















|  |  |  |                         |          |             |
|--|--|--|-------------------------|----------|-------------|
| <b>Model: reciprocating, &lt; 300 kW</b> |  |  | <b>GEA Grasso FX GC</b> |          |             |
| <b>Type of condensing: water-cooled</b>  |  |  |                         |          |             |
| <b>Refrigerant: Ammonia</b>              |  |  |                         |          |             |
| <b>Operating conditions:</b>             |  |  | <b>medium (-8 °C)</b>   |          |             |
| <b>SEPR</b>                              |  |  |                         |          | <b>5.37</b> |
| <b>Conditions</b>                        |  |  | Q                       | Pe       | EER         |
| <b>A</b>                                 |  |  | 150.00                  | 47.24    | 3.17        |
| <b>B</b>                                 |  |  | 139.50                  | 34.64    | 4.03        |
| <b>C</b>                                 |  |  | 130.50                  | 26.04    | 5.01        |
| <b>D</b>                                 |  |  | 120.00                  | 18.44    | 6.51        |
| <b>Capacity control</b>                  |  |  |                         | variable |             |

|   |                     |          |                              |                       |                             |             |
|---|---------------------|----------|------------------------------|-----------------------|-----------------------------|-------------|
| <b>Model: screw, &gt; 300 kW</b>        |                     |          | <b>GEA Grasso FX PP 1500</b> |                       | <b>GEA Grasso FX PP 650</b> |             |
| <b>Type of condensing: water-cooled</b> |                     |          |                              |                       |                             |             |
| <b>Refrigerant: Ammonia</b>             |                     |          |                              |                       |                             |             |
| <b>Operating conditions:</b>            | <b>low (-25 °C)</b> |          |                              | <b>medium (-8 °C)</b> |                             |             |
| <b>SEPR</b>                             |                     |          | <b>2.93</b>                  |                       |                             | <b>5.37</b> |
| <b>Conditions</b>                       | Q                   | Pe       | EER                          | Q                     | Pe                          | EER         |
| <b>A</b>                                | 510.00              | 279.10   | 1.83                         | 520.00                | 170.47                      | 3.05        |
| <b>B</b>                                | 474.30              | 202.80   | 2.34                         | 483.60                | 120.07                      | 4.03        |
| <b>C</b>                                | 443.70              | 156.20   | 2.84                         | 452.40                | 88.67                       | 5.10        |
| <b>D</b>                                | 408.00              | 119.30   | 3.42                         | 416.00                | 65.07                       | 6.39        |
| <b>Capacity control</b>                 |                     | variable |                              |                       |                             |             |

|   |  |  |                       |        |          |             |
|---|--|--|-----------------------|--------|----------|-------------|
| <b>Model: screw, &gt; 300 kW</b>        |  |  | <b>GEA BluAstrum</b>  |        |          |             |
| <b>Type of condensing: water-cooled</b> |  |  |                       |        |          |             |
| <b>Refrigerant: Ammonia</b>             |  |  |                       |        |          |             |
| <b>Operating conditions:</b>            |  |  | <b>medium (-8 °C)</b> |        |          |             |
| <b>SEPR</b>                             |  |  |                       |        |          | <b>5.75</b> |
| <b>Conditions</b>                       |  |  |                       | Q      | Pe       | EER         |
| <b>A</b>                                |  |  |                       | 690.00 | 208.00   | 3.30        |
| <b>B</b>                                |  |  |                       | 641.70 | 148.66   | 4.32        |
| <b>C</b>                                |  |  |                       | 600.30 | 111.86   | 5.37        |
| <b>D</b>                                |  |  |                       | 552.00 | 79.16    | 6.97        |
| <b>Capacity control</b>                 |  |  |                       |        | variable |             |

|                                       |  |  |                       |        |          |             |
|---------------------------------------|--|--|-----------------------|--------|----------|-------------|
| <b>Model: screw, &gt; 300 kW</b>      |  |  | <b>GEA BluAir</b>     |        |          |             |
| <b>Type of condensing: air-cooled</b> |  |  |                       |        |          |             |
| <b>Refrigerant: Ammonia</b>           |  |  |                       |        |          |             |
| <b>Operating conditions:</b>          |  |  | <b>medium (-8 °C)</b> |        |          |             |
| <b>SEPR</b>                           |  |  |                       |        |          | <b>4.16</b> |
| <b>Conditions</b>                     |  |  |                       | Q      | Pe       | EER         |
| <b>A</b>                              |  |  |                       | 800.00 | 352.52   | 2.27        |
| <b>B</b>                              |  |  |                       | 744.00 | 250.32   | 2.97        |
| <b>C</b>                              |  |  |                       | 696.00 | 167.62   | 4.15        |
| <b>D</b>                              |  |  |                       | 640.00 | 128.92   | 4.96        |
| <b>Capacity control</b>               |  |  |                       |        | variable |             |



