

**Type: Hermetic scroll compressors**

**Producer: Copeland**

**Series: ZB**

## Model: ZB15KCE-TFD

### Technical data

|                                    |      |
|------------------------------------|------|
| Displacement [m <sup>3</sup> /h]:  | 5,9  |
| Sound power [dBA]:                 | 66   |
| Sound pressure level [dB]:         | 55   |
| Net Weight [kg]:                   | 25,4 |
| Oil charge [dm <sup>3</sup> ]:     | 1,3  |
| Maximum high pressure [bar]:       | 28,8 |
| Maximum standstill pressure [bar]: | 21   |
| Minimal lowside temperature [°C]:  | -35  |
| Maximum lowside temperature [°C]:  | 50   |
| PED category:                      | 1    |

### Electrical data

|                             |                 |
|-----------------------------|-----------------|
| Power supply [V/~/Hz]:      | 380-420V/3/50Hz |
| Locked rotor current [A]:   | 26              |
| Max. operating current [A]: | 4,9             |
| Winding resistance [Ω]:     | 7,1             |

### Connections

|                                      |                         |
|--------------------------------------|-------------------------|
| Suction Rotolock valve connection:   | <u>inches</u><br>1 1/4" |
| Discharge Rotolock valve connection: | 1"                      |

R134a

**Cooling capacity [kW]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|---------------------|------|------|------|------|------|------|------|------|
| 30                  | 1.57 | 2.01 | 2.51 | 3.11 | 3.80 | 4.62 | 5.57 | -    |
| 35                  | 1.45 | 1.87 | 2.36 | 2.93 | 3.59 | 4.37 | 5.28 | -    |
| 40                  | 1.32 | 1.74 | 2.21 | 2.75 | 3.38 | 4.12 | 4.98 | 5.97 |
| 45                  | -    | 1.60 | 2.05 | 2.57 | 3.17 | 3.87 | 4.67 | 5.61 |
| 50                  | -    | 1.46 | 1.90 | 2.39 | 2.95 | 3.60 | 4.36 | 5.24 |
| 55                  | -    | -    | 1.73 | 2.19 | 2.72 | 3.33 | 4.04 | 4.87 |
| 60                  | -    | -    | -    | 2.00 | 2.49 | 3.05 | 3.71 | 4.47 |
| 65                  | -    | -    | -    | 1.79 | 2.24 | 2.76 | 3.37 | 4.07 |
| 70                  | -    | -    | -    | -    | 1.98 | 2.45 | 3.00 | 3.65 |
| 75                  | -    | -    | -    | -    | 1.70 | 2.13 | 2.63 | 3.20 |

**Power input [kW]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|---------------------|------|------|------|------|------|------|------|------|
| 30                  | 0.61 | 0.61 | 0.60 | 0.59 | 0.59 | 0.62 | 0.68 | -    |
| 35                  | 0.74 | 0.74 | 0.73 | 0.71 | 0.70 | 0.71 | 0.74 | -    |
| 40                  | 0.86 | 0.88 | 0.88 | 0.86 | 0.84 | 0.83 | 0.84 | 0.88 |
| 45                  | -    | 1.03 | 1.04 | 1.02 | 1.00 | 0.98 | 0.97 | 0.99 |
| 50                  | -    | 1.18 | 1.20 | 1.20 | 1.18 | 1.15 | 1.13 | 1.12 |
| 55                  | -    | -    | 1.38 | 1.38 | 1.37 | 1.34 | 1.31 | 1.29 |
| 60                  | -    | -    | -    | 1.58 | 1.57 | 1.54 | 1.51 | 1.47 |
| 65                  | -    | -    | -    | 1.78 | 1.78 | 1.76 | 1.72 | 1.68 |
| 70                  | -    | -    | -    | -    | 2.00 | 1.99 | 1.95 | 1.91 |
| 75                  | -    | -    | -    | -    | 2.22 | 2.22 | 2.20 | 2.15 |

