3 - 22 HP AIR-COOLED CONDENSING UNITS

Technical Guide
Now including DOE compliant models
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FEATURES & BENEFITS

**BETTER PERFORMANCE**
- Enhanced grill design gives 25% to 40% increase in free-air area
- Electrical box located out of air stream
- Vertical receiver needs less refrigerant for liquid seal

**FASTER ACCESS**
- Base valve and high & low pressure taps on outside of unit
- Removable grill for access to all serviceable parts
- Improved access to fan motors & components
- Lighter, one-piece top
- Easy-to-view sight glass location

**EASIER SERVICE**
- Better access to components for easier repair
- Compact design allows for better jobsite placement & installation
- Dual isolation valves on receiver

**GREATER RELIABILITY**
- Floating Tube™ coil design eliminates tube-sheet leaks
- Pre-bent tubing reduces mechanical joints
- State-of-the-art factory leak-detection ensures highest quality

OUTSTANDING FEATURES

- **Separate subcooling** circuit in condenser for added capacity and vapor free liquid
- **Spring mounted compressors** (Discus™ and Bitter Semi-Hermetic compressors only) with suction and discharge eliminators and electronic oil failure switch (Discus™ compressors only)
- **Fixed high and adjustable low pressure switches**
- **Lifting and mounting holes** on four corners
- **Floating Tube™ Coil** design to eliminate tube sheet leaks
- **Painted steel cabinet** for superior strength and corrosion resistance
- **ServiceMate™ diagnostic module** standard on all non-intelliGen™ / Beacon II™ condensing units
- **Large electrical panel** to facilitate ease of access
NOMENCLATURE

| BRAND | B = Bohn |
| CONDENSING UNIT STYLE | H = Outdoor Horizontal  N = Indoor Horizontal |
| TEMP RANGE | M = Medium Temperature  L = Low Temperature |
| COMPRESSOR STYLE | D = Discus™  Z = Scroll  X = Bitzer Semi-Hermetic |
| REVISION | |

<p>| PRODUCT IDENTIFIER | C = Condensing Unit |</p>
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FACTORY INSTALLED: PREFERRED OPTION PACKAGES

Please see Price Book or The HUB for availability

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<td>Defrost Timer - Contactor</td>
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<td>A0302</td>
<td>Defrost Timer - Contactor Low Amps</td>
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<td>A0303</td>
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<td>A0400</td>
<td>intelliGen™ / Beacon II</td>
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<td>A1002</td>
<td>Replaceable Core Filter-Accumulator + Liquid Standard + Replaceable Core Filter Drier</td>
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STANDARD FEATURES

ServiceMate™ Diagnostic Module
Manual Pump Down Switch
Electronic Oil Failure Switch (Discus™ Compressors Only)
Fixed Head Pressure Control Valve (C4 & C5 cabinets only)
  - Medium temp - 150 psi
  - Low temp - 100 psi
Adjustable Head Pressure Control Valve (C6 cabinet only)
Spring Mounted Compressors with Suction and Discharge Vibration Eliminators (Discus™ and Bitzer Compressors only)
Crank Case Heater
Adjustable Low Pressure Control
Fixed High Pressure Control
Liquid Line Sight Glass
Permanent Liquid Line Filter
Outdoor Painted Cabinet
Floating Tube™ Design
**ELECTRICAL OPTIONS**

- Smart Defrost Kit™ (SDK)
- Crankcase Heater on Indoor Units
- Fan cycling
- Low Ambient Kit (Heated & insulated receiver with low pressure cut-out time delay)
- Defrost Timer for Air Defrost
- Defrost Timer and Contactor for Electric Defrost  (C6 cabinet includes evaporator sub fusing as standard in kit)
- intelliGen™/Beacon II™ Kits (see intelliGen™/Beacon II™ section for details)
- Electric Defrost Fusing (includes evaporator fan fusing on C4 and C5 cabinets)
- Dual-Pressure Control*
- Adjustable High Pressure Control with Manual Reset*
- Phase-Loss Monitor*
- Compressor Fusing*
- Circuit Breaker Circuit Protection for Compressor, Condenser Fan and Control Circuit*

**MECHANICAL OPTIONS**

- Head Pressure Valve on Indoor Units
- Mounted Liquid Line Solenoid Valve
- Replaceable Core Liquid Line Filter/Drier
- Permanent Suction Line Filter
- Replaceable Core Suction Line Filter
- Suction Accumulator
- Oil Separator
- Bohnguard™ Fin Protection
- Copper Finned Coil
- Oversized Receiver
- Slanted Louver for Snowbelt Regions (not available with indoor unit)
- 12" Extended Legs for Snowbelt Regions
- Hail Guards
- NEMA contactors*
- Compressor Unloading (one step)*

* Available on C6 cabinet only
### PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Scroll Compressors

Please consult AWEF table on page 17 to confirm DOE compliance per model

#### R-404A/R-507A

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<tr>
<th>Model</th>
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#### R-404A/R-507A

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**Notes:**
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
20°F Max Superheat
## PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Scroll Compressors

Please consult AWEF table on page 17 to confirm DOE compliance per model

### R-448A/R-449A Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
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### R-448A/R-449A Capacity BTUH @ 95°F Ambient by SST

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### R-448A/R-449A Capacity BTUH @ 100°F Ambient by SST

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<td>61,360</td>
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### R-448A/R-449A Capacity BTUH @ 110°F Ambient by SST

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</tr>
</tbody>
</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
20°F Max Superheat
## PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Scroll Compressors

Please consult AWEF table on page 17 to confirm DOE compliance per model

### R-407A/R-407F Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+40°F</th>
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<th>+30°F</th>
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<tbody>
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<td>BC‘0065M@ACZ ZB48KCE</td>
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<td>40,010</td>
<td>35,620</td>
<td>27,830</td>
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<tr>
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<td>88,720</td>
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### R-407A/R-407F Capacity BTUH @ 95°F Ambient by SST

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### R-407A/R-407F Capacity BTUH @ 100°F Ambient by SST

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### R-407A/R-407F Capacity BTUH @ 110°F Ambient by SST

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<td>33,180</td>
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<td>81,530</td>
<td>74,890</td>
<td>68,520</td>
<td>62,430</td>
<td>56,530</td>
<td>50,750</td>
<td>44,940</td>
<td>39,030</td>
<td>32,900</td>
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<tr>
<td>BC‘0075M@ACZ ZB66K5E</td>
<td>91,810</td>
<td>84,480</td>
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<td>63,180</td>
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<td>51,070</td>
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<td>—</td>
<td>88,760</td>
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<td>72,850</td>
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<td>—</td>
<td>65,520</td>
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<td>73,810</td>
<td>65,600</td>
<td>52,460</td>
<td>41,650</td>
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</tr>
</tbody>
</table>

**Notes:**
- *H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
- 20°F Max Superheat
## PERFORMANCE DATA – R-407C

Medium Temperature Models - Scroll Compressors

Please consult AWEF table on page 17 to confirm DOE compliance per model

### R-407C

#### Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+40°F</th>
<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>0°F</th>
<th>-10°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC*0065M@ACZ</td>
<td>ZB48KCE</td>
<td>71,130</td>
<td>65,160</td>
<td>59,300</td>
<td>53,610</td>
<td>48,150</td>
<td>42,820</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td>BC*0070M@ACZ</td>
<td>ZB58K5E</td>
<td>90,610</td>
<td>82,250</td>
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<td>48,010</td>
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<td>37,070</td>
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<tr>
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<td>84,540</td>
<td>76,210</td>
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<td>61,330</td>
<td>54,690</td>
<td>48,420</td>
<td>42,500</td>
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<tr>
<td>BC*0086M@ACZ</td>
<td>ZB76K5E</td>
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<td>107,560</td>
<td>97,670</td>
<td>88,460</td>
<td>79,780</td>
<td>71,780</td>
<td>64,380</td>
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<td>82,520</td>
<td>73,440</td>
<td>64,780</td>
<td>56,570</td>
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<tr>
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<td>153,790</td>
<td>139,360</td>
<td>125,770</td>
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<td>101,460</td>
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#### R-407C

#### Capacity BTUH @ 95°F Ambient by SST

<table>
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<th>Compressor</th>
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<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>0°F</th>
<th>-10°F</th>
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</thead>
<tbody>
<tr>
<td>BC*0065M@ACZ</td>
<td>ZB48KCE</td>
<td>68,560</td>
<td>62,800</td>
<td>57,120</td>
<td>51,590</td>
<td>46,270</td>
<td>41,070</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>BC*0070M@ACZ</td>
<td>ZB58K5E</td>
<td>87,950</td>
<td>79,790</td>
<td>72,110</td>
<td>64,840</td>
<td>58,170</td>
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<td>46,080</td>
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<td>90,850</td>
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<td>74,010</td>
<td>66,460</td>
<td>59,440</td>
<td>52,940</td>
<td>46,820</td>
<td>41,010</td>
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<td>BC*0086M@ACZ</td>
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<td>104,520</td>
<td>94,890</td>
<td>85,960</td>
<td>77,540</td>
<td>69,770</td>
<td>62,600</td>
<td>56,010</td>
<td>49,970</td>
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</tr>
<tr>
<td>BC*0100M@ACZ</td>
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<td>133,550</td>
<td>121,390</td>
<td>109,830</td>
<td>98,980</td>
<td>88,780</td>
<td>79,280</td>
<td>70,430</td>
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</tr>
<tr>
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<td>ZB114K5E</td>
<td>163,670</td>
<td>148,980</td>
<td>134,950</td>
<td>121,730</td>
<td>109,490</td>
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#### R-407C

