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**GACO SARL**

28, Rue Bencharif Madani

25000 BELLEVUE/CONSTANTINE - ALGERIE

Tel. : 031 92 54 56 / 031 93 22 23 - Fax : 031 92 13 45

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**Type: Hermetic piston compressors****Producer: Copeland****Series: ZP****Model: ZP41K3E-TFD****Technical data**

|                                   |       |
|-----------------------------------|-------|
| Nominal motor power [HP]:         | 3,4   |
| Displacement [m <sup>3</sup> /h]: | 6,9   |
| Sound pressure level :            | 56    |
| Weight [kg]:                      | 35/33 |
| Oil charge [dm <sup>3</sup> ]:    | 1,3   |

**Electrical data**

|                                  |                 |
|----------------------------------|-----------------|
| Power supply [V/~ /Hz]:          | 380-420V/3/50Hz |
| Locked rotor current [A]:        | 48              |
| Max. operating current [A]:      | 8               |
| Winding resistance [ $\Omega$ ]: | 3,9             |

**Connections**

|                                            | <u>milimeters</u> | <u>inches</u> |
|--------------------------------------------|-------------------|---------------|
| Suction Rotolock valve connection:         |                   | -             |
| Discharge Rotolock valve connection:       |                   | -             |
| Suction connection with supplied sleeve:   |                   | 3/4"          |
| Discharge connection with supplied sleeve: |                   | 1/2"          |

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R410A

**Cooling capacity [kW]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0     | 5     | 10    |
|---------------------|------|------|------|------|-------|-------|-------|
| <b>25</b>           | 4.66 | 5.75 | 7.04 | 8.55 | 10.28 | 12.27 | 14.54 |
| <b>30</b>           | 4.31 | 5.37 | 6.60 | 8.04 | 9.70  | 11.60 | 13.77 |
| <b>35</b>           | 3.99 | 4.99 | 6.17 | 7.54 | 9.12  | 10.93 | 12.99 |
| <b>40</b>           | 3.67 | 4.62 | 5.74 | 7.03 | 8.53  | 10.25 | 12.20 |
| <b>45</b>           | -    | 4.24 | 5.29 | 6.51 | 7.92  | 9.54  | 11.39 |
| <b>50</b>           | -    | -    | 4.83 | 5.96 | 7.28  | 8.79  | 10.53 |
| <b>55</b>           | -    | -    | -    | 5.37 | 6.60  | 8.00  | 9.62  |
| <b>60</b>           | -    | -    | -    | -    | 5.86  | 7.15  | 8.65  |
| <b>65</b>           | -    | -    | -    | -    | -     | 6.23  | 7.61  |

**Power input [kW]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|
| <b>25</b>           | 1.68 | 1.67 | 1.66 | 1.63 | 1.60 | 1.56 | 1.51 |
| <b>30</b>           | 1.90 | 1.90 | 1.89 | 1.87 | 1.84 | 1.81 | 1.77 |
| <b>35</b>           | 2.13 | 2.14 | 2.13 | 2.11 | 2.09 | 2.06 | 2.03 |
| <b>40</b>           | 2.40 | 2.40 | 2.39 | 2.38 | 2.36 | 2.34 | 2.31 |
| <b>45</b>           | -    | 2.71 | 2.70 | 2.68 | 2.66 | 2.64 | 2.61 |
| <b>50</b>           | -    | -    | 3.05 | 3.03 | 3.00 | 2.98 | 2.95 |
| <b>55</b>           | -    | -    | -    | 3.43 | 3.40 | 3.37 | 3.33 |
| <b>60</b>           | -    | -    | -    | -    | 3.86 | 3.82 | 3.78 |
| <b>65</b>           | -    | -    | -    | -    | -    | 4.34 | 4.30 |