### Current [A]

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|---------------------|------|------|------|------|------|------|------|------|
| <b>30</b>           | 2.01 | 2.02 | 2.01 | 2.00 | 2.01 | 2.02 | 2.07 | -    |
| <b>35</b>           | 2.09 | 2.10 | 2.10 | 2.09 | 2.08 | 2.09 | 2.11 | -    |
| <b>40</b>           | 2.19 | 2.22 | 2.22 | 2.21 | 2.19 | 2.19 | 2.19 | 2.23 |
| <b>45</b>           | -    | 2.35 | 2.37 | 2.36 | 2.34 | 2.32 | 2.31 | 2.32 |
| <b>50</b>           | -    | 2.51 | 2.54 | 2.53 | 2.51 | 2.48 | 2.46 | 2.46 |
| <b>55</b>           | -    | -    | 2.73 | 2.73 | 2.72 | 2.68 | 2.65 | 2.63 |
| <b>60</b>           | -    | -    | -    | 2.96 | 2.95 | 2.91 | 2.87 | 2.84 |
| <b>65</b>           | -    | -    | -    | 3.22 | 3.21 | 3.18 | 3.13 | 3.08 |
| <b>70</b>           | -    | -    | -    | -    | 3.49 | 3.46 | 3.42 | 3.36 |
| <b>75</b>           | -    | -    | -    | -    | 3.81 | 3.78 | 3.73 | 3.67 |

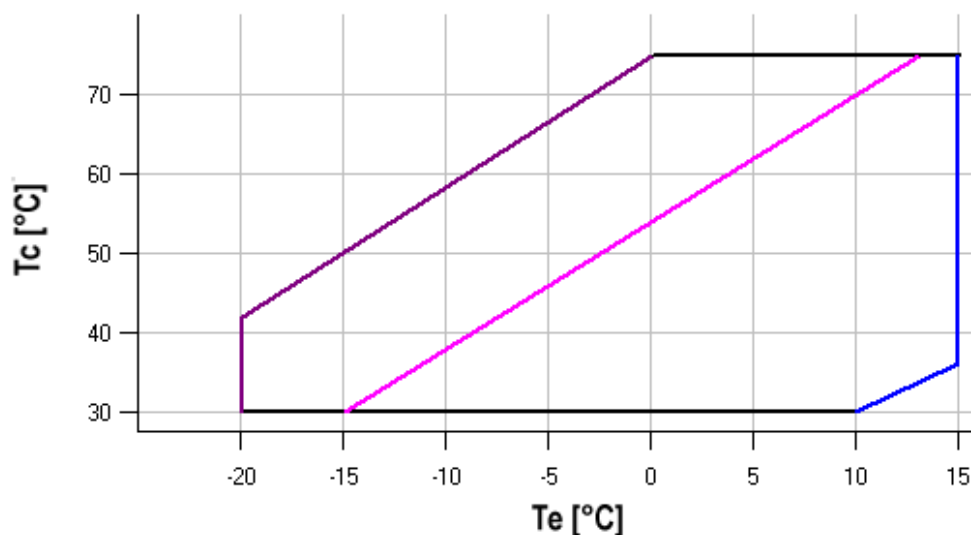
### Mass flow [kg/h]

| $t_c \setminus t_e$ | -20   | -15   | -10   | -5    | 0     | 5     | 10     | 15     |
|---------------------|-------|-------|-------|-------|-------|-------|--------|--------|
| <b>30</b>           | 30.83 | 40.49 | 51.33 | 63.88 | 78.67 | 96.21 | 117.05 | -      |
| <b>35</b>           | 29.77 | 39.43 | 50.26 | 62.78 | 77.50 | 94.97 | 115.70 | -      |
| <b>40</b>           | 28.81 | 38.46 | 49.26 | 61.72 | 76.37 | 93.74 | 114.35 | 138.73 |
| <b>45</b>           | -     | 37.45 | 48.20 | 60.59 | 75.16 | 92.41 | 112.89 | 137.11 |
| <b>50</b>           | -     | 36.27 | 46.96 | 59.27 | 73.73 | 90.86 | 111.19 | 135.24 |
| <b>55</b>           | -     | -     | 45.43 | 57.64 | 71.98 | 88.97 | 109.13 | 132.99 |
| <b>60</b>           | -     | -     | -     | 55.58 | 69.78 | 86.62 | 106.60 | 130.26 |
| <b>65</b>           | -     | -     | -     | 52.96 | 67.02 | 83.68 | 103.47 | 126.91 |
| <b>70</b>           | -     | -     | -     | -     | 63.56 | 80.03 | 99.61  | 122.82 |
| <b>75</b>           | -     | -     | -     | -     | 59.29 | 75.57 | 94.92  | 117.89 |