#### Capacity BTUH @ 100°F Ambient by SST

<table>
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<th>Model</th>
<th>Compressor</th>
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<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>0°F</th>
<th>-10°F</th>
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<tbody>
<tr>
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<td>ZB48KCE</td>
<td>65,940</td>
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<td>54,860</td>
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<td>—</td>
<td>—</td>
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<td>—</td>
<td>—</td>
</tr>
<tr>
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<td>ZB58K5E</td>
<td>85,190</td>
<td>77,190</td>
<td>69,620</td>
<td>62,490</td>
<td>55,910</td>
<td>49,780</td>
<td>43,990</td>
<td>38,560</td>
<td>33,400</td>
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<td>79,710</td>
<td>71,740</td>
<td>64,360</td>
<td>57,490</td>
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<td>75,290</td>
<td>67,780</td>
<td>60,840</td>
<td>54,470</td>
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<td>—</td>
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<td>105,680</td>
<td>95,100</td>
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<td>75,940</td>
<td>67,340</td>
<td>59,120</td>
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<tr>
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<td>130,420</td>
<td>117,580</td>
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#### R-407C

#### Capacity BTUH @ 110°F Ambient by SST

<table>
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<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
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<th>-10°F</th>
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<tbody>
<tr>
<td>BC*0065M@ACZ</td>
<td>ZB48KCE</td>
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<td>—</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
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<td>79,270</td>
<td>71,560</td>
<td>64,270</td>
<td>57,410</td>
<td>50,950</td>
<td>44,970</td>
<td>39,430</td>
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<td>—</td>
<td>—</td>
</tr>
<tr>
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<td>ZB66K5E</td>
<td>91,280</td>
<td>82,750</td>
<td>74,590</td>
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<td>59,940</td>
<td>53,380</td>
<td>47,320</td>
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<td>—</td>
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<td>BC*0086M@ACZ</td>
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<td>—</td>
<td>—</td>
<td>86,540</td>
<td>78,440</td>
<td>70,810</td>
<td>63,820</td>
<td>—</td>
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</tr>
<tr>
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<td>—</td>
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<td>—</td>
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<td>69,150</td>
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<td>—</td>
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</tr>
<tr>
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<td>—</td>
<td>—</td>
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</tbody>
</table>

---

**Notes:**
- * H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
- 20°F Max Superheat
**PERFORMANCE DATA – R-404A/R-507A**

Low Temperature Models - Scroll Compressors

Please consult AWEF table on page 18 to confirm DOE compliance per model

**R-404A/R-507A**

<table>
<thead>
<tr>
<th>Model Compressor</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
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<tr>
<td>BC’0075L@ACZ ZF25K4E</td>
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<td>BC’0100L@ACZ ZF34K5E</td>
<td>52,610</td>
</tr>
<tr>
<td>BC’0130L@ACZ ZF41K5E</td>
<td>70,440</td>
</tr>
<tr>
<td>BC’0150L@ACZ ZF49K5E</td>
<td>79,070</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Compressor</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>+0°F</td>
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<tr>
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</tr>
<tr>
<td>BC’0100L@ACZ ZF34K5E</td>
<td>49,970</td>
</tr>
<tr>
<td>BC’0130L@ACZ ZF41K5E</td>
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</tr>
<tr>
<td>BC’0150L@ACZ ZF49K5E</td>
<td>75,530</td>
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<table>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 100°F Ambient by SST</th>
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<td>BC’0150L@ACZ ZF49K5E</td>
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<table>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
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<td>BC’0130L@ACZ ZF41K5E</td>
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<tr>
<td>BC’0150L@ACZ ZF49K5E</td>
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**Notes:**

* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-448A/R-449A

Low Temperature Models - Scroll Compressors

Please consult AWEF table on page 18 to confirm DOE compliance per model

#### R-448A/R-449A

<table>
<thead>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
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<tr>
<td>BC'0130L@ACZ ZF41K5E</td>
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</tr>
<tr>
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#### R-448A/R-449A

<table>
<thead>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
</tr>
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<td>+0°F</td>
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#### R-448A/R-449A

<table>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 100°F Ambient by SST</th>
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<tr>
<td>BC'0075L@ACZ ZF25K4E</td>
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<tr>
<td>BC'0100L@ACZ ZF34K5E</td>
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<td>BC'0130L@ACZ ZF41K5E</td>
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#### R-448A/R-449A

<table>
<thead>
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<th>Model Compressor</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
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<tbody>
<tr>
<td></td>
<td>+0°F</td>
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<tr>
<td>BC'0075L@ACZ ZF25K4E</td>
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<tr>
<td>BC'0100L@ACZ ZF34K5E</td>
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<td>BC'0130L@ACZ ZF41K5E</td>
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<tr>
<td>BC'0150L@ACZ ZF49K5E</td>
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**Notes:**

* H = Outdoor, N = Indoor

@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-407A/R-407F

Low Temperature Models - Scroll Compressors

Please consult AWEF table on page 18 to confirm DOE compliance per model

### R-407A/R-407F

<table>
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<th>Compressor</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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<td>ZF34K5E</td>
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<td>ZF41K5E</td>
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<tr>
<td>BC*0150L@ACZ</td>
<td>ZF49K5E</td>
<td>77,330</td>
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### R-407A/R-407F

<table>
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<th>Compressor</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
</tr>
</thead>
<tbody>
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<tr>
<td>BC*0130L@ACZ</td>
<td>ZF41K5E</td>
<td>62,220</td>
</tr>
<tr>
<td>BC*0150L@ACZ</td>
<td>ZF49K5E</td>
<td>74,630</td>
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</table>

### R-407A/R-407F

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Capacity BTUH @ 100°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+0°F</td>
<td>-5°F</td>
</tr>
<tr>
<td>BC*0075L@ACZ</td>
<td>ZF25K4E</td>
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</tr>
<tr>
<td>BC*0100L@ACZ</td>
<td>ZF34K5E</td>
<td>46,510</td>
</tr>
<tr>
<td>BC*0130L@ACZ</td>
<td>ZF41K5E</td>
<td>60,100</td>
</tr>
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<td>BC*0150L@ACZ</td>
<td>ZF49K5E</td>
<td>71,820</td>
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### R-407A/R-407F

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>BC*0075L@ACZ</td>
<td>ZF25K4E</td>
<td>—</td>
</tr>
<tr>
<td>BC*0100L@ACZ</td>
<td>ZF34K5E</td>
<td>—</td>
</tr>
<tr>
<td>BC*0130L@ACZ</td>
<td>ZF41K5E</td>
<td>55,540</td>
</tr>
<tr>
<td>BC*0150L@ACZ</td>
<td>ZF49K5E</td>
<td>—</td>
</tr>
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</table>

**Notes:**
- *H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-407C

**Low Temperature Models - Scroll Compressors**

Please consult AWEF table on page 18 to confirm DOE compliance per model

#### R-407C Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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</thead>
<tbody>
<tr>
<td>BC’0075L@ACZ</td>
<td>ZF25K4E</td>
<td>35,540</td>
<td>31,870</td>
<td>28,370</td>
<td>25,120</td>
<td>22,110</td>
<td>19,440</td>
<td>17,140</td>
<td>15,250</td>
<td>13,840</td>
</tr>
<tr>
<td>BC’0100L@ACZ</td>
<td>ZF34K5E</td>
<td>48,670</td>
<td>43,870</td>
<td>39,370</td>
<td>35,140</td>
<td>31,230</td>
<td>27,620</td>
<td>24,370</td>
<td>21,370</td>
<td>18,660</td>
</tr>
<tr>
<td>BC’0130L@ACZ</td>
<td>ZF41K5E</td>
<td>63,520</td>
<td>56,880</td>
<td>50,790</td>
<td>45,090</td>
<td>39,900</td>
<td>35,150</td>
<td>30,850</td>
<td>26,960</td>
<td>23,460</td>
</tr>
<tr>
<td>BC’0150L@ACZ</td>
<td>ZF49K5E</td>
<td>72,880</td>
<td>65,250</td>
<td>57,970</td>
<td>51,150</td>
<td>44,920</td>
<td>39,330</td>
<td>34,590</td>
<td>30,790</td>
<td>28,020</td>
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#### R-407C Capacity BTUH @ 95°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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</thead>
<tbody>
<tr>
<td>BC’0075L@ACZ</td>
<td>ZF25K4E</td>
<td>34,560</td>
<td>30,970</td>
<td>27,550</td>
<td>24,390</td>
<td>21,450</td>
<td>18,850</td>
<td>16,640</td>
<td>14,830</td>
<td>13,500</td>
</tr>
<tr>
<td>BC’0100L@ACZ</td>
<td>ZF34K5E</td>
<td>47,080</td>
<td>42,470</td>
<td>38,150</td>
<td>34,090</td>
<td>30,330</td>
<td>26,860</td>
<td>23,710</td>
<td>20,830</td>
<td>18,220</td>
</tr>
<tr>
<td>BC’0130L@ACZ</td>
<td>ZF41K5E</td>
<td>61,690</td>
<td>55,240</td>
<td>49,370</td>
<td>43,870</td>
<td>38,830</td>
<td>34,240</td>
<td>30,090</td>
<td>26,320</td>
<td>22,920</td>
</tr>
<tr>
<td>BC’0150L@ACZ</td>
<td>ZF49K5E</td>
<td>70,750</td>
<td>63,280</td>
<td>56,180</td>
<td>49,510</td>
<td>43,430</td>
<td>0</td>
<td>33,400</td>
<td>29,730</td>
<td>27,090</td>
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</table>

