | 0.82 | 0.62 | 0.40 |
| | | Delta T | 22 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | **21** | 17 | 12 | 23 | 21 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 1.83 | 1.88 | 1.94 | 2.01 | 1.99 | 2.03 | 2.10 | 2.18 | 2.12 | 2.17 | 2.25 | 2.33 | 2.24 | **2.29** | 2.38 | 2.46 | 2.34 | 2.40 | 2.48 | 2.57 | 2.43 | 2.49 | 2.58 | 2.67 |
| | | AMPS | 7.1 | 7.2 | 7.5 | 7.8 | 7.7 | 7.9 | 8.1 | 8.4 | 8.4 | 8.6 | 8.9 | 9.2 | 9.0 | **9.2** | 9.5 | 9.9 | 9.6 | 9.8 | 10.1 | 10.5 | 10.2 | 10.4 | 10.8 | 11.2 |
| | | HI PR | 212 | 227 | 231 | 236 | 239 | 257 | 261 | 267 | 272 | 292 | 297 | 303 | 310 | **333** | 338 | 345 | 348 | 375 | 380 | 388 | 390 | 420 | 426 | 435 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 126 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | **134** | 147 | 156 | 133 | 137 | 149 | 159 | 136 | 140 | 153 | 163 |
| | 1175 | MBh | 34.1 | 35.1 | 38.0 | 40.8 | 33.3 | 34.3 | 37.2 | 39.9 | 32.5 | 33.5 | 36.3 | 38.9 | 31.7 | **32.7** | 35.4 | 38.0 | 30.2 | 31.1 | 33.6 | 36.1 | 27.9 | 28.8 | 31.1 | 33.4 |
| | | S/T | 0.82 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38 | 0.90 | **0.81** | 0.61 | 0.39 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
| | | Delta T | 22 | 20 | 17 | 11 | 22 | 21 | 17 | 12 | 22 | 21 | 17 | 12 | 22 | **21** | 17 | 12 | 22 | 20 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 1.85 | 1.89 | 1.96 | 2.03 | 2.00 | 2.05 | 2.12 | 2.20 | 2.14 | 2.19 | 2.27 | 2.35 | 2.26 | **2.32** | 2.40 | 2.48 | 2.36 | 2.42 | 2.51 | 2.60 | 2.45 | 2.51 | 2.60 | 2.69 |
| | | AMPS | 7.1 | 7.3 | 7.6 | 7.9 | 7.7 | 7.9 | 8.2 | 8.5 | 8.4 | 8.7 | 9.0 | 9.3 | 9.0 | **9.3** | 9.6 | 10.0 | 9.7 | 9.9 | 10.2 | 10.6 | 10.3 | 10.5 | 10.9 | 11.3 |
| | | HI PR | 214 | 230 | 233 | 238 | 242 | 260 | 263 | 269 | 275 | 295 | 300 | 306 | 313 | **336** | 341 | 349 | 352 | 378 | 384 | 392 | 394 | 424 | 430 | 439 |
| | | LO PR | 120 | 124 | 135 | 144 | 124 | 128 | 139 | 148 | 128 | 132 | 144 | 154 | 131 | **136** | 148 | 158 | 134 | 138 | 151 | 161 | 137 | 142 | 155 | 165 |
| | 1325 | MBh | 35.2 | 36.2 | 39.2 | 42.0 | 34.3 | 35.4 | 38.3 | 41.1 | 33.5 | 34.5 | 37.4 | 40.1 | 32.7 | **33.7** | 36.4 | 39.1 | 31.1 | 32.0 | 34.6 | 37.2 | 28.8 | 29.6 | 32.1 | 34.4 |
| | | S/T | 0.86 | 0.77 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95 | **0.85** | 0.64 | 0.41 | 0.98 | 0.88 | 0.67 | 0.43 | 0.99 | 0.89 | 0.67 | 0.43 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 20 | 16 | 11 | 22 | **20** | 16 | 11 | 21 | 20 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 1.87 | 1.91 | 1.97 | 2.04 | 2.02 | 2.07 | 2.14 | 2.22 | 2.16 | 2.21 | 2.29 | 2.37 | 2.28 | **2.34** | 2.42 | 2.51 | 2.39 | 2.44 | 2.53 | 2.62 | 2.47 | 2.53 | 2.62 | 2.72 |
| | | AMPS | 7.2 | 7.4 | 7.6 | 7.9 | 7.8 | 8.0 | 8.3 | 8.6 | 8.5 | 8.7 | 9.0 | 9.4 | 9.1 | **9.4** | 9.7 | 10.1 | 9.7 | 10.0 | 10.3 | 10.8 | 10.4 | 10.6 | 11.0 | 11.4 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 277 | 298 | 303 | 309 | 316 | **340** | 345 | 352 | 356 | 382 | 388 | 396 | 398 | 428 | 434 | 444 |
| | | LO PR | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | **137** | 149 | 159 | 135 | 140 | 152 | 162 | 139 | 143 | 156 | 166 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

**MODEL: *SXC180481A* / CA*F4961*6**+TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 1025 | MBh | 32.1 | 32.8 | 35.0 | 37.4 | 31.3 | 32.0 | 34.2 | 36.5 | 30.6 | 31.2 | 33.4 | 35.7 | 29.8 | 30.5 | 32.6 | 34.8 | 28.3 | 29.0 | 30.9 | 33.1 | 26.2 | 26.8 | 28.7 | 30.6 |
| | | S/T | 0.87 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.99 | 0.93 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 |
| | | Delta T | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 26 | 25 | 21 | 17 | 25 | 24 | 21 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 1.83 | 1.88 | 1.94 | 2.01 | 1.99 | 2.03 | 2.10 | 2.18 | 2.12 | 2.17 | 2.25 | 2.33 | 2.24 | 2.29 | 2.38 | 2.46 | 2.34 | 2.40 | 2.48 | 2.57 | 2.43 | 2.49 | 2.58 | 2.67 |
| | | AMPS | 7.1 | 7.2 | 7.5 | 7.8 | 7.7 | 7.9 | 8.1 | 8.4 | 8.4 | 8.6 | 8.9 | 9.2 | 9.0 | 9.2 | 9.5 | 9.9 | 9.6 | 9.8 | 10.1 | 10.5 | 10.2 | 10.4 | 10.8 | 11.2 |
| | | HI PR | 212 | 227 | 231 | 236 | 239 | 257 | 261 | 267 | 272 | 292 | 297 | 303 | 310 | 333 | 338 | 345 | 348 | 375 | 380 | 388 | 390 | 420 | 426 | 435 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 126 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | 134 | 147 | 156 | 133 | 137 | 149 | 159 | 136 | 140 | 153 | 163 |
| | 1175 | MBh | 34.7 | 35.5 | 37.9 | 40.5 | 33.9 | 34.7 | 37.0 | 39.6 | 33.1 | 33.8 | 36.2 | 38.7 | 32.3 | 33.0 | **35.3** | 37.7 | 30.7 | 31.4 | 33.5 | 35.8 | 28.4 | 29.1 | 31.0 | 33.2 |
| | | S/T | 0.90 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.99 | 0.93 | **0.76** | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 |
| | | Delta T | 25 | 24 | 20 | 16 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | **21** | 17 | 24 | 24 | 21 | 16 | 22 | 22 | 19 | 15 |
| | | KW | 1.85 | 1.89 | 1.96 | 2.03 | 2.00 | 2.05 | 2.12 | 2.20 | 2.14 | 2.19 | 2.27 | 2.35 | 2.26 | 2.32 | **2.40** | 2.48 | 2.36 | 2.42 | 2.51 | 2.60 | 2.45 | 2.51 | 2.60 | 2.69 |
| | | AMPS | 7.1 | 7.3 | 7.6 | 7.9 | 7.7 | 7.9 | 8.2 | 8.5 | 8.4 | 8.7 | 9.0 | 9.3 | 9.0 | 9.3 | **9.6** | 10.0 | 9.7 | 9.9 | 10.2 | 10.6 | 10.3 | 10.5 | 10.9 | 11.3 |
| | | HI PR | 214 | 230 | 233 | 238 | 242 | 260 | 263 | 269 | 275 | 295 | 300 | 306 | 313 | 336 | **341** | 349 | 352 | 378 | 384 | 392 | 394 | 424 | 430 | 439 |
| | | LO PR | 120 | 124 | 135 | 144 | 124 | 128 | 139 | 148 | 128 | 132 | 144 | 154 | 131 | 136 | **148** | 158 | 134 | 138 | 151 | 161 | 137 | 142 | 155 | 165 |
| | 1325 | MBh | 35.8 | 36.6 | 39.1 | 41.8 | 34.9 | 35.7 | 38.2 | 40.8 | 34.1 | 34.9 | 37.2 | 39.8 | 33.3 | 34.0 | 36.3 | 38.8 | 31.6 | 32.3 | 34.5 | 36.9 | 29.3 | 29.9 | 32.0 | 34.2 |
| | | S/T | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.82 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 |
| | | Delta T | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 23 | 24 | 20 | 16 | 22 | 22 | 20 | 16 | 20 | 21 | 18 | 15 |
| | | KW | 1.87 | 1.91 | 1.97 | 2.04 | 2.02 | 2.07 | 2.14 | 2.22 | 2.16 | 2.21 | 2.29 | 2.37 | 2.28 | 2.34 | 2.42 | 2.51 | 2.39 | 2.44 | 2.53 | 2.62 | 2.47 | 2.53 | 2.62 | 2.72 |
| | | AMPS | 7.2 | 7.4 | 7.6 | 7.9 | 7.8 | 8.0 | 8.3 | 8.6 | 8.5 | 8.7 | 9.0 | 9.4 | 9.1 | 9.4 | 9.7 | 10.1 | 9.7 | 10.0 | 10.3 | 10.8 | 10.4 | 10.6 | 11.0 | 11.4 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 277 | 298 | 303 | 309 | 316 | 340 | 345 | 352 | 356 | 382 | 388 | 396 | 398 | 428 | 434 | 444 |
| | | LO PR | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | 137 | 149 | 159 | 135 | 140 | 152 | 162 | 139 | 143 | 156 | 166 |
| 85 | 1025 | MBh | 32.6 | 33.3 | 34.8 | 37.2 | 31.9 | 32.5 | 34.0 | 36.3 | 31.1 | 31.7 | 33.2 | 35.4 | 30.3 | 30.9 | 32.4 | 34.6 | 28.8 | 29.4 | 30.8 | 32.8 | 26.7 | 27.2 | 28.5 | 30.4 |
| | | S/T | 0.91 | 0.88 | 0.80 | 0.65 | 0.95 | 0.91 | 0.83 | 0.67 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.91 | 0.74 |
| | | Delta T | 27 | 26 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 26 | 26 | 25 | 22 | 24 | 24 | 23 | 20 |
| | | KW | 1.83 | 1.88 | 1.94 | 2.01 | 1.99 | 2.03 | 2.10 | 2.18 | 2.12 | 2.17 | 2.25 | 2.33 | 2.24 | 2.29 | 2.38 | 2.46 | 2.34 | 2.40 | 2.48 | 2.57 | 2.43 | 2.49 | 2.58 | 2.67 |
| | | AMPS | 7.1 | 7.2 | 7.5 | 7.8 | 7.7 | 7.9 | 8.1 | 8.4 | 8.4 | 8.6 | 8.9 | 9.2 | 9.0 | 9.2 | 9.5 | 9.9 | 9.6 | 9.8 | 10.1 | 10.5 | 10.2 | 10.4 | 10.8 | 11.2 |
| | | HI PR | 212 | 227 | 231 | 236 | 239 | 257 | 261 | 267 | 272 | 292 | 297 | 303 | 310 | 333 | 338 | 345 | 348 | 375 | 380 | 388 | 390 | 420 | 426 | 435 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 126 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | 134 | 147 | 156 | 133 | 137 | 149 | 159 | 136 | 140 | 153 | 163 |
| | 1175 | MBh | 35.3 | 36.0 | 37.7 | 40.3 | 34.5 | 35.2 | 36.9 | 39.3 | 33.7 | 34.4 | 36.0 | 38.4 | 32.9 | 33.5 | 35.1 | 37.4 | 31.2 | 31.8 | 33.3 | 35.6 | 28.9 | 29.5 | 30.9 | 33.0 |
| | | S/T | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.86 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.95 | 0.77 |
| | | Delta T | 26 | 26 | 24 | 21 | 27 | 26 | 25 | 21 | 26 | 26 | 25 | 21 | 26 | 26 | 25 | 22 | 24 | 25 | 25 | 21 | 23 | 23 | 23 | 20 |
| | | KW | 1.85 | 1.89 | 1.96 | 2.03 | 2.00 | 2.05 | 2.12 | 2.20 | 2.14 | 2.19 | 2.27 | 2.35 | 2.26 | 2.32 | 2.40 | 2.48 | 2.36 | 2.42 | 2.51 | 2.60 | 2.45 | 2.51 | 2.60 | 2.69 |
| | | AMPS | 7.1 | 7.3 | 7.6 | 7.9 | 7.7 | 7.9 | 8.2 | 8.5 | 8.4 | 8.7 | 9.0 | 9.3 | 9.0 | 9.3 | 9.6 | 10.0 | 9.7 | 9.9 | 10.2 | 10.6 | 10.3 | 10.5 | 10.9 | 11.3 |
| | | HI PR | 214 | 230 | 233 | 238 | 242 | 260 | 263 | 269 | 275 | 295 | 300 | 306 | 313 | 336 | 341 | 349 | 352 | 378 | 384 | 392 | 394 | 424 | 430 | 439 |
| | | LO PR | 120 | 124 | 135 | 144 | 124 | 128 | 139 | 148 | 128 | 132 | 144 | 154 | 131 | 136 | 148 | 158 | 134 | 138 | 151 | 161 | 137 | 142 | 155 | 165 |
| | 1325 | MBh | 36.4 | 37.1 | 38.9 | 41.5 | 35.6 | 36.2 | 38.0 | 40.5 | 34.7 | 35.4 | 37.1 | 39.5 | 33.9 | 34.5 | 36.2 | 38.6 | 32.2 | 32.8 | 34.3 | 36.6 | 29.8 | 30.4 | 31.8 | 33.9 |
| | | S/T | 0.99 | 0.96 | 0.87 | 0.70 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.99 | 0.80 | 1.00 | 1.00 | 0.99 | 0.81 |
| | | Delta T | 25.12 | 25 | 23 | 20 | 25 | 25 | 24 | 20 | 24 | 25 | 24 | 20 | 23 | 24 | 24 | 21 | 22 | 23 | 23 | 20 | 21 | 21 | 22 | 19 |
| | | KW | 1.87 | 1.91 | 1.97 | 2.04 | 2.02 | 2.07 | 2.14 | 2.22 | 2.16 | 2.21 | 2.29 | 2.37 | 2.28 | 2.34 | 2.42 | 2.51 | 2.39 | 2.44 | 2.53 | 2.62 | 2.47 | 2.53 | 2.62 | 2.72 |
| | | AMPS | 7.2 | 7.4 | 7.6 | 7.9 | 7.8 | 8.0 | 8.3 | 8.6 | 8.5 | 8.7 | 9.0 | 9.4 | 9.1 | 9.4 | 9.7 | 10.1 | 9.7 | 10.0 | 10.3 | 10.8 | 10.4 | 10.6 | 11.0 | 11.4 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 277 | 298 | 303 | 309 | 316 | 340 | 345 | 352 | 356 | 382 | 388 | 396 | 398 | 428 | 434 | 444 |
| | | LO PR | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 146 | 155 | 133 | 137 | 149 | 159 | 135 | 140 | 152 | 162 | 139 | 143 | 156 | 166 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

