

## NTC GAS COOLER

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Technical Guide



## TABLE OF CONTENTS

Overview..... 2, 3  
 Features & Options..... 3, 4  
 Nomenclature.....3  
 One Solution.....4

### Gas Cooler Information

Performance Data ..... 5-6  
 Specifications..... 7-10  
 Unit Weight ..... 11-14  
 Sound Data.....15

### Additional Information

Dimensions..... 16  
 Typical Gas Cooler Wiring Diagrams .....17-18

*Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.*



## OVERVIEW

To meet the growing demand of CO2 systems and to offer our customers a suite of product solutions to meet Low GWP regulations, Heatcraft Refrigeration is proud to offer the NTC Gas Cooler product line specifically designed to be used in transcritical CO2 applications. The NTC gas cooler line offers our customers ample capacity range from 10 to 275 tons to satisfy an array of applications and uses the latest variable speed motor technology to provide critical sound and energy performance where significant energy savings are essential.

The gas cooler product line is offered standard with an unpainted galvanized steel cabinet with housings available in painted galvanized steel or aluminum finish. Drawing from our successful line of NTC products, an extensive list of options is available to match the most rigid application requirements.

The NTC gas cooler is offered in single or double wide fan configurations.



*Venturi VSEC Mounted Motor Technology*

## FEATURES

The NTC gas cooler is designed with features to meet specific customer requirements.

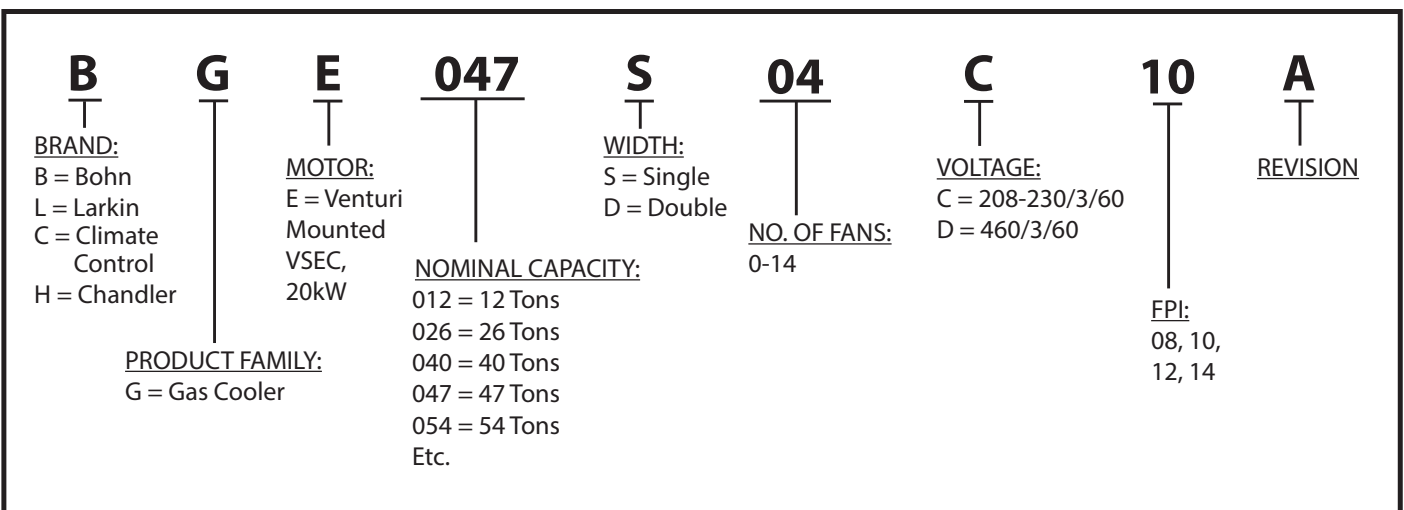
### Standard Features include:

- EBM EC Variable Speed motor, swept fan blade with integrated Venturi
- Broad capacity range from 10 to 275 tons
- 10 FPI coil
- Galvanized steel cabinet is standard with painted galvanized steel or aluminum housing available as an option
- Side access panels for ease of cleaning coils
- Non-fused, through-the-door disconnect
- All models with 10 or more fans will have an oversized e-box
- UL and UL listed for Canada
- Coil design pressure is 1886psig and UL listed



*The Floating Tube Coil Design  
Dramatically Reduces Tube Sheet Leaks*

## NOMENCLATURE



**Notes:**  
Please consult your Sales Representative for 575/3/60 application requirements

## One Solution Tailored To Fit Your Unique Needs

The NTC gas cooler line offers a wide range of options and cabinet finishes. Choose the configuration that best fits the need of the application

| FEATURE   | VENTURI MOUNTED VSEC        |
|---|-----------------------------|
| <b>Motors</b>                                     |                             |
| Standard Motor                                    | Variable Speed<br>EC Motors |
| Cabinet   |                             |
| Standard Cabinet                                  | Galvanized Steel            |
| Pre-Painted Galvanized Option                     | ✓                           |
| Aluminum Option                                   | ✓                           |
| <b>Venturi Cover</b>                              |                             |
| Standard Venturi                                  | EC Tall<br>Optimized        |
| Hinged Option                                     | -                           |
| <b>Fan Blades</b>                                 |                             |
| Standard Blade                                    | EC Optimized                |
| <b>Motor Mounted</b>                              |                             |
| Standard Motor Mounted                            | EC Optimized                |
| <b>Warranty</b>                                   |                             |
| Two-Year Warranty - Unit                          | ✓                           |
| Three-Year Warranty - Venturi Mounted VSEC Motors | ✓                           |
| Five-Year Warranty - Floating Tube™ Coil Design   | ✓                           |