| Model: reciprocating, > 300 kW   |  |  | GEA BluGenium |                |          |      |
|----------------------------------|--|--|---------------|----------------|----------|------|
| Type of condensing: water-cooled |  |  |               |                |          |      |
| Refrigerant: Ammonia             |  |  |               |                |          |      |
| Operating conditions:            |  |  |               | medium (-8 °C) |          |      |
| SEPR                             |  |  |               |                |          | 5.49 |
| Conditions                       |  |  |               | Q              | Pe       | EER  |
| A                                |  |  |               | 315.00         | 92.50    | 3.41 |
| B                                |  |  |               | 292.95         | 70.90    | 4.13 |
| C                                |  |  |               | 274.05         | 52.80    | 5.19 |
| D                                |  |  |               | 252.00         | 37.20    | 6.77 |
| Capacity control                 |  |  |               |                | variable |      |

| Model: reciprocating, > 300 kW   |  |  | GEA Grasso FX GC |                |          |      |
|----------------------------------|--|--|------------------|----------------|----------|------|
| Type of condensing: water-cooled |  |  |                  |                |          |      |
| Refrigerant: Ammonia             |  |  |                  |                |          |      |
| Operating conditions:            |  |  |                  | medium (-8 °C) |          |      |
| SEPR                             |  |  |                  |                |          | 5.69 |
| Conditions                       |  |  |                  | Q              | Pe       | EER  |
| A                                |  |  |                  | 855.00         | 259.50   | 3.29 |
| B                                |  |  |                  | 795.15         | 188.90   | 4.21 |
| C                                |  |  |                  | 743.85         | 140.40   | 5.30 |
| D                                |  |  |                  | 684.00         | 98.30    | 6.96 |
| Capacity control                 |  |  |                  |                | variable |      |

| Model: screw, < 400 kW           |  |  | GEA Grasso FX PP 200 |             |          |       |
|----------------------------------|--|--|----------------------|-------------|----------|-------|
| Type of condensing: water-cooled |  |  |                      |             |          |       |
| Refrigerant: Ammonia             |  |  |                      |             |          |       |
| Operating conditions:            |  |  |                      | high (7 °C) |          |       |
| SEPR                             |  |  |                      |             |          | 9.27  |
| Conditions                       |  |  |                      | Q           | Pe       | EER   |
| A                                |  |  |                      | 360.00      | 76.78    | 4.69  |
| B                                |  |  |                      | 335.00      | 51.58    | 6.49  |
| C                                |  |  |                      | 313.00      | 36.38    | 8.61  |
| D                                |  |  |                      | 288.00      | 24.58    | 11.72 |
| Capacity control                 |  |  |                      |             | variable |       |

| Model: screw, < 400 kW           |  |  | GEA BluAstrum 400 |             |          |       |
|----------------------------------|--|--|-------------------|-------------|----------|-------|
| Type of condensing: water-cooled |  |  |                   |             |          |       |
| Refrigerant: Ammonia             |  |  |                   |             |          |       |
| Operating conditions:            |  |  |                   | high (7 °C) |          |       |
| SEPR                             |  |  |                   |             |          | 10.44 |
| Conditions                       |  |  |                   | Q           | Pe       | EER   |
| A                                |  |  |                   | 390.00      | 86.44    | 4.51  |
| B                                |  |  |                   | 362.70      | 52.44    | 6.92  |
| C                                |  |  |                   | 339.30      | 35.24    | 9.63  |
| D                                |  |  |                   | 312.00      | 22.64    | 13.78 |
| Capacity control                 |  |  |                   |             | variable |       |

|  |                    |                                |              |
|--|--------------------|--------------------------------|--------------|
| <b>Model: reciprocating, &lt; 400 kW</b> |                    | <b>GEA Grasso FX GC PP 260</b> |              |
| Type of condensing: water-cooled         |                    |                                |              |
| Refrigerant: Ammonia                     |                    |                                |              |
| <b>Operating conditions:</b>             | <i>high (7 °C)</i> |                                |              |
| <b>SEPR</b>                              |                    |                                | <b>10.40</b> |
| <b>Conditions</b>                        | Q                  | Pe                             | EER          |
| <b>A</b>                                 | 295.00             | 56.68                          | 5.20         |
| <b>B</b>                                 | 274.35             | 38.58                          | 7.11         |
| <b>C</b>                                 | 256.65             | 26.78                          | 9.58         |
| <b>D</b>                                 | 236.00             | 17.58                          | 13.42        |
| <b>Capacity control</b>                  | variable           |                                |              |