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**Current [A]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|
| <b>25</b>           | 3.88 | 3.88 | 3.86 | 3.83 | 3.79 | 3.75 | 3.70 |
| <b>30</b>           | 4.14 | 4.15 | 4.13 | 4.11 | 4.07 | 4.04 | 4.00 |
| <b>35</b>           | 4.44 | 4.44 | 4.42 | 4.40 | 4.37 | 4.34 | 4.31 |
| <b>40</b>           | 4.79 | 4.78 | 4.76 | 4.74 | 4.71 | 4.67 | 4.64 |
| <b>45</b>           | -    | 5.20 | 5.17 | 5.14 | 5.10 | 5.06 | 5.03 |
| <b>50</b>           | -    | -    | 5.67 | 5.62 | 5.58 | 5.53 | 5.49 |
| <b>55</b>           | -    | -    | -    | 6.22 | 6.15 | 6.09 | 6.04 |
| <b>60</b>           | -    | -    | -    | -    | 6.85 | 6.77 | 6.70 |
| <b>65</b>           | -    | -    | -    | -    | -    | 7.59 | 7.50 |

**Mass flow [kg/s]**

| $t_c \setminus t_e$ | -20   | -15    | -10    | -5     | 0      | 5      | 10     |
|---------------------|-------|--------|--------|--------|--------|--------|--------|
| <b>25</b>           | 90.89 | 111.48 | 135.09 | 162.13 | 193.01 | 228.14 | 267.93 |
| <b>30</b>           | 88.84 | 109.31 | 132.82 | 159.76 | 190.54 | 225.58 | 265.28 |
| <b>35</b>           | 86.67 | 107.04 | 130.45 | 157.30 | 187.99 | 222.95 | 262.58 |
| <b>40</b>           | 84.27 | 104.56 | 127.88 | 154.65 | 185.27 | 220.16 | 259.73 |
| <b>45</b>           | -     | 101.76 | 125.01 | 151.71 | 182.27 | 217.10 | 256.61 |
| <b>50</b>           | -     | -      | 121.73 | 148.37 | 178.88 | 213.67 | 253.14 |
| <b>55</b>           | -     | -      | -      | 144.53 | 175.00 | 209.75 | 249.20 |
| <b>60</b>           | -     | -      | -      | -      | 170.52 | 205.25 | 244.68 |
| <b>65</b>           | -     | -      | -      | -      | -      | 200.07 | 239.49 |

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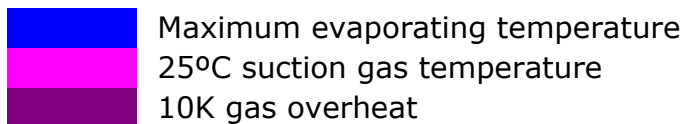
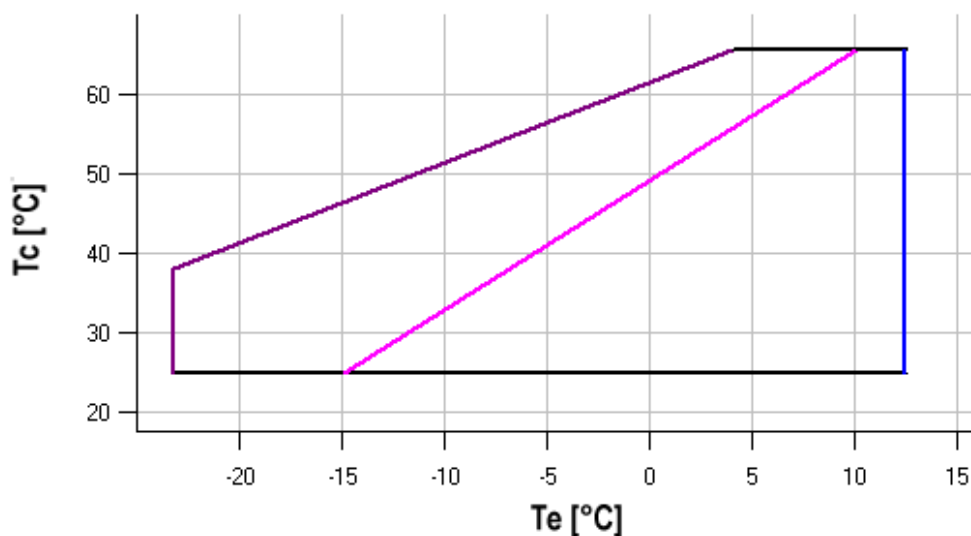
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**C.O.P. [W/W]**