## MODEL: *SXC180601A* / CA*F4961*6** +TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 1180 | MBh | 38.0 | 39.3 | 43.1 | - | 37.1 | 38.4 | 42.1 | - | 36.2 | 37.5 | 41.1 | - | 35.3 | 36.6 | 40.1 | - | 33.5 | 34.8 | 38.1 | - | 31.1 | 32.2 | 35.3 | - |
| | | S/T | 0.67 | 0.56 | 0.39 | - | 0.69 | 0.58 | 0.40 | - | 0.71 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.76 | 0.64 | 0.44 | - | 0.77 | 0.64 | 0.44 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 2.39 | 2.44 | 2.53 | - | 2.59 | 2.65 | 2.75 | - | 2.77 | 2.84 | 2.94 | - | 2.93 | 3.00 | 3.10 | - | 3.06 | 3.14 | 3.25 | - | 3.18 | 3.25 | 3.37 | - |
| | | AMPS | 9.2 | 9.4 | 9.8 | - | 10.0 | 10.2 | 10.6 | - | 10.9 | 11.2 | 11.6 | - | 11.7 | 12.0 | 12.4 | - | 13.7 | 14.0 | 14.5 | - | 14.5 | 14.8 | 15.4 | - |
| | | HI PR | 222 | 238 | 242 | - | 243 | 262 | 265 | - | 285 | 306 | 311 | - | 325 | 349 | 354 | - | 365 | 393 | 398 | - | 422 | 454 | 460 | - |
| | | LO PR | 116 | 119 | 130 | - | 119 | 123 | 134 | - | 123 | 127 | 138 | - | 126 | 130 | 142 | - | 129 | 133 | 145 | - | 132 | 136 | 149 | - |
| | 1350 | MBh | 41.1 | 42.6 | 46.7 | - | 40.2 | 41.6 | 45.6 | - | 39.2 | 40.6 | 44.5 | - | 38.3 | 39.6 | 43.4 | - | 36.3 | 37.7 | 41.3 | - | 33.7 | 34.9 | 38.2 | - |
| | | S/T | 0.69 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.42 | - | 0.74 | 0.62 | 0.43 | - | 0.76 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.80 | 0.66 | 0.46 | - |
| | | Delta T | 19 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 2.41 | 2.47 | 2.55 | - | 2.61 | 2.68 | 2.77 | - | 2.80 | 2.86 | 2.96 | - | 2.95 | 3.03 | 3.13 | - | 3.09 | 3.16 | 3.28 | - | 3.21 | 3.28 | 3.40 | - |
| | | AMPS | 9.3 | 9.5 | 9.9 | - | 10.1 | 10.3 | 10.7 | - | 11.0 | 11.3 | 11.7 | - | 11.8 | 12.1 | 12.5 | - | 13.8 | 14.2 | 14.7 | - | 14.6 | 15.0 | 15.5 | - |
| | | HI PR | 224 | 241 | 244 | - | 246 | 264 | 268 | - | 288 | 309 | 314 | - | 328 | 352 | 357 | - | 369 | 397 | 402 | - | 426 | 458 | 465 | - |
| | | LO PR | 117 | 120 | 131 | - | 120 | 124 | 135 | - | 124 | 128 | 140 | - | 128 | 132 | 144 | - | 130 | 134 | 146 | - | 133 | 137 | 150 | - |
| | 1520 | MBh | 42.4 | 43.9 | 48.1 | - | 41.4 | 42.9 | 47.0 | - | 40.4 | 41.9 | 45.9 | - | 39.4 | 40.8 | 44.7 | - | 37.4 | 38.8 | 42.5 | - | 34.7 | 35.9 | 39.4 | - |
| | | S/T | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.63 | 0.44 | - | 0.77 | 0.65 | 0.45 | - | 0.80 | 0.67 | 0.46 | - | 0.83 | 0.69 | 0.48 | - | 0.83 | 0.70 | 0.48 | - |
| | | Delta T | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 2.43 | 2.49 | 2.57 | - | 2.64 | 2.70 | 2.79 | - | 2.82 | 2.89 | 2.99 | - | 2.98 | 3.05 | 3.16 | - | 3.12 | 3.19 | 3.31 | - | 3.24 | 3.31 | 3.43 | - |
| | | AMPS | 9.4 | 9.6 | 10.0 | - | 10.2 | 10.4 | 10.8 | - | 11.1 | 11.4 | 11.8 | - | 11.9 | 12.2 | 12.6 | - | 14.0 | 14.3 | 14.8 | - | 14.8 | 15.1 | 15.7 | - |
| | | HI PR | 226 | 243 | 247 | - | 248 | 267 | 271 | - | 291 | 313 | 317 | - | 331 | 356 | 361 | - | 372 | 400 | 406 | - | 430 | 463 | 469 | - |
| | | LO PR | 118 | 122 | 133 | - | 121 | 125 | 137 | - | 125 | 129 | 141 | - | 129 | 133 | 145 | - | 131 | 136 | 148 | - | 135 | 139 | 152 | - |
| 75 | 1180 | MBh | 38.6 | 39.7 | 43.0 | 46.2 | 37.7 | 38.8 | 42.0 | 45.1 | 36.8 | 37.9 | 41.0 | 44.0 | 35.9 | **37.0** | 40.0 | 42.9 | 34.1 | 35.1 | 38.0 | 40.8 | 31.6 | 32.5 | 35.2 | 37.8 |
| | | S/T | 0.76 | 0.68 | 0.51 | 0.33 | 0.79 | 0.70 | 0.53 | 0.34 | 0.81 | 0.72 | 0.55 | 0.35 | 0.83 | **0.75** | 0.56 | 0.36 | 0.87 | 0.77 | 0.59 | 0.38 | 0.87 | 0.78 | 0.59 | 0.38 |
| | | Delta T | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | **21** | 18 | 12 | 23 | 21 | 17 | 12 | 21 | 20 | 16 | 11 |
| | | KW | 2.39 | 2.44 | 2.53 | 2.62 | 2.59 | 2.65 | 2.75 | 2.84 | 2.77 | 2.84 | 2.94 | 3.04 | 2.93 | **3.00** | 3.10 | 3.22 | 3.06 | 3.14 | 3.25 | 3.37 | 3.18 | 3.25 | 3.37 | 3.49 |
| | | AMPS | 9.2 | 9.4 | 9.8 | 10.1 | 10.0 | 10.2 | 10.6 | 11.0 | 10.9 | 11.2 | 11.6 | 12.0 | 11.7 | **12.0** | 12.4 | 12.9 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.8 | 15.4 | 16.0 |
| | | HI PR | 222 | 238 | 242 | 247 | 243 | 262 | 265 | 271 | 285 | 306 | 311 | 318 | 325 | **349** | 354 | 362 | 365 | 393 | 398 | 407 | 422 | 454 | 460 | 470 |
| | | LO PR | 116 | 119 | 130 | 139 | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 126 | **130** | 142 | 151 | 129 | 133 | 145 | 154 | 132 | 136 | 149 | 158 |
| | 1350 | MBh | 41.8 | 43.1 | 46.6 | 50.0 | 40.8 | 42.1 | 45.5 | 48.9 | 39.9 | 41.1 | 44.4 | 47.7 | 38.9 | **40.1** | 43.4 | 46.5 | 37.0 | 38.0 | 41.2 | 44.2 | 34.2 | 35.2 | 38.1 | 40.9 |
| | | S/T | 0.79 | 0.70 | 0.53 | 0.34 | 0.82 | 0.73 | 0.55 | 0.36 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | **0.77** | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.90 | 0.81 | 0.61 | 0.39 |
| | | Delta T | 22 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | **21** | 17 | 12 | 23 | 21 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 2.41 | 2.47 | 2.55 | 2.64 | 2.61 | 2.68 | 2.77 | 2.87 | 2.80 | 2.86 | 2.96 | 3.07 | 2.95 | **3.03** | 3.13 | 3.25 | 3.09 | 3.16 | 3.28 | 3.40 | 3.21 | 3.28 | 3.40 | 3.53 |
| | | AMPS | 9.3 | 9.5 | 9.9 | 10.2 | 10.1 | 10.3 | 10.7 | 11.1 | 11.0 | 11.3 | 11.7 | 12.1 | 11.8 | **12.1** | 12.5 | 13.0 | 13.8 | 14.2 | 14.7 | 15.3 | 14.6 | 15.0 | 15.5 | 16.1 |
| | | HI PR | 224 | 241 | 244 | 250 | 246 | 264 | 268 | 274 | 288 | 309 | 314 | 321 | 328 | **352** | 357 | 365 | 369 | 397 | 402 | 411 | 426 | 458 | 465 | 475 |
| | | LO PR | 117 | 120 | 131 | 140 | 120 | 124 | 135 | 144 | 124 | 128 | 140 | 149 | 128 | **132** | 144 | 153 | 130 | 134 | 146 | 156 | 133 | 137 | 150 | 160 |
| | 1520 | MBh | 43.1 | 44.3 | 48.0 | 51.5 | 42.1 | 43.3 | 46.9 | 50.3 | 41.1 | 42.3 | 45.8 | 49.1 | 40.1 | **41.3** | 44.7 | 47.9 | 38.1 | 39.2 | 42.4 | 45.5 | 35.3 | 36.3 | 39.3 | 42.2 |
| | | S/T | 0.83 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.59 | 0.38 | 0.91 | **0.81** | 0.61 | 0.39 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
| | | Delta T | 22 | 20 | 16 | 11 | 22 | 20 | 16 | 11 | 22 | 20 | 16 | 11 | 22 | **20** | 17 | 11 | 22 | 20 | 16 | 11 | 20 | 19 | 15 | 11 |
| | | KW | 2.43 | 2.49 | 2.57 | 2.67 | 2.64 | 2.70 | 2.79 | 2.89 | 2.82 | 2.89 | 2.99 | 3.10 | 2.98 | **3.05** | 3.16 | 3.28 | 3.12 | 3.19 | 3.31 | 3.43 | 3.24 | 3.31 | 3.43 | 3.56 |
| | | AMPS | 9.4 | 9.6 | 10.0 | 10.3 | 10.2 | 10.4 | 10.8 | 11.2 | 11.1 | 11.4 | 11.8 | 12.2 | 11.9 | **12.2** | 12.6 | 13.1 | 14.0 | 14.3 | 14.8 | 15.4 | 14.8 | 15.1 | 15.7 | 16.3 |
| | | HI PR | 226 | 243 | 247 | 252 | 248 | 267 | 271 | 277 | 291 | 313 | 317 | 324 | 331 | **356** | 361 | 369 | 372 | 400 | 406 | 415 | 430 | 463 | 469 | 480 |
| | | LO PR | 118 | 122 | 133 | 141 | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | **133** | 145 | 154 | 131 | 136 | 148 | 158 | 135 | 139 | 152 | 161 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