|  |                    |                          |              |
|--|--------------------|--------------------------|--------------|
| <b>Model: reciprocating, &lt; 400 kW</b> |                    | <b>GEA BluGenium 300</b> |              |
| Type of condensing: water-cooled         |                    |                          |              |
| Refrigerant: Ammonia                     |                    |                          |              |
| <b>Operating conditions:</b>             | <i>high (7 °C)</i> |                          |              |
| <b>SEPR</b>                              |                    |                          | <b>10.98</b> |
| <b>Conditions</b>                        | Q                  | Pe                       | EER          |
| <b>A</b>                                 | 300.00             | 58.37                    | 5.14         |
| <b>B</b>                                 | 279.00             | 34.77                    | 8.02         |
| <b>C</b>                                 | 261.00             | 26.28                    | 9.94         |
| <b>D</b>                                 | 240.00             | 16.98                    | 14.14        |
| <b>Capacity control</b>                  | variable           |                          |              |

|                                  |                    |                       |             |
|----------------------------------|--------------------|-----------------------|-------------|
| <b>Model: screw, &lt; 400 kW</b> |                    | <b>GEA BluAir 400</b> |             |
| Type of condensing: air-cooled   |                    |                       |             |
| Refrigerant: Ammonia             |                    |                       |             |
| <b>Operating conditions:</b>     | <i>high (7 °C)</i> |                       |             |
| <b>SEPR</b>                      |                    |                       | <b>7.17</b> |
| <b>Conditions</b>                | Q                  | Pe                    | EER         |
| <b>A</b>                         | 380.00             | 123.22                | 3.08        |
| <b>B</b>                         | 353.40             | 70.82                 | 4.99        |
| <b>C</b>                         | 330.60             | 47.22                 | 7.00        |
| <b>D</b>                         | 304.00             | 34.92                 | 8.71        |
| <b>Capacity control</b>          | variable           |                       |             |

|   |                    |                             |              |
|---|--------------------|-----------------------------|--------------|
| <b>Model: screw, &gt; 400 kW / &lt; 1500 kW</b> |                    | <b>GEA Grasso FX PP 900</b> |              |
| Type of condensing: water-cooled                |                    |                             |              |
| Refrigerant: Ammonia                            |                    |                             |              |
| <b>Operating conditions:</b>                    | <i>high (7 °C)</i> |                             |              |
| <b>SEPR</b>                                     |                    |                             | <b>10.23</b> |
| <b>Conditions</b>                               | Q                  | Pe                          | EER          |
| <b>A</b>  | 1450.00            | 283.88                      | 5.11         |
| <b>B</b>  | 1348.50            | 189.18                      | 7.13         |
| <b>C</b>  | 1261.50            | 132.58                      | 9.51         |
| <b>D</b>  | 1160.00            | 89.18                       | 13.01        |
| <b>Capacity control</b>                         | variable           |                             |              |

|   |                    |                          |              |
|---|--------------------|--------------------------|--------------|
| <b>Model: screw, &gt; 400 kW / &lt; 1500 kW</b> |                    | <b>GEA BluAstrum 900</b> |              |
| <b>Type of condensing: water-cooled</b>         |                    |                          |              |
| <b>Refrigerant: Ammonia</b>                     |                    |                          |              |
| <b>Operating conditions:</b>                    | <b>high (7 °C)</b> |                          |              |
| <b>SEPR</b>                                     |                    |                          | <b>10.88</b> |
| <b>Conditions</b>                               | Q                  | Pe                       | EER          |
| <b>A</b>  | 925.00             | 179.98                   | 5.14         |
| <b>B</b>  | 860.25             | 119.68                   | 7.19         |
| <b>C</b>  | 804.75             | 79.88                    | 10.07        |
| <b>D</b>  | 740.00             | 52.08                    | 14.21        |
| <b>Capacity control</b>                         | variable           |                          |              |

|   |                    |                                |              |
|---|--------------------|--------------------------------|--------------|
| <b>Model: reciprocating, &gt; 400 kW / &lt; 1500 kW</b> |                    | <b>GEA Grasso FX GC PP 600</b> |              |
| <b>Type of condensing: water-cooled</b>                 |                    |                                |              |
| <b>Refrigerant: Ammonia</b>                             |                    |                                |              |
| <b>Operating conditions:</b>                            | <b>high (7 °C)</b> |                                |              |
| <b>SEPR</b>   |                    |                                | <b>11.66</b> |
| <b>Conditions</b>                                       | Q                  | Pe                             | EER          |
| <b>A</b>  | 835.00             | 157.38                         | 5.31         |
| <b>B</b>  | 776.55             | 103.28                         | 7.52         |
| <b>C</b>  | 726.45             | 70.08                          | 10.37        |
| <b>D</b>  | 668.00             | 41.48                          | 16.10        |
| <b>Capacity control</b>                                 | variable           |                                |              |