#### R-407C Capacity BTUH @ 100°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC’0075L@ACZ</td>
<td>ZF25K4E</td>
<td>33,540</td>
<td>30,040</td>
<td>26,720</td>
<td>23,620</td>
<td>20,770</td>
<td>18,250</td>
<td>16,110</td>
<td>14,380</td>
<td>13,110</td>
</tr>
<tr>
<td>BC’0100L@ACZ</td>
<td>ZF34K5E</td>
<td>45,480</td>
<td>41,060</td>
<td>36,910</td>
<td>33,020</td>
<td>29,390</td>
<td>26,060</td>
<td>23,040</td>
<td>20,280</td>
<td>17,760</td>
</tr>
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<td>ZF41K5E</td>
<td>59,790</td>
<td>53,620</td>
<td>47,920</td>
<td>42,610</td>
<td>37,740</td>
<td>33,310</td>
<td>29,300</td>
<td>25,660</td>
<td>22,390</td>
</tr>
<tr>
<td>BC’0150L@ACZ</td>
<td>ZF49K5E</td>
<td>68,540</td>
<td>61,220</td>
<td>54,280</td>
<td>47,770</td>
<td>41,800</td>
<td>0</td>
<td>32,090</td>
<td>28,550</td>
<td>26,020</td>
</tr>
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</table>

#### R-407C Capacity BTUH @ 110°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC’0075L@ACZ</td>
<td>ZF25K4E</td>
<td>31,380</td>
<td>28,050</td>
<td>24,910</td>
<td>21,990</td>
<td>19,300</td>
<td>16,930</td>
<td>14,930</td>
<td>13,350</td>
<td>12,220</td>
</tr>
<tr>
<td>BC’0100L@ACZ</td>
<td>ZF34K5E</td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>16,770</td>
<td></td>
</tr>
<tr>
<td>BC’0130L@ACZ</td>
<td>ZF41K5E</td>
<td>55,880</td>
<td>50,170</td>
<td>44,850</td>
<td>39,970</td>
<td>35,450</td>
<td>31,340</td>
<td>27,630</td>
<td>24,260</td>
<td>21,230</td>
</tr>
<tr>
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<td>—</td>
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<td>—</td>
<td>29,050</td>
<td>25,720</td>
<td>23,420</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

* H = Outdoor, N = Indoor
C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## UNIT SPECIFICATIONS

Medium & Low Temperature Models - Scroll Compressors

Please consult AWEF table on pages 17-18 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Refrigerant Line Connections (OD)</th>
<th>Rec. Capacity @90% full (lbs)</th>
<th>Cabinet</th>
<th>Dimensions (In.)</th>
<th>Net Wt.</th>
<th>Sound Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Liquid</td>
<td>Suction</td>
<td>Std</td>
<td>Opt</td>
<td>Depth</td>
<td>Width</td>
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<tr>
<td>BC*0065M@ACZ</td>
<td>ZB48KCE</td>
<td>1/2</td>
<td>11/8</td>
<td>28</td>
<td>52</td>
<td>C4</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0070M@ACZ</td>
<td>ZB58K5E</td>
<td>5/8</td>
<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0075M@ACZ</td>
<td>ZB66K5E</td>
<td>5/8</td>
<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0086M@ACZ</td>
<td>ZB76K5E</td>
<td>5/8</td>
<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0100M@ACZ</td>
<td>ZB95K5E</td>
<td>5/8</td>
<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0141M@ACZ</td>
<td>ZB114K5E</td>
<td>7/8</td>
<td>15/8</td>
<td>87</td>
<td>98</td>
<td>C6</td>
<td>41.75</td>
</tr>
<tr>
<td>BC*0075L@ACZ</td>
<td>ZF25K4E</td>
<td>1/2</td>
<td>11/8</td>
<td>28</td>
<td>52</td>
<td>C4</td>
<td>36.75</td>
</tr>
<tr>
<td>BC*0100L@ACZ</td>
<td>ZF34K5E</td>
<td>1/2</td>
<td>11/8</td>
<td>28</td>
<td>52</td>
<td>C4</td>
<td>36.75</td>
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<tr>
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<td>ZF41K5E</td>
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<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
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<tr>
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<td>ZF49K5E</td>
<td>5/8</td>
<td>13/8</td>
<td>67</td>
<td>78</td>
<td>C5</td>
<td>36.75</td>
</tr>
</tbody>
</table>

Notes:

* H = Outdoor, N = Indoor
* @C = 208-230/3/60, D = 460/3/60, E = 575/3/60
* Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA; for 40 feet, deduct 12 dBA; for 80 feet, deduct 18 dBA. This data is typical of “free field” conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.
<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Power†</th>
<th>Compressor Condenser intelliGen™/Beacon II</th>
<th>Evap. Fan Amps</th>
<th>Defrost Hrs. Amps‡</th>
<th>Electric Defrost</th>
<th>Remote Loads- Low Amps</th>
<th>Remote Loads- High Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MCA</td>
<td>MOPD</td>
</tr>
<tr>
<td>BC*0065MCACZ</td>
<td>ZB48KCE-TF5</td>
<td>208-230/3/60</td>
<td>22.8 164.0 1 2 27 311 50.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>15</td>
<td>40 (1)</td>
</tr>
<tr>
<td>BC*0065MDACZ</td>
<td>ZB48KCE-TFD</td>
<td>460/3/60</td>
<td>12.2 100.0 1 19 20.0 25.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>20 (1)</td>
</tr>
<tr>
<td>BC*0065MEACZ1</td>
<td>ZB48KCE-TFE</td>
<td>575/3/60</td>
<td>9.0 78.0 1 12 15.0 20.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>6.4</td>
<td>16 (1)</td>
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<tr>
<td>BC*0070MCACZ</td>
<td>ZB58K5E-TFC</td>
<td>208-230/3/60</td>
<td>30.8 195.0 2 27 43.9 70.0</td>
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<td>20</td>
<td>48 (1)</td>
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<tr>
<td>BC*0070MDACZ</td>
<td>ZB58K5E-TFD</td>
<td>460/3/60</td>
<td>16.0 95.0 2 19 23.8 35.0</td>
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<td>—</td>
<td>—</td>
<td>10</td>
<td>25 (1)</td>
</tr>
<tr>
<td>BC*0070MEACZ1</td>
<td>ZB58K5E-TFE</td>
<td>575/3/60</td>
<td>12.2 80.0 2 12 20.0 25.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<td>20 (1)</td>
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<tr>
<td>BC*0075MCACZ</td>
<td>ZB66K5E-TFC</td>
<td>208-230/3/60</td>
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<td>—</td>
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<td>20</td>
<td>48 (1)</td>
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<tr>
<td>BC*0075MDACZ</td>
<td>ZB66K5E-TFD</td>
<td>460/3/60</td>
<td>15.4 114.0 2 19 23.0 35.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>10</td>
<td>25 (1)</td>
</tr>
<tr>
<td>BC*0075MEACZ1</td>
<td>ZB66K5E-TFE</td>
<td>575/3/60</td>
<td>12.8 80.0 2 12 20.0 30.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>20 (1)</td>
</tr>
<tr>
<td>BC*0086MCACZ</td>
<td>ZB76K5E-TFC</td>
<td>208-230/3/60</td>
<td>38.6 239.0 2 27 53.6 90.0</td>
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<td>—</td>
<td>—</td>
<td>20</td>
<td>70 (2)</td>
</tr>
<tr>
<td>BC*0086MDACZ</td>
<td>ZB76K5E-TFD</td>
<td>460/3/60</td>
<td>18.6 125.0 2 19 27.0 45.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>13</td>
<td>35 (1)</td>
</tr>
<tr>
<td>BC*0086MEACZ1</td>
<td>ZB76K5E-TFE</td>
<td>575/3/60</td>
<td>13.1 80.0 2 12 20.0 30.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>10.4</td>
<td>28 (1)</td>
</tr>
<tr>
<td>BC*0100MCACZ</td>
<td>ZB95K5E-TWC</td>
<td>208-230/3/60</td>
<td>47.4 298.0 2 27 647 110.0</td>
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<td>20</td>
<td>70 (2)</td>
</tr>
<tr>
<td>BC*0100MDACZ</td>
<td>ZB95K5E-TFD</td>
<td>460/3/60</td>
<td>21.8 150.0 2 19 31.0 50.0</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>13</td>
<td>35 (1)</td>
</tr>
<tr>
<td>BC*0100MEACZ1</td>
<td>ZB95K5E-TFE</td>
<td>575/3/60</td>
<td>18.7 120.0 2 12 25.7 40.0</td>
<td>—</td>
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<td>—</td>
<td>10.4</td>
<td>28 (1)</td>
</tr>
<tr>
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<td>ZB114K5E-TWC</td>
<td>208-230/3/60</td>
<td>56.5 321.0 2 44 79.5 125.0 15 70 (2)</td>
<td>94.5</td>
<td>150</td>
<td>20</td>
<td>80 (2)</td>
<td>100</td>
</tr>
<tr>
<td>BC*0141MDACZ2</td>
<td>ZB114K5E-TFD</td>
<td>460/3/60</td>
<td>24.4 179.0 2 22 34.8 50.0 15 40 (1)</td>
<td>50.0</td>
<td>70</td>
<td>15</td>
<td>60 (2)</td>
<td>75.0</td>
</tr>
<tr>
<td>BC*0141MEACZ1</td>
<td>ZB114K5E-TFE</td>
<td>575/3/60</td>
<td>20.1 132.0 2 18 28.8 45.0 12 32 (1)</td>
<td>40.8</td>
<td>60</td>
<td>12</td>
<td>48 (1)</td>
<td>60.0</td>
</tr>
</tbody>
</table>

Notes:
† H = Outdoor, N = Indoor
Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.
† Unless otherwise noted, model is available for 50 Hz. Consult factory for details.
‡ Number of defrost heater contactors in parentheses
1 R407F: not available in 575/3/60.
2 R407C: not available in 575/3/60.
3 R407C: not available in 208-230/3/60 or 460/3/60.
## ELECTRICAL DATA

Low Temperature Models - Scroll Compressors

Please consult AWEF table on page 18 to confirm DOE compliance per model

### Remote Loads - Low Amps

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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FLA (ea)</td>
<td>MCA</td>
<td>MOPD</td>
<td>FLA (ea)</td>
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<td>MOPD</td>
</tr>
<tr>
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### Remote Loads - High Amps

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### Notes:

* H = Outdoor, N = Indoor
Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.
† Unless otherwise noted, model is available for 50 Hz. Consult factory for details.
‡ = Number of defrost heater contactors in parentheses
1 R407F not available in 575/3/60.
2 R407C not available in 575/3/60.
3 R407C not available in 208-230/3/60 or 460/3/60.
### AWEF DATA – MEDIUM TEMPERATURE

Scroll Compressor Models - Indoor/Outdoor

If model has a numerical value in the table below, the following statement applies:
This refrigeration system is designed and certified for use in walk-in cooler applications.