**C.O.P. [W/W]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|---------------------|------|------|------|------|------|------|------|------|
| <b>30</b>           | 2.56 | 3.29 | 4.20 | 5.28 | 6.43 | 7.49 | 8.25 | -    |
| <b>35</b>           | 1.97 | 2.53 | 3.23 | 4.10 | 5.10 | 6.15 | 7.10 | -    |
| <b>40</b>           | 1.53 | 1.97 | 2.52 | 3.20 | 4.02 | 4.94 | 5.90 | 6.76 |
| <b>45</b>           | -    | 1.55 | 1.98 | 2.51 | 3.17 | 3.94 | 4.80 | 5.68 |
| <b>50</b>           | -    | 1.24 | 1.57 | 1.99 | 2.51 | 3.13 | 3.86 | 4.67 |
| <b>55</b>           | -    | -    | 1.26 | 1.59 | 1.99 | 2.49 | 3.09 | 3.78 |
| <b>60</b>           | -    | -    | -    | 1.26 | 1.58 | 1.98 | 2.46 | 3.04 |
| <b>65</b>           | -    | -    | -    | 1.00 | 1.26 | 1.57 | 1.95 | 2.42 |
| <b>70</b>           | -    | -    | -    | -    | 0.99 | 1.23 | 1.54 | 1.91 |
| <b>75</b>           | -    | -    | -    | -    | 0.77 | 0.96 | 1.20 | 1.49 |

**Application range**



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: suction gas temperature 20°C, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

R404A/R507

**Cooling capacity [kW]**

| $t_c \setminus t_e$ | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|------|
| <b>10</b>           | 2.38 | 2.94 | 3.63 | 4.46 | -    | -    | -    | -    | -    |
| <b>15</b>           | 2.26 | 2.80 | 3.47 | 4.26 | 5.19 | -    | -    | -    | -    |
| <b>20</b>           | 2.12 | 2.65 | 3.29 | 4.04 | 4.93 | 5.95 | -    | -    | -    |
| <b>25</b>           | 1.97 | 2.49 | 3.10 | 3.81 | 4.64 | 5.60 | 6.71 | -    | -    |
| <b>30</b>           | 1.79 | 2.30 | 2.89 | 3.56 | 4.34 | 5.24 | 6.27 | 7.45 | 8.79 |
| <b>35</b>           | 1.60 | 2.10 | 2.66 | 3.29 | 4.02 | 4.86 | 5.81 | 6.91 | 8.14 |
| <b>40</b>           | 1.39 | 1.87 | 2.41 | 3.01 | 3.69 | 4.46 | 5.34 | 6.34 | 7.48 |
| <b>45</b>           | 1.15 | 1.63 | 2.14 | 2.70 | 3.33 | 4.04 | 4.84 | 5.76 | 6.80 |
| <b>50</b>           | -    | 1.36 | 1.84 | 2.37 | 2.95 | 3.60 | 4.33 | 5.16 | 6.09 |
| <b>55</b>           | -    | -    | 1.53 | 2.02 | 2.55 | 3.14 | 3.80 | 4.54 | 5.37 |
| <b>60</b>           | -    | -    | -    | 1.65 | 2.14 | 2.66 | 3.24 | 3.90 | 4.63 |