**MODEL: *SXC180601A* / CA*F4961*6** +TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. Low Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 1180 | MBh | 39.3 | 40.1 | 42.9 | 45.8 | 38.4 | 39.2 | 41.9 | 44.8 | 37.5 | 38.3 | 40.9 | 43.7 | 36.5 | 37.3 | 39.9 | 42.6 | 34.7 | 35.5 | 37.9 | 40.5 | 32.2 | 32.9 | 35.1 | 37.5 |
| | | S/T | 0.83 | 0.78 | 0.64 | 0.48 | 0.86 | 0.81 | 0.66 | 0.49 | 0.89 | 0.83 | 0.68 | 0.51 | 0.91 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.96 | 0.90 | 0.73 | 0.55 |
| | | Delta T | 26 | 24 | 21 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 21 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.39 | 2.44 | 2.53 | 2.62 | 2.59 | 2.65 | 2.75 | 2.84 | 2.77 | 2.84 | 2.94 | 3.04 | 2.93 | 3.00 | 3.10 | 3.22 | 3.06 | 3.14 | 3.25 | 3.37 | 3.18 | 3.25 | 3.37 | 3.49 |
| | | AMPS | 9.2 | 9.4 | 9.8 | 10.1 | 10.0 | 10.2 | 10.6 | 11.0 | 10.9 | 11.2 | 11.6 | 12.0 | 11.7 | 12.0 | 12.4 | 12.9 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.8 | 15.4 | 16.0 |
| | | HI PR | 222 | 238 | 242 | 247 | 243 | 262 | 265 | 271 | 285 | 306 | 311 | 318 | 325 | 349 | 354 | 362 | 365 | 393 | 398 | 407 | 422 | 454 | 460 | 470 |
| | | LO PR | 116 | 119 | 130 | 139 | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 154 | 132 | 136 | 149 | 158 |
| | 1350 | MBh | 42.6 | 43.5 | 46.5 | 49.7 | 41.6 | 42.5 | 45.4 | 48.5 | 40.6 | 41.5 | 44.3 | 47.4 | 39.6 | 40.5 | **43.2** | 46.2 | 37.6 | 38.4 | 41.1 | 43.9 | 34.8 | 35.6 | 38.0 | 40.7 |
| | | S/T | 0.86 | 0.81 | 0.66 | 0.49 | 0.90 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | **0.72** | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 0.99 | 0.93 | 0.76 | 0.57 |
| | | Delta T | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 26 | 24 | **21** | 17 | 25 | 24 | 21 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.41 | 2.47 | 2.55 | 2.64 | 2.61 | 2.68 | 2.77 | 2.87 | 2.80 | 2.86 | 2.96 | 3.07 | 2.95 | 3.03 | **3.13** | 3.25 | 3.09 | 3.16 | 3.28 | 3.40 | 3.21 | 3.28 | 3.40 | 3.53 |
| | | AMPS | 9.3 | 9.5 | 9.9 | 10.2 | 10.1 | 10.3 | 10.7 | 11.1 | 11.0 | 11.3 | 11.7 | 12.1 | 11.8 | 12.1 | **12.5** | 13.0 | 13.8 | 14.2 | 14.7 | 15.3 | 14.6 | 15.0 | 15.5 | 16.1 |
| | | HI PR | 224 | 241 | 244 | 250 | 246 | 264 | 268 | 274 | 288 | 309 | 314 | 321 | 328 | 352 | **357** | 365 | 369 | 397 | 402 | 411 | 426 | 458 | 465 | 475 |
| | | LO PR | 117 | 120 | 131 | 140 | 120 | 124 | 135 | 144 | 124 | 128 | 140 | 149 | 128 | 132 | **144** | 153 | 130 | 134 | 146 | 156 | 133 | 137 | 150 | 160 |
| | 1520 | MBh | 43.8 | 44.8 | 47.9 | 51.2 | 42.8 | 43.8 | 46.7 | 50.0 | 41.8 | 42.7 | 45.6 | 48.8 | 40.8 | 41.7 | 44.5 | 47.6 | 38.7 | 39.6 | 42.3 | 45.2 | 35.9 | 36.7 | 39.2 | 41.9 |
| | | S/T | 0.91 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 1.00 | 0.79 | 0.59 |
| | | Delta T | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 25 | 23 | 20 | 16 | 23 | 23 | 20 | 16 | 22 | 22 | 19 | 15 |
| | | KW | 2.43 | 2.49 | 2.57 | 2.67 | 2.64 | 2.70 | 2.79 | 2.89 | 2.82 | 2.89 | 2.99 | 3.10 | 2.98 | 3.05 | 3.16 | 3.28 | 3.12 | 3.19 | 3.31 | 3.43 | 3.24 | 3.31 | 3.43 | 3.56 |
| | | AMPS | 9.4 | 9.6 | 10.0 | 10.3 | 10.2 | 10.4 | 10.8 | 11.2 | 11.1 | 11.4 | 11.8 | 12.2 | 11.9 | 12.2 | 12.6 | 13.1 | 14.0 | 14.3 | 14.8 | 15.4 | 14.8 | 15.1 | 15.7 | 16.3 |
| | | HI PR | 226 | 243 | 247 | 252 | 248 | 267 | 271 | 277 | 291 | 313 | 317 | 324 | 331 | 356 | 361 | 369 | 372 | 400 | 406 | 415 | 430 | 463 | 469 | 480 |
| | | LO PR | 118 | 122 | 133 | 141 | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 145 | 154 | 131 | 136 | 148 | 158 | 135 | 139 | 152 | 161 |
| 85 | 1180 | MBh | 40.0 | 40.7 | 42.7 | 45.5 | 39.0 | 39.8 | 41.7 | 44.5 | 38.1 | 38.8 | 40.7 | 43.4 | 37.2 | 37.9 | 39.7 | 42.3 | 35.3 | 36.0 | 37.7 | 40.2 | 32.7 | 33.4 | 34.9 | 37.3 |
| | | S/T | 0.87 | 0.84 | 0.76 | 0.62 | 0.91 | 0.87 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.92 | 0.83 | 0.68 | 0.99 | 0.96 | 0.87 | 0.70 | 1.00 | 0.97 | 0.87 | 0.71 |
| | | Delta T | 27 | 27 | 25 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 27 | 27 | 25 | 22 | 25 | 25 | 24 | 21 |
| | | KW | 2.39 | 2.44 | 2.53 | 2.62 | 2.59 | 2.65 | 2.75 | 2.84 | 2.77 | 2.84 | 2.94 | 3.04 | 2.93 | 3.00 | 3.10 | 3.22 | 3.06 | 3.14 | 3.25 | 3.37 | 3.18 | 3.25 | 3.37 | 3.49 |
| | | AMPS | 9.2 | 9.4 | 9.8 | 10.1 | 10.0 | 10.2 | 10.6 | 11.0 | 10.9 | 11.2 | 11.6 | 12.0 | 11.7 | 12.0 | 12.4 | 12.9 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.8 | 15.4 | 16.0 |
| | | HI PR | 222 | 238 | 242 | 247 | 243 | 262 | 265 | 271 | 285 | 306 | 311 | 318 | 325 | 349 | 354 | 362 | 365 | 393 | 398 | 407 | 422 | 454 | 460 | 470 |
| | | LO PR | 116 | 119 | 130 | 139 | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 154 | 132 | 136 | 149 | 158 |
| | 1350 | MBh | 43.3 | 44.1 | 46.2 | 49.3 | 42.3 | 43.1 | 45.2 | 48.2 | 41.3 | 42.1 | 44.1 | 47.0 | 40.3 | 41.1 | 43.0 | 45.9 | 38.3 | 39.0 | 40.9 | 43.6 | 35.4 | 36.1 | 37.8 | 40.4 |
| | | S/T | 0.91 | 0.87 | 0.79 | 0.64 | 0.94 | 0.91 | 0.82 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.99 | 0.96 | 0.87 | 0.70 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.91 | 0.73 |
| | | Delta T | 27 | 26 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 26 | 26 | 25 | 22 | 24 | 25 | 23 | 20 |
| | | KW | 2.41 | 2.47 | 2.55 | 2.64 | 2.61 | 2.68 | 2.77 | 2.87 | 2.80 | 2.86 | 2.96 | 3.07 | 2.95 | 3.03 | 3.13 | 3.25 | 3.09 | 3.16 | 3.28 | 3.40 | 3.21 | 3.28 | 3.40 | 3.53 |
| | | AMPS | 9.3 | 9.5 | 9.9 | 10.2 | 10.1 | 10.3 | 10.7 | 11.1 | 11.0 | 11.3 | 11.7 | 12.1 | 11.8 | 12.1 | 12.5 | 13.0 | 13.8 | 14.2 | 14.7 | 15.3 | 14.6 | 15.0 | 15.5 | 16.1 |
| | | HI PR | 224 | 241 | 244 | 250 | 246 | 264 | 268 | 274 | 288 | 309 | 314 | 321 | 328 | 352 | 357 | 365 | 369 | 397 | 402 | 411 | 426 | 458 | 465 | 475 |
| | | LO PR | 117 | 120 | 131 | 140 | 120 | 124 | 135 | 144 | 124 | 128 | 140 | 149 | 128 | 132 | 144 | 153 | 130 | 134 | 146 | 156 | 133 | 137 | 150 | 160 |
| | 1520 | MBh | 44.6 | 45.5 | 47.6 | 50.8 | 43.6 | 44.4 | 46.5 | 49.6 | 42.5 | 43.4 | 45.4 | 48.4 | 41.5 | 42.3 | 44.3 | 47.3 | 39.4 | 40.2 | 42.1 | 44.9 | 36.5 | 37.2 | 39.0 | 41.6 |
| | | S/T | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.86 | 0.70 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.95 | 0.77 |
| | | Delta T | 25.62 | 25 | 24 | 21 | 26 | 26 | 24 | 21 | 26 | 26 | 24 | 21 | 25 | 26 | 24 | 21 | 24 | 24 | 24 | 21 | 22 | 23 | 22 | 19 |
| | | KW | 2.43 | 2.49 | 2.57 | 2.67 | 2.64 | 2.70 | 2.79 | 2.89 | 2.82 | 2.89 | 2.99 | 3.10 | 2.98 | 3.05 | 3.16 | 3.28 | 3.12 | 3.19 | 3.31 | 3.43 | 3.24 | 3.31 | 3.43 | 3.56 |
| | | AMPS | 9.4 | 9.6 | 10.0 | 10.3 | 10.2 | 10.4 | 10.8 | 11.2 | 11.1 | 11.4 | 11.8 | 12.2 | 11.9 | 12.2 | 12.6 | 13.1 | 14.0 | 14.3 | 14.8 | 15.4 | 14.8 | 15.1 | 15.7 | 16.3 |
| | | HI PR | 226 | 243 | 247 | 252 | 248 | 267 | 271 | 277 | 291 | 313 | 317 | 324 | 331 | 356 | 361 | 369 | 372 | 400 | 406 | 415 | 430 | 463 | 469 | 480 |
| | | LO PR | 118 | 122 | 133 | 141 | 121 | 125 | 137 | 146 | 125 | 129 | 141 | 150 | 129 | 133 | 145 | 154 | 131 | 136 | 148 | 158 | 135 | 139 | 152 | 161 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