| $t_c \setminus t_e$ | -20  | -15  | -10  | -5   | 0    | 5    | 10   |
|---------------------|------|------|------|------|------|------|------|
| 25                  | 2.78 | 3.44 | 4.25 | 5.23 | 6.43 | 7.88 | 9.63 |
| 30                  | 2.27 | 2.83 | 3.50 | 4.30 | 5.27 | 6.42 | 7.78 |
| 35                  | 1.87 | 2.34 | 2.90 | 3.57 | 4.36 | 5.30 | 6.40 |
| 40                  | 1.53 | 1.93 | 2.40 | 2.96 | 3.61 | 4.39 | 5.29 |
| 45                  | -    | 1.57 | 1.96 | 2.43 | 2.98 | 3.62 | 4.36 |
| 50                  | -    | -    | 1.58 | 1.97 | 2.43 | 2.96 | 3.57 |
| 55                  | -    | -    | -    | 1.57 | 1.94 | 2.38 | 2.89 |
| 60                  | -    | -    | -    | -    | 1.52 | 1.87 | 2.29 |
| 65                  | -    | -    | -    | -    | -    | 1.44 | 1.77 |

**Application range**

Operating conditions: 10K suction superheat, 0K subcooling

 $t_c$  - Condensing temperature [ $^{\circ}\text{C}$ ] $t_e$  - Evaporating temperature [ $^{\circ}\text{C}$ ]

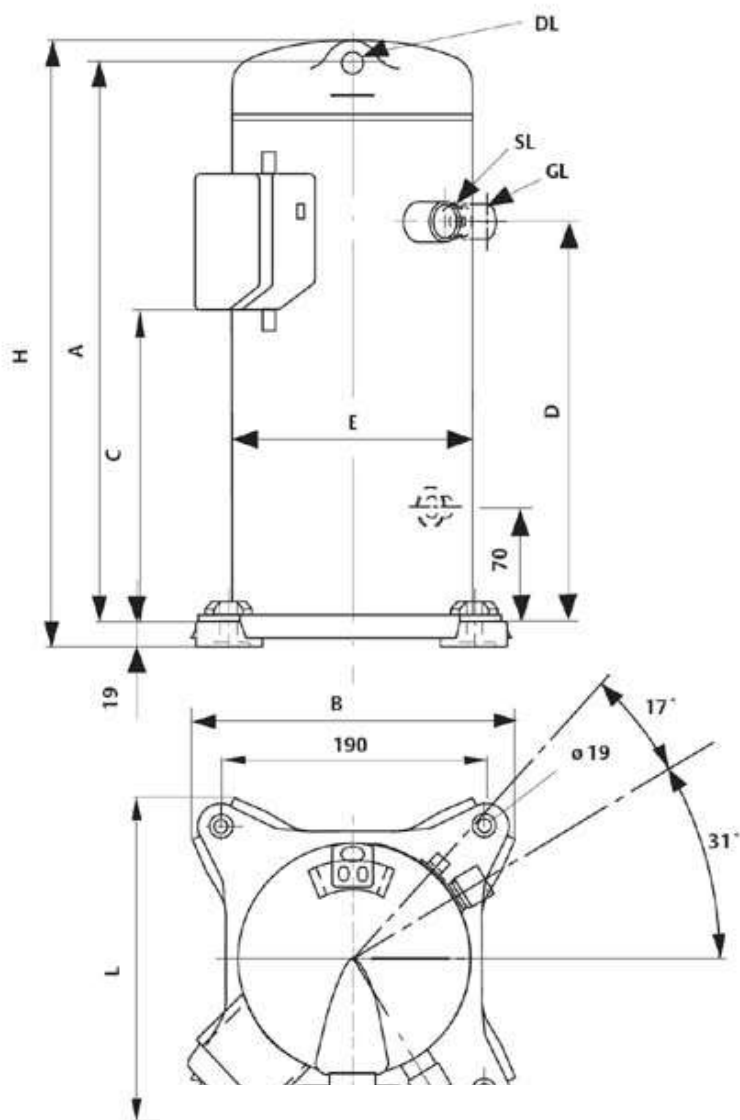
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|   |           |
|---|-----------|
| A | 371 n.... |
| B | 240 mm    |
| C | 235 mm    |
| D | 277 mm    |
| E | 167 mm    |
| H | 419 mm    |
| L | 231 mm    |

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