## PERFORMANCE DATA

**Table 7.**

| Model        | Fans | Rows | Capacity in Ton @ 95 ambient, 99 Gas outlet, 239F, 1358 PSI gas inlet |            |        |        |
|--------------|------|------|---|------------|--------|--------|
|              |      |      | 8 FPI   | 10 FPI     | 12 FPI | 14 FPI |
| BGE012S01^*A | 1    | 4    | 10  | <b>12</b>  | 13     | 14     |
| BGE026S02^*A | 2    | 4    | 25  | <b>26</b>  | 29     | 32     |
| BGE040S03^*A | 3    | 4    | 33  | <b>40</b>  | 43     | 46     |
| BGE047S04^*A | 4    | 4    | 46  | <b>47</b>  | 52     | 56     |
| BGE064S05^*A | 5    | 4    | 54  | <b>64</b>  | 68     | 74     |
| BGE079S06^*A | 6    | 4    | 67  | <b>79</b>  | 86     | 93     |
| BGE094S07^*A | 7    | 4    | 80  | <b>94</b>  | 102    | 112    |
| BGE053D04^*A | 4    | 4    | 49  | <b>53</b>  | 58     | 63     |
| BGE079D06^*A | 6    | 4    | 67  | <b>79</b>  | 86     | 93     |
| BGE094D08^*A | 8    | 4    | 93  | <b>94</b>  | 103    | 112    |
| BGE128D10^*A | 10   | 4    | 108   | <b>128</b> | 136    | 148    |
| BGE158D12^*A | 12   | 4    | 134   | <b>158</b> | 171    | 186    |
| BGE189D14^*A | 14   | 4    | 159   | <b>189</b> | 205    | 223    |

**BOLD** indicates standard model capacity.

NOTES:

^ = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## PERFORMANCE DATA

**Table 8.**

| Model                     | Fans | Rows | Capacity in Ton @ 95 ambient, 99 Gas outlet, 239F, 1358 PSI gas inlet |            |        |        |
|---------------------------|------|------|---|------------|--------|--------|
|                           |      |      | 8 FPI   | 10 FPI     | 12 FPI | 14 FPI |
| BGE017S01 <sup>^</sup> *A | 1    | 6    | 15  | <b>17</b>  | 19     | 20     |
| BGE035S02 <sup>^</sup> *A | 2    | 6    | 31  | <b>35</b>  | 38     | 40     |
| BGE052S03 <sup>^</sup> *A | 3    | 6    | 45  | <b>52</b>  | 56     | 59     |
| BGE069S04 <sup>^</sup> *A | 4    | 6    | 63  | <b>69</b>  | 75     | 80     |
| BGE089S05 <sup>^</sup> *A | 5    | 6    | 78  | <b>89</b>  | 97     | 102    |
| BGE101S06 <sup>^</sup> *A | 6    | 6    | 89  | <b>101</b> | 110    | 116    |
| BGE121S07 <sup>^</sup> *A | 7    | 6    | 106   | <b>121</b> | 131    | 138    |
| BGE069D04 <sup>^</sup> *A | 4    | 6    | 62  | <b>69</b>  | 76     | 80     |
| BGE103D06 <sup>^</sup> *A | 6    | 6    | 90  | <b>103</b> | 112    | 119    |
| BGE138D08 <sup>^</sup> *A | 8    | 6    | 125   | <b>138</b> | 151    | 160    |
| BGE178D10 <sup>^</sup> *A | 10   | 6    | 156   | <b>178</b> | 194    | 204    |
| BGE202D12 <sup>^</sup> *A | 12   | 6    | 177   | <b>202</b> | 220    | 232    |
| BGE241D14 <sup>^</sup> *A | 14   | 6    | 212   | <b>241</b> | 262    | 275    |

**BOLD** indicates standard model capacity.

NOTES:

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## SPECIFICATIONS

**Table 9.**

| Model                     | Fans | CFM     | Internal volume (ft <sup>3</sup> ) | 208-230/3/60hz |      |      | Unit kW | Estimated Charge | Conn. (in.) | Max. No. of Feeds |
|---------------------------|------|---------|------------------------------------|----------------|------|------|---------|------------------|-------------|-------------------|
|                           |      |         |                                    | FLA            | MCA  | MOPD |         |                  |             |                   |
| BGE012S01 <sup>^</sup> *A | 1    | 10,500  | 0.295                              | 7              | 15   | 25   | 2       | 9.2              | 1-1/8       | 7                 |
| BGE026S02 <sup>^</sup> *A | 2    | 20,900  | 0.578                              | 14             | 20   | 35   | 4       | 18.0             | 1-1/8       | 14                |
| BGE040S03 <sup>^</sup> *A | 3    | 31,400  | 0.861                              | 21             | 22.8 | 40   | 6       | 26.8             | 1-1/8       | 14                |
| BGE047S04 <sup>^</sup> *A | 4    | 42,000  | 1.142                              | 28             | 29.8 | 45   | 8       | 35.5             | 1-1/8       | 28                |
| BGE064S05 <sup>^</sup> *A | 5    | 52,500  | 1.426                              | 35             | 36.8 | 50   | 10      | 44.3             | 1-1/8       | 28                |
| BGE079S06 <sup>^</sup> *A | 6    | 63,000  | 1.709                              | 42             | 43.8 | 60   | 12      | 53.1             | 1-1/8       | 28                |
| BGE094S07 <sup>^</sup> *A | 7    | 73,500  | 1.992                              | 49             | 50.8 | 70   | 14      | 61.9             | 1-5/8       | 54                |
| BGE053D04 <sup>^</sup> *A | 4    | 41,800  | 1.156                              | 28             | 29.8 | 45   | 8       | 36.0             | 2 x 1-1/8   | 2 x 14            |
| BGE079D06 <sup>^</sup> *A | 6    | 62,800  | 1.721                              | 42             | 43.8 | 60   | 12      | 53.5             | 2 x 1-1/8   | 2 x 14            |
| BGE094D08 <sup>^</sup> *A | 8    | 84,000  | 2.285                              | 56             | 57.8 | 70   | 16      | 71.0             | 2 x 1-1/8   | 2 x 28            |
| BGE128D10 <sup>^</sup> *A | 10   | 105,000 | 2.851                              | 70             | 71.8 | 90   | 20      | 88.7             | 2 x 1-1/8   | 2 x 28            |
| BGE158D12 <sup>^</sup> *A | 12   | 126,000 | 3.418                              | 84             | 85.8 | 100  | 24      | 106.3            | 2 x 1-1/8   | 2 x 28            |
| BGE189D14 <sup>^</sup> *A | 14   | 147,000 | 3.984                              | 98             | 99.8 | 110  | 28      | 123.9            | 2 x 1-5/8   | 2 x 54            |