## MODEL: *SXC180361A* / CA*F4961*6** + TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. High Stage

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 1025 | MBh | 32.9 | 34.1 | 37.4 | - | 32.1 | 33.3 | 36.5 | - | 31.4 | 32.5 | 35.6 | - | 30.6 | 31.7 | 34.8 | - | 29.1 | 30.1 | 33.0 | - | 26.9 | 27.9 | 30.6 | - |
| | | S/T | 0.68 | 0.57 | 0.39 | - | 0.70 | 0.59 | 0.41 | - | 0.72 | 0.60 | 0.42 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.65 | 0.45 | - | 0.78 | 0.65 | 0.45 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 18 | 13 | - | 20 | 18 | 13 | - | 20 | 18 | 13 | - | 20 | 17 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 2.05 | 2.10 | 2.17 | - | 2.22 | 2.27 | 2.35 | - | 2.37 | 2.43 | 2.51 | - | 2.50 | 2.56 | 2.65 | - | 2.62 | 2.68 | 2.77 | - | 2.71 | 2.78 | 2.88 | - |
| | | AMPS | 8.1 | 8.3 | 8.5 | - | 8.7 | 9.0 | 9.3 | - | 9.5 | 9.8 | 10.1 | - | 10.2 | 10.5 | 10.8 | - | 10.9 | 11.2 | 11.5 | - | 11.6 | 11.8 | 12.3 | - |
| | | HI PR | 216 | 232 | 235 | - | 244 | 262 | 266 | - | 278 | 298 | 303 | - | 316 | 340 | 345 | - | 341 | 367 | 372 | - | 405 | 435 | 441 | - |
| | | LO PR | 116 | 120 | 131 | - | 120 | 123 | 135 | - | 124 | 127 | 139 | - | 127 | 131 | 143 | - | 129 | 134 | 146 | - | 133 | 137 | 149 | - |
| | 1175 | MBh | 35.6 | 36.9 | 40.5 | - | 34.8 | 36.1 | 39.5 | - | 34.0 | 35.2 | 38.6 | - | 33.2 | 34.4 | 37.7 | - | 31.5 | 32.7 | 35.8 | - | 29.2 | 30.2 | 33.1 | - |
| | | S/T | 0.70 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.45 | - | 0.80 | 0.67 | 0.46 | - | 0.81 | 0.67 | 0.47 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 2.07 | 2.12 | 2.19 | - | 2.24 | 2.29 | 2.37 | - | 2.39 | 2.45 | 2.53 | - | 2.53 | 2.59 | 2.68 | - | 2.64 | 2.70 | 2.80 | - | 2.74 | 2.80 | 2.90 | - |
| | | AMPS | 8.1 | 8.3 | 8.6 | - | 8.8 | 9.0 | 9.3 | - | 9.6 | 9.9 | 10.2 | - | 10.3 | 10.6 | 10.9 | - | 11.0 | 11.3 | 11.7 | - | 11.7 | 12.0 | 12.4 | - |
| | | HI PR | 218 | 234 | 238 | - | 246 | 265 | 269 | - | 280 | 301 | 306 | - | 319 | 343 | 348 | - | 345 | 371 | 376 | - | 409 | 439 | 446 | - |
| | | LO PR | 117 | 121 | 132 | - | 121 | 125 | 136 | - | 125 | 129 | 141 | - | 128 | 132 | 144 | - | 131 | 135 | 147 | - | 134 | 138 | 151 | - |
| | 1330 | MBh | 36.7 | 38.1 | 41.7 | - | 35.9 | 37.2 | 40.7 | - | 35.0 | 36.3 | 39.8 | - | 34.2 | 35.4 | 38.8 | - | 32.4 | 33.6 | 36.8 | - | 30.1 | 31.2 | 34.1 | - |
| | | S/T | 0.74 | 0.62 | 0.43 | - | 0.76 | 0.64 | 0.44 | - | 0.78 | 0.65 | 0.45 | - | 0.81 | 0.68 | 0.47 | - | 0.84 | 0.70 | 0.49 | - | 0.85 | 0.71 | 0.49 | - |
| | | Delta T | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 16 | 12 | - | 18 | 15 | 12 | - |
| | | KW | 2.09 | 2.14 | 2.21 | - | 2.26 | 2.31 | 2.39 | - | 2.41 | 2.47 | 2.56 | - | 2.55 | 2.61 | 2.70 | - | 2.66 | 2.73 | 2.82 | - | 2.76 | 2.83 | 2.93 | - |
| | | AMPS | 8.2 | 8.4 | 8.7 | - | 8.9 | 9.1 | 9.4 | - | 9.7 | 9.9 | 10.3 | - | 10.4 | 10.7 | 11.0 | - | 11.1 | 11.4 | 11.8 | - | 11.8 | 12.1 | 12.5 | - |
| | | HI PR | 220 | 237 | 240 | - | 249 | 268 | 271 | - | 283 | 304 | 309 | - | 322 | 347 | 352 | - | 348 | 374 | 380 | - | 413 | 444 | 450 | - |
| | | LO PR | 118 | 122 | 133 | - | 122 | 126 | 137 | - | 126 | 130 | 142 | - | 129 | 134 | 146 | - | 132 | 136 | 149 | - | 135 | 140 | 152 | - |
| 75 | 1025 | MBh | 33.5 | 34.5 | 37.3 | 40.0 | 32.7 | 33.6 | 36.4 | 39.1 | 31.9 | 32.8 | 35.6 | 38.2 | 31.1 | **32.0** | 34.7 | 37.2 | 29.6 | 30.4 | 33.0 | 35.4 | 27.4 | 28.2 | 30.5 | 32.8 |
| | | S/T | 0.77 | 0.69 | 0.52 | 0.34 | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | 0.73 | 0.55 | 0.36 | 0.85 | **0.76** | 0.57 | 0.37 | 0.88 | 0.79 | 0.59 | 0.38 | 0.89 | 0.79 | 0.60 | 0.39 |
| | | Delta T | 23 | 21 | 17 | 12 | 23 | 22 | 18 | 12 | 23 | 22 | 18 | 12 | 24 | **22** | 18 | 12 | 23 | 21 | 18 | 12 | 22 | 20 | 16 | 11 |
| | | KW | 2.05 | 2.10 | 2.17 | 2.24 | 2.22 | 2.27 | 2.35 | 2.43 | 2.37 | 2.43 | 2.51 | 2.60 | 2.50 | **2.56** | 2.65 | 2.75 | 2.62 | 2.68 | 2.77 | 2.87 | 2.71 | 2.78 | 2.88 | 2.98 |
| | | AMPS | 8.1 | 8.3 | 8.5 | 8.9 | 8.7 | 9.0 | 9.3 | 9.6 | 9.5 | 9.8 | 10.1 | 10.5 | 10.2 | **10.5** | 10.8 | 11.2 | 10.9 | 11.2 | 11.5 | 12.0 | 11.6 | 11.8 | 12.3 | 12.7 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 278 | 298 | 303 | 309 | 316 | **340** | 345 | 352 | 341 | 367 | 372 | 380 | 405 | 435 | 441 | 451 |
| | | LO PR | 116 | 120 | 131 | 139 | 120 | 123 | 135 | 143 | 124 | 127 | 139 | 148 | 127 | **131** | 143 | 152 | 129 | 134 | 146 | 155 | 133 | 137 | 149 | 159 |
| | 1175 | MBh | 36.3 | 37.3 | 40.4 | 43.4 | 35.4 | 36.5 | 39.5 | 42.4 | 34.6 | 35.6 | 38.5 | 41.3 | 33.7 | **34.7** | 37.6 | 40.3 | 32.0 | 33.0 | 35.7 | 38.3 | 29.7 | 30.6 | 33.1 | 35.5 |
| | | S/T | 0.80 | 0.72 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | **0.78** | 0.59 | 0.38 | 0.91 | 0.81 | 0.62 | 0.40 | 0.92 | 0.82 | 0.62 | 0.40 |
| | | Delta T | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | **21** | 17 | 12 | 23 | 21 | 17 | 12 | 21 | 20 | 16 | 11 |
| | | KW | 2.07 | 2.12 | 2.19 | 2.26 | 2.24 | 2.29 | 2.37 | 2.45 | 2.39 | 2.45 | 2.53 | 2.62 | 2.53 | **2.59** | 2.68 | 2.77 | 2.64 | 2.70 | 2.80 | 2.90 | 2.74 | 2.80 | 2.90 | 3.01 |
| | | AMPS | 8.1 | 8.3 | 8.6 | 9.0 | 8.8 | 9.0 | 9.3 | 9.7 | 9.6 | 9.9 | 10.2 | 10.6 | 10.3 | **10.6** | 10.9 | 11.4 | 11.0 | 11.3 | 11.7 | 12.1 | 11.7 | 12.0 | 12.4 | 12.9 |
| | | HI PR | 218 | 234 | 238 | 243 | 246 | 265 | 269 | 275 | 280 | 301 | 306 | 312 | 319 | **343** | 348 | 356 | 345 | 371 | 376 | 384 | 409 | 439 | 446 | 455 |
| | | LO PR | 117 | 121 | 132 | 141 | 121 | 125 | 136 | 145 | 125 | 129 | 141 | 150 | 128 | **132** | 144 | 154 | 131 | 135 | 147 | 157 | 134 | 138 | 151 | 161 |
| | 1330 | MBh | 37.3 | 38.4 | 41.6 | 44.7 | 36.5 | 37.5 | 40.6 | 43.6 | 35.6 | 36.7 | 39.7 | 42.6 | 34.7 | **35.8** | 38.7 | 41.5 | 33.0 | 34.0 | 36.8 | 39.5 | 30.6 | 31.5 | 34.1 | 36.6 |
| | | S/T | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.92 | **0.82** | 0.62 | 0.40 | 0.95 | 0.85 | 0.65 | 0.42 | 0.96 | 0.86 | 0.65 | 0.42 |
| | | Delta T | 22 | 20 | 16 | 11 | 22 | 20 | 17 | 11 | 22 | 20 | 17 | 11 | 22 | **20** | 17 | 12 | 22 | 20 | 16 | 11 | 20 | 19 | 15 | 11 |
| | | KW | 2.09 | 2.14 | 2.21 | 2.28 | 2.26 | 2.31 | 2.39 | 2.48 | 2.41 | 2.47 | 2.56 | 2.65 | 2.55 | **2.61** | 2.70 | 2.80 | 2.66 | 2.73 | 2.82 | 2.92 | 2.76 | 2.83 | 2.93 | 3.03 |
| | | AMPS | 8.2 | 8.4 | 8.7 | 9.0 | 8.9 | 9.1 | 9.4 | 9.8 | 9.7 | 9.9 | 10.3 | 10.7 | 10.4 | **10.7** | 11.0 | 11.5 | 11.1 | 11.4 | 11.8 | 12.2 | 11.8 | 12.1 | 12.5 | 13.0 |
| | | HI PR | 220 | 237 | 240 | 245 | 249 | 268 | 271 | 277 | 283 | 304 | 309 | 316 | 322 | **347** | 352 | 359 | 348 | 374 | 380 | 388 | 413 | 444 | 450 | 460 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 126 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | **134** | 146 | 155 | 132 | 136 | 149 | 158 | 135 | 140 | 152 | 162 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