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<th>Outdoor</th>
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<td>7.60 7.60 7.60 7.60 X 7.60</td>
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</tbody>
</table>

**Notes:**

*H = Outdoor, N = Indoor

X = model not suitable for this refrigerant

— = model is not DOE AWEF compliant

If model has a numerical value in the table, the following statement applies. “This refrigeration system is designed and certified for use in walk-in cooler applications.”
## AWEF DATA – LOW TEMPERATURE

Scroll Compressor Models - Indoor/Outdoor

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in freezer applications.

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<th>Model</th>
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<th></th>
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**Notes:**

*H = Outdoor, N = Indoor

X = model not suitable for this refrigerant

— = model is not DOE AWEF compliant

If model has a numerical value in the table, the following statement applies. "This refrigeration system is designed and certified for use in walk-in freezer applications."
## PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 38 to confirm DOE compliance per model

### R-404A/R-507A Capacity BTUH @ 90°F Ambient by SST

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<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
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<td>BC*0050M@ACD</td>
<td>2DC3R53KE</td>
<td>60,650</td>
<td>55,700</td>
<td>50,840</td>
<td>46,270</td>
<td>41,940</td>
<td>37,750</td>
<td>33,860</td>
<td>30,210</td>
<td>26,820</td>
<td>20,890</td>
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<td>39,810</td>
<td>35,720</td>
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<td>81,700</td>
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<td>64,340</td>
<td>58,670</td>
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<td>43,710</td>
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<td>71,990</td>
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### R-404A/R-507A Capacity BTUH @ 95°F Ambient by SST

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<th>+25°F</th>
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<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
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<td>2DC3R53KE</td>
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<td>52,950</td>
<td>48,340</td>
<td>44,010</td>
<td>39,820</td>
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<td>24,120</td>
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<td>50,960</td>
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### R-404A/R-507A Capacity BTUH @ 100°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+40°F</th>
<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2DC3R53KE</td>
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<td>50,080</td>
<td>45,860</td>
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<td>34,030</td>
<td>30,530</td>
<td>27,230</td>
<td>24,180</td>
<td>18,790</td>
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<tr>
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<td>2DD3R63KE</td>
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<td>52,940</td>
<td>48,330</td>
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<td>40,000</td>
<td>36,070</td>
<td>32,350</td>
<td>28,920</td>
<td>22,990</td>
</tr>
<tr>
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<td>63,320</td>
<td>58,200</td>
<td>53,140</td>
<td>48,450</td>
<td>44,000</td>
<td>39,720</td>
<td>35,640</td>
<td>28,410</td>
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<td>84,780</td>
<td>78,110</td>
<td>71,780</td>
<td>65,490</td>
<td>59,560</td>
<td>53,920</td>
<td>48,730</td>
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<td>34,600</td>
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<tr>
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<td>91,590</td>
<td>84,160</td>
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<td>70,260</td>
<td>63,650</td>
<td>57,450</td>
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<td>40,840</td>
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<td>95,910</td>
<td>88,260</td>
<td>80,940</td>
<td>73,910</td>
<td>67,110</td>
<td>60,490</td>
<td>48,120</td>
</tr>
<tr>
<td>BC*0120M@ACD</td>
<td>3DF3R15ME</td>
<td>145,390</td>
<td>135,490</td>
<td>126,380</td>
<td>117,620</td>
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<td>99,680</td>
<td>91,400</td>
<td>83,340</td>
<td>75,760</td>
<td>61,010</td>
</tr>
<tr>
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<td>3DS3R17ME</td>
<td>166,390</td>
<td>155,510</td>
<td>144,200</td>
<td>132,840</td>
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<td>112,180</td>
<td>102,500</td>
<td>93,030</td>
<td>84,090</td>
<td>67,200</td>
</tr>
</tbody>
</table>

**Notes:**
- H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 38 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
</tr>
<tr>
<td>BC’0050M@ACD</td>
<td>2DC3R53KE</td>
</tr>
<tr>
<td>BC’0051M@ACD</td>
<td>2DD3R63KE</td>
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<td>BC’0075M@ACD</td>
<td>2DL3R78KE</td>
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<tr>
<td>BC’0076M@ACD</td>
<td>2DA3R89KE</td>
</tr>
<tr>
<td>BC’0080M@ACD</td>
<td>3DA3R10ME</td>
</tr>
<tr>
<td>BC’0100M@ACD</td>
<td>3DB3R12ME</td>
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<td>BC’0120M@ACD</td>
<td>3DF3R15ME</td>
</tr>
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<td>BC’0150M@ACD</td>
<td>3DS3R17ME</td>
</tr>
</tbody>
</table>

**Notes:**
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

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### PERFORMANCE DATA – R-448A/R-449A

#### Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 38 to confirm DOE compliance per model.

Notes:
- H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

#### R-448A/R-449A Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+40°F</th>
<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC’0050M@ACD</td>
<td>2DCR53KE</td>
<td>60,640</td>
<td>55,060</td>
<td>49,740</td>
<td>44,780</td>
<td>40,050</td>
<td>35,750</td>
<td>31,770</td>
<td>28,190</td>
<td>24,940</td>
<td>19,460</td>
</tr>
<tr>
<td>BC’0051M@ACD</td>
<td>2DDR63KE</td>
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<td>62,120</td>
<td>56,390</td>
<td>50,940</td>
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<td>41,110</td>
<td>36,750</td>
<td>32,730</td>
<td>29,150</td>
<td>23,280</td>
</tr>
<tr>
<td>BC’0075M@ACD</td>
<td>2DLR78KE</td>
<td>83,020</td>
<td>76,130</td>
<td>69,580</td>
<td>63,380</td>
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<td>52,140</td>
<td>46,930</td>
<td>41,980</td>
<td>37,290</td>
<td>28,290</td>
</tr>
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<td>91,440</td>
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<td>60,630</td>
<td>53,980</td>
<td>47,900</td>
<td>42,350</td>
<td>32,640</td>
</tr>
<tr>
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<td>3DAAR10ME</td>
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<td>100,040</td>
<td>90,900</td>
<td>81,920</td>
<td>73,340</td>
<td>65,310</td>
<td>57,790</td>
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<td>39,130</td>
</tr>
<tr>
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<td>3DBAR12ME</td>
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<td>85,840</td>
<td>76,820</td>
<td>68,400</td>
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#### R-448A/R-449A Capacity BTUH @ 95°F Ambient by SST

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<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
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</thead>
<tbody>
<tr>
<td>BC’0050M@ACD</td>
<td>2DCR53KE</td>
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<td>52,860</td>
<td>47,730</td>
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<td>34,230</td>
<td>30,440</td>
<td>26,980</td>
<td>23,860</td>
<td>18,660</td>
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<td>54,160</td>
<td>48,940</td>
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<td>35,270</td>
<td>31,450</td>
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<td>22,520</td>
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<td>73,270</td>
<td>66,980</td>
<td>61,030</td>
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<td>50,180</td>
<td>45,140</td>
<td>40,390</td>
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<td>73,830</td>
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<td>114,040</td>
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#### R-448A/R-449A Capacity BTUH @ 100°F Ambient by SST

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<th>Model</th>
<th>Compressor</th>
<th>+40°F</th>
<th>+35°F</th>
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<th>+20°F</th>
<th>+15°F</th>
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<th>+5°F</th>
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<tbody>
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<td>97,920</td>
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<td>75,760</td>
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</table>
### PERFORMANCE DATA – R-448A/R-449A

**Medium Temperature Models - Discus™ Compressors (cont.)**

Please consult AWEF table on page 38 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-448A/R-449A</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
</tr>
<tr>
<td>BC’0050M@ACD</td>
<td>2DC3R53KE</td>
</tr>
<tr>
<td>BC’0051M@ACD</td>
<td>2DD3R63KE</td>
</tr>
<tr>
<td>BC’0075M@ACD</td>
<td>2DL3R78KE</td>
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<tr>
<td>BC’0076M@ACD</td>
<td>2DA3R89KE</td>
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<tr>
<td>BC’0080M@ACD</td>
<td>3DA3R10ME</td>
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<tr>
<td>BC’0150M@ACD</td>
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**Notes:**
- H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

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## PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 38 to confirm DOE compliance per model

### R-407A/R-407F Capacity BTUH @ 90°F Ambient by SST

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<th>Compressor</th>
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<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>0°F</th>
<th>-10°F</th>
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</thead>
<tbody>
<tr>
<td>BC’0050M@ACD</td>
<td>2DC3R53KE</td>
<td>61,510</td>
<td>55,840</td>
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### R-407A/R-407F Capacity BTUH @ 95°F Ambient by SST

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<th>+25°F</th>
<th>+20°F</th>
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### R-407A/R-407F Capacity BTUH @ 100°F Ambient by SST

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<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
<th>+10°F</th>
<th>+5°F</th>
<th>0°F</th>
<th>-10°F</th>
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<td>34,140</td>
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<td>58,240</td>
<td>52,870</td>
<td>47,940</td>
<td>43,310</td>
<td>39,090</td>
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<td>96,670</td>
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<td>86,650</td>
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Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 38 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
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<th>+35°F</th>
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<th>+25°F</th>
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<th>+0°F</th>
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<td>26,660</td>
<td>23,690</td>
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<td>—</td>
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<td>39,930</td>
<td>36,240</td>
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<td>27,670</td>
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<td>45,940</td>
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<td>61,610</td>
<td>54,540</td>
<td>47,910</td>
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<td>—</td>
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<td>68,170</td>
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**Notes:**
- * H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-407C

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 38 to confirm DOE compliance per model

#### R-407C Capacity BTUH @ 90°F Ambient by SST

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<th>+20°F</th>
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<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
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<tbody>
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<td>32,870</td>
<td>29,080</td>
<td>25,770</td>
<td>20,550</td>
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<td>46,730</td>
<td>41,530</td>
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<td>26,300</td>
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#### R-407C Capacity BTUH @ 95°F Ambient by SST

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<th>+30°F</th>
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#### R-407C Capacity BTUH @ 100°F Ambient by SST

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<th>+35°F</th>
<th>+30°F</th>
<th>+25°F</th>
<th>+20°F</th>
<th>+15°F</th>
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<th>+5°F</th>
<th>+0°F</th>
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<td>53,810</td>
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<td>88,110</td>
<td>77,580</td>
<td>67,760</td>
<td>49,620</td>
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</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
**PERFORMANCE DATA – R-407C**

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 38 to confirm DOE compliance per model.

