Pendent and Recessed Pendent Sprinklers

5.6 (81) K-factor

**VK600, Part No. 067788**
Technical datasheet F_080988

- Listed to 175 psi (12 bar)
- 1/2" NPT (15mm)
- Light Hazard
- Standard Response - 155°F/68°C, 175°F/79°C
- Quick Response - 135°F/57°C, 155°F/68°C, 175°F/79°C
- Standard Wrench - 21475M/B, Recessed Wrench - 13577W/B

<table>
<thead>
<tr>
<th>Coverage Area ft² (m²)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16¹ (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>21.6 (1.49)</td>
</tr>
<tr>
<td>18 x 18² (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>34.7 (2.40)</td>
</tr>
<tr>
<td>20 x 20³ (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>51.0 (3.52)</td>
</tr>
</tbody>
</table>

¹ cULus listed for quick response only. FM approved for quick response.
² cULus quick response listing available in 135°F/57°C only. FM quick response listing includes 135°F/57°C, 155°F/68°C, and 175°F/79°C.
³ Standard response listing also available in 155°F/68°C and 175°F/79°C.

See technical datasheet for expanded FM approval criteria.

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5.6 (81) K-factor

**VK604, Part No. 10335**
Technical datasheet F_062314

- Listed at 175 psi (12 bar)
- VK610 (p/n 12294) Listed for high pressure; 250 psi (17.2 bar)
- 1/2" NPT (15mm)
- Light Hazard
- Standard Response - 155°F/68°C, 175°F/79°C
- Quick Response - 135°F/57°C, 155°F/68°C, 175°F/79°C
- Standard Wrench - 21475M/B, Recessed Wrench - 13577W/B

<table>
<thead>
<tr>
<th>Coverage Area ft² (m²)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16¹ (4.9x4.9)</td>
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<td>20 x 20³ (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>51.0 (3.52)</td>
</tr>
</tbody>
</table>

¹ cULus listed for quick response only. FM approved for quick response.
² Standard response listing also available in 175°F/79°C.
³ Standard response listing also available in 175°F/79°C.

See technical datasheet for expanded FM approval criteria.

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8.0 (115) K-factor

**VK602, Part No. 18262**
Technical datasheet F_102412

- Listed to 175 psi (12 bar)
- 3/4" NPT (20mm)
- Light Hazard
- Standard Response - 155°F/68°C, 175°F/79°C
- Quick Response - 135°F/57°C, 155°F/68°C, 175°F/79°C
- Standard Wrench - 21475M/B, Recessed Wrench - 13577W/B

<table>
<thead>
<tr>
<th>Coverage Area ft² (m²)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16¹ (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>10.6 (0.73)</td>
</tr>
<tr>
<td>18 x 18² (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>17.0 (1.17)</td>
</tr>
<tr>
<td>20 x 20³ (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>25.0 (1.72)</td>
</tr>
</tbody>
</table>

¹ cULus listed for quick response only. FM approved for quick response.
² cULus quick response listing available in 135°F/57°C only. FM quick response listing includes 135°F/57°C, 155°F/68°C, and 175°F/79°C.
³ Standard response listing also available in 155°F/68°C and 175°F/79°C.

See technical datasheet for expanded FM approval criteria.

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11.2 (161) K-factor

**VK608, Part No. 08339**
Technical datasheet F_052793

- Listed to 175 psi (12 bar)
- 3/4" NPT (20mm)
- Light Hazard
- Standard Response - 155°F/68°C
- Quick Response - 135°F/57°C, 155°F/68°C, 175°F/79°C
- Standard Wrench - 05118CW/B, Recessed Wrench - 11663W/B
- Listed with concrete tees up to 30” (762mm) in depth

<table>
<thead>
<tr>
<th>Coverage Area ft² (m²)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16¹ (4.9x4.9)</td>
<td>30 (113.6)</td>
<td>7.2 (0.50)</td>
</tr>
<tr>
<td>18 x 18² (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>8.7 (0.60)</td>
</tr>
<tr>
<td>20 x 20³ (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>12.8 (0.88)</td>
</tr>
</tbody>
</table>

¹ Available only for quick response.
² cULus quick response listing available in 135°F/57°C and 175°F/79°C only. FM quick response approval also includes 155°F/68°C.
³ See technical datasheet for expanded FM approval criteria.