**Power input [kW]**

| $t_c \setminus t_e$ | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|------|
| <b>10</b>           | 0.78 | 0.80 | 0.78 | 0.75 | -    | -    | -    | -    | -    |
| <b>15</b>           | 0.87 | 0.89 | 0.89 | 0.86 | 0.83 | -    | -    | -    | -    |
| <b>20</b>           | 0.97 | 1.00 | 1.00 | 0.98 | 0.95 | 0.92 | -    | -    | -    |
| <b>25</b>           | 1.10 | 1.12 | 1.12 | 1.11 | 1.08 | 1.05 | 1.02 | -    | -    |
| <b>30</b>           | 1.25 | 1.27 | 1.27 | 1.25 | 1.22 | 1.20 | 1.17 | 1.16 | 1.16 |
| <b>35</b>           | 1.45 | 1.46 | 1.45 | 1.42 | 1.39 | 1.36 | 1.33 | 1.31 | 1.32 |
| <b>40</b>           | 1.70 | 1.69 | 1.67 | 1.63 | 1.59 | 1.55 | 1.51 | 1.49 | 1.49 |
| <b>45</b>           | 2.01 | 1.98 | 1.93 | 1.88 | 1.82 | 1.77 | 1.72 | 1.69 | 1.68 |
| <b>50</b>           | -    | 2.32 | 2.26 | 2.18 | 2.10 | 2.03 | 1.97 | 1.92 | 1.90 |
| <b>55</b>           | -    | -    | 2.64 | 2.54 | 2.44 | 2.34 | 2.26 | 2.20 | 2.16 |
| <b>60</b>           | -    | -    | -    | 2.97 | 2.84 | 2.71 | 2.61 | 2.52 | 2.46 |

**Current [A]**

| $t_c \setminus t_e$ | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|------|
| <b>10</b>           | 2.17 | 2.19 | 2.17 | 2.14 | -    | -    | -    | -    | -    |
| <b>15</b>           | 2.23 | 2.26 | 2.26 | 2.23 | 2.19 | -    | -    | -    | -    |
| <b>20</b>           | 2.31 | 2.34 | 2.35 | 2.33 | 2.30 | 2.27 | -    | -    | -    |
| <b>25</b>           | 2.42 | 2.46 | 2.46 | 2.45 | 2.42 | 2.39 | 2.37 | -    | -    |
| <b>30</b>           | 2.58 | 2.61 | 2.61 | 2.59 | 2.56 | 2.53 | 2.51 | 2.51 | 2.54 |
| <b>35</b>           | 2.80 | 2.82 | 2.81 | 2.78 | 2.74 | 2.70 | 2.68 | 2.67 | 2.69 |
| <b>40</b>           | 3.09 | 3.09 | 3.06 | 3.02 | 2.96 | 2.91 | 2.88 | 2.86 | 2.87 |
| <b>45</b>           | 3.46 | 3.44 | 3.39 | 3.32 | 3.25 | 3.18 | 3.12 | 3.09 | 3.09 |
| <b>50</b>           | -    | 3.87 | 3.80 | 3.70 | 3.61 | 3.51 | 3.43 | 3.38 | 3.36 |
| <b>55</b>           | -    | -    | 4.30 | 4.18 | 4.05 | 3.93 | 3.82 | 3.73 | 3.68 |
| <b>60</b>           | -    | -    | -    | 4.75 | 4.59 | 4.43 | 4.29 | 4.17 | 4.09 |