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<th>+0°F</th>
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<td>31,170</td>
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<td>23,980</td>
<td>21,010</td>
<td>18,470</td>
<td>14,660</td>
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<td>40,660</td>
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<td>28,120</td>
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<tr>
<td>BC*0075M@ACD</td>
<td>2DL3R78KE</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>50,990</td>
<td>45,580</td>
<td>40,690</td>
<td>36,250</td>
<td>32,400</td>
<td>29,120</td>
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<td>67,510</td>
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<td>47,090</td>
<td>41,370</td>
<td>36,170</td>
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<td>23,910</td>
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<td>71,830</td>
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<td>49,570</td>
<td>42,970</td>
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<td>74,440</td>
<td>64,340</td>
<td>56,670</td>
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<td>30,620</td>
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<td>91,450</td>
<td>80,600</td>
<td>70,350</td>
<td>60,380</td>
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</tbody>
</table>

**Notes:**

*H = Outdoor, N = Indoor
@  C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 39 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
</tr>
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<td>BC’0030L@ACD</td>
<td>2DF3F16KE</td>
</tr>
<tr>
<td>BC’0040L@ACD</td>
<td>2DL3F20KE</td>
</tr>
<tr>
<td>BC’0060L@ACD</td>
<td>2DB3F25KE</td>
</tr>
<tr>
<td>BC’0061L@ACD</td>
<td>3DA3F28KE</td>
</tr>
<tr>
<td>BC’0075L@ACD</td>
<td>3DB3F33KE</td>
</tr>
<tr>
<td>BC’0090L@ACD</td>
<td>3DF3F40KE</td>
</tr>
<tr>
<td>BC’0100L@ACD</td>
<td>3DS3F46KE</td>
</tr>
<tr>
<td>BC’0120L@ACD</td>
<td>4DBNF54KE</td>
</tr>
<tr>
<td>BC’0150L@ACD</td>
<td>4DHNF63KE</td>
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<tr>
<td>BC’0220L@ACD</td>
<td>4DJNF76KE</td>
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</table>

<table>
<thead>
<tr>
<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
</tr>
<tr>
<td>BC’0030L@ACD</td>
<td>2DF3F16KE</td>
</tr>
<tr>
<td>BC’0040L@ACD</td>
<td>2DL3F20KE</td>
</tr>
<tr>
<td>BC’0060L@ACD</td>
<td>2DB3F25KE</td>
</tr>
<tr>
<td>BC’0061L@ACD</td>
<td>3DA3F28KE</td>
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<td>3DB3F33KE</td>
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<tr>
<td>BC’0090L@ACD</td>
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<td>BC’0100L@ACD</td>
<td>3DS3F46KE</td>
</tr>
<tr>
<td>BC’0120L@ACD</td>
<td>4DBNF54KE</td>
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<tr>
<td>BC’0150L@ACD</td>
<td>4DHNF63KE</td>
</tr>
<tr>
<td>BC’0220L@ACD</td>
<td>4DJNF76KE</td>
</tr>
</tbody>
</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 39 to confirm DOE compliance per model.

### R-404A/R-507A

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<th>Model</th>
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<th>-10°F</th>
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<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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<td>25,020</td>
<td>22,110</td>
<td>19,330</td>
<td>16,710</td>
<td>14,240</td>
<td>11,960</td>
<td>9,830</td>
</tr>
<tr>
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<td>2DL3F20KE</td>
<td>34,990</td>
<td>31,550</td>
<td>28,260</td>
<td>25,060</td>
<td>22,070</td>
<td>19,240</td>
<td>16,600</td>
<td>14,100</td>
<td>11,810</td>
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<td>33,610</td>
<td>30,080</td>
<td>26,680</td>
<td>23,410</td>
<td>20,330</td>
<td>17,360</td>
<td>14,520</td>
</tr>
<tr>
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<td>3DA3F28KE</td>
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<td>—</td>
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<td>33,300</td>
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<td>26,040</td>
<td>22,650</td>
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<td>16,430</td>
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<td>—</td>
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<td>39,550</td>
<td>35,270</td>
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<td>27,240</td>
<td>23,460</td>
<td>19,810</td>
</tr>
<tr>
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<td>63,590</td>
<td>57,120</td>
<td>50,990</td>
<td>45,130</td>
<td>39,670</td>
<td>34,520</td>
<td>29,710</td>
<td>25,240</td>
</tr>
<tr>
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<td>56,380</td>
<td>50,370</td>
<td>44,620</td>
<td>39,120</td>
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<td>28,930</td>
</tr>
<tr>
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<td>64,670</td>
<td>57,330</td>
<td>50,330</td>
<td>43,450</td>
<td>36,540</td>
<td>29,690</td>
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<td>83,380</td>
<td>75,050</td>
<td>66,870</td>
<td>58,990</td>
<td>51,430</td>
<td>44,100</td>
<td>36,770</td>
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<td>77,610</td>
<td>68,540</td>
<td>59,790</td>
<td>50,980</td>
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### R-404A/R-507A

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<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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<tbody>
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<td>25,020</td>
<td>22,110</td>
<td>19,330</td>
<td>16,710</td>
<td>14,240</td>
<td>11,960</td>
<td>9,830</td>
</tr>
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<td>22,070</td>
<td>19,240</td>
<td>16,600</td>
<td>14,100</td>
<td>11,810</td>
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<td>2DB3F25KE</td>
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<td>33,610</td>
<td>30,080</td>
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<td>23,410</td>
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<td>14,520</td>
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<td>68,540</td>
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<td>50,980</td>
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</table>

**Notes:**
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-448A/R-449A

**Low Temperature Models - Discus™ Compressors**

Please consult AWEF table on page 39 to confirm DOE compliance per model

#### R-448A/R-449A

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
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<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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</thead>
<tbody>
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<td>10,210</td>
<td>8,370</td>
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<td>36,090</td>
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<td>21,280</td>
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#### R-448A/R-449A

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**Notes:**
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA — R-448A/R-449A

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 39 to confirm DOE compliance per model

#### R-448A/R-449A

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#### R-449A

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**Notes:**
- * H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
**PERFORMANCE DATA - R-407A/R-407F**

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 39 to confirm DOE compliance per model

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### R-407A/R-407F Capacity BTUH @ 90°F Ambient by SST

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### R-407A/R-407F Capacity BTUH @ 95°F Ambient by SST

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**Notes:**

* H = Outdoor, N = Indoor
  @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-407A/R-407F

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 39 to confirm DOE compliance per model.

### R-407A/R-407F Capacity BTUH @ 100°F Ambient by SST

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### R-407A/R-407F Capacity BTUH @ 110°F Ambient by SST

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<td>14,480</td>
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<td>17,990</td>
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**Notes:**
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
PERFORMANCE DATA – R-407C
Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 39 to confirm DOE compliance per model

### R-407C

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### R-407C

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**Notes:**
* H = Outdoor, N = Indoor
* @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-407C

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 39 to confirm DOE compliance per model

### R-407C Capacity BTUH @ 100°F Ambient by SST

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<td>85,850</td>
<td>75,520</td>
<td>66,130</td>
<td>57,620</td>
<td>49,790</td>
<td>42,470</td>
<td>35,490</td>
<td>28,450</td>
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### R-407C Capacity BTUH @ 110°F Ambient by SST

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<tr>
<th>Model</th>
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<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
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<th>-40°F</th>
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<tr>
<td>BC’0030L@ACD</td>
<td>2DF3F16KE</td>
<td>22,390</td>
<td>19,390</td>
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<td>12,010</td>
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<tr>
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<td>22,610</td>
<td>19,590</td>
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<td>2DB3F25KE</td>
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<td>25,860</td>
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**Notes:**

* H = Outdoor, N = Indoor

C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## UNIT SPECIFICATIONS

Medium & Low Temperature Models - Discus™ Compressors

Please consult AWEF table on pages 38-39 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Refrigerant Line Connections (OD)</th>
<th>Rec. Capacity @90% full (lbs)</th>
<th>Cabinet</th>
<th>Dimensions (In.)</th>
<th>Net Wt. (lbs.)</th>
<th>Sound Data</th>
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<td>Suction</td>
<td>Std</td>
<td>Opt</td>
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<td>Width</td>
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<td>52</td>
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<td>78</td>
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<td>15/8</td>
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<td>C4</td>
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<td>15/8</td>
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<td>15/8</td>
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</tbody>
</table>

**Notes:**

* H = Outdoor, N = Indoor

@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

† Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA; for 40 feet, deduct 12 dBA; for 80 feet, deduct 18 dBA. This data is typical of “free field” conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.
# ELECTRICAL DATA

