Searle GF Gas cooler

SUSTAINABLE TECHNOLOGY FOR THE REFRIGERATION INDUSTRY

YOUR BENEFITS

- **Using the latest innovative design:** the range can incorporate 8, 12, or 5mm tube diameters. Each optimized for specific operating conditions, the Kelvion selection software will balance application requirements to offer best possible product.

- **To align with the renewed interest in CO₂,** Kelvion products have been optimised specifically for use in Transcritical CO₂ applications, suitable for 120 Bar as standard.

- **The GF range of gas coolers:** are available with all RF options such as EC fan technology, adiabatic spray systems and the popular Kelvion controls packages.

- **This special form:** which can be manufactured up to 12m long, gives tremendous strength and powder coated in RAL7032 (pebble grey).

- **A comprehensive collection of fan sets** are available from various premium manufacturers. This ensures that the best fan is always selected and balanced against the model and application variant. High energy efficiency, low noise and flexible control options all ensure the best possible solution is offered.

- **CE Marked and PED compliant:** SEP to CAT IV depending upon refrigerant, operating temperatures, header sizes and internal volumes.

CAPACITY RANGE

24 kW - 1409 kW

\[ t_\text{f} = 30°C \quad P_{\text{e}} = 90 \text{ bar} \quad t_\text{w} = 110°C \quad t_{\text{R}2} = 35°C \] [SC10]
### FANS

- **AC Normal**
  - Ø 800 mm
  - Ø 900 mm
  - Ø 910 mm
- **AC High power**
- **EC Standard**
- **EC High power**
- **EC Low power**

- **Fin Type:** G, T, F
- **Standard Fin spacing:** [in mm]
  - G = 2.1
  - T = 2.3
  - F = 2.1
- **Fin material:** Cu, Al, Av, AlMg, Bg, Et
- **Tube Diameter:** [in mm]
  - G = 8
  - T = 12
  - F = 5
- **Tube material:** Cu, St

### HEAT EXCHANGE

- **Fin Type:** G, T, F
- **Standard Fin spacing:** [in mm]
  - G = 2.1
  - T = 2.3
  - F = 2.1
- **Fin material:** Cu, Al, Av, AlMg, Bg, Et
- **Tube Diameter:** [in mm]
  - G = 8
  - T = 12
  - F = 5
- **Tube material:** Cu, St

### CONTROLS OPTIONS

<table>
<thead>
<tr>
<th>OPTION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unwired</td>
<td>Installer wires directly to fan terminal boxes.</td>
</tr>
<tr>
<td>Junction Box</td>
<td>Single or twin according to unit model.</td>
</tr>
<tr>
<td>Staged Control</td>
<td>Motor switchgear with or without controller.</td>
</tr>
<tr>
<td>Speed Control</td>
<td>EC, inverter or triac</td>
</tr>
</tbody>
</table>

### VARIANTS & ACCESSORIES

- **Legs Extended**
- **Control Box & Isolators**
- **Sub cooling/Multi sections**
- **Packing & Stacking**
- **Alternative Fin Material**
- **Special Paint**
- **Adiabatic System**
- **Mounted Receivers, frames & Customised Housing**
- **Hinged fan plate**
- **Model Options - GF-SJ, GVM, GVL**

### OPERATING ENVIRONMENT GUIDANCE

<table>
<thead>
<tr>
<th>APPLICATION ATMOSPHERE</th>
<th>TUBE MATERIAL</th>
<th>FIN MATERIAL</th>
<th>TUBE PLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Application</td>
<td>Cu, or St/St</td>
<td>Al, Av, AlMg, Cu, Bg</td>
<td>Al/Cu</td>
</tr>
<tr>
<td>Industrial Application</td>
<td>Cu or St/St</td>
<td>Al, Av, AlMg, Cu, Bg</td>
<td>Al/Cu</td>
</tr>
<tr>
<td>Within 20 miles of the Sea</td>
<td>Cu</td>
<td>Cu, Bg, AlMg</td>
<td>Al/Cu</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Cu</td>
<td>Al, Av, AlMg, Cu, Bg</td>
<td>Al/Cu</td>
</tr>
</tbody>
</table>

### NOTE

Selection and Pricing can be performed on the Searle [Selection software](www.kelvion.com) which can be downloaded from our website.

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