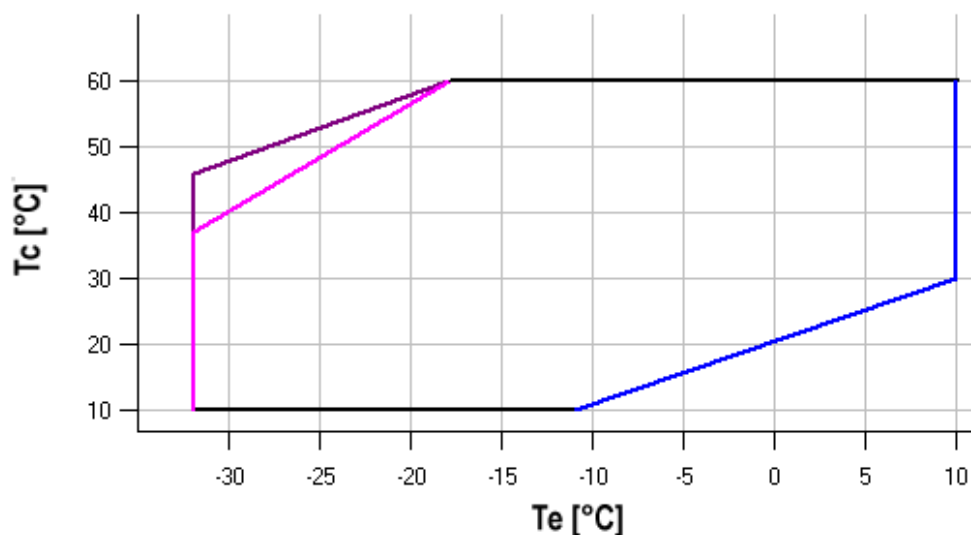
**Mass flow [kg/h]**

| $t_c \setminus t_e$ | -30   | -25   | -20   | -15   | -10    | -5     | 0      | 5      | 10     |
|---------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>10</b>           | 47.66 | 59.86 | 74.32 | 91.69 | -      | -      | -      | -      | -      |
| <b>15</b>           | 47.28 | 59.62 | 74.08 | 91.32 | 111.98 | -      | -      | -      | -      |
| <b>20</b>           | 46.53 | 59.05 | 73.55 | 90.69 | 111.11 | 135.47 | -      | -      | -      |
| <b>25</b>           | 45.32 | 58.05 | 72.63 | 89.70 | 109.92 | 133.94 | 162.42 | -      | -      |
| <b>30</b>           | 43.56 | 56.53 | 71.21 | 88.25 | 108.31 | 132.03 | 160.07 | 193.08 | 231.72 |
| <b>35</b>           | 41.13 | 54.39 | 69.21 | 86.26 | 106.18 | 129.63 | 157.26 | 189.73 | 227.69 |
| <b>40</b>           | 37.95 | 51.52 | 66.53 | 83.62 | 103.44 | 126.66 | 153.92 | 185.88 | 223.19 |
| <b>45</b>           | 33.91 | 47.84 | 63.07 | 80.23 | 100.00 | 123.01 | 149.94 | 181.42 | 218.12 |
| <b>50</b>           | -     | 43.25 | 58.72 | 76.00 | 95.74  | 118.59 | 145.22 | 176.26 | 212.38 |
| <b>55</b>           | -     | -     | 53.40 | 70.83 | 90.58  | 113.31 | 139.66 | 170.30 | 205.88 |
| <b>60</b>           | -     | -     | -     | 64.62 | 84.42  | 107.05 | 133.18 | 163.45 | 198.52 |

**C.O.P. [W/W]**

| $t_c \setminus t_e$ | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|------|
| <b>10</b>           | 3.04 | 3.69 | 4.63 | 5.95 | -    | -    | -    | -    | -    |
| <b>15</b>           | 2.60 | 3.15 | 3.91 | 4.93 | 6.29 | -    | -    | -    | -    |
| <b>20</b>           | 2.19 | 2.67 | 3.30 | 4.13 | 5.18 | 6.50 | -    | -    | -    |
| <b>25</b>           | 1.79 | 2.22 | 2.76 | 3.44 | 4.30 | 5.33 | 6.56 | -    | -    |
| <b>30</b>           | 1.43 | 1.81 | 2.27 | 2.85 | 3.54 | 4.38 | 5.36 | 6.45 | 7.59 |
| <b>35</b>           | 1.10 | 1.43 | 1.83 | 2.31 | 2.89 | 3.58 | 4.37 | 5.25 | 6.18 |
| <b>40</b>           | 0.82 | 1.10 | 1.44 | 1.84 | 2.32 | 2.88 | 3.53 | 4.26 | 5.02 |
| <b>45</b>           | 0.57 | 0.82 | 1.10 | 1.44 | 1.83 | 2.29 | 2.82 | 3.41 | 4.04 |
| <b>50</b>           | -    | 0.58 | 0.82 | 1.09 | 1.40 | 1.77 | 2.20 | 2.68 | 3.21 |
| <b>55</b>           | -    | -    | 0.58 | 0.80 | 1.05 | 1.34 | 1.68 | 2.07 | 2.49 |
| <b>60</b>           | -    | -    | -    | 0.56 | 0.75 | 0.98 | 1.24 | 1.55 | 1.89 |