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 38 to confirm DOE compliance per model

## Remote Loads - Low Amps

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<td>208-230/3/60</td>
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<td>—</td>
<td>15 40(1)</td>
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<td>25.0 30</td>
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<td>—</td>
<td>6.4 16(1)</td>
<td>20.0 20</td>
<td></td>
<td></td>
<td></td>
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<td>—</td>
<td>—</td>
<td>—</td>
<td>15 40(1)</td>
<td>50.0 60</td>
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<tr>
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<td>460/3/60</td>
<td>9.4 60.0 1 1.9 15.0 20.0</td>
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<td>8 20(1)</td>
<td>25.0 30</td>
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<tr>
<td>BC’0050MEACD</td>
<td>2DD3R63KE-TFE</td>
<td>575/3/60</td>
<td>7.1 49.0 1 1.2 15.0 15.0</td>
<td>— — — —</td>
<td>—</td>
<td>6.4 16(1)</td>
<td>20.0 20</td>
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<td></td>
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</tr>
<tr>
<td>BC’0075M0ACD</td>
<td>2DL3R78KE-TFC</td>
<td>208-230/3/60</td>
<td>28.3 169.0 1 2.7 38.1 60.0</td>
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<td>20 48(1)</td>
<td>60.0 80</td>
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<td>31.3 35</td>
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<td>25.0 35</td>
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<td>11.9 67.0 2 1.2 20.0 25.0</td>
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<td>8 20(1)</td>
<td>25.3 35</td>
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<td>43.8 50</td>
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<td>35.0 45</td>
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<td>13 35(1)</td>
<td>43.8 50</td>
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<td>60.0 60</td>
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### Notes:
- **H** = Outdoor, **N** = Indoor
- Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.
- Unless otherwise noted, model is available for 50 Hz. Consult factory for details.
- ‡ = Number of defrost heater contactors in parentheses
- ^ = Two fan large units have ability for a reduced amp electric defrost kit (low amps). Confirm proper defrost kit prior to ordering or installing.
## ELECTRICAL DATA

### Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 39 to confirm DOE compliance per model.

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<th>Power†</th>
<th>Compressor Condenser</th>
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<th>Defrost Htrs. Amps‡</th>
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<td>40.5</td>
<td>60.0</td>
</tr>
</tbody>
</table>

Notes:

* H = Outdoor, N = Indoor

† Unless otherwise noted, model is available for 50 Hz. Consult factory for details.
‡ = Number of defrost heater contactors in parentheses
^ = Two fan large units have ability for a reduced amp electric defrost kit (low amps). Confirm proper defrost kit prior to ordering or installing.
### AWEF DATA – MEDIUM TEMPERATURE

**Discus™ Compressor Models - Indoor/Outdoor**

If model has a numerical value in the table below, the following statement applies:

- This refrigeration system is designed and certified for use in walk-in cooler applications.

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<thead>
<tr>
<th>Model</th>
<th>Indoor</th>
<th>Outdoor</th>
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<td>BC*0051MEACD</td>
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<td>BC*0150MEACD</td>
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<td>5.61</td>
</tr>
</tbody>
</table>

**Notes:**

- * H = Outdoor, N = Indoor
- X = model not suitable for this refrigerant
- — = model is not DOE AWEF compliant

If model has a numerical value in the table, the following statement applies. “This refrigeration system is designed and certified for use in walk-in cooler applications.”
### AWEF DATA – LOW TEMPERATURE

**Discus™ Compressor Models - Indoor/Outdoor**

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in freezer applications.

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<th>Model</th>
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<td>2.40</td>
</tr>
<tr>
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<td>2.40</td>
</tr>
<tr>
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<tr>
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<td>2.40</td>
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<td>2.40</td>
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<td>2.40</td>
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<tr>
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</tbody>
</table>

**Notes:**

* H = Outdoor, N = Indoor
X = model not suitable for this refrigerant
— = model is not DOE AWEF compliant

If model has a numerical value in the table, the following statement applies. “This refrigeration system is designed and certified for use in walk-in freezer applications.”
### PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 54 to confirm DOE compliance per model

#### R-404A/R-507A

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<th>+5°F</th>
<th>+0°F</th>
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<td>73,220</td>
<td>66,700</td>
<td>60,620</td>
<td>54,830</td>
<td>49,460</td>
<td>44,350</td>
<td>39,610</td>
<td>31,210</td>
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<td>87,350</td>
<td>79,990</td>
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<td>59,250</td>
<td>53,300</td>
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<td>37,730</td>
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#### R-404A/R-507A

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#### R-404A/R-507A

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<td>53,520</td>
<td>41,200</td>
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#### R-404A/R-507A

<table>
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<th>+10°F</th>
<th>+5°F</th>
<th>+0°F</th>
<th>-10°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC*0056M@ABX</td>
<td>4EES-6</td>
<td>69,480</td>
<td>64,150</td>
<td>58,760</td>
<td>53,690</td>
<td>48,820</td>
<td>44,200</td>
<td>39,820</td>
<td>35,710</td>
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<td>25,000</td>
</tr>
<tr>
<td>BC*0076M@ABX</td>
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<td>58,770</td>
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<td>47,480</td>
<td>36,300</td>
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</tbody>
</table>

**Notes:**
- H = Outdoor, N = Indoor
- C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 54 to confirm DOE compliance per model

#### R-448A/R-449A Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
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<td>57,430</td>
<td>51,260</td>
<td>45,610</td>
<td>40,390</td>
<td>35,610</td>
<td>27,320</td>
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<td>94,560</td>
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<td>67,060</td>
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#### R-448A/R-449A Capacity BTUH @ 95°F Ambient by SST

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<td>45,200</td>
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<td>64,390</td>
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#### R-448A/R-449A Capacity BTUH @ 100°F Ambient by SST

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<td>24,780</td>
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<td>28,900</td>
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<td>87,430</td>
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<td>61,730</td>
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<td>36,690</td>
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#### R-448A/R-449A Capacity BTUH @ 110°F Ambient by SST

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<td>67,050</td>
<td>60,370</td>
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<td>48,380</td>
<td>43,080</td>
<td>38,130</td>
<td>33,590</td>
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<td>22,280</td>
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<td>39,210</td>
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<td>25,940</td>
</tr>
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<td>89,730</td>
<td>80,370</td>
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<td>63,810</td>
<td>56,470</td>
<td>49,760</td>
<td>43,680</td>
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<td>64,370</td>
<td>56,610</td>
<td>49,530</td>
<td>43,100</td>
<td>32,030</td>
</tr>
</tbody>
</table>

**Notes:**
* H = Outdoor, N = Indoor
* C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 54 to confirm DOE compliance per model

<table>
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<tr>
<th>R-407A/R-407F</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
</tr>
</thead>
<tbody>
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<td>Compressor</td>
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<tr>
<td>BC*0076M@ABX</td>
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<td>BC*0091M@ABX</td>
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<tr>
<td>BC*0101M@ABX</td>
<td>4VES-10</td>
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<table>
<thead>
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<th>R-407A/R-407F</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
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</thead>
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<td>Compressor</td>
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<tr>
<td>BC*0076M@ABX</td>
<td>4DES-7</td>
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<tr>
<td>BC*0091M@ABX</td>
<td>4CES-9</td>
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<tr>
<td>BC*0101M@ABX</td>
<td>4VES-10</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>R-407A/R-407F</th>
<th>Capacity BTUH @ 100°F Ambient by SST</th>
</tr>
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<tbody>
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<tr>
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<td>4DES-7</td>
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<td>BC*0091M@ABX</td>
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<tr>
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<td>4VES-10</td>
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</tbody>
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<table>
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<th>Capacity BTUH @ 110°F Ambient by SST</th>
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<tbody>
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<td>Compressor</td>
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<tr>
<td>BC*0076M@ABX</td>
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<td>BC*0091M@ABX</td>
<td>4CES-9</td>
</tr>
<tr>
<td>BC*0101M@ABX</td>
<td>4VES-10</td>
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</tbody>
</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
35°F Max Superheat
## Performance Data – R-407C

Medium Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 54 to confirm DOE compliance per model

### R-407C Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
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<td>47,930</td>
<td>42,210</td>
<td>36,990</td>
<td>27,660</td>
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### R-407C Capacity BTUH @ 95°F Ambient by SST

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### R-407C Capacity BTUH @ 100°F Ambient by SST

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### R-407C Capacity BTUH @ 110°F Ambient by SST

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<td>51,630</td>
<td>45,150</td>
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<td>28,650</td>
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</tbody>
</table>

**Notes:**
- *H = Outdoor, N = Indoor
- @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 90°F Ambient by SST</th>
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<tbody>
<tr>
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<td>4DES-5</td>
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<tr>
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<td>4CES-6</td>
</tr>
<tr>
<td>BC*0062L@ABX</td>
<td>4VES-7</td>
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<tr>
<td>BC*0076L@ABX</td>
<td>4TES-9</td>
</tr>
<tr>
<td>BC*0101L@ABX</td>
<td>4PES-12</td>
</tr>
<tr>
<td>BC*0121L@ABX</td>
<td>4NES-14</td>
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<tr>
<td>BC*0131L@ABX</td>
<td>4JE-15</td>
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<table>
<thead>
<tr>
<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 95°F Ambient by SST</th>
</tr>
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<tbody>
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<tr>
<td>BC*0056L@ABX</td>
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<td>4CES-6</td>
</tr>
<tr>
<td>BC*0062L@ABX</td>
<td>4VES-7</td>
</tr>
<tr>
<td>BC*0076L@ABX</td>
<td>4TES-9</td>
</tr>
<tr>
<td>BC*0101L@ABX</td>
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<td>BC*0121L@ABX</td>
<td>4NES-14</td>
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<tr>
<td>BC*0131L@ABX</td>
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<table>
<thead>
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<th>R-404A/R-507A</th>
<th>Capacity BTUH @ 100°F Ambient by SST</th>
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<td>Model</td>
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<tr>
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<td>4EES-4</td>
</tr>
<tr>
<td>BC*0056L@ABX</td>
<td>4DES-5</td>
</tr>
<tr>
<td>BC*0061L@ABX</td>
<td>4CES-6</td>
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<tr>
<td>BC*0062L@ABX</td>
<td>4VES-7</td>
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<tr>
<td>BC*0076L@ABX</td>
<td>4TES-9</td>
</tr>
<tr>
<td>BC*0101L@ABX</td>
<td>4PES-12</td>
</tr>
<tr>
<td>BC*0121L@ABX</td>
<td>4NES-14</td>
</tr>
<tr>
<td>BC*0131L@ABX</td>
<td>4JE-15</td>
</tr>
</tbody>
</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
## PERFORMANCE DATA — R-404A/R-507A

Low Temperature Models - Semi-Hermetic Compressors (cont.)