NOTES:

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## SPECIFICATIONS

**Table 10.**

| Model                     | Fans | CFM     | Internal volume (ft <sup>3</sup> ) | 460/3/60hz |      |      | Unit kW | Estimated Charge | Conn. (in.) | Max. No. of Feeds |
|---------------------------|------|---------|------------------------------------|------------|------|------|---------|------------------|-------------|-------------------|
|                           |      |         |                                    | FLA        | MCA  | MOPD |         |                  |             |                   |
| BGE012S01 <sup>^</sup> *A | 1    | 10,500  | 0.295                              | 3.5        | 15   | 15   | 2       | 9.2              | 1-1/8       | 7                 |
| BGE026S02 <sup>^</sup> *A | 2    | 20,900  | 0.578                              | 7          | 15   | 15   | 4       | 18.0             | 1-1/8       | 14                |
| BGE040S03 <sup>^</sup> *A | 3    | 31,400  | 0.861                              | 10.5       | 15   | 20   | 6       | 26.8             | 1-1/8       | 14                |
| BGE047S04 <sup>^</sup> *A | 4    | 42,000  | 1.142                              | 14         | 15   | 20   | 8       | 35.5             | 1-1/8       | 28                |
| BGE064S05 <sup>^</sup> *A | 5    | 52,500  | 1.426                              | 17.5       | 20   | 25   | 10      | 44.3             | 1-1/8       | 28                |
| BGE079S06 <sup>^</sup> *A | 6    | 63,000  | 1.709                              | 21         | 21.9 | 30   | 12      | 53.1             | 1-1/8       | 28                |
| BGE094S07 <sup>^</sup> *A | 7    | 73,500  | 1.992                              | 24.5       | 25.4 | 35   | 14      | 61.9             | 1-5/8       | 54                |
| BGE053D04 <sup>^</sup> *A | 4    | 41,800  | 1.156                              | 14         | 15   | 20   | 8       | 36.0             | 2 x 1-1/8   | 2 x 14            |
| BGE079D06 <sup>^</sup> *A | 6    | 62,800  | 1.721                              | 21         | 21.9 | 30   | 12      | 53.5             | 2 x 1-1/8   | 2 x 14            |
| BGE094D08 <sup>^</sup> *A | 8    | 84,000  | 2.285                              | 28         | 28.9 | 35   | 16      | 71.0             | 2 x 1-1/8   | 2 x 28            |
| BGE128D10 <sup>^</sup> *A | 10   | 105,000 | 2.851                              | 35         | 35.9 | 45   | 20      | 88.7             | 2 x 1-1/8   | 2 x 28            |
| BGE158D12 <sup>^</sup> *A | 12   | 126,000 | 3.418                              | 42         | 42.9 | 50   | 24      | 106.3            | 2 x 1-1/8   | 2 x 28            |
| BGE189D14 <sup>^</sup> *A | 14   | 147,000 | 3.984                              | 49         | 49.9 | 60   | 28      | 123.9            | 2 x 1-5/8   | 2 x 54            |

**NOTES:**

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)



## SPECIFICATIONS

**Table 11.**

| Model                     | Fans | CFM     | Internal volume (ft <sup>3</sup> ) | 208-230/3/60hz |      |      | Unit kW | Estimated Charge | Conn. (in.) | Max. No. of Feeds |
|---------------------------|------|---------|------------------------------------|----------------|------|------|---------|------------------|-------------|-------------------|
|                           |      |         |                                    | FLA            | MCA  | MOPD |         |                  |             |                   |
| BGE017S01 <sup>^</sup> *A | 1    | 9,660   | 0.443                              | 7              | 15   | 25   | 2       | 13.77            | 1-1/8       | 7                 |
| BGE035S02 <sup>^</sup> *A | 2    | 19,220  | 0.867                              | 14             | 20   | 35   | 4       | 26.96            | 1-1/8       | 14                |
| BGE052S03 <sup>^</sup> *A | 3    | 28,880  | 1.291                              | 21             | 22.8 | 40   | 6       | 40.15            | 1-1/8       | 21                |
| BGE069S04 <sup>^</sup> *A | 4    | 38,640  | 1.715                              | 28             | 29.8 | 45   | 8       | 53.34            | 1-1/8       | 28                |
| BGE089S05 <sup>^</sup> *A | 5    | 48,300  | 2.140                              | 35             | 36.8 | 50   | 10      | 66.55            | 1-5/8       | 42                |
| BGE101S06 <sup>^</sup> *A | 6    | 57,960  | 2.563                              | 42             | 43.8 | 60   | 12      | 79.71            | 1-5/8       | 42                |
| BGE121S07 <sup>^</sup> *A | 7    | 67,620  | 2.988                              | 49             | 50.8 | 70   | 14      | 92.92            | 1-5/8       | 42                |
| BGE069D04 <sup>^</sup> *A | 4    | 38,440  | 1.734                              | 28             | 29.8 | 45   | 8       | 53.92            | 2 x 1-1/8   | 2 x 14            |
| BGE103D06 <sup>^</sup> *A | 6    | 57,760  | 2.582                              | 42             | 43.8 | 60   | 12      | 80.30            | 2 x 1-1/8   | 2 x 21            |
| BGE138D08 <sup>^</sup> *A | 8    | 77,280  | 3.430                              | 56             | 57.8 | 70   | 16      | 106.67           | 2 x 1-1/8   | 2 x 28            |
| BGE178D10 <sup>^</sup> *A | 10   | 96,600  | 4.280                              | 70             | 71.8 | 90   | 20      | 133.09           | 2 x 1-5/8   | 2 x 42            |
| BGE202D12 <sup>^</sup> *A | 12   | 115,920 | 5.126                              | 84             | 85.8 | 100  | 24      | 159.42           | 2 x 1-5/8   | 2 x 42            |
| BGE241D14 <sup>^</sup> *A | 14   | 135,240 | 5.976                              | 98             | 99.8 | 110  | 28      | 185.84           | 2 x 1-5/8   | 2 x 42            |