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11.2 (161) K-factor

**VK534, Part No. 08340**

Technical datasheet F_051393

- QR Listing for Light and Ordinary Hazard may allow for design area reduction.
- Listed to 175 psi (12 bar)
- 3/4" NPT (20mm)
- Light/Ordinary Hazard
- Standard Wrench - 05118CW/B, Recessed Wrench - 11663W/B
- Listed with concrete tees up to 30" (762mm) in depth
- Available with ENF coating (Nickel PTFE) for corrosion resistance

<table>
<thead>
<tr>
<th>Coverage Area ft² (m²)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16² (4.9x4.9)</td>
<td>30 (113.6)</td>
<td>7.2 (0.50)</td>
</tr>
<tr>
<td>18 x 18² (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>8.7 (0.60)</td>
</tr>
<tr>
<td>20 x 20² (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>12.8 (0.88)</td>
</tr>
</tbody>
</table>

1 Available only for quick response.
2 Available only for standard response.
3 Design data listed above is for OH Group 1. See technical datasheet for OH Group 2 data.

**ORDINARY HAZARD**

- 12 x 12² (3.7x3.7) | 30 (113.6) | 7.2 (0.50) |
- 14 x 14² (4.3x4.3) | 30 (113.6) | 7.2 (0.50) |
- 16 x 16² (4.9x4.9) | 38 (143.9) | 11.5 (0.79) |
- 18 x 18² (5.5x5.5) | 49 (185.5) | 19.1 (1.32) |
- 20 x 20² (6.1x6.1) | 60 (227.1) | 28.7 (1.98) |

1 Available only for standard response.
2 UL Listed only for standard response.
3 Design data listed above is for OH Group 1. See technical datasheet for OH Group 2 data.
4** FM Approved as QR for all temps and spacings shown. See technical datasheet for FM approval criteria.

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14.0 (202) K-factor

**VK572, Part No. 13722**

Technical datasheet F_072313

- QR Listing for Ordinary Hazard may allow for design area reduction
- Listed to 175 psi (12 bar)
- 3/4" NPT (20mm)
- Ordinary Hazard
- Standard Wrench - 07297W/B, Recessed Wrench - 13032W/B
- FM Approved for HCl, HC2, and HC3 occupations
- Listed with concrete tees up to 30" (762mm) in depth
- Available with ENF coating (Nickel PTFE) for corrosion resistance

**ORDERLY HAZARD**

- 12 x 12² (3.7x3.7) | 39 (147.6) | 7.8 (0.54) |
- 14 x 14² (4.3x4.3) | 39 (147.6) | 7.8 (0.54) |
- 16 x 16² (4.9x4.9) | 39 (147.6) | 7.8 (0.54) |
- 18 x 18² (5.5x5.5) | 49 (185.5) | 12.3 (0.85) |
- 20 x 20² (6.1x6.1) | 60 (227.1) | 18.4 (1.27) |

1 Available only for quick response.
2 UL Listed only for standard response.
3 Design data listed above is for OH Group 1. See technical datasheet for OH Group 2 data.
4** FM Approved as QR for all temps and spacings shown. See technical datasheet for FM approval criteria.

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**Upright Sprinkler**

11.2 (161) K-factor

**VK532, Part No. 08687**

Technical datasheet F_053114

- QR Listing for Light and Ordinary Hazard may allow for design area reduction
- 3/4" NPT (20mm)
- Light/Ordinary Hazard
- Standard Wrench - 05118CW/B, Recessed Wrench - 11663W/B
- FM Approved for HCl, HC2, and HC3 occupations
- Listed with concrete tees up to 30" (762mm) in depth
- Available with ENF coating (Nickel PTFE) for corrosion resistance

**LIGHT HAZARD**

- 16 x 16² (4.9x4.9) | 30 (113.6) | 7.2 (0.50) |
- 18 x 18² (5.5x5.5) | 33 (124.9) | 8.7 (0.60) |
- 20 x 20² (6.1x6.1) | 40 (151.4) | 12.8 (0.88) |