**MODEL: *SXC180361A* / CA*F4961*6** + TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. High Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 1025 | MBh | 34.1 | 34.8 | 37.2 | 39.7 | 33.3 | 34.0 | 36.3 | 38.8 | 32.5 | 33.2 | 35.4 | 37.9 | 31.7 | 32.4 | 34.6 | 37.0 | 30.1 | 30.8 | 32.9 | 35.1 | 27.9 | 28.5 | 30.4 | 32.5 |
| | | S/T | 0.85 | 0.79 | 0.65 | 0.48 | 0.88 | 0.82 | 0.67 | 0.50 | 0.90 | 0.84 | 0.69 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.74 | 0.55 | 0.97 | 0.91 | 0.74 | 0.55 |
| | | Delta T | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 18 | 26 | 25 | 22 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.05 | 2.10 | 2.17 | 2.24 | 2.22 | 2.27 | 2.35 | 2.43 | 2.37 | 2.43 | 2.51 | 2.60 | 2.50 | 2.56 | 2.65 | 2.75 | 2.62 | 2.68 | 2.77 | 2.87 | 2.71 | 2.78 | 2.88 | 2.98 |
| | | AMPS | 8.1 | 8.3 | 8.5 | 8.9 | 8.7 | 9.0 | 9.3 | 9.6 | 9.5 | 9.8 | 10.1 | 10.5 | 10.2 | 10.5 | 10.8 | 11.2 | 10.9 | 11.2 | 11.5 | 12.0 | 11.6 | 11.8 | 12.3 | 12.7 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 278 | 298 | 303 | 309 | 316 | 340 | 345 | 352 | 341 | 367 | 372 | 380 | 405 | 435 | 441 | 451 |
| | | LO PR | 116 | 120 | 131 | 139 | 120 | 123 | 135 | 143 | 124 | 127 | 139 | 148 | 127 | 131 | 143 | 152 | 129 | 134 | 146 | 155 | 133 | 137 | 149 | 159 |
| | 1175 | MBh | 36.9 | 37.7 | 40.3 | 43.1 | 36.0 | 36.8 | 39.3 | 42.1 | 35.2 | 35.9 | 38.4 | 41.1 | 34.3 | 35.1 | **37.5** | 40.1 | 32.6 | 33.3 | 35.6 | 38.1 | 30.2 | 30.9 | 33.0 | 35.2 |
| | | S/T | 0.88 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | **0.73** | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.94 | 0.77 | 0.57 |
| | | Delta T | 25 | 24 | 21 | 17 | 26 | 25 | 21 | 17 | 26 | 25 | 21 | 17 | 26 | 25 | **22** | 17 | 25 | 24 | 21 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.07 | 2.12 | 2.19 | 2.26 | 2.24 | 2.29 | 2.37 | 2.45 | 2.39 | 2.45 | 2.53 | 2.62 | 2.53 | 2.59 | **2.68** | 2.77 | 2.64 | 2.70 | 2.80 | 2.90 | 2.74 | 2.80 | 2.90 | 3.01 |
| | | AMPS | 8.1 | 8.3 | 8.6 | 9.0 | 8.8 | 9.0 | 9.3 | 9.7 | 9.6 | 9.9 | 10.2 | 10.6 | 10.3 | 10.6 | **10.9** | 11.4 | 11.0 | 11.3 | 11.7 | 12.1 | 11.7 | 12.0 | 12.4 | 12.9 |
| | | HI PR | 218 | 234 | 238 | 243 | 246 | 265 | 269 | 275 | 280 | 301 | 306 | 312 | 319 | 343 | **348** | 356 | 345 | 371 | 376 | 384 | 409 | 439 | 446 | 455 |
| | | LO PR | 117 | 121 | 132 | 141 | 121 | 125 | 136 | 145 | 125 | 129 | 141 | 150 | 128 | 132 | **144** | 154 | 131 | 135 | 147 | 157 | 134 | 138 | 151 | 161 |
| | 1330 | MBh | 38.0 | 38.8 | 41.5 | 44.4 | 37.1 | 37.9 | 40.5 | 43.3 | 36.2 | 37.0 | 39.6 | 42.3 | 35.4 | 36.1 | 38.6 | 41.3 | 33.6 | 34.3 | 36.7 | 39.2 | 31.1 | 31.8 | 34.0 | 36.3 |
| | | S/T | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.73 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 1.00 | 0.80 | 0.60 | 1.00 | 1.00 | 0.81 | 0.60 |
| | | Delta T | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 25 | 23 | 20 | 16 | 24 | 24 | 21 | 16 | 23 | 24 | 20 | 16 | 22 | 22 | 19 | 15 |
| | | KW | 2.09 | 2.14 | 2.21 | 2.28 | 2.26 | 2.31 | 2.39 | 2.48 | 2.41 | 2.47 | 2.56 | 2.65 | 2.55 | 2.61 | 2.70 | 2.80 | 2.66 | 2.73 | 2.82 | 2.92 | 2.76 | 2.83 | 2.93 | 3.03 |
| | | AMPS | 8.2 | 8.4 | 8.7 | 9.0 | 8.9 | 9.1 | 9.4 | 9.8 | 9.7 | 9.9 | 10.3 | 10.7 | 10.4 | 10.7 | 11.0 | 11.5 | 11.1 | 11.4 | 11.8 | 12.2 | 11.8 | 12.1 | 12.5 | 13.0 |
| | | HI PR | 220 | 237 | 240 | 245 | 249 | 268 | 271 | 277 | 283 | 304 | 309 | 316 | 322 | 347 | 352 | 359 | 348 | 374 | 380 | 388 | 413 | 444 | 450 | 460 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 126 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | 134 | 146 | 155 | 132 | 136 | 149 | 158 | 135 | 140 | 152 | 162 |
| 85 | 1025 | MBh | 34.6 | 35.3 | 37.0 | 39.5 | 33.8 | 34.5 | 36.1 | 38.5 | 33.0 | 33.7 | 35.3 | 37.6 | 32.2 | 32.9 | 34.4 | 36.7 | 30.6 | 31.2 | 32.7 | 34.9 | 28.4 | 28.9 | 30.3 | 32.3 |
| | | S/T | 0.89 | 0.86 | 0.77 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.94 | 0.91 | 0.82 | 0.67 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 0.98 | 0.89 | 0.72 |
| | | Delta T | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 28 | 28 | 26 | 23 | 27 | 27 | 26 | 22 | 25 | 25 | 24 | 21 |
| | | KW | 2.05 | 2.10 | 2.17 | 2.24 | 2.22 | 2.27 | 2.35 | 2.43 | 2.37 | 2.43 | 2.51 | 2.60 | 2.50 | 2.56 | 2.65 | 2.75 | 2.62 | 2.68 | 2.77 | 2.87 | 2.71 | 2.78 | 2.88 | 2.98 |
| | | AMPS | 8.1 | 8.3 | 8.5 | 8.9 | 8.7 | 9.0 | 9.3 | 9.6 | 9.5 | 9.8 | 10.1 | 10.5 | 10.2 | 10.5 | 10.8 | 11.2 | 10.9 | 11.2 | 11.5 | 12.0 | 11.6 | 11.8 | 12.3 | 12.7 |
| | | HI PR | 216 | 232 | 235 | 241 | 244 | 262 | 266 | 272 | 278 | 298 | 303 | 309 | 316 | 340 | 345 | 352 | 341 | 367 | 372 | 380 | 405 | 435 | 441 | 451 |
| | | LO PR | 116 | 120 | 131 | 139 | 120 | 123 | 135 | 143 | 124 | 127 | 139 | 148 | 127 | 131 | 143 | 152 | 129 | 134 | 146 | 155 | 133 | 137 | 149 | 159 |
| | 1175 | MBh | 37.5 | 38.3 | 40.1 | 42.8 | 36.7 | 37.4 | 39.1 | 41.8 | 35.8 | 36.5 | 38.2 | 40.8 | 34.9 | 35.6 | 37.3 | 39.8 | 33.2 | 33.8 | 35.4 | 37.8 | 30.7 | 31.3 | 32.8 | 35.0 |
| | | S/T | 0.92 | 0.89 | 0.80 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.92 | 0.75 |
| | | Delta T | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 26 | 22 | 26 | 26 | 25 | 22 | 24 | 25 | 24 | 20 |
| | | KW | 2.07 | 2.12 | 2.19 | 2.26 | 2.24 | 2.29 | 2.37 | 2.45 | 2.39 | 2.45 | 2.53 | 2.62 | 2.53 | 2.59 | 2.68 | 2.77 | 2.64 | 2.70 | 2.80 | 2.90 | 2.74 | 2.80 | 2.90 | 3.01 |
| | | AMPS | 8.1 | 8.3 | 8.6 | 9.0 | 8.8 | 9.0 | 9.3 | 9.7 | 9.6 | 9.9 | 10.2 | 10.6 | 10.3 | 10.6 | 10.9 | 11.4 | 11.0 | 11.3 | 11.7 | 12.1 | 11.7 | 12.0 | 12.4 | 12.9 |
| | | HI PR | 218 | 234 | 238 | 243 | 246 | 265 | 269 | 275 | 280 | 301 | 306 | 312 | 319 | 343 | 348 | 356 | 345 | 371 | 376 | 384 | 409 | 439 | 446 | 455 |
| | | LO PR | 117 | 121 | 132 | 141 | 121 | 125 | 136 | 145 | 125 | 129 | 141 | 150 | 128 | 132 | 144 | 154 | 131 | 135 | 147 | 157 | 134 | 138 | 151 | 161 |
| | 1330 | MBh | 38.7 | 39.4 | 41.3 | 44.0 | 37.8 | 38.5 | 40.3 | 43.0 | 36.9 | 37.6 | 39.4 | 42.0 | 36.0 | 36.7 | 38.4 | 41.0 | 34.2 | 34.8 | 36.5 | 38.9 | 31.7 | 32.3 | 33.8 | 36.1 |
| | | S/T | 0.96 | 0.93 | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.99 | 0.89 | 0.72 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.96 | 0.78 |
| | | Delta T | 26 | 25 | 24 | 21 | 26 | 26 | 24 | 21 | 25 | 26 | 24 | 21 | 25 | 25 | 24 | 21 | 24 | 24 | 24 | 21 | 22 | 22 | 23 | 19 |
| | | KW | 2.09 | 2.14 | 2.21 | 2.28 | 2.26 | 2.31 | 2.39 | 2.48 | 2.41 | 2.47 | 2.56 | 2.65 | 2.55 | 2.61 | 2.70 | 2.80 | 2.66 | 2.73 | 2.82 | 2.92 | 2.76 | 2.83 | 2.93 | 3.03 |
| | | AMPS | 8.2 | 8.4 | 8.7 | 9.0 | 8.9 | 9.1 | 9.4 | 9.8 | 9.7 | 9.9 | 10.3 | 10.7 | 10.4 | 10.7 | 11.0 | 11.5 | 11.1 | 11.4 | 11.8 | 12.2 | 11.8 | 12.1 | 12.5 | 13.0 |
| | | HI PR | 220 | 237 | 240 | 245 | 249 | 268 | 271 | 277 | 283 | 304 | 309 | 316 | 322 | 347 | 352 | 359 | 348 | 374 | 380 | 388 | 413 | 444 | 450 | 460 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 126 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | 134 | 146 | 155 | 132 | 136 | 149 | 158 | 135 | 140 | 152 | 162 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**MODEL: *SXC180481A* / CA*F4961*6** + TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. High Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 1530 | MBh | 43.2 | 44.8 | 49.1 | - | 42.2 | 43.7 | 47.9 | - | 41.2 | 42.7 | 46.8 | - | 40.2 | 41.7 | 45.6 | - | 38.2 | 39.6 | 43.4 | - | 35.4 | 36.7 | 40.2 | - |
| | | S/T | 0.70 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.45 | - | 0.80 | 0.67 | 0.46 | - | 0.81 | 0.67 | 0.47 | - |
| | | Delta T | 18 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 2.83 | 2.89 | 2.98 | - | 3.05 | 3.12 | 3.22 | - | 3.24 | 3.32 | 3.43 | - | 3.42 | 3.49 | 3.61 | - | 3.56 | 3.64 | 3.76 | - | 3.69 | 3.77 | 3.90 | - |
| | | AMPS | 10.0 | 10.3 | 10.6 | - | 10.9 | 11.1 | 11.5 | - | 11.9 | 12.2 | 12.6 | - | 12.7 | 13.0 | 13.5 | - | 13.6 | 13.9 | 14.4 | - | 14.4 | 14.8 | 15.3 | - |
| | | HI PR | 223 | 240 | 243 | - | 252 | 271 | 275 | - | 287 | 308 | 313 | - | 327 | 351 | 356 | - | 367 | 395 | 401 | - | 411 | 442 | 449 | - |
| | | LO PR | 118 | 122 | 133 | - | 122 | 125 | 137 | - | 126 | 130 | 142 | - | 129 | 133 | 145 | - | 132 | 136 | 148 | - | 135 | 139 | 152 | - |
| | 1750 | MBh | 46.8 | 48.5 | 53.2 | - | 45.7 | 47.4 | 51.9 | - | 44.6 | 46.3 | 50.7 | - | 43.5 | 45.1 | 49.5 | - | 41.4 | 42.9 | 47.0 | - | 38.3 | 39.7 | 43.5 | - |
| | | S/T | 0.73 | 0.61 | 0.42 | - | 0.76 | 0.63 | 0.44 | - | 0.78 | 0.65 | 0.45 | - | 0.80 | 0.67 | 0.46 | - | 0.83 | 0.69 | 0.48 | - | 0.84 | 0.70 | 0.48 | - |
| | | Delta T | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 2.85 | 2.91 | 3.01 | - | 3.07 | 3.14 | 3.24 | - | 3.27 | 3.34 | 3.45 | - | 3.44 | 3.52 | 3.64 | - | 3.59 | 3.67 | 3.80 | - | 3.72 | 3.80 | 3.93 | - |
| | | AMPS | 10.1 | 10.4 | 10.7 | - | 11.0 | 11.2 | 11.6 | - | 12.0 | 12.3 | 12.7 | - | 12.8 | 13.2 | 13.6 | - | 13.7 | 14.0 | 14.5 | - | 14.5 | 14.9 | 15.4 | - |
| | | HI PR | 225 | 242 | 246 | - | 255 | 274 | 278 | - | 290 | 311 | 316 | - | 330 | 355 | 360 | - | 371 | 399 | 405 | - | 416 | 447 | 453 | - |
| | | LO PR | 119 | 123 | 134 | - | 123 | 127 | 138 | - | 127 | 131 | 143 | - | 130 | 135 | 147 | - | 133 | 137 | 150 | - | 136 | 141 | 154 | - |
| | 1970 | MBh | 48.2 | 50.0 | 54.8 | - | 47.1 | 48.8 | 53.5 | - | 46.0 | 47.7 | 52.2 | - | 44.9 | 46.5 | 50.9 | - | 42.6 | 44.2 | 48.4 | - | 39.5 | 40.9 | 44.8 | - |
| | | S/T | 0.77 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.81 | 0.68 | 0.47 | - | 0.84 | 0.70 | 0.49 | - | 0.87 | 0.73 | 0.50 | - | 0.88 | 0.73 | 0.51 | - |
| | | Delta T | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 18 | 15 | 12 | - | 17 | 15 | 11 | - | 16 | 14 | 11 | - |
| | | KW | 2.87 | 2.94 | 3.03 | - | 3.10 | 3.17 | 3.27 | - | 3.30 | 3.37 | 3.48 | - | 3.47 | 3.55 | 3.67 | - | 3.62 | 3.70 | 3.83 | - | 3.75 | 3.84 | 3.97 | - |
| | | AMPS | 10.2 | 10.5 | 10.8 | - | 11.1 | 11.4 | 11.7 | - | 12.1 | 12.4 | 12.8 | - | 13.0 | 13.3 | 13.7 | - | 13.8 | 14.2 | 14.7 | - | 14.7 | 15.1 | 15.6 | - |
| | | HI PR | 228 | 245 | 248 | - | 257 | 277 | 280 | - | 292 | 315 | 319 | - | 333 | 358 | 363 | - | 375 | 403 | 409 | - | 420 | 451 | 458 | - |
| | | LO PR | 121 | 124 | 136 | - | 124 | 128 | 140 | - | 128 | 132 | 145 | - | 132 | 136 | 148 | - | 134 | 139 | 151 | - | 138 | 142 | 155 | - |
| 75 | 1530 | MBh | 43.9 | 45.2 | 49.0 | 52.6 | 42.9 | 44.2 | 47.8 | 51.3 | 41.9 | 43.1 | 46.7 | 50.1 | 40.9 | **42.1** | 45.6 | 48.9 | 38.8 | 40.0 | 43.3 | 46.4 | 36.0 | 37.0 | 40.1 | 43.0 |
| | | S/T | 0.80 | 0.72 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | **0.79** | 0.59 | 0.38 | 0.91 | 0.81 | 0.62 | 0.40 | 0.92 | 0.82 | 0.62 | 0.40 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 20 | 16 | 11 | 22 | **20** | 16 | 11 | 21 | 20 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 2.83 | 2.89 | 2.98 | 3.08 | 3.05 | 3.12 | 3.22 | 3.32 | 3.24 | 3.32 | 3.43 | 3.54 | 3.42 | **3.49** | 3.61 | 3.73 | 3.56 | 3.64 | 3.76 | 3.89 | 3.69 | 3.77 | 3.90 | 4.03 |
| | | AMPS | 10.0 | 10.3 | 10.6 | 11.0 | 10.9 | 11.1 | 11.5 | 12.0 | 11.9 | 12.2 | 12.6 | 13.1 | 12.7 | **13.0** | 13.5 | 14.0 | 13.6 | 13.9 | 14.4 | 15.0 | 14.4 | 14.8 | 15.3 | 15.9 |
| | | HI PR | 223 | 240 | 243 | 249 | 252 | 271 | 275 | 281 | 287 | 308 | 313 | 320 | 327 | **351** | 356 | 364 | 367 | 395 | 401 | 409 | 411 | 442 | 449 | 459 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 125 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | **133** | 145 | 155 | 132 | 136 | 148 | 158 | 135 | 139 | 152 | 162 |
| | 1750 | MBh | 47.6 | 49.0 | 53.1 | 56.9 | 46.5 | 47.9 | 51.8 | 55.6 | 45.4 | 46.7 | 50.6 | 54.3 | 44.3 | **45.6** | 49.4 | 53.0 | 42.1 | 43.3 | 46.9 | 50.3 | 39.0 | 40.1 | 43.4 | 46.6 |
| | | S/T | 0.83 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | **0.81** | 0.62 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | **20** | 16 | 11 | 21 | 19 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 2.85 | 2.91 | 3.01 | 3.10 | 3.07 | 3.14 | 3.24 | 3.35 | 3.27 | 3.34 | 3.45 | 3.57 | 3.44 | **3.52** | 3.64 | 3.76 | 3.59 | 3.67 | 3.80 | 3.93 | 3.72 | 3.80 | 3.93 | 4.07 |
| | | AMPS | 10.1 | 10.4 | 10.7 | 11.1 | 11.0 | 11.2 | 11.6 | 12.1 | 12.0 | 12.3 | 12.7 | 13.2 | 12.8 | **13.2** | 13.6 | 14.2 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.9 | 15.4 | 16.0 |
| | | HI PR | 225 | 242 | 246 | 251 | 255 | 274 | 278 | 284 | 290 | 311 | 316 | 323 | 330 | **355** | 360 | 368 | 371 | 399 | 405 | 414 | 416 | 447 | 453 | 463 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | **135** | 147 | 156 | 133 | 137 | 150 | 160 | 136 | 141 | 154 | 163 |
| | 1970 | MBh | 49.0 | 50.5 | 54.6 | 58.7 | 47.9 | 49.3 | 53.4 | 57.3 | 46.8 | 48.1 | 52.1 | 55.9 | 45.6 | **47.0** | 50.8 | 54.6 | 43.3 | 44.6 | 48.3 | 51.8 | 40.1 | 41.3 | 44.7 | 48.0 |
| | | S/T | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.92 | 0.83 | 0.63 | 0.40 | 0.95 | **0.85** | 0.65 | 0.42 | 0.99 | 0.89 | 0.67 | 0.43 | 1.00 | 0.89 | 0.68 | 0.44 |
| | | Delta T | 20 | 18 | 15 | 10 | 20 | 19 | 15 | 10 | 20 | 19 | 15 | 11 | 20 | **19** | 15 | 11 | 20 | 18 | 15 | 10 | 19 | 17 | 14 | 10 |
| | | KW | 2.87 | 2.94 | 3.03 | 3.13 | 3.10 | 3.17 | 3.27 | 3.38 | 3.30 | 3.37 | 3.48 | 3.60 | 3.47 | **3.55** | 3.67 | 3.80 | 3.62 | 3.70 | 3.83 | 3.96 | 3.75 | 3.84 | 3.97 | 4.10 |
| | | AMPS | 10.2 | 10.5 | 10.8 | 11.2 | 11.1 | 11.4 | 11.7 | 12.2 | 12.1 | 12.4 | 12.8 | 13.3 | 13.0 | **13.3** | 13.7 | 14.3 | 13.8 | 14.2 | 14.7 | 15.3 | 14.7 | 15.1 | 15.6 | 16.2 |
| | | HI PR | 228 | 245 | 248 | 254 | 257 | 277 | 280 | 287 | 292 | 315 | 319 | 326 | 333 | **358** | 363 | 371 | 375 | 403 | 409 | 418 | 420 | 451 | 458 | 468 |
| | | LO PR | 121 | 124 | 136 | 145 | 124 | 128 | 140 | 149 | 128 | 132 | 145 | 154 | 132 | **136** | 148 | 158 | 134 | 139 | 151 | 161 | 138 | 142 | 155 | 165 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