NOTES:

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## SPECIFICATIONS

**Table 12.**

| Model                     | Fans | CFM     | Internal volume (ft <sup>3</sup> ) | 460/3/60hz |      |      | Unit kW | Estimated Charge | Conn. (in.) | Max. No. of Feeds |
|---------------------------|------|---------|------------------------------------|------------|------|------|---------|------------------|-------------|-------------------|
|                           |      |         |                                    | FLA        | MCA  | MOPD |         |                  |             |                   |
| BGE017S01 <sup>^</sup> *A | 1    | 9,660   | 0.443                              | 3.5        | 15   | 15   | 2       | 13.77            | 1-1/8       | 7                 |
| BGE035S02 <sup>^</sup> *A | 2    | 19,220  | 0.867                              | 7          | 15   | 15   | 4       | 26.96            | 1-1/8       | 14                |
| BGE052S03 <sup>^</sup> *A | 3    | 28,880  | 1.291                              | 10.5       | 15   | 20   | 6       | 40.15            | 1-1/8       | 21                |
| BGE069S04 <sup>^</sup> *A | 4    | 38,640  | 1.715                              | 14         | 15   | 20   | 8       | 53.34            | 1-1/8       | 28                |
| BGE089S05 <sup>^</sup> *A | 5    | 48,300  | 2.140                              | 17.5       | 20   | 25   | 10      | 66.55            | 1-5/8       | 42                |
| BGE101S06 <sup>^</sup> *A | 6    | 57,960  | 2.563                              | 21         | 21.9 | 30   | 12      | 79.71            | 1-5/8       | 42                |
| BGE121S07 <sup>^</sup> *A | 7    | 67,620  | 2.988                              | 24.5       | 25.4 | 35   | 14      | 92.92            | 1-5/8       | 42                |
| BGE069D04 <sup>^</sup> *A | 4    | 38,440  | 1.734                              | 14         | 15   | 20   | 8       | 53.92            | 2 x 1-1/8   | 2 x 14            |
| BGE103D06 <sup>^</sup> *A | 6    | 57,760  | 2.582                              | 21         | 21.9 | 30   | 12      | 80.30            | 2 x 1-1/8   | 2 x 21            |
| BGE138D08 <sup>^</sup> *A | 8    | 77,280  | 3.430                              | 28         | 28.9 | 35   | 16      | 106.67           | 2 x 1-1/8   | 2 x 28            |
| BGE178D10 <sup>^</sup> *A | 10   | 96,600  | 4.280                              | 35         | 35.9 | 45   | 20      | 133.09           | 2 x 1-5/8   | 2 x 42            |
| BGE202D12 <sup>^</sup> *A | 12   | 115,920 | 5.126                              | 42         | 42.9 | 50   | 24      | 159.42           | 2 x 1-5/8   | 2 x 42            |
| BGE241D14 <sup>^</sup> *A | 14   | 135,240 | 5.976                              | 49         | 49.9 | 60   | 28      | 185.84           | 2 x 1-5/8   | 2 x 42            |

**NOTES:**

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

# UNIT WEIGHT

**Table 13.**

| Model        | Fans | Rows | Estimated Net Weight (lbs) |        |        |        |
|--------------|------|------|----------------------------|--------|--------|--------|
|              |      |      | 8 FPI                      | 10 FPI | 12 FPI | 14 FPI |
| BGE012S01^*A | 1    | 4    | 390                        | 400    | 420    | 430    |
| BGE026S02^*A | 2    | 4    | 740                        | 760    | 790    | 820    |
| BGE040S03^*A | 3    | 4    | 1090                       | 1120   | 1160   | 1200   |
| BGE047S04^*A | 4    | 4    | 1420                       | 1470   | 1530   | 1580   |
| BGE064S05^*A | 5    | 4    | 1780                       | 1840   | 1910   | 1970   |
| BGE079S06^*A | 6    | 4    | 2120                       | 2190   | 2270   | 2350   |
| BGE094S07^*A | 7    | 4    | 2460                       | 2550   | 2650   | 2740   |
| BGE053D04^*A | 4    | 4    | 1590                       | 1640   | 1700   | 1750   |
| BGE079D06^*A | 6    | 4    | 2370                       | 2440   | 2520   | 2600   |
| BGE094D08^*A | 8    | 4    | 3130                       | 3230   | 3340   | 3440   |
| BGE128D10^*A | 10   | 4    | 3910                       | 4040   | 4170   | 4300   |
| BGE158D12^*A | 12   | 4    | 4680                       | 4830   | 4990   | 5150   |
| BGE189D14^*A | 14   | 4    | 5450                       | 5630   | 5820   | 6000   |