**ORDINARY HAZARD**

- 12 x 12² (3.7x3.7) | 30 (113.6) | 7.2 (0.50) |
- 14 x 14² (4.3x4.3) | 30 (113.6) | 7.2 (0.50) |
- 16 x 16² (4.9x4.9) | 38 (143.9) | 11.5 (0.79) |
- 18 x 18² (5.5x5.5) | 49 (185.5) | 19.1 (1.32) |
- 20 x 20² (6.1x6.1) | 60 (227.1) | 28.7 (1.98) |

1 Available only for quick response.
2 Available only for standard response.
3 Design data listed above is for OH Group 1. See technical datasheet for OH Group 2 data.
4** FM Approved as QR for all temps and spacings shown. See technical datasheet for FM approval criteria.

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**VK570, Part No. 13840**

Technical datasheet F_010104

- QR Listing for Ordinary Hazard may allow for design area reduction
- Listed at 175 psi (12 bar)
- 3/4" NPT (20mm)
- Ordinary Hazard
- Standard Wrench - 07297W/B
- Listed with concrete tees up to 30" (762mm) in depth
- Available with ENF coating (Nickel PTFE) for corrosion resistance

**LIGHT HAZARD**

- 16 x 16² (4.9x4.9) | 30 (113.6) | 7.2 (0.50) |
- 18 x 18² (5.5x5.5) | 33 (124.9) | 8.7 (0.60) |
- 20 x 20² (6.1x6.1) | 40 (151.4) | 12.8 (0.88) |

**ORDINARY HAZARD**

- 12 x 12² (3.7x3.7) | 39 (147.6) | 7.8 (0.54) |
- 14 x 14² (4.3x4.3) | 39 (147.6) | 7.8 (0.54) |
- 16 x 16² (4.9x4.9) | 39 (147.6) | 7.8 (0.54) |
- 18 x 18² (5.5x5.5) | 49 (185.5) | 12.3 (0.85) |
- 20 x 20² (6.1x6.1) | 60 (227.1) | 18.4 (1.27) |

1 Available only for quick response.
2 Available only for standard response.
3 Design data listed above is for OH Group 1. See technical datasheet for Group 2 data.
4** FM Approved as QR for all temps and spacings shown. See technical datasheet for FM approval criteria.

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**Cover Plate Information**

Flat covers are available in white, ivory, black, bright brass, brushed brass, antique brass, polished chrome, brushed chrome and brushed copper standard finishes. Domed covers are available in white, ivory, black and polished chrome. Flat covers are 3-5/16" (84mm) and 2-3/4" (69.8mm) in diameter and the domed covers are 3-1/8" (80mm) in diameter. Square cover plates measure (LxW) 3-5/16" (84mm).

**Special Painted Cover Plates**

In addition to standard finishes, cover plates can be special ordered in over 800 custom colors. Additional charges will apply. Orders covering special painted products are not subject to cancellation except by written permission and then only upon agreement to make payment for work already performed. Viking reserves the right to over ship special painted products produced in excess of order quantity at no charge. No return of these products is allowed.

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**Additional Design and Application Information**

For systems designed to NFPA 13, water supplies are determined by applying the requirements from Chapter 19, Design Approaches (2019 Edition). Refer to sprinkler data pages on Viking's web site at www.vikinggroupinc.com for current technical data, design criteria, and listing/approval information. In some cases, Sprinkler Identification Numbers (SIN) may apply to more than one sprinkler. Please use part numbers when placing orders. **NOTE**: The A = 5 x L method must be used to determine the sprinkler protection area of coverage. (9.5.2.1)
**Commercial Extended Coverage Sprinkler Quick Reference Guide**

### Horizontal Sidewall Sprinklers

**Standard Response available in 155°F/68°C; Quick Response available in 135°F/57°C, 155°F/68°C and 175°F/79°C**

#### 5.6 (81) K-factor

**VK605, Part No. 12120**  
Technical datasheet F_072414

- 1/2" NPT (15mm)
- Light Hazard, Standard/Quick Response
- 6-12" (152-305mm) deflector distance to ceiling for horizontal ceilings. 4-6" (102-152mm) for ceilings up to 4/12 (18.4°) pitch
- Standard Wrench - 21475M/B, Recessed Wrench - 13655W/B
- Listed for high pressure; 250 psi (17.2 bar) as VK612 (p/n 12295)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)*</th>
<th>Pressure psi (bar)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>21.6 (1.49)</td>
</tr>
<tr>
<td>16 x 18 (4.9x5.5)</td>
<td>29 (109.8)</td>
<td>26.8 (1.85)</td>
</tr>
<tr>
<td>16 x 20 (4.9x6.1)</td>
<td>32 (121.1)</td>
<td>32.7 (2.25)</td>
</tr>
</tbody>
</table>