**MODEL: *SXC180481A* / CA*F4961*6** + TXV / MBVC2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. High Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 1530 | MBh | 44.7 | 45.7 | 48.8 | 52.2 | 43.7 | 44.6 | 47.7 | 51.0 | 42.6 | 43.6 | 46.6 | 49.8 | 41.6 | 42.5 | 45.4 | 48.6 | 39.5 | 40.4 | 43.1 | 46.1 | 36.6 | 37.4 | 40.0 | 42.7 |
| | | S/T | 0.88 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.01 | 0.94 | 0.77 | 0.57 |
| | | Delta T | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 22 | 21 | 18 | 15 |
| | | KW | 2.83 | 2.89 | 2.98 | 3.08 | 3.05 | 3.12 | 3.22 | 3.32 | 3.24 | 3.32 | 3.43 | 3.54 | 3.42 | 3.49 | 3.61 | 3.73 | 3.56 | 3.64 | 3.76 | 3.89 | 3.69 | 3.77 | 3.90 | 4.03 |
| | | AMPS | 10.0 | 10.3 | 10.6 | 11.0 | 10.9 | 11.1 | 11.5 | 12.0 | 11.9 | 12.2 | 12.6 | 13.1 | 12.7 | 13.0 | 13.5 | 14.0 | 13.6 | 13.9 | 14.4 | 15.0 | 14.4 | 14.8 | 15.3 | 15.9 |
| | | HI PR | 223 | 240 | 243 | 249 | 252 | 271 | 275 | 281 | 287 | 308 | 313 | 320 | 327 | 351 | 356 | 364 | 367 | 395 | 401 | 409 | 411 | 442 | 449 | 459 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 125 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 155 | 132 | 136 | 148 | 158 | 135 | 139 | 152 | 162 |
| | 1750 | MBh | 48.5 | 49.5 | 52.9 | 56.5 | 47.3 | 48.4 | 51.7 | 55.2 | 46.2 | 47.2 | 50.4 | 53.9 | 45.1 | 46.1 | **49.2** | 52.6 | 42.8 | 43.8 | 46.7 | 50.0 | 39.7 | 40.5 | 43.3 | 46.3 |
| | | S/T | 0.91 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | **0.76** | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.98 | 0.80 | 0.60 |
| | | Delta T | 23 | 22 | 19 | 15 | 23 | 22 | 20 | 16 | 23 | 22 | 20 | 16 | 24 | 23 | **20** | 16 | 22 | 22 | 19 | 16 | 21 | 21 | 18 | 14 |
| | | KW | 2.85 | 2.91 | 3.01 | 3.10 | 3.07 | 3.14 | 3.24 | 3.35 | 3.27 | 3.34 | 3.45 | 3.57 | 3.44 | 3.52 | **3.64** | 3.76 | 3.59 | 3.67 | 3.80 | 3.93 | 3.72 | 3.80 | 3.93 | 4.07 |
| | | AMPS | 10.1 | 10.4 | 10.7 | 11.1 | 11.0 | 11.2 | 11.6 | 12.1 | 12.0 | 12.3 | 12.7 | 13.2 | 12.8 | 13.2 | **13.6** | 14.2 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.9 | 15.4 | 16.0 |
| | | HI PR | 225 | 242 | 246 | 251 | 255 | 274 | 278 | 284 | 290 | 311 | 316 | 323 | 330 | 355 | **360** | 368 | 371 | 399 | 405 | 414 | 416 | 447 | 453 | 463 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | 135 | **147** | 156 | 133 | 137 | 150 | 160 | 136 | 141 | 154 | 163 |
| | 1970 | MBh | 49.9 | 51.0 | 54.5 | 58.2 | 48.7 | 49.8 | 53.2 | 56.9 | 47.6 | 48.6 | 52.0 | 55.5 | 46.4 | 47.4 | 50.7 | 54.2 | 44.1 | 45.1 | 48.1 | 51.5 | 40.9 | 41.7 | 44.6 | 47.7 |
| | | S/T | 0.95 | 0.89 | 0.73 | 0.54 | 1.00 | 0.93 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 1.00 | 0.80 | 0.60 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.84 | 0.63 |
| | | Delta T | 22 | 21 | 19 | 15 | 23 | 22 | 19 | 15 | 22 | 22 | 19 | 15 | 22 | 22 | 19 | 15 | 21 | 21 | 19 | 15 | 19 | 19 | 17 | 14 |
| | | KW | 2.87 | 2.94 | 3.03 | 3.13 | 3.10 | 3.17 | 3.27 | 3.38 | 3.30 | 3.37 | 3.48 | 3.60 | 3.47 | 3.55 | 3.67 | 3.80 | 3.62 | 3.70 | 3.83 | 3.96 | 3.75 | 3.84 | 3.97 | 4.10 |
| | | AMPS | 10.2 | 10.5 | 10.8 | 11.2 | 11.1 | 11.4 | 11.7 | 12.2 | 12.1 | 12.4 | 12.8 | 13.3 | 13.0 | 13.3 | 13.7 | 14.3 | 13.8 | 14.2 | 14.7 | 15.3 | 14.7 | 15.1 | 15.6 | 16.2 |
| | | HI PR | 228 | 245 | 248 | 254 | 257 | 277 | 280 | 287 | 292 | 315 | 319 | 326 | 333 | 358 | 363 | 371 | 375 | 403 | 409 | 418 | 420 | 451 | 458 | 468 |
| | | LO PR | 121 | 124 | 136 | 145 | 124 | 128 | 140 | 149 | 128 | 132 | 145 | 154 | 132 | 136 | 148 | 158 | 134 | 139 | 151 | 161 | 138 | 142 | 155 | 165 |
| 85 | 1530 | MBh | 45.5 | 46.4 | 48.6 | 51.8 | 44.4 | 45.3 | 47.5 | 50.6 | 43.4 | 44.2 | 46.3 | 49.4 | 42.3 | 43.1 | 45.2 | 48.2 | 40.2 | 41.0 | 42.9 | 45.8 | 37.3 | 38.0 | 39.8 | 42.4 |
| | | S/T | 0.92 | 0.89 | 0.80 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.92 | 0.75 |
| | | Delta T | 25 | 25 | 23 | 20 | 25 | 25 | 24 | 20 | 25 | 25 | 24 | 21 | 25 | 25 | 24 | 21 | 24 | 25 | 24 | 20 | 22 | 23 | 22 | 19 |
| | | KW | 2.83 | 2.89 | 2.98 | 3.08 | 3.05 | 3.12 | 3.22 | 3.32 | 3.24 | 3.32 | 3.43 | 3.54 | 3.42 | 3.49 | 3.61 | 3.73 | 3.56 | 3.64 | 3.76 | 3.89 | 3.69 | 3.77 | 3.90 | 4.03 |
| | | AMPS | 10.0 | 10.3 | 10.6 | 11.0 | 10.9 | 11.1 | 11.5 | 12.0 | 11.9 | 12.2 | 12.6 | 13.1 | 12.7 | 13.0 | 13.5 | 14.0 | 13.6 | 13.9 | 14.4 | 15.0 | 14.4 | 14.8 | 15.3 | 15.9 |
| | | HI PR | 223 | 240 | 243 | 249 | 252 | 271 | 275 | 281 | 287 | 308 | 313 | 320 | 327 | 351 | 356 | 364 | 367 | 395 | 401 | 409 | 411 | 442 | 449 | 459 |
| | | LO PR | 118 | 122 | 133 | 142 | 122 | 125 | 137 | 146 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 155 | 132 | 136 | 148 | 158 | 135 | 139 | 152 | 162 |
| | 1750 | MBh | 49.3 | 50.3 | 52.6 | 56.2 | 48.2 | 49.1 | 51.4 | 54.8 | 47.0 | 47.9 | 50.2 | 53.5 | 45.9 | 46.7 | 49.0 | 52.2 | 43.6 | 44.4 | 46.5 | 49.6 | 40.4 | 41.1 | 43.1 | 46.0 |
| | | S/T | 0.95 | 0.92 | 0.83 | 0.67 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.72 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.95 | 0.77 |
| | | Delta T | 25 | 24 | 23 | 20 | 25 | 25 | 23 | 20 | 25 | 25 | 23 | 20 | 24 | 25 | 23 | 20 | 23 | 23 | 23 | 20 | 21 | 22 | 22 | 19 |
| | | KW | 2.85 | 2.91 | 3.01 | 3.10 | 3.07 | 3.14 | 3.24 | 3.35 | 3.27 | 3.34 | 3.45 | 3.57 | 3.44 | 3.52 | 3.64 | 3.76 | 3.59 | 3.67 | 3.80 | 3.93 | 3.72 | 3.80 | 3.93 | 4.07 |
| | | AMPS | 10.1 | 10.4 | 10.7 | 11.1 | 11.0 | 11.2 | 11.6 | 12.1 | 12.0 | 12.3 | 12.7 | 13.2 | 12.8 | 13.2 | 13.6 | 14.2 | 13.7 | 14.0 | 14.5 | 15.1 | 14.5 | 14.9 | 15.4 | 16.0 |
| | | HI PR | 225 | 242 | 246 | 251 | 255 | 274 | 278 | 284 | 290 | 311 | 316 | 323 | 330 | 355 | 360 | 368 | 371 | 399 | 405 | 414 | 416 | 447 | 453 | 463 |
| | | LO PR | 119 | 123 | 134 | 143 | 123 | 127 | 138 | 147 | 127 | 131 | 143 | 152 | 130 | 135 | 147 | 156 | 133 | 137 | 150 | 160 | 136 | 141 | 154 | 163 |
| | 1970 | MBh | 50.8 | 51.8 | 54.2 | 57.8 | 49.6 | 50.6 | 53.0 | 56.5 | 48.4 | 49.4 | 51.7 | 55.1 | 47.2 | 48.2 | 50.4 | 53.8 | 44.9 | 45.7 | 47.9 | 51.1 | 41.6 | 42.4 | 44.4 | 47.3 |
| | | S/T | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.75 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.99 | 0.80 | 1.00 | 1.00 | 1.00 | 0.81 |
| | | Delta T | 24 | 23 | 22 | 19 | 23 | 24 | 22 | 19 | 23 | 23 | 22 | 19 | 22 | 22 | 22 | 19 | 21 | 21 | 22 | 19 | 19 | 20 | 21 | 18 |
| | | KW | 2.87 | 2.94 | 3.03 | 3.13 | 3.10 | 3.17 | 3.27 | 3.38 | 3.30 | 3.37 | 3.48 | 3.60 | 3.47 | 3.55 | 3.67 | 3.80 | 3.62 | 3.70 | 3.83 | 3.96 | 3.75 | 3.84 | 3.97 | 4.10 |
| | | AMPS | 10.2 | 10.5 | 10.8 | 11.2 | 11.1 | 11.4 | 11.7 | 12.2 | 12.1 | 12.4 | 12.8 | 13.3 | 13.0 | 13.3 | 13.7 | 14.3 | 13.8 | 14.2 | 14.7 | 15.3 | 14.7 | 15.1 | 15.6 | 16.2 |
| | | HI PR | 228 | 245 | 248 | 254 | 257 | 277 | 280 | 287 | 292 | 315 | 319 | 326 | 333 | 358 | 363 | 371 | 375 | 403 | 409 | 418 | 420 | 451 | 458 | 468 |
| | | LO PR | 121 | 124 | 136 | 145 | 124 | 128 | 140 | 149 | 128 | 132 | 145 | 154 | 132 | 136 | 148 | 158 | 134 | 139 | 151 | 161 | 138 | 142 | 155 | 165 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**MODEL: *SXC180601A* / CA*F4961*6** / TXV / MBVC2000**1**, Design Subcooling @ AHRI 95°F Conditions, 5- 7°F @ the Serv. Vlv. High Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | 1750 | MBh | 52.4 | 54.3 | 59.5 | - | 51.2 | 53.1 | 58.1 | - | 50.0 | 51.8 | 56.8 | - | 48.8 | 50.5 | 55.4 | - | 46.3 | 48.0 | 52.6 | - | 42.9 | 44.5 | 48.7 | - |
| | | S/T | 0.67 | 0.56 | 0.39 | - | 0.70 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.41 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.77 | 0.65 | 0.45 | - |
| | | DeltaT | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 3.81 | 3.89 | 4.02 | - | 4.11 | 4.20 | 4.34 | - | 4.38 | 4.47 | 4.62 | - | 4.61 | 4.71 | 4.87 | - | 4.81 | 4.92 | 5.08 | - | 4.98 | 5.09 | 5.27 | - |
| | | AMPS | 13.5 | 13.9 | 14.4 | - | 14.7 | 15.1 | 15.6 | - | 16.1 | 16.5 | 17.1 | - | 17.2 | 17.7 | 18.3 | - | 20.2 | 20.8 | 21.5 | - | 21.4 | 22.0 | 22.7 | - |
| | | HI PR | 236 | 254 | 258 | - | 259 | 279 | 283 | - | 304 | 327 | 331 | - | 346 | 372 | 377 | - | 389 | 419 | 424 | - | 450 | 484 | 490 | - |
| | | LO PR | 113 | 116 | 127 | - | 116 | 120 | 131 | - | 120 | 124 | 135 | - | 123 | 127 | 139 | - | 126 | 130 | 142 | - | 129 | 133 | 145 | - |
| | 2000 | MBh | 56.8 | 58.9 | 64.5 | - | 55.5 | 57.5 | 63.0 | - | 54.2 | 56.1 | 61.5 | - | 52.8 | 54.8 | 60.0 | - | 50.2 | 52.0 | 57.0 | - | 46.5 | 48.2 | 52.8 | - |
| | | S/T | 0.70 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.42 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.80 | 0.66 | 0.46 | - | 0.80 | 0.67 | 0.46 | - |
| | | DeltaT | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 19 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 3.84 | 3.93 | 4.05 | - | 4.15 | 4.24 | 4.38 | - | 4.41 | 4.51 | 4.66 | - | 4.65 | 4.75 | 4.91 | - | 4.85 | 4.96 | 5.13 | - | 5.02 | 5.14 | 5.31 | - |
| | | AMPS | 13.7 | 14.0 | 14.5 | - | 14.9 | 15.2 | 15.8 | - | 16.2 | 16.6 | 17.2 | - | 17.4 | 17.8 | 18.5 | - | 20.4 | 21.0 | 21.7 | - | 21.6 | 22.2 | 23.0 | - |
| | | HI PR | 239 | 257 | 260 | - | 262 | 282 | 286 | - | 307 | 330 | 335 | - | 349 | 376 | 381 | - | 393 | 423 | 429 | - | 454 | 488 | 495 | - |
| | | LO PR | 114 | 118 | 128 | - | 117 | 121 | 132 | - | 121 | 125 | 137 | - | 125 | 128 | 140 | - | 127 | 131 | 143 | - | 130 | 134 | 147 | - |
| | 2250 | MBh | 58.5 | 60.6 | 66.4 | - | 57.1 | 59.2 | 64.9 | - | 55.8 | 57.8 | 63.3 | - | 54.4 | 56.4 | 61.8 | - | 51.7 | 53.6 | 58.7 | - | 47.9 | 49.6 | 54.4 | - |
| | | S/T | 0.73 | 0.61 | 0.42 | - | 0.76 | 0.63 | 0.44 | - | 0.78 | 0.65 | 0.45 | - | 0.80 | 0.67 | 0.47 | - | 0.83 | 0.70 | 0.48 | - | 0.84 | 0.70 | 0.49 | - |
| | | DeltaT | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 16 | 14 | 11 | - |
| | | KW | 3.87 | 3.96 | 4.09 | - | 4.18 | 4.27 | 4.41 | - | 4.45 | 4.55 | 4.70 | - | 4.69 | 4.80 | 4.96 | - | 4.89 | 5.00 | 5.17 | - | 5.07 | 5.18 | 5.36 | - |
| | | AMPS | 13.8 | 14.2 | 14.7 | - | 15.0 | 15.4 | 15.9 | - | 16.4 | 16.8 | 17.4 | - | 17.6 | 18.0 | 18.7 | - | 20.6 | 21.2 | 21.9 | - | 21.8 | 22.4 | 23.2 | - |
| | | HI PR | 241 | 259 | 263 | - | 265 | 285 | 289 | - | 310 | 333 | 338 | - | 353 | 380 | 385 | - | 397 | 427 | 433 | - | 459 | 493 | 500 | - |
| | | LO PR | 115 | 119 | 130 | - | 118 | 122 | 133 | - | 123 | 126 | 138 | - | 126 | 130 | 142 | - | 128 | 132 | 144 | - | 131 | 136 | 148 | - |
| 75 | 1750 | MBh | 53.3 | 54.9 | 59.4 | 63.8 | 52.1 | 53.6 | 58.0 | 62.3 | 50.8 | 52.3 | 56.7 | 60.8 | 49.6 | **51.1** | 55.3 | 59.3 | 47.1 | 48.5 | 52.5 | 56.4 | 43.6 | 44.9 | 48.6 | 52.2 |
| | | S/T | 0.77 | 0.69 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.35 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | **0.75** | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.79 | 0.60 | 0.38 |
| | | DeltaT | 21 | 20 | 16 | 11 | 22 | 20 | 16 | 11 | 22 | 20 | 16 | 11 | 22 | **20** | 17 | 11 | 22 | 20 | 16 | 11 | 20 | 19 | 15 | 11 |
| | | KW | 3.81 | 3.89 | 4.02 | 4.15 | 4.11 | 4.20 | 4.34 | 4.49 | 4.38 | 4.47 | 4.62 | 4.78 | 4.61 | **4.71** | 4.87 | 5.04 | 4.81 | 4.92 | 5.08 | 5.26 | 4.98 | 5.09 | 5.27 | 5.45 |
| | | AMPS | 13.5 | 13.9 | 14.4 | 14.9 | 14.7 | 15.1 | 15.6 | 16.2 | 16.1 | 16.5 | 17.1 | 17.7 | 17.2 | **17.7** | 18.3 | 19.0 | 20.2 | 20.8 | 21.5 | 22.3 | 21.4 | 22.0 | 22.7 | 23.6 |
| | | HI PR | 236 | 254 | 258 | 263 | 259 | 279 | 283 | 289 | 304 | 327 | 331 | 339 | 346 | **372** | 377 | 386 | 389 | 419 | 424 | 434 | 450 | 484 | 490 | 501 |
| | | LO PR | 113 | 116 | 127 | 135 | 116 | 120 | 131 | 139 | 120 | 124 | 135 | 144 | 123 | **127** | 139 | 148 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 155 |
| | 2000 | MBh | 57.8 | 59.5 | 64.4 | 69.1 | 56.4 | 58.1 | 62.9 | 67.5 | 55.1 | 56.7 | 61.4 | 65.9 | 53.7 | **55.3** | 59.9 | 64.3 | 51.0 | 52.6 | 56.9 | 61.1 | 47.3 | 48.7 | 52.7 | 56.6 |
| | | S/T | 0.79 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.84 | 0.76 | 0.57 | 0.37 | 0.87 | **0.78** | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.91 | 0.82 | 0.62 | 0.40 |
| | | DeltaT | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 20 | 16 | 11 | 22 | **20** | 16 | 11 | 21 | 20 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 3.84 | 3.93 | 4.05 | 4.19 | 4.15 | 4.24 | 4.38 | 4.52 | 4.41 | 4.51 | 4.66 | 4.82 | 4.65 | **4.75** | 4.91 | 5.08 | 4.85 | 4.96 | 5.13 | 5.31 | 5.02 | 5.14 | 5.31 | 5.50 |
| | | AMPS | 13.7 | 14.0 | 14.5 | 15.1 | 14.9 | 15.2 | 15.8 | 16.4 | 16.2 | 16.6 | 17.2 | 17.9 | 17.4 | **17.8** | 18.5 | 19.2 | 20.4 | 21.0 | 21.7 | 22.6 | 21.6 | 22.2 | 23.0 | 23.9 |
| | | HI PR | 239 | 257 | 260 | 266 | 262 | 282 | 286 | 292 | 307 | 330 | 335 | 342 | 349 | **376** | 381 | 389 | 393 | 423 | 429 | 438 | 454 | 488 | 495 | 506 |
| | | LO PR | 114 | 118 | 128 | 137 | 117 | 121 | 132 | 141 | 121 | 125 | 137 | 145 | 125 | **128** | 140 | 149 | 127 | 131 | 143 | 152 | 130 | 134 | 147 | 156 |
| | 2250 | MBh | 59.5 | 61.3 | 66.3 | 71.2 | 58.1 | 59.8 | 64.8 | 69.5 | 56.7 | 58.4 | 63.2 | 67.8 | 55.3 | **57.0** | 61.7 | 66.2 | 52.6 | 54.1 | 58.6 | 62.9 | 48.7 | 50.1 | 54.3 | 58.3 |
| | | S/T | 0.83 | 0.75 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.38 | 0.89 | 0.79 | 0.60 | 0.39 | 0.91 | **0.82** | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.96 | 0.86 | 0.65 | 0.42 |
| | | DeltaT | 20 | 19 | 15 | 11 | 20 | 19 | 15 | 11 | 21 | 19 | 15 | 11 | 21 | **19** | 16 | 11 | 20 | 19 | 15 | 11 | 19 | 18 | 14 | 10 |
| | | KW | 3.87 | 3.96 | 4.09 | 4.22 | 4.18 | 4.27 | 4.41 | 4.56 | 4.45 | 4.55 | 4.70 | 4.86 | 4.69 | **4.80** | 4.96 | 5.13 | 4.89 | 5.00 | 5.17 | 5.35 | 5.07 | 5.18 | 5.36 | 5.55 |
| | | AMPS | 13.8 | 14.2 | 14.7 | 15.2 | 15.0 | 15.4 | 15.9 | 16.6 | 16.4 | 16.8 | 17.4 | 18.1 | 17.6 | **18.0** | 18.7 | 19.4 | 20.6 | 21.2 | 21.9 | 22.8 | 21.8 | 22.4 | 23.2 | 24.1 |
| | | HI PR | 241 | 259 | 263 | 269 | 265 | 285 | 289 | 295 | 310 | 333 | 338 | 345 | 353 | **380** | 385 | 393 | 397 | 427 | 433 | 443 | 459 | 493 | 500 | 511 |
| | | LO PR | 115 | 119 | 130 | 138 | 118 | 122 | 133 | 142 | 123 | 126 | 138 | 147 | 126 | **130** | 142 | 151 | 128 | 132 | 144 | 154 | 131 | 136 | 148 | 158 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW=Total system power