**BOLD** indicates standard model capacity.

**NOTES:**

^ = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## UNIT WEIGHT

**Table 13.**

| Model                     | Fans | Rows | Estimated Shipping Weight (lbs) |        |        |        |
|---------------------------|------|------|---------------------------------|--------|--------|--------|
|                           |      |      | 8 FPI                           | 10 FPI | 12 FPI | 14 FPI |
| BGE012S01 <sup>^</sup> *A | 1    | 4    | 530                             | 540    | 560    | 570    |
| BGE026S02 <sup>^</sup> *A | 2    | 4    | 960                             | 980    | 1010   | 1040   |
| BGE040S03 <sup>^</sup> *A | 3    | 4    | 1390                            | 1420   | 1460   | 1500   |
| BGE047S04 <sup>^</sup> *A | 4    | 4    | 1810                            | 1860   | 1920   | 1970   |
| BGE064S05 <sup>^</sup> *A | 5    | 4    | 2240                            | 2300   | 2370   | 2430   |
| BGE079S06 <sup>^</sup> *A | 6    | 4    | 2670                            | 2740   | 2820   | 2900   |
| BGE094S07 <sup>^</sup> *A | 7    | 4    | 3090                            | 3180   | 3280   | 3370   |
| BGE053D04 <sup>^</sup> *A | 4    | 4    | 1810                            | 1860   | 1920   | 1970   |
| BGE079D06 <sup>^</sup> *A | 6    | 4    | 2670                            | 2740   | 2820   | 2900   |
| BGE094D08 <sup>^</sup> *A | 8    | 4    | 3520                            | 3620   | 3730   | 3830   |
| BGE128D10 <sup>^</sup> *A | 10   | 4    | 4370                            | 4500   | 4630   | 4760   |
| BGE158D12 <sup>^</sup> *A | 12   | 4    | 5230                            | 5380   | 5540   | 5700   |
| BGE189D14 <sup>^</sup> *A | 14   | 4    | 6080                            | 6260   | 6450   | 6630   |

**BOLD** indicates standard model capacity.

**NOTES:**

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## UNIT WEIGHT

**Table 13.**

| Model        | Fans | Rows | Estimated Net Weight (lbs) |        |        |        |
|--------------|------|------|----------------------------|--------|--------|--------|
|              |      |      | 8 FPI                      | 10 FPI | 12 FPI | 14 FPI |
| BGE017S01^*A | 1    | 6    | 470                        | 480    | 500    | 520    |
| BGE035S02^*A | 2    | 6    | 880                        | 910    | 950    | 990    |
| BGE052S03^*A | 3    | 6    | 1290                       | 1340   | 1400   | 1460   |
| BGE069S04^*A | 4    | 6    | 1690                       | 1760   | 1840   | 1920   |
| BGE089S05^*A | 5    | 6    | 2110                       | 2200   | 2300   | 2400   |
| BGE101S06^*A | 6    | 6    | 2510                       | 2620   | 2740   | 2860   |
| BGE121S07^*A | 7    | 6    | 2920                       | 3050   | 3190   | 3330   |
| BGE069D04^*A | 4    | 6    | 1860                       | 1930   | 2010   | 2090   |
| BGE103D06^*A | 6    | 6    | 2760                       | 2870   | 2990   | 3110   |
| BGE138D08^*A | 8    | 6    | 3660                       | 3810   | 3970   | 4130   |
| BGE178D10^*A | 10   | 6    | 4570                       | 4760   | 4960   | 5150   |
| BGE202D12^*A | 12   | 6    | 5470                       | 5700   | 5940   | 6170   |
| BGE241D14^*A | 14   | 6    | 6370                       | 6640   | 6920   | 7190   |

**BOLD** indicates standard model capacity.

NOTES:

^ = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## UNIT WEIGHT

**Table 13.**

| Model                     | Fans | Rows | Estimated Shipping Weight (lbs) |        |        |        |
|---------------------------|------|------|---------------------------------|--------|--------|--------|
|                           |      |      | 8 FPI                           | 10 FPI | 12 FPI | 14 FPI |
| BGE017S01 <sup>^</sup> *A | 1    | 6    | 600                             | 610    | 630    | 650    |
| BGE035S02 <sup>^</sup> *A | 2    | 6    | 1090                            | 1120   | 1160   | 1200   |
| BGE052S03 <sup>^</sup> *A | 3    | 6    | 1590                            | 1640   | 1700   | 1760   |
| BGE069S04 <sup>^</sup> *A | 4    | 6    | 2080                            | 2150   | 2230   | 2310   |
| BGE089S05 <sup>^</sup> *A | 5    | 6    | 2570                            | 2660   | 2760   | 2860   |
| BGE101S06 <sup>^</sup> *A | 6    | 6    | 3060                            | 3170   | 3290   | 3410   |
| BGE121S07 <sup>^</sup> *A | 7    | 6    | 3560                            | 3690   | 3830   | 3970   |
| BGE069D04 <sup>^</sup> *A | 4    | 6    | 2080                            | 2150   | 2230   | 2310   |
| BGE103D06 <sup>^</sup> *A | 6    | 6    | 3060                            | 3170   | 3290   | 3410   |
| BGE138D08 <sup>^</sup> *A | 8    | 6    | 4050                            | 4200   | 4360   | 4520   |
| BGE178D10 <sup>^</sup> *A | 10   | 6    | 5030                            | 5220   | 5420   | 5610   |
| BGE202D12 <sup>^</sup> *A | 12   | 6    | 6020                            | 6250   | 6490   | 6720   |
| BGE241D14 <sup>^</sup> *A | 14   | 6    | 7000                            | 7270   | 7550   | 7820   |

**BOLD** indicates standard model capacity.

NOTES:

<sup>^</sup> = Electrical Code Designator (see Nomenclature details)

\* = Fins Per Inch (see Nomenclature details)

## Bohn Venturi Mounted VSEC Series

The Bohn NTC Gas Cooler incorporates Venturi Mounted VSEC motor technology to provide the quietest and most efficient condensers in the industry, using integrated variable speed technology.

### Simplicity: Variable speed without the complexity

The Bohn NTC gas cooler incorporates a VSEC motor, integrated drive and control electronics, optimized swept motor blade and venturi panel in one simple package. Variable speed is accomplished without the complexities typically associated with Variable Frequency Drives (VFD).