1 Also available for sloped ceilings up to 4/12 (18°) pitch with same flows and pressures, installed 4-6" below ceiling.

**VK606, Part No. 18271**  
Technical datasheet F_102612

- 3/4" NPT (20mm)
- Light Hazard, Quick Response
- Approved for 4-12" (102-305mm) down from ceiling
- Standard Wrench - 21475M/B, Recessed Wrench - 13655W/B
- FM approved up to 16 x 24 (4.9 x 7.3)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)*</th>
<th>Pressure psi (bar)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>10.6 (0.73)</td>
</tr>
<tr>
<td>16 x 18 (4.9x5.5)</td>
<td>29 (109.8)</td>
<td>13.1 (0.91)</td>
</tr>
<tr>
<td>16 x 20 (4.9x6.1)</td>
<td>32 (121.1)</td>
<td>16.0 (1.10)</td>
</tr>
<tr>
<td>16 x 22 (4.9x6.7)</td>
<td>36 (136.3)</td>
<td>20.3 (1.40)</td>
</tr>
<tr>
<td>16 x 22 (4.9x6.7)</td>
<td>38 (143.8)</td>
<td>22.6 (1.56)</td>
</tr>
</tbody>
</table>

1 4-6" (102-152mm) down from ceiling.  
2 6-12" (152-305mm) down from ceiling.  
* Flows and pressures listed above are based on UL Listings only. See technical datasheet for FM approval criteria.

#### 8.0 (115) K-factor

**VK606, Part No. 13500**  
Technical datasheet F_102905

- 3/4" NPT (20mm)
- Light Hazard, Quick Response
- Approved for 4-12" (102-305mm) down from ceiling
- Standard Wrench - 21475M/B, Recessed Wrench - 13655W/B
- Also available in a domed concealed (model p/n 13500A-X)
- Available with ENT coating (Nickel PTFE) for corrosion resistance

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)*</th>
<th>Pressure psi (bar)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 x 24 (4.3x7.3)</td>
<td>34 (128.7)</td>
<td>18.1 (1.25)</td>
</tr>
<tr>
<td>14 x 24 (4.3x7.3)</td>
<td>36 (136.3)</td>
<td>20.3 (1.40)</td>
</tr>
<tr>
<td>14 x 26 (4.3x7.9)</td>
<td>38 (144.0)</td>
<td>22.6 (1.56)</td>
</tr>
<tr>
<td>14 x 26 (4.3x7.9)</td>
<td>46 (174.1)</td>
<td>33.1 (2.28)</td>
</tr>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>10.6 (0.73)</td>
</tr>
<tr>
<td>16 x 18 (4.9x5.5)</td>
<td>29 (109.8)</td>
<td>13.1 (0.91)</td>
</tr>
<tr>
<td>16 x 20 (4.9x6.1)</td>
<td>32 (121.1)</td>
<td>16.0 (1.10)</td>
</tr>
<tr>
<td>16 x 22 (4.9x6.7)</td>
<td>36 (136.3)</td>
<td>20.3 (1.40)</td>
</tr>
<tr>
<td>16 x 24 (4.9x7.3)</td>
<td>39 (147.6)</td>
<td>23.8 (1.64)</td>
</tr>
<tr>
<td>18 x 18 (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>17.0 (1.17)</td>
</tr>
<tr>
<td>18 x 20 (5.5x6.2)</td>
<td>36 (136.3)</td>
<td>20.3 (1.40)</td>
</tr>
<tr>
<td>18 x 22 (5.5x6.7)</td>
<td>40 (151.4)</td>
<td>25.0 (1.72)</td>
</tr>
</tbody>
</table>

1 4-6" (102-152mm) down from ceiling.  
2 6-12" (152-305mm) down from ceiling.  
* Flows and pressures listed above are based on UL Listings only. See technical datasheet for FM approval criteria.