High and low pressures are measured at the liquid and suction service valves.

AMPS=outdoor unit amps (comp.+fan)

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

**MODEL: *SXC180601A* / CA*F4961*6** / TXV / MBVC2000**1**, Design Subcooling @ AHRI 95°F Conditions, 5- 7°F @the Serv. Vlv. High Stage**

| | | | Outdoor Ambient Temperature | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 65 | | | | 75 | | | | 85 | | | | 95 | | | | 105 | | | | 115 | | | |
| | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | |
| IDB* | Airflow | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 80 | 1750 | MBh | 54.3 | 55.4 | 59.2 | 63.3 | 53.0 | 54.2 | 57.9 | 61.9 | 51.7 | 52.9 | 56.5 | 60.4 | 50.5 | 51.6 | 55.1 | 58.9 | 48.0 | 49.0 | 52.3 | 56.0 | 44.4 | 45.4 | 48.5 | 51.8 |
| | | S/T | 0.84 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.66 | 0.50 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.96 | 0.90 | 0.74 | 0.55 |
| | | DeltaT | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 23 | 22 | 19 | 15 |
| | | KW | 3.81 | 3.89 | 4.02 | 4.15 | 4.11 | 4.20 | 4.34 | 4.49 | 4.38 | 4.47 | 4.62 | 4.78 | 4.61 | 4.71 | 4.87 | 5.04 | 4.81 | 4.92 | 5.08 | 5.26 | 4.98 | 5.09 | 5.27 | 5.45 |
| | | AMPS | 13.5 | 13.9 | 14.4 | 14.9 | 14.7 | 15.1 | 15.6 | 16.2 | 16.1 | 16.5 | 17.1 | 17.7 | 17.2 | 17.7 | 18.3 | 19.0 | 20.2 | 20.8 | 21.5 | 22.3 | 21.4 | 22.0 | 22.7 | 23.6 |
| | | HI PR | 236 | 254 | 258 | 263 | 259 | 279 | 283 | 289 | 304 | 327 | 331 | 339 | 346 | 372 | 377 | 386 | 389 | 419 | 424 | 434 | 450 | 484 | 490 | 501 |
| | | LO PR | 113 | 116 | 127 | 135 | 116 | 120 | 131 | 139 | 120 | 124 | 135 | 144 | 123 | 127 | 139 | 148 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 155 |
| | 2000 | MBh | 58.8 | 60.1 | 64.2 | 68.6 | 57.4 | 58.7 | 62.7 | 67.0 | 56.1 | 57.3 | 61.2 | 65.4 | 54.7 | 55.9 | **59.7** | 63.8 | 52.0 | 53.1 | 56.7 | 60.6 | 48.1 | 49.2 | 52.5 | 56.2 |
| | | S/T | 0.87 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | **0.73** | 0.55 | 0.99 | 0.93 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 |
| | | DeltaT | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | **20** | 16 | 24 | 23 | 20 | 16 | 22 | 21 | 18 | 15 |
| | | KW | 3.84 | 3.93 | 4.05 | 4.19 | 4.15 | 4.24 | 4.38 | 4.52 | 4.41 | 4.51 | 4.66 | 4.82 | 4.65 | 4.75 | **4.91** | 5.08 | 4.85 | 4.96 | 5.13 | 5.31 | 5.02 | 5.14 | 5.31 | 5.50 |
| | | AMPS | 13.7 | 14.0 | 14.5 | 15.1 | 14.9 | 15.2 | 15.8 | 16.4 | 16.2 | 16.6 | 17.2 | 17.9 | 17.4 | 17.8 | **18.5** | 19.2 | 20.4 | 21.0 | 21.7 | 22.6 | 21.6 | 22.2 | 23.0 | 23.9 |
| | | HI PR | 239 | 257 | 260 | 266 | 262 | 282 | 286 | 292 | 307 | 330 | 335 | 342 | 349 | 376 | **381** | 389 | 393 | 423 | 429 | 438 | 454 | 488 | 495 | 506 |
| | | LO PR | 114 | 118 | 128 | 137 | 117 | 121 | 132 | 141 | 121 | 125 | 137 | 145 | 125 | 128 | **140** | 149 | 127 | 131 | 143 | 152 | 130 | 134 | 147 | 156 |
| | 2250 | MBh | 60.6 | 61.9 | 66.1 | 70.7 | 59.1 | 60.4 | 64.6 | 69.0 | 57.7 | 59.0 | 63.0 | 67.4 | 56.3 | 57.6 | 61.5 | 65.7 | 53.5 | 54.7 | 58.4 | 62.4 | 49.6 | 50.6 | 54.1 | 57.8 |
| | | S/T | 0.91 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | 0.77 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.80 | 0.60 |
| | | DeltaT | 23 | 22 | 19 | 15 | 23 | 22 | 19 | 15 | 24 | 22 | 19 | 15 | 23 | 22 | 19 | 15 | 22 | 22 | 19 | 15 | 20 | 21 | 18 | 14 |
| | | KW | 3.87 | 3.96 | 4.09 | 4.22 | 4.18 | 4.27 | 4.41 | 4.56 | 4.45 | 4.55 | 4.70 | 4.86 | 4.69 | 4.80 | 4.96 | 5.13 | 4.89 | 5.00 | 5.17 | 5.35 | 5.07 | 5.18 | 5.36 | 5.55 |
| | | AMPS | 13.8 | 14.2 | 14.7 | 15.2 | 15.0 | 15.4 | 15.9 | 16.6 | 16.4 | 16.8 | 17.4 | 18.1 | 17.6 | 18.0 | 18.7 | 19.4 | 20.6 | 21.2 | 21.9 | 22.8 | 21.8 | 22.4 | 23.2 | 24.1 |
| | | HI PR | 241 | 259 | 263 | 269 | 265 | 285 | 289 | 295 | 310 | 333 | 338 | 345 | 353 | 380 | 385 | 393 | 397 | 427 | 433 | 443 | 459 | 493 | 500 | 511 |
| | | LO PR | 115 | 119 | 130 | 138 | 118 | 122 | 133 | 142 | 123 | 126 | 138 | 147 | 126 | 130 | 142 | 151 | 128 | 132 | 144 | 154 | 131 | 136 | 148 | 158 |
| 85 | 1750 | MBh | 55.2 | 56.3 | 58.9 | 62.9 | 53.9 | 55.0 | 57.6 | 61.4 | 52.6 | 53.7 | 56.2 | 60.0 | 51.4 | 52.4 | 54.8 | 58.5 | 48.8 | 49.7 | 52.1 | 55.6 | 45.2 | 46.1 | 48.2 | 51.5 |
| | | S/T | 0.88 | 0.85 | 0.77 | 0.62 | 0.91 | 0.88 | 0.79 | 0.64 | 0.94 | 0.90 | 0.82 | 0.66 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 0.98 | 0.88 | 0.71 |
| | | DeltaT | 26 | 25 | 24 | 21 | 26 | 25 | 24 | 21 | 26 | 25 | 24 | 21 | 26 | 26 | 24 | 21 | 26 | 25 | 24 | 21 | 24 | 24 | 22 | 19 |
| | | KW | 3.81 | 3.89 | 4.02 | 4.15 | 4.11 | 4.20 | 4.34 | 4.49 | 4.38 | 4.47 | 4.62 | 4.78 | 4.61 | 4.71 | 4.87 | 5.04 | 4.81 | 4.92 | 5.08 | 5.26 | 4.98 | 5.09 | 5.27 | 5.45 |
| | | AMPS | 13.5 | 13.9 | 14.4 | 14.9 | 14.7 | 15.1 | 15.6 | 16.2 | 16.1 | 16.5 | 17.1 | 17.7 | 17.2 | 17.7 | 18.3 | 19.0 | 20.2 | 20.8 | 21.5 | 22.3 | 21.4 | 22.0 | 22.7 | 23.6 |
| | | HI PR | 236 | 254 | 258 | 263 | 259 | 279 | 283 | 289 | 304 | 327 | 331 | 339 | 346 | 372 | 377 | 386 | 389 | 419 | 424 | 434 | 450 | 484 | 490 | 501 |
| | | LO PR | 113 | 116 | 127 | 135 | 116 | 120 | 131 | 139 | 120 | 124 | 135 | 144 | 123 | 127 | 139 | 148 | 126 | 130 | 142 | 151 | 129 | 133 | 145 | 155 |
| | 2000 | MBh | 59.8 | 61.0 | 63.9 | 68.1 | 58.4 | 59.6 | 62.4 | 66.5 | 57.0 | 58.1 | 60.9 | 65.0 | 55.6 | 56.7 | 59.4 | 63.4 | 52.9 | 53.9 | 56.4 | 60.2 | 49.0 | 49.9 | 52.3 | 55.8 |
| | | S/T | 0.91 | 0.88 | 0.80 | 0.65 | 0.95 | 0.91 | 0.82 | 0.67 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.91 | 0.73 | 1.00 | 1.00 | 0.91 | 0.74 |
| | | DeltaT | 25 | 25 | 23 | 20 | 25 | 25 | 24 | 20 | 25 | 25 | 24 | 20 | 26 | 25 | 24 | 21 | 24 | 25 | 23 | 20 | 23 | 23 | 22 | 19 |
| | | KW | 3.84 | 3.93 | 4.05 | 4.19 | 4.15 | 4.24 | 4.38 | 4.52 | 4.41 | 4.51 | 4.66 | 4.82 | 4.65 | 4.75 | 4.91 | 5.08 | 4.85 | 4.96 | 5.13 | 5.31 | 5.02 | 5.14 | 5.31 | 5.50 |
| | | AMPS | 13.7 | 14.0 | 14.5 | 15.1 | 14.9 | 15.2 | 15.8 | 16.4 | 16.2 | 16.6 | 17.2 | 17.9 | 17.4 | 17.8 | 18.5 | 19.2 | 20.4 | 21.0 | 21.7 | 22.6 | 21.6 | 22.2 | 23.0 | 23.9 |
| | | HI PR | 239 | 257 | 260 | 266 | 262 | 282 | 286 | 292 | 307 | 330 | 335 | 342 | 349 | 376 | 381 | 389 | 393 | 423 | 429 | 438 | 454 | 488 | 495 | 506 |
| | | LO PR | 114 | 118 | 128 | 137 | 117 | 121 | 132 | 141 | 121 | 125 | 137 | 145 | 125 | 128 | 140 | 149 | 127 | 131 | 143 | 152 | 130 | 134 | 147 | 156 |
| | 2250 | MBh | 61.6 | 62.8 | 65.8 | 70.2 | 60.2 | 61.3 | 64.2 | 68.5 | 58.7 | 59.9 | 62.7 | 66.9 | 57.3 | 58.4 | 61.2 | 65.3 | 54.4 | 55.5 | 58.1 | 62.0 | 50.4 | 51.4 | 53.8 | 57.4 |
| | | S/T | 0.96 | 0.92 | 0.83 | 0.68 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.96 | 0.78 |
| | | DeltaT | 24 | 24 | 22 | 19 | 24 | 24 | 23 | 20 | 24 | 24 | 23 | 20 | 23 | 24 | 23 | 20 | 22 | 23 | 23 | 20 | 21 | 21 | 21 | 18 |
| | | KW | 3.87 | 3.96 | 4.09 | 4.22 | 4.18 | 4.27 | 4.41 | 4.56 | 4.45 | 4.55 | 4.70 | 4.86 | 4.69 | 4.80 | 4.96 | 5.13 | 4.89 | 5.00 | 5.17 | 5.35 | 5.07 | 5.18 | 5.36 | 5.55 |
| | | AMPS | 13.8 | 14.2 | 14.7 | 15.2 | 15.0 | 15.4 | 15.9 | 16.6 | 16.4 | 16.8 | 17.4 | 18.1 | 17.6 | 18.0 | 18.7 | 19.4 | 20.6 | 21.2 | 21.9 | 22.8 | 21.8 | 22.4 | 23.2 | 24.1 |
| | | HI PR | 241 | 259 | 263 | 269 | 265 | 285 | 289 | 295 | 310 | 333 | 338 | 345 | 353 | 380 | 385 | 393 | 397 | 427 | 433 | 443 | 459 | 493 | 500 | 511 |
| | | LO PR | 115 | 119 | 130 | 138 | 118 | 122 | 133 | 142 | 123 | 126 | 138 | 147 | 126 | 130 | 142 | 151 | 128 | 132 | 144 | 154 | 131 | 136 | 148 | 158 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