**Application range**



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: suction gas temperature 20°C, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

R407C

**Cooling capacity [kW]**

| $t_c \setminus t_e$ | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|
| 15                  | 2.27 | 2.85 | 3.54 | 4.37 | 5.34 | 6.48 | -    | -    |
| 20                  | 2.11 | 2.69 | 3.36 | 4.15 | 5.09 | 6.18 | 7.46 | -    |
| 25                  | 1.97 | 2.53 | 3.18 | 3.94 | 4.84 | 5.89 | 7.11 | -    |
| 30                  | 1.82 | 2.37 | 3.00 | 3.73 | 4.58 | 5.58 | 6.74 | 8.09 |
| 35                  | 1.67 | 2.20 | 2.81 | 3.51 | 4.32 | 5.27 | 6.37 | 7.65 |
| 40                  | 1.51 | 2.03 | 2.61 | 3.27 | 4.04 | 4.94 | 5.98 | 7.18 |
| 45                  | -    | 1.84 | 2.39 | 3.02 | 3.74 | 4.59 | 5.56 | 6.70 |
| 50                  | -    | -    | 2.15 | 2.75 | 3.42 | 4.21 | 5.12 | 6.19 |
| 55                  | -    | -    | -    | 2.45 | 3.08 | 3.81 | 4.65 | 5.64 |
| 60                  | -    | -    | -    | -    | 2.70 | 3.37 | 4.15 | 5.06 |
| 65                  | -    | -    | -    | -    | -    | 2.89 | 3.60 | 4.44 |

**Power input [kW]**

| $t_c \setminus t_e$ | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|
| 15                  | 0.60 | 0.59 | 0.58 | 0.60 | 0.65 | 0.76 | -    | -    |
| 20                  | 0.73 | 0.72 | 0.71 | 0.70 | 0.73 | 0.80 | 0.92 | -    |
| 25                  | 0.88 | 0.88 | 0.86 | 0.84 | 0.85 | 0.88 | 0.96 | -    |
| 30                  | 1.03 | 1.05 | 1.04 | 1.01 | 1.00 | 1.00 | 1.04 | 1.14 |
| 35                  | 1.19 | 1.23 | 1.23 | 1.20 | 1.18 | 1.16 | 1.17 | 1.22 |
| 40                  | 1.35 | 1.41 | 1.43 | 1.41 | 1.38 | 1.35 | 1.34 | 1.35 |
| 45                  | -    | 1.59 | 1.63 | 1.63 | 1.61 | 1.57 | 1.53 | 1.52 |
| 50                  | -    | -    | 1.84 | 1.86 | 1.84 | 1.80 | 1.76 | 1.72 |
| 55                  | -    | -    | -    | 2.09 | 2.09 | 2.05 | 2.00 | 1.95 |
| 60                  | -    | -    | -    | -    | 2.34 | 2.32 | 2.27 | 2.20 |
| 65                  | -    | -    | -    | -    | -    | 2.58 | 2.54 | 2.47 |



**Current [A]**

| $t_c \setminus t_e$ | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|
| 15                  | 2.01 | 2.01 | 2.00 | 2.01 | 2.05 | 2.15 | -    | -    |
| 20                  | 2.10 | 2.10 | 2.09 | 2.08 | 2.10 | 2.16 | 2.27 | -    |
| 25                  | 2.21 | 2.22 | 2.21 | 2.20 | 2.19 | 2.22 | 2.30 | -    |
| 30                  | 2.35 | 2.37 | 2.37 | 2.35 | 2.33 | 2.34 | 2.37 | 2.47 |
| 35                  | 2.51 | 2.56 | 2.56 | 2.54 | 2.51 | 2.50 | 2.50 | 2.56 |
| 40                  | 2.69 | 2.76 | 2.78 | 2.77 | 2.73 | 2.70 | 2.68 | 2.70 |
| 45                  | -    | 2.99 | 3.03 | 3.02 | 2.99 | 2.94 | 2.90 | 2.89 |
| 50                  | -    | -    | 3.30 | 3.31 | 3.28 | 3.23 | 3.17 | 3.13 |
| 55                  | -    | -    | -    | 3.62 | 3.60 | 3.54 | 3.48 | 3.41 |
| 60                  | -    | -    | -    | -    | 3.95 | 3.89 | 3.82 | 3.73 |
| 65                  | -    | -    | -    | -    | -    | 4.27 | 4.19 | 4.10 |