### Additional Information:

- **VK630, Part No. 13500 (Corridor Sprinkler)**  
  Technical datasheet F_081911

  - 3/4" NPT (20mm)
  - Light Hazard, Quick Response
  - Standard Wrench - 21475M/B, Recessed Wrench - 13655W/B
  - Well suited for hallways, corridors, breeze ways, and other applications requiring a wide spray pattern
  - Also available in a domed concealed model (p/n 17375A-X)
Mirage® Flat Plate Concealed Pendent Sprinklers

### VK632, Part No. 14613A
Technical datasheet F_080107

- 1/2" NPT (15mm)
- Light Hazard
- Wrench: Heavy Duty (14047W/B); Light Duty (14031)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>10.6 (0.73)</td>
</tr>
<tr>
<td>18 x 18 (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>17.0 (1.20)</td>
</tr>
<tr>
<td>20 x 20 (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>25.0 (1.72)</td>
</tr>
</tbody>
</table>

* Available only for 135°F/57°C and 165°F/79°C.

### VK634, Part No. 14535A
Technical datasheet F_080107

- 3/4" NPT (20mm)
- Light Hazard
- Wrench: Heavy Duty (14047W/B); Light Duty (14031)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>26 (98.4)</td>
<td>10.6 (0.73)</td>
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<td>18 x 18 (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>17.0 (1.20)</td>
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<tr>
<td>20 x 20 (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>25.0 (1.72)</td>
</tr>
</tbody>
</table>

* Available only for 135°F/57°C and 165°F/79°C.

### VK636, Part No. 16102A
Technical datasheet F_121009

- 3/4" NPT (20mm)
- Light Hazard
- Wrench: Heavy Duty (15467W/B); Light Duty (15466)
- Quick Response - Sprinkler 165°F/79°C, 205°F/93°C; Cover 135°F/57°C, 165°F/79°C
- Use ELO cover plate 15765_ (3-5/16" diameter)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>30 (113.6)</td>
<td>7.2 (0.50)</td>
</tr>
<tr>
<td>18 x 18 (5.5x5.5)</td>
<td>33 (124.9)</td>
<td>8.7 (0.60)</td>
</tr>
<tr>
<td>20 x 20 (6.1x6.1)</td>
<td>40 (151.4)</td>
<td>12.8 (0.88)</td>
</tr>
</tbody>
</table>

### VK538, Part No. 17115A
Technical datasheet F_050611

- 3/4" NPT (20mm)
- Ordinary Hazard
- QR Listing for Ordinary Hazard may allow for design area reduction
- Wrench: Heavy Duty (15467W/B); Light Duty (15466)
- Quick Response - Sprinkler 165°F/79°C, 205°F/93°C; Cover 135°F/57°C, 165°F/79°C
- Use ELO cover plate 15765_ (3-5/16" diameter)

<table>
<thead>
<tr>
<th>Coverage Area ft (m)</th>
<th>Flow gpm (lpm)</th>
<th>Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 x 14 (4.3x4.3)</td>
<td>30 (113.6)</td>
<td>7.2 (0.50)</td>
</tr>
<tr>
<td>16 x 16 (4.9x4.9)</td>
<td>38 (143.9)</td>
<td>11.5 (0.79)</td>
</tr>
<tr>
<td>18 x 18 (5.5x5.5)</td>
<td>48 (185.5)</td>
<td>19.1 (1.32)</td>
</tr>
<tr>
<td>20 x 20 (6.1x6.1)</td>
<td>60 (227.1)</td>
<td>28.7 (1.98)</td>
</tr>
</tbody>
</table>

* Also listed as standard response.

* Design data listed above is for OH Group 1. See technical datasheet for Group 2 data.

Note: Base part numbers for cover plates are 13504 for standard diameter, 13642 for large diameter, 15394 for square, and 15765 for ELO. (Sold Separately)

When ordering, please add appropriate finish and temperature suffix (135°F/57°C = “A”; 165°F/79°C = “C”) to base part number. Refer to Viking’s list price book for ordering details.