|   |                    |                           |              |
|---|--------------------|---------------------------|--------------|
| <b>Model: reciprocating, &gt; 400 kW / &lt; 1500 kW</b> |                    | <b>GEA BluGenium 1200</b> |              |
| <b>Type of condensing: water-cooled</b>                 |                    |                           |              |
| <b>Refrigerant: Ammonia</b>                             |                    |                           |              |
| <b>Operating conditions:</b>                            | <b>high (7 °C)</b> |                           |              |
| <b>SEPR</b>   |                    |                           | <b>12.09</b> |
| <b>Conditions</b>                                       | Q                  | Pe                        | EER          |
| <b>A</b>  | 1130.00            | 203.22                    | 5.56         |
| <b>B</b>  | 1050.90            | 136.42                    | 7.70         |
| <b>C</b>  | 983.10             | 92.02                     | 10.68        |
| <b>D</b>  | 904.00             | 53.52                     | 16.89        |
| <b>Capacity control</b>                                 | variable           |                           |              |

|                                       |                    |                       |             |
|---------------------------------------|--------------------|-----------------------|-------------|
| <b>Model: screw, &gt; 400 kW</b>      |                    | <b>GEA BluAir 800</b> |             |
| <b>Type of condensing: air-cooled</b> |                    |                       |             |
| <b>Refrigerant: Ammonia</b>           |                    |                       |             |
| <b>Operating conditions:</b>          | <b>high (7 °C)</b> |                       |             |
| <b>SEPR</b>                           |                    |                       | <b>7.58</b> |
| <b>Conditions</b>                     | Q                  | Pe                    | EER         |
| <b>A</b>                              | 740.00             | 233.42                | 3.17        |
| <b>B</b>                              | 688.20             | 133.02                | 5.17        |
| <b>C</b>                              | 643.80             | 87.62                 | 7.35        |
| <b>D</b>                              | 592.00             | 62.72                 | 9.44        |
| <b>Capacity control</b>               | variable           |                       |             |

|   |                    |                              |              |
|---|--------------------|------------------------------|--------------|
| <b>Model: screw, &gt; 1500 kW</b>       |                    | <b>GEA Grasso FX PP 1500</b> |              |
| <b>Type of condensing: water-cooled</b> |                    |                              |              |
| <b>Refrigerant: Ammonia</b>             |                    |                              |              |
| <b>Operating conditions:</b>            | <b>high (7 °C)</b> |                              |              |
| <b>SEPR</b>                             |                    |                              | <b>10.34</b> |
| <b>Conditions</b>                       | Q                  | Pe                           | EER          |
| <b>A</b>                                | 1940.00            | 362.69                       | 5.35         |
| <b>B</b>                                | 1804.00            | 248.19                       | 7.27         |
| <b>C</b>                                | 1688.00            | 175.89                       | 9.60         |
| <b>D</b>                                | 1552.00            | 119.29                       | 13.01        |
| <b>Capacity control</b>                 | variable           |                              |              |

|   |                    |                           |              |
|---|--------------------|---------------------------|--------------|
| <b>Model: screw, &gt; 1500 kW</b>       |                    | <b>GEA BluAstrum 1800</b> |              |
| <b>Type of condensing: water-cooled</b> |                    |                           |              |
| <b>Refrigerant: Ammonia</b>             |                    |                           |              |
| <b>Operating conditions:</b>            | <b>high (7 °C)</b> |                           |              |
| <b>SEPR</b>                             |                    |                           | <b>10.34</b> |
| <b>Conditions</b>                       | Q                  | Pe                        | EER          |
| <b>A</b>                                | 1750.00            | 327.65                    | 5.34         |
| <b>B</b>                                | 1627.50            | 224.65                    | 7.24         |
| <b>C</b>                                | 1522.50            | 157.75                    | 9.65         |
| <b>D</b>                                | 1400.00            | 107.85                    | 12.98        |
| <b>Capacity control</b>                 | variable           |                           |              |

|   |                    |                                 |              |
|---|--------------------|---------------------------------|--------------|
| <b>Model: reciprocating, &gt; 1500 kW</b> |                    | <b>GEA Grasso FX GC PP 1250</b> |              |
| <b>Type of condensing: water-cooled</b>   |                    |                                 |              |
| <b>Refrigerant: Ammonia</b>               |                    |                                 |              |
| <b>Operating conditions:</b>              | <b>high (7 °C)</b> |                                 |              |
| <b>SEPR</b>                               |                    |                                 | <b>11.50</b> |
| <b>Conditions</b>                         | Q                  | Pe                              | EER          |
| <b>A</b>                                  | 1675.00            | 299.25                          | 5.60         |
| <b>B</b>                                  | 1557.75            | 208.35                          | 7.46         |
| <b>C</b>                                  | 1457.25            | 142.65                          | 10.22        |
| <b>D</b>                                  | 1340.00            | 85.05                           | 15.75        |
| <b>Capacity control</b>                   | variable           |                                 |              |





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