### Flexibility: Maximum efficiency, minimum sound, capacity when you need it

The Venturi Mounted VSEC integrated variable speed capability allows optimization to your operating conditions; at higher speeds on hot summer afternoons to maintain capacity or at lower speeds at night to meet a local sound ordinance. Whatever your requirements, the Bohn NTC Gas Cooler VSEC can be selected and programmed to your specific needs; whether it is lower energy costs, lower sound or both.

### Reliability: The highest quality backed by industry-leading warranties

We are so confident in the reliability of the VSEC motor that we are providing an unprecedented 3-year warranty on the VSEC motor (2-year warranty on the unit) so you can be assured of worry-free operation.

### Protection at every level

The VSEC motors have several built-in features that protect against locked-rotors, under-voltage and phase failure.

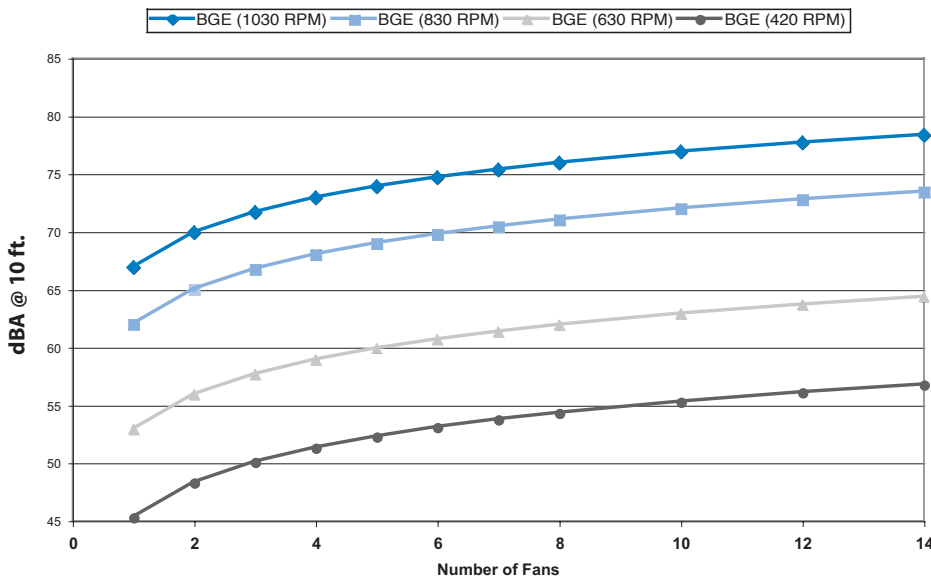
### Variable Speed Operation

Variable speed motors provide variable speed operation automatically; providing dramatically lower sound and energy levels than would be observed with comparable equipment using traditional AC motors.

### Control Panels for Electronic Controllers

Custom control panels can often be fabricated to interface with many of the microprocessor based electronic refrigeration controls. These panels often include individual motor fusing, individual fan motor contactors, splitting relays and printed circuit boards to interface with the microprocessor control. Contact the factory with your specific requirements.

**EC Sound Data (dBA @ 10 ft.)**

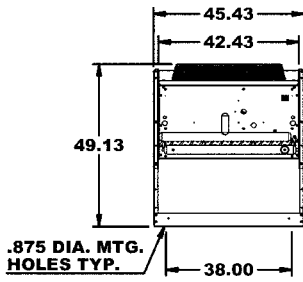


| Fans | BGE 1030 RPM | BGE 830 RPM | BGE 630 RPM | BGE 420 RPM |
|------|--------------|-------------|-------------|-------------|
| 1    | 66.9         | 62.0        | 52.9        | 45.3        |
| 2    | 69.9         | 65.0        | 55.9        | 48.3        |
| 3    | 71.7         | 66.8        | 57.7        | 50.1        |
| 4    | 72.9         | 68.0        | 58.9        | 51.3        |
| 5    | 73.9         | 69.0        | 59.9        | 52.3        |
| 6    | 74.7         | 69.8        | 60.7        | 53.1        |
| 7    | 75.4         | 70.5        | 61.4        | 53.8        |
| 8    | 75.9         | 71.0        | 61.9        | 54.3        |
| 10   | 76.9         | 72.0        | 62.9        | 55.3        |
| 12   | 77.7         | 72.8        | 63.7        | 56.1        |
| 14   | 78.4         | 73.5        | 64.4        | 56.8        |