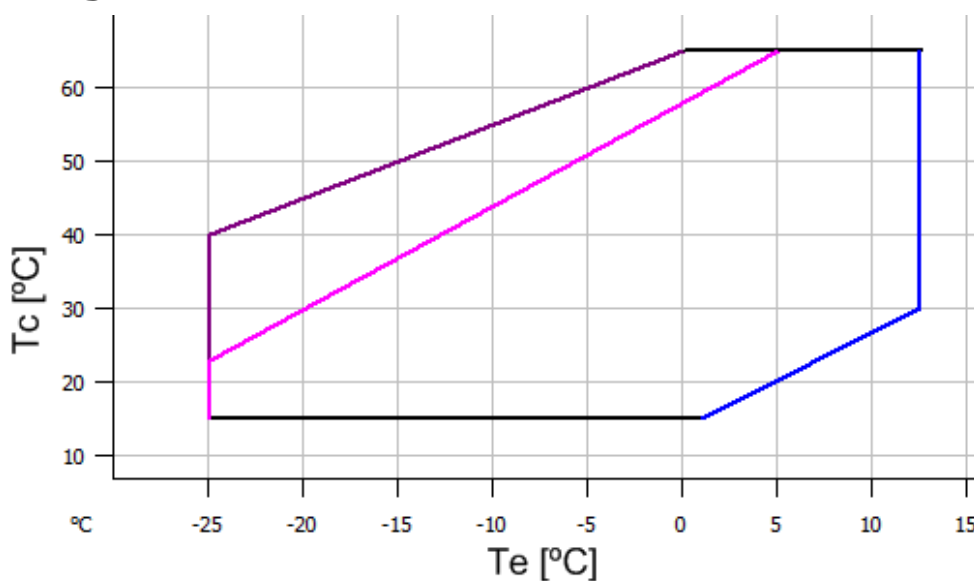
**Mass flow [kg/h]**

| $t_c \setminus t_e$ | -25   | -20   | -15   | -10   | -5    | 0      | 5      | 10     |
|---------------------|-------|-------|-------|-------|-------|--------|--------|--------|
| 15                  | 36.61 | 46.96 | 58.82 | 72.77 | 89.38 | 109.24 | -      | -      |
| 20                  | 35.21 | 45.60 | 57.46 | 71.36 | 87.89 | 107.64 | 131.17 | -      |
| 25                  | 34.09 | 44.51 | 56.35 | 70.20 | 86.64 | 106.24 | 129.60 | -      |
| 30                  | 33.05 | 43.48 | 55.30 | 69.08 | 85.41 | 104.87 | 128.05 | 155.51 |
| 35                  | 31.90 | 42.33 | 54.11 | 67.81 | 84.03 | 103.33 | 126.31 | 153.54 |
| 40                  | 30.45 | 40.87 | 52.59 | 66.21 | 82.29 | 101.42 | 124.19 | 151.17 |
| 45                  | -     | 38.89 | 50.55 | 64.07 | 80.00 | 98.96  | 121.50 | 148.22 |
| 50                  | -     | -     | 47.80 | 61.19 | 76.98 | 95.74  | 118.05 | 144.49 |
| 55                  | -     | -     | -     | 57.40 | 73.02 | 91.57  | 113.63 | 139.79 |
| 60                  | -     | -     | -     | -     | 67.93 | 86.27  | 108.07 | 133.93 |
| 65                  | -     | -     | -     | -     | -     | 79.63  | 101.16 | 126.71 |