Please consult AWEF table on page 55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
<th>-5°F</th>
<th>-10°F</th>
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<th>-25°F</th>
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<th>-40°F</th>
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<tbody>
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<td>23,320</td>
<td>20,750</td>
<td>18,310</td>
<td>16,020</td>
<td>13,870</td>
<td>11,880</td>
<td>10,040</td>
</tr>
<tr>
<td>BC'0056L@ABX</td>
<td>4DES-5</td>
<td>34,410</td>
<td>30,950</td>
<td>27,680</td>
<td>24,630</td>
<td>21,740</td>
<td>19,030</td>
<td>16,500</td>
<td>14,160</td>
<td>11,980</td>
</tr>
<tr>
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<td>4CES-6</td>
<td>43,450</td>
<td>38,680</td>
<td>34,350</td>
<td>30,250</td>
<td>26,450</td>
<td>22,910</td>
<td>19,700</td>
<td>16,740</td>
<td>14,040</td>
</tr>
<tr>
<td>BC'0062L@ABX</td>
<td>4VES-7</td>
<td>42,910</td>
<td>37,910</td>
<td>33,390</td>
<td>29,080</td>
<td>25,020</td>
<td>21,330</td>
<td>17,950</td>
<td>14,860</td>
<td>12,020</td>
</tr>
<tr>
<td>BC'0076L@ABX</td>
<td>4TES-9</td>
<td>52,520</td>
<td>46,670</td>
<td>41,390</td>
<td>36,320</td>
<td>31,560</td>
<td>27,190</td>
<td>23,170</td>
<td>19,460</td>
<td>16,060</td>
</tr>
<tr>
<td>BC'0101L@ABX</td>
<td>4PES-12</td>
<td>57,920</td>
<td>51,410</td>
<td>45,240</td>
<td>39,320</td>
<td>33,920</td>
<td>28,930</td>
<td>24,390</td>
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<td>57,460</td>
<td>50,250</td>
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<td>37,420</td>
<td>31,800</td>
<td>26,670</td>
<td>21,940</td>
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<tr>
<td>BC'0131L@ABX</td>
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<td>59,590</td>
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<td>44,920</td>
<td>38,360</td>
<td>32,250</td>
<td>26,570</td>
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</table>

**Notes:**

* H = Outdoor, N = Indoor

@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
### PERFORMANCE DATA – R-448A/R-449A

Low Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 55 to confirm DOE compliance per model

#### R-448A/R-449A

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>+0°F</th>
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<th>-30°F</th>
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<th>-40°F</th>
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</thead>
<tbody>
<tr>
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<td>25,580</td>
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<td>19,240</td>
<td>16,440</td>
<td>13,880</td>
<td>11,540</td>
<td>9,380</td>
</tr>
<tr>
<td>BC*0056L@ABX</td>
<td>4DES-5</td>
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<td>34,170</td>
<td>29,900</td>
<td>26,050</td>
<td>22,480</td>
<td>19,190</td>
<td>16,210</td>
<td>13,460</td>
<td>10,930</td>
</tr>
<tr>
<td>BC*0061L@ABX</td>
<td>4CES-6</td>
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<td>43,510</td>
<td>38,090</td>
<td>33,190</td>
<td>28,690</td>
<td>24,580</td>
<td>20,860</td>
<td>17,440</td>
<td>14,300</td>
</tr>
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<td>43,170</td>
<td>37,490</td>
<td>32,310</td>
<td>27,550</td>
<td>23,270</td>
<td>19,400</td>
<td>15,840</td>
<td>12,560</td>
</tr>
<tr>
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<td>46,550</td>
<td>40,370</td>
<td>34,730</td>
<td>29,550</td>
<td>24,880</td>
<td>20,590</td>
<td>16,670</td>
</tr>
<tr>
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#### R-448A/R-449A

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<tbody>
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<td>24,350</td>
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<td>18,240</td>
<td>15,560</td>
<td>13,090</td>
<td>10,840</td>
<td>8,780</td>
</tr>
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<td>15,270</td>
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<tr>
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<td>27,290</td>
<td>23,330</td>
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<td>13,470</td>
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<tr>
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<td>56,060</td>
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<td>45,810</td>
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<td>31,640</td>
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#### R-448A/R-449A

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<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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<tbody>
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<td>12,310</td>
<td>10,160</td>
<td>8,190</td>
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<td>20,100</td>
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<td>45,950</td>
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<tr>
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<td>50,940</td>
<td>43,160</td>
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<td>29,550</td>
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Notes:
* H = Outdoor, N = Indoor
  @ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
  35°F Max Superheat
PERFORMANCE DATA – R-448A/R-449A

Low Temperature Models - Semi-Hermetic Compressors (cont.)

Please consult AWEF table on page 55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-448A/R-449A</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>BC’0056L@ABX 4DES-5</td>
<td>31,760</td>
</tr>
<tr>
<td>BC’0061L@ABX 4CES-6</td>
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</tr>
<tr>
<td>BC’0062L@ABX 4VES-7</td>
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</tr>
<tr>
<td>BC’0076L@ABX 4TES-9</td>
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</tr>
<tr>
<td>BC’0101L@ABX 4PES-12</td>
<td>54,000</td>
</tr>
<tr>
<td>BC’0121L@ABX 4NES-14</td>
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</tr>
<tr>
<td>BC’0131L@ABX 4JE-15</td>
<td>80,770</td>
</tr>
</tbody>
</table>

Notes:
* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
35°F Max Superheat
### PERFORMANCE DATA — R-407A/R-407F

Low Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 55 to confirm DOE compliance per model

#### R-407A/R-407F

<table>
<thead>
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<th>Model</th>
<th>Compressor</th>
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<th>-15°F</th>
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<th>-40°F</th>
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</thead>
<tbody>
<tr>
<td>BC*0041L@ABX</td>
<td>4EES-4</td>
<td>33,410</td>
<td>29,470</td>
<td>25,770</td>
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<td>13,700</td>
<td>11,250</td>
<td>8,990</td>
</tr>
<tr>
<td>BC*0056L@ABX</td>
<td>4DES-5</td>
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<td>34,430</td>
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<td>26,150</td>
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<td>19,090</td>
<td>15,970</td>
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<td>38,550</td>
<td>33,520</td>
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<td>20,710</td>
<td>17,130</td>
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<td>43,610</td>
<td>37,800</td>
<td>32,470</td>
<td>27,510</td>
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<td>4TES-9 †</td>
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<td>54,460</td>
<td>47,610</td>
<td>41,220</td>
<td>35,330</td>
<td>29,850</td>
<td>24,840</td>
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<tr>
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<td>4PES-12 †</td>
<td>69,060</td>
<td>60,430</td>
<td>52,590</td>
<td>45,230</td>
<td>38,380</td>
<td>32,110</td>
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<td>65,360</td>
<td>56,340</td>
<td>48,050</td>
<td>40,410</td>
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<tr>
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#### R-407A/R-407F

<table>
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<tr>
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<td>4EES-4</td>
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<td>57,190</td>
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<td>42,610</td>
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<td>30,010</td>
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<td>53,320</td>
<td>45,350</td>
<td>38,020</td>
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<td>4JE-15 †</td>
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<td>58,650</td>
<td>49,600</td>
<td>41,170</td>
<td>33,420</td>
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#### R-407A/R-407F

<table>
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<th>Model</th>
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<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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</thead>
<tbody>
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<td>30,240</td>
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<td>23,160</td>
<td>20,050</td>
<td>17,170</td>
<td>14,500</td>
<td>12,060</td>
<td>9,820</td>
<td>7,760</td>
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<tr>
<td>BC*0056L@ABX</td>
<td>4DES-5</td>
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<td>30,990</td>
<td>27,060</td>
<td>23,380</td>
<td>20,000</td>
<td>16,860</td>
<td>14,020</td>
<td>11,400</td>
<td>8,990</td>
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<td>45,520</td>
<td>39,960</td>
<td>34,910</td>
<td>30,220</td>
<td>25,930</td>
<td>21,980</td>
<td>18,410</td>
<td>15,130</td>
<td>12,120</td>
</tr>
<tr>
<td>BC*0062L@ABX</td>
<td>4VES-7 †</td>
<td>44,730</td>
<td>38,890</td>
<td>33,640</td>
<td>28,670</td>
<td>24,140</td>
<td>20,000</td>
<td>16,250</td>
<td>12,780</td>
<td>9,560</td>
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<tr>
<td>BC*0076L@ABX</td>
<td>4TES-9 †</td>
<td>55,980</td>
<td>49,070</td>
<td>42,810</td>
<td>36,920</td>
<td>31,480</td>
<td>26,430</td>
<td>21,840</td>
<td>17,600</td>
<td>13,710</td>
</tr>
<tr>
<td>BC*0101L@ABX</td>
<td>4PES-12 †</td>
<td>61,950</td>
<td>54,070</td>
<td>46,780</td>
<td>39,940</td>
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<td>27,930</td>
<td>22,710</td>
<td>17,880</td>
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<td>4NES-14 †</td>
<td>77,390</td>
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<td>58,660</td>
<td>50,320</td>
<td>42,630</td>
<td>35,650</td>
<td>29,280</td>
<td>23,440</td>
<td>18,070</td>
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<tr>
<td>BC*0131L@ABX</td>
<td>4JE-15 †</td>
<td>85,460</td>
<td>74,650</td>
<td>64,680</td>
<td>55,310</td>
<td>46,620</td>
<td>38,540</td>
<td>31,120</td>
<td>24,220</td>
<td>17,780</td>
</tr>
</tbody>
</table>

Notes:
- † Liquid Injection via CIC is required at all operating conditions
- H = Outdoor, N = Indoor
- C = 208-230/3/60, D = 460/3/60, E = 575/3/60
- 35°F Max Superheat
**PERFORMANCE DATA – R-407A/R-407F**

Low Temperature Models - Semi-Hermetic Compressors (cont.)