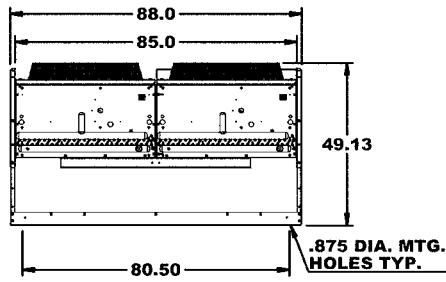
## GAS COOLER DIMENSIONS

### End Views

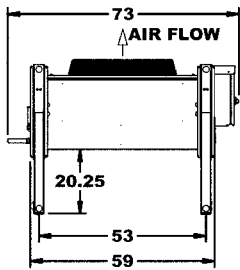
Single Row of Fans



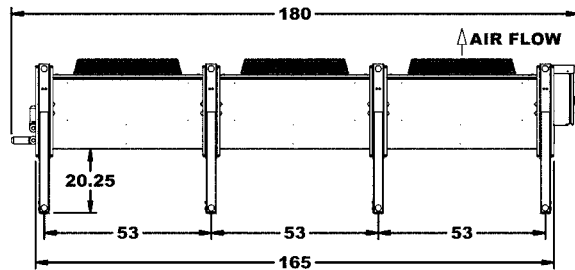
Double Row of Fans



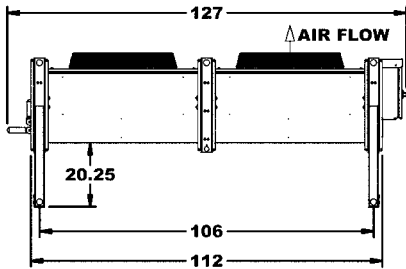
### Side Views



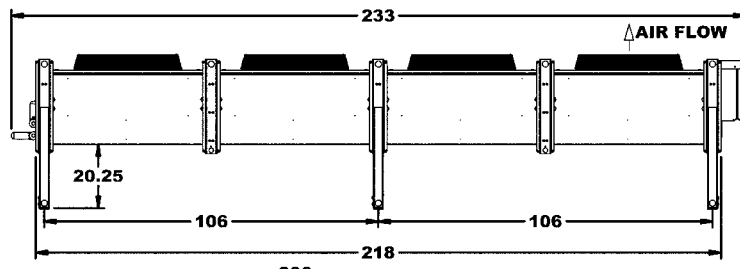
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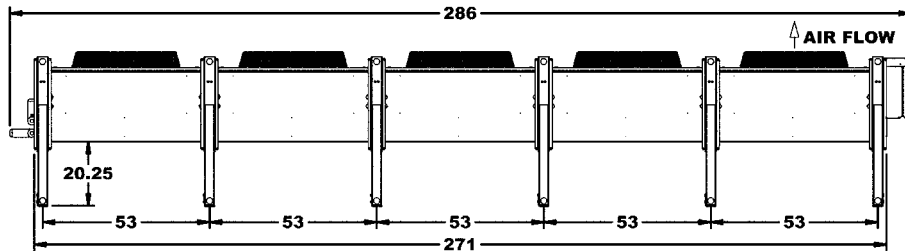
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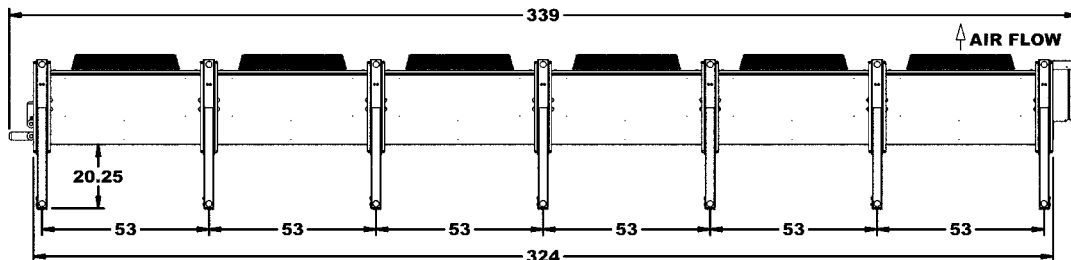
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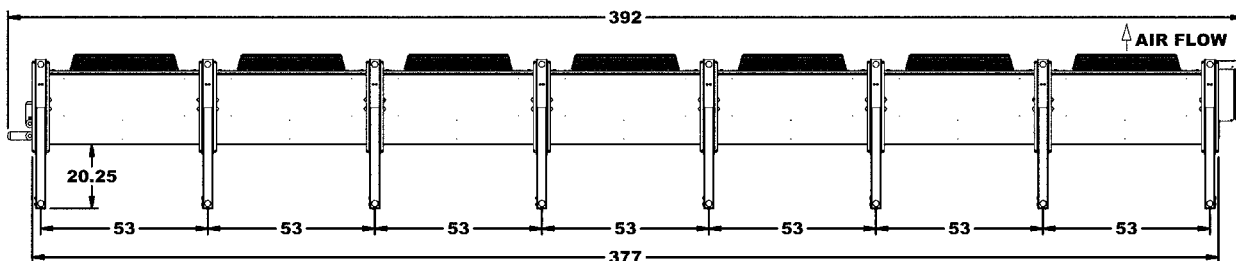
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1 x 5  
2 x 5