**C.O.P. [W/W]**

| $t_c \setminus t_e$ | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|------|
| 15                  | 3.80 | 4.87 | 6.11 | 7.30 | 8.16 | 8.48 | -    | -    |
| 20                  | 2.89 | 3.73 | 4.75 | 5.89 | 6.97 | 7.75 | 8.07 | -    |
| 25                  | 2.24 | 2.88 | 3.69 | 4.67 | 5.72 | 6.70 | 7.40 | -    |
| 30                  | 1.76 | 2.26 | 2.89 | 3.68 | 4.60 | 5.57 | 6.46 | 7.11 |
| 35                  | 1.40 | 1.79 | 2.29 | 2.91 | 3.67 | 4.54 | 5.44 | 6.26 |
| 40                  | 1.12 | 1.43 | 1.83 | 2.32 | 2.92 | 3.65 | 4.48 | 5.32 |
| 45                  | -    | 1.15 | 1.46 | 1.85 | 2.33 | 2.93 | 3.63 | 4.41 |
| 50                  | -    | -    | 1.17 | 1.48 | 1.86 | 2.33 | 2.92 | 3.60 |
| 55                  | -    | -    | -    | 1.17 | 1.47 | 1.85 | 2.32 | 2.89 |
| 60                  | -    | -    | -    | -    | 1.15 | 1.45 | 1.83 | 2.30 |
| 65                  | -    | -    | -    | -    | -    | 1.12 | 1.42 | 1.79 |

**Application range**

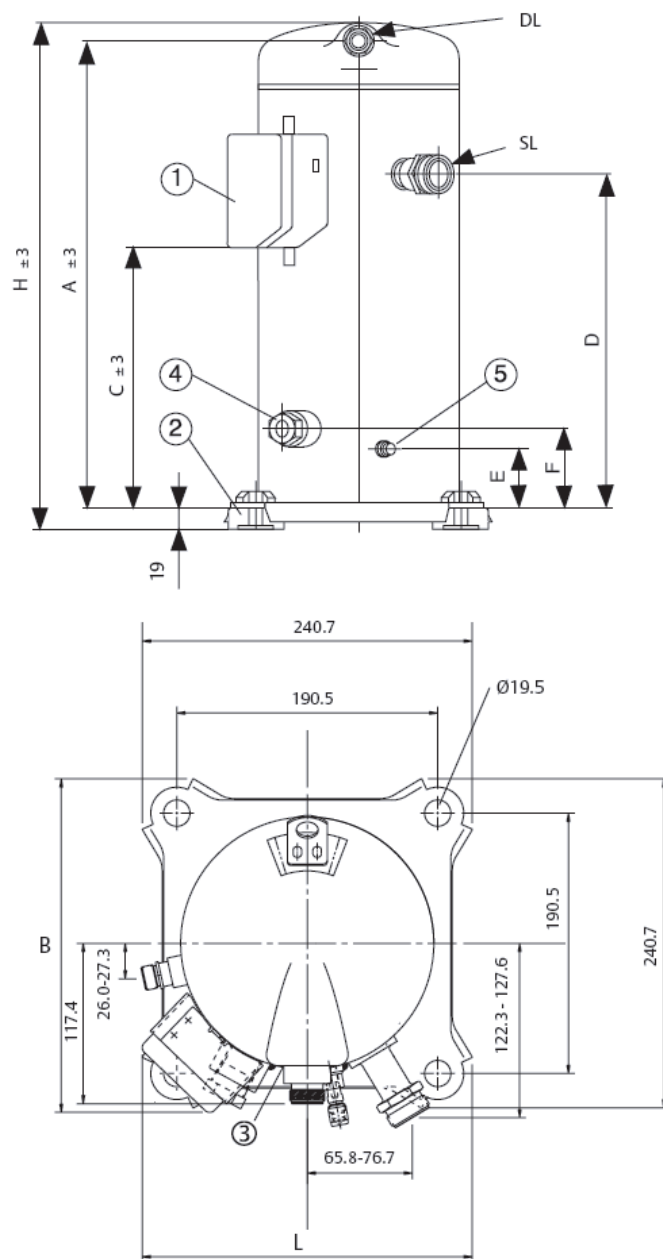


- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: suction gas temperature 20°C, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]



|   |        |
|---|--------|
| A | 344 mm |
| B | 242 mm |
| C | 202 mm |
| D | 245 mm |
| E | 44 mm  |
| F | 69 mm  |
| H | 369 mm |
| L | 242 mm |