Please consult AWEF table on page 55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-407A/R-407F</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
</tr>
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<td>BC*0041L@ABX</td>
<td>4EES-4</td>
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<tr>
<td>BC*0056L@ABX</td>
<td>4DES-5</td>
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<tr>
<td>BC*0061L@ABX</td>
<td>4CES-6</td>
</tr>
<tr>
<td>BC*0062L@ABX</td>
<td>4VES-7 †</td>
</tr>
<tr>
<td>BC*0076L@ABX</td>
<td>4TES-9 †</td>
</tr>
<tr>
<td>BC*0101L@ABX</td>
<td>4PES-12 †</td>
</tr>
<tr>
<td>BC*0121L@ABX</td>
<td>4NES-14 †</td>
</tr>
<tr>
<td>BC*0131L@ABX</td>
<td>4JE-15 †</td>
</tr>
</tbody>
</table>

**Notes:**
- † Liquid Injection via CIC is required at all operating conditions
- *H = Outdoor, N = Indoor*
- C = 208-230/3/60, D = 460/3/60, E = 575/3/60
- 35°F Max Superheat
### PERFORMANCE DATA – R-407C

Low Temperature Models - Semi-Hermetic Compressors

Please consult AWEF table on page 55 to confirm DOE compliance per model

#### R-407C Capacity BTUH @ 90°F Ambient by SST

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
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<th>-5°F</th>
<th>-10°F</th>
<th>-15°F</th>
<th>-20°F</th>
<th>-25°F</th>
<th>-30°F</th>
<th>-35°F</th>
<th>-40°F</th>
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<tbody>
<tr>
<td>BC’0041L@ABX 4EES-4</td>
<td>28,800</td>
<td>25,110</td>
<td>21,810</td>
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<tr>
<td>BC’0056L@ABX 4DES-5</td>
<td>34,550</td>
<td>30,230</td>
<td>26,250</td>
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<tr>
<td>BC’0061L@ABX 4CES-6</td>
<td>43,930</td>
<td>38,490</td>
<td>33,460</td>
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<tr>
<td>BC’0062L@ABX 4VES-7</td>
<td>44,730</td>
<td>39,060</td>
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<tr>
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<td>54,800</td>
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<tr>
<td>BC’0101L@ABX 4PES-12</td>
<td>61,030</td>
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<td>45,890</td>
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<tr>
<td>BC’0121L@ABX 4NES-14</td>
<td>75,480</td>
<td>65,850</td>
<td>56,920</td>
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<tr>
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<td>82,820</td>
<td>71,830</td>
<td>61,740</td>
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#### R-407C Capacity BTUH @ 95°F Ambient by SST

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<th>-10°F</th>
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<th>-20°F</th>
<th>-25°F</th>
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<th>-35°F</th>
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<tbody>
<tr>
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<tr>
<td>BC’0056L@ABX 4DES-5</td>
<td>32,980</td>
<td>28,830</td>
<td>24,990</td>
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<tr>
<td>BC’0061L@ABX 4CES-6</td>
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#### R-407C Capacity BTUH @ 100°F Ambient by SST

<table>
<thead>
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<td>26,100</td>
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<td>BC’0056L@ABX 4DES-5</td>
<td>31,370</td>
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<tr>
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<td>BC’0076L@ABX 4TES-9</td>
<td>49,830</td>
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<tr>
<td>BC’0101L@ABX 4PES-12</td>
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<tr>
<td>BC’0121L@ABX 4NES-14</td>
<td>68,510</td>
<td>59,510</td>
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<tr>
<td>BC’0131L@ABX 4JE-15</td>
<td>74,950</td>
<td>64,790</td>
<td>55,250</td>
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</tr>
</tbody>
</table>

**Notes:**
* H = Outdoor, N = Indoor
* C = 208-230/3/60, D = 460/3/60, E = 575/3/60
* 35°F Max Superheat
**PERFORMANCE DATA – R-407C**

Low Temperature Models - Semi-Hermetic Compressors (cont.)

Please consult AWEF table on page 55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>R-407C</th>
<th>Capacity BTUH @ 110°F Ambient by SST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Compressor</td>
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<tr>
<td>BC*0041L@ABX 4EES-4</td>
<td>23,450</td>
</tr>
<tr>
<td>BC*0056L@ABX 4DES-5</td>
<td>28,300</td>
</tr>
<tr>
<td>BC*0061L@ABX 4CES-6</td>
<td>36,470</td>
</tr>
<tr>
<td>BC*0062L@ABX 4VES-7</td>
<td>36,200</td>
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<tr>
<td>BC*0076L@ABX 4TES-9</td>
<td>44,840</td>
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<tr>
<td>BC*0101L@ABX 4PES-12</td>
<td>48,880</td>
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<tr>
<td>BC*0121L@ABX 4NES-14</td>
<td>61,430</td>
</tr>
<tr>
<td>BC*0131L@ABX 4JE-15</td>
<td>67,370</td>
</tr>
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</table>

**Notes:**

* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
35°F Max Superheat
## UNIT SPECIFICATIONS

Medium & Low Temperature Models - Bitzer™ Compressors

Please consult AWEF table on pages 54-55 to confirm DOE compliance per model

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>Refrigerant Line Connections (OD)</th>
<th>Rec. Capacity @90% full (lbs)</th>
<th>Cabinet</th>
<th>Dimensions (In.)</th>
<th>Net Wt.</th>
<th>Sound Data</th>
</tr>
</thead>
<tbody>
<tr>
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**Notes:**

* H = Outdoor, N = Indoor
@ C = 208-230/3/60, D = 460/3/60, E = 575/3/60
† Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA; for 40 feet, deduct 12 dBA; for 80 feet, deduct 18 dBA. This data is typical of “free field” conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.
**ELECTRICAL DATA**

Medium & Low Temperature Models - Bitzer™ Compressors

Please consult AWEF table on pages 54-55 to confirm DOE compliance per model

**Notes:**
- *H = Outdoor, N = Indoor
- Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.
- † Unless otherwise noted, model is available for 50 Hz. Consult factory for details.

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### AWEF DATA – MEDIUM TEMPERATURE

**Bitzer™ Semi-Hermetic Compressor Models - Indoor/Outdoor**

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in cooler applications.

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**Notes:**

* H = Outdoor, N = Indoor
X = model not suitable for this refrigerant
— = model is not DOE AWEF compliant
If model has a numerical value in the table, the following statement applies. “This refrigeration system is designed and certified for use in walk-in cooler applications.”
### AWEF DATA – LOW TEMPERATURE

**Bitzer™ Semi-Hermetic Compressor Models - Indoor/Outdoor**

If model has a numerical value in the table below, the following statement applies:

“This refrigeration system is designed and certified for use in walk-in freezer applications.”

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**Notes:**

* H = Outdoor, N = Indoor
X = model not suitable for this refrigerant
— = model is not DOE AWEF compliant
If model has a numerical value in the table, the following statement applies. “This refrigeration system is designed and certified for use in walk-in freezer applications.”
Right source. Right parts. Right now.

InterLink™ is your link to a complete line of dependable and certified commercial refrigeration parts, accessories and innovative electronic controls for all Bohn equipment. At InterLink, we provide our wholesalers with a comprehensive selection of product solutions and innovative technologies for the installed customer base. And every product is built to ensure the same high performance standards with which all Heatcraft Refrigeration Products brands are built — backed by a dedicated team to serve every customer need, delivering at the best lead times in the industry.

Finally, one simple source for all your replacement needs from a name you can trust.

## REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C4</td>
</tr>
<tr>
<td>PSC Motor, 230/1</td>
<td>25309004</td>
</tr>
<tr>
<td>PSC Motor, 460/1</td>
<td>25314601</td>
</tr>
<tr>
<td>PSC Motor, 575/1</td>
<td>25309003</td>
</tr>
<tr>
<td>EC Motor, 230/1</td>
<td>25319104</td>
</tr>
<tr>
<td>EC Motor, 460/1</td>
<td>25319104*</td>
</tr>
<tr>
<td>EC Motor, 460/3</td>
<td>N/A</td>
</tr>
<tr>
<td>Fan Blade</td>
<td>7173156</td>
</tr>
<tr>
<td>Orbus Controller</td>
<td>28962001</td>
</tr>
<tr>
<td>Orbus Transducer, 0-500 psis</td>
<td>28911204</td>
</tr>
<tr>
<td>Smart Defrost Kit (SDK)</td>
<td>28999301</td>
</tr>
<tr>
<td>SDK Temperature Sensor</td>
<td>28902301</td>
</tr>
<tr>
<td>SDK Transducer, 0-300 psia</td>
<td>28911202</td>
</tr>
</tbody>
</table>

Notes:
* = 460/230V transformer is used in unit