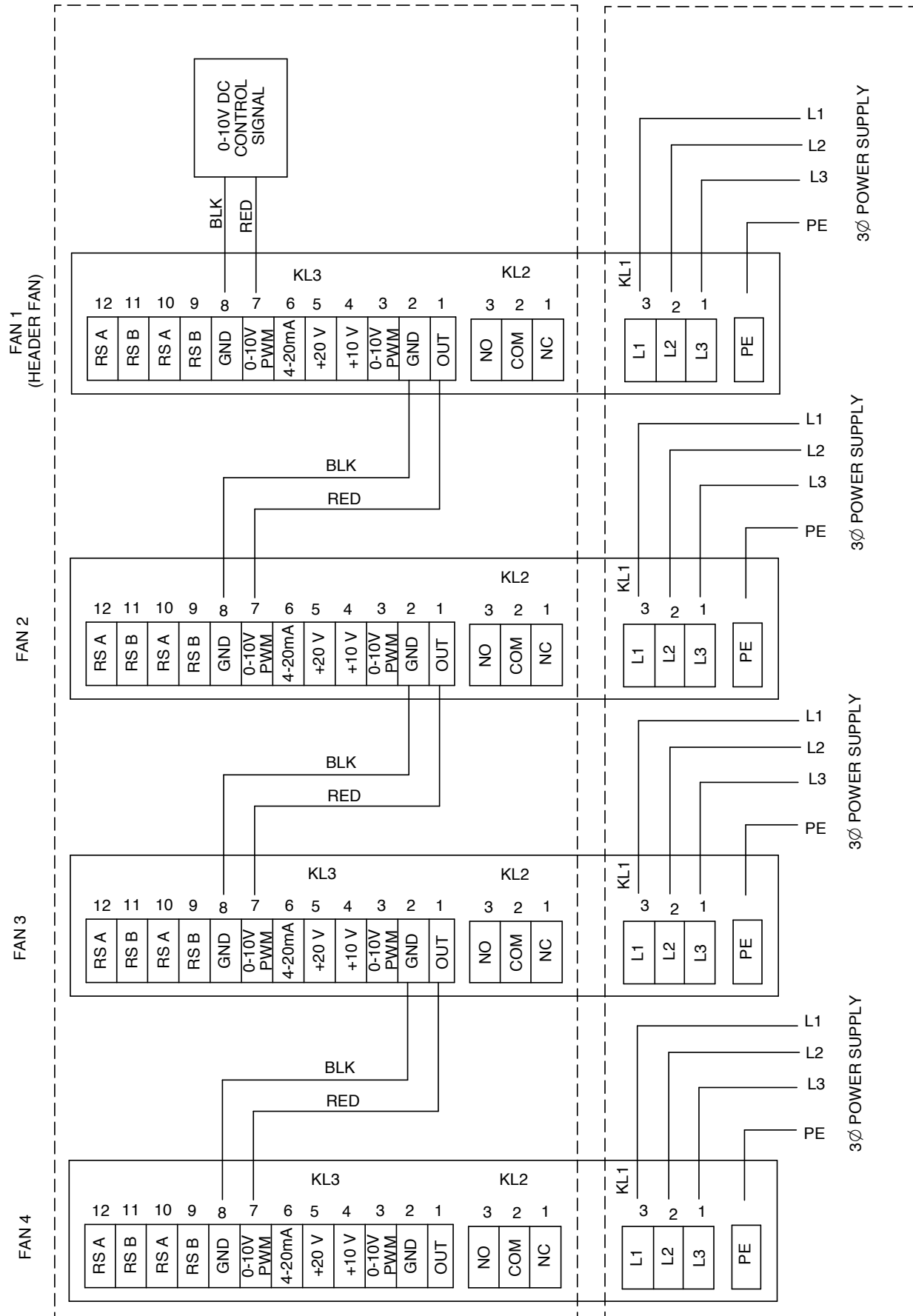
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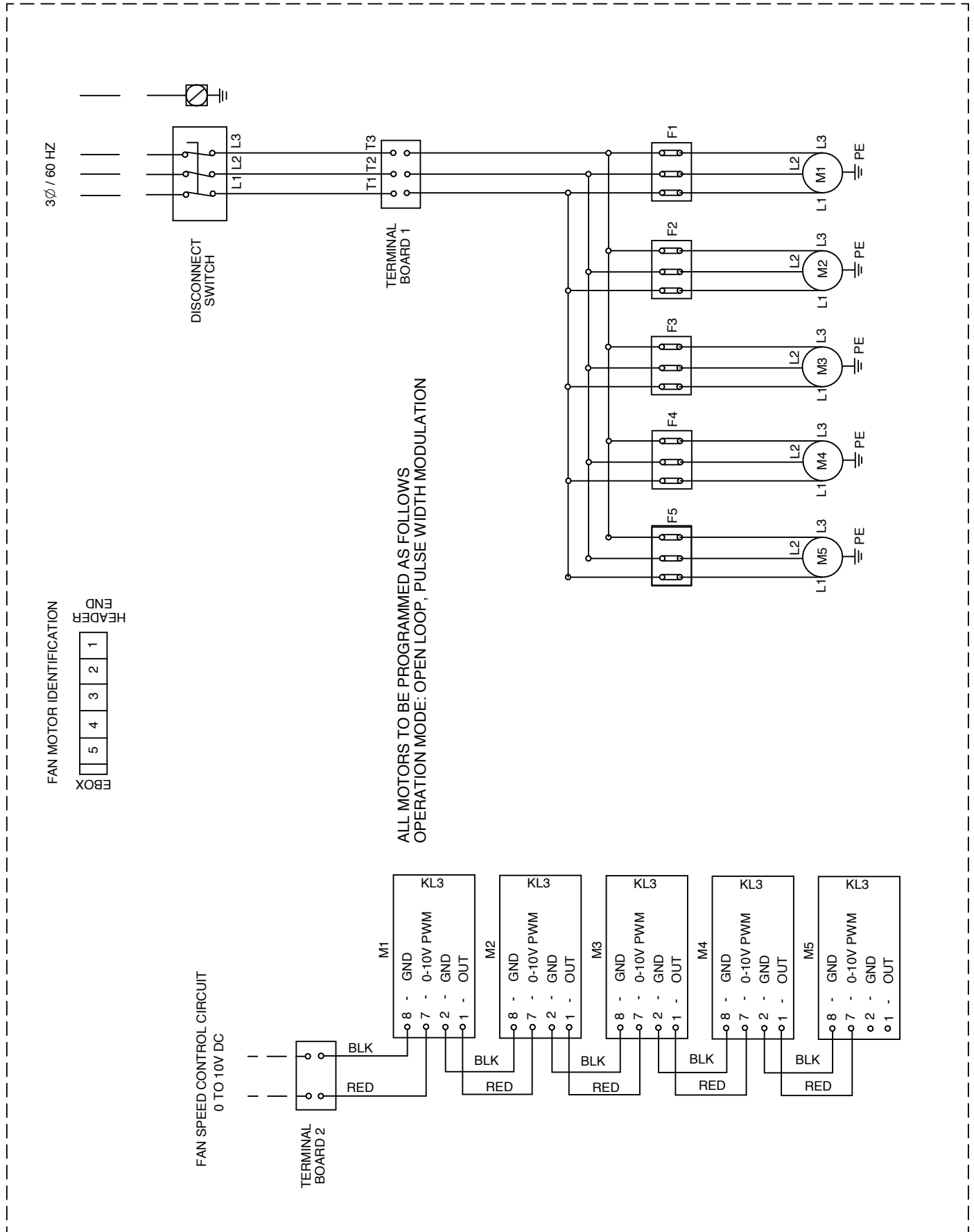
1 x 7  
2 x 7



### Diagram 1. Gas Cooler Wiring Diagrams



## Diagram 2. Gas Cooler Wiring Diagrams



## NOTES:



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Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.

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