# PERFORMANCE DATA LOW STAGE

| *SXC180361A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. - Low Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 26,692 | 17,980 | 8,712 | 1,689 |
| 80° | 26,374 | 17,991 | 8,383 | 1,743 |
| 85° | 26,057 | 17,998 | 8,059 | 1,797 |
| 90° | 25,950 | 18,762 | 7,188 | 1,737 |
| 95° | 25,844 | 19,520 | 6,324 | 1,676 |
| 100° | 25,198 | 19,392 | 5,806 | 1,714 |
| 105° | 24,552 | 19,246 | 5,305 | 1,753 |
| 110° | 23,647 | 18,615 | 5,032 | 1,786 |
| 115° | 22,743 | 17,978 | 4,765 | 1,819 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 23,948 | 19,324 | 4,624 | 1,619 |

| *SXC180481A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv.- Low Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 37,040 | 26,508 | 10,532 | 2,122 |
| 80° | 36,599 | 26,526 | 10,073 | 2,195 |
| 85° | 36,158 | 26,535 | 9,623 | 2,268 |
| 90° | 35,717 | 26,634 | 9,083 | 2,333 |
| **95°** | **35,276** | **26,722** | **8,554** | **2,397** |
| 100° | 34,394 | 26,548 | 7,846 | 2,452 |
| 105° | 33,512 | 26,348 | 7,164 | 2,506 |
| 110° | 32,278 | 25,483 | 6,794 | 2,554 |
| 115° | 31,043 | 24,611 | 6,432 | 2,601 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 32,688 | 26,455 | 6,233 | 2,315 |

| *SXC180601A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. - Low Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 45,384 | 31,027 | 14,356 | 2,770 |
| 80° | 44,843 | 31,047 | 13,796 | 2,867 |
| 85° | 44,303 | 31,058 | 13,245 | 2,963 |
| 90° | 43,763 | 31,174 | 12,589 | 3,048 |
| **95°** | **43,223** | **31,277** | **11,945** | **3,133** |
| 100° | 42,142 | 31,073 | 11,069 | 3,205 |
| 105° | 41,061 | 30,839 | 10,222 | 3,278 |
| 110° | 39,549 | 29,828 | 9,721 | 3,340 |
| 115° | 38,036 | 28,806 | 9,229 | 3,402 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 40,052 | 30,965 | 9,087 | 3,025 |

# PERFORMANCE DATA

# HIGH STAGE

| *SXC180361A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. - High Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 39,342 | 27,300 | 12,043 | 2,372 |
| 80° | 38,874 | 27,318 | 11,556 | 2,453 |
| 85° | 38,406 | 27,327 | 11,078 | 2,534 |
| 90° | 37,937 | 27,429 | 10,508 | 2,605 |
| 95° | 37,469 | 27,520 | 9,949 | 2,677 |
| 100° | 36,532 | 27,340 | 9,192 | 2,737 |
| 105° | 35,596 | 27,135 | 8,461 | 2,798 |
| 110° | 34,284 | 26,244 | 8,040 | 2,850 |
| 115° | 32,973 | 25,346 | 7,627 | 2,903 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 34,720 | 27,245 | 7,476 | 2,586 |

| *SXC180481A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5- 7°F @ the Serv. Vlv. - High Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 51,668 | 37,197 | 14,471 | 3,244 |
| 80° | 51,053 | 37,221 | 13,831 | 3,349 |
| 85° | 50,438 | 37,234 | 13,203 | 3,454 |
| 90° | 49,823 | 37,373 | 12,450 | 3,547 |
| **95°** | **49,208** | **37,497** | **11,711** | **3,640** |
| 100° | 47,977 | 37,252 | 10,725 | 3,718 |
| 105° | 46,747 | 36,972 | 9,775 | 3,797 |
| 110° | 45,025 | 35,759 | 9,266 | 3,865 |
| 115° | 43,303 | 34,535 | 8,768 | 3,933 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 45,598 | 37,122 | 8,476 | 2,586 |

| *SXC180601A* / CA*F4961*6** + TXV / MBE2000**-1**, Design Subcooling @ AHRI 95°F Conditions, 5-7°F @ the Serv. Vlv. - High Stage | | | | |
|---|---|---|---|---|
| **Outdoor Temp. ° F.** | **Total Btuh** | **Sensible Btuh** | **Latent Btuh** | **Total Watts** |
| 75° | 62,686 | 43,209 | 19,476 | 4,377 |
| 80° | 61,939 | 43,238 | 18,702 | 4,520 |
| 85° | 61,193 | 43,253 | 17,940 | 4,662 |
| 90° | 60,447 | 43,414 | 17,033 | 4,788 |
| **95°** | **59,701** | **43,558** | **16,143** | **4,915** |
| 100° | 58,208 | 43,274 | 14,934 | 5,022 |
| 105° | 56,715 | 42,948 | 13,767 | 5,129 |
| 110° | 54,626 | 41,539 | 13,087 | 5,221 |
| 115° | 52,536 | 40,117 | 12,420 | 5,314 |
| **TVA Conditions @ 95° OD DB, 75° ID DB, 63° ID WB** | | | | |
| 95° | 55,321 | 43,122 | 12,199 | 4,755 |

### PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within the subcooling value shown in the Air Conditioner Specifications.

A properly operating unit should be within plus or minus **3 degrees** of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

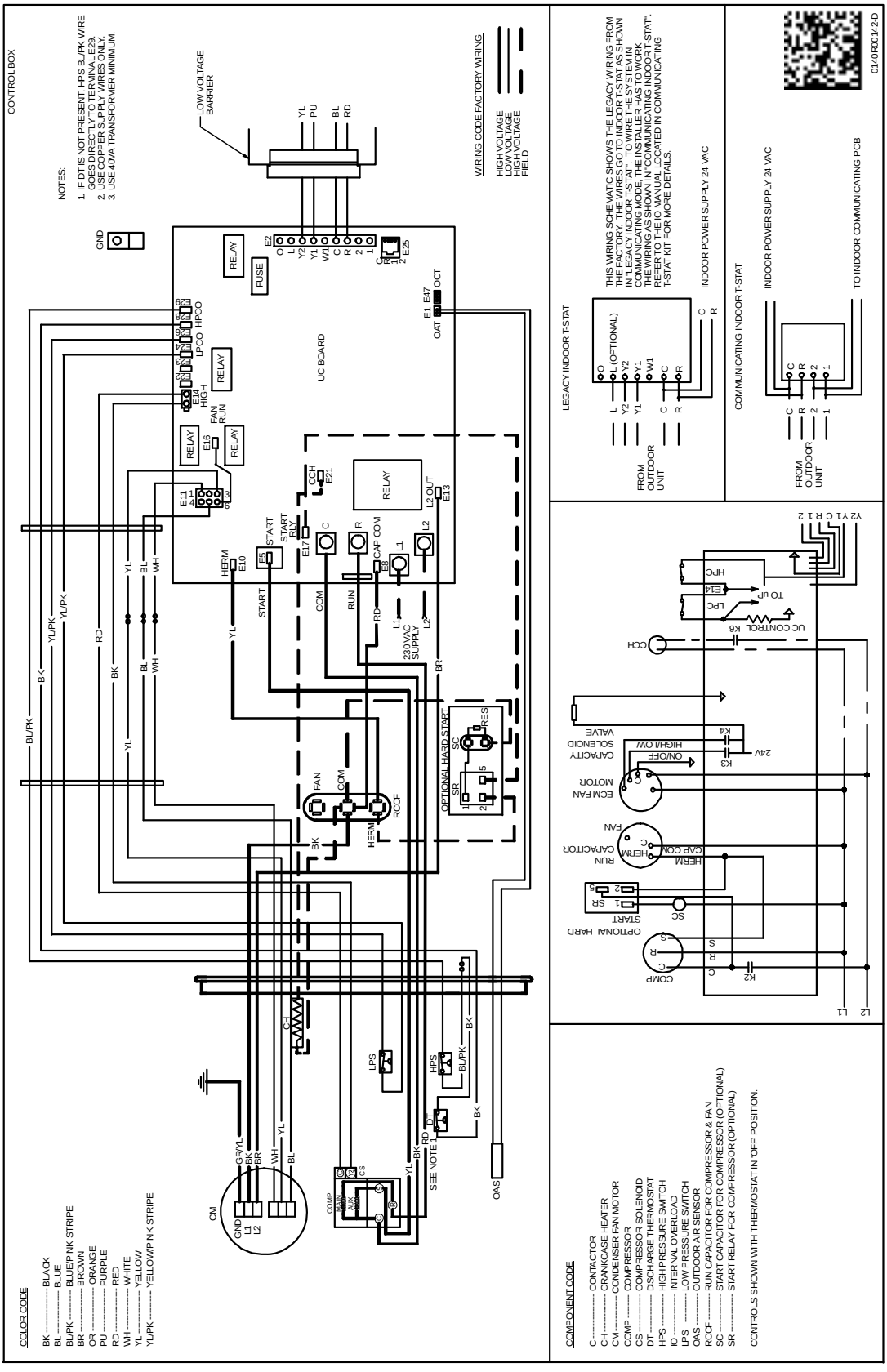
A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

*NOTE: Pressures are measured at the liquid and suction service valve ports.*

# WIRING DIAGRAMS *SXC180[36-60]1A*

**WARNING**

**HIGH VOLTAGE!**
**DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**




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