



# Select 8

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**EMERSON**

**GACO SARL**

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## Project Report

Refrigerant R404A Dew Point

**High Side Properties:**

|  |        |
|--|--------|
| Condensing Temperature °C                    | 55.00  |
| Condensing Abs. Pressure bar a               | 25.73  |
| Dew Point °C                                 | 55.00  |
| Bubble Point °C                              | 54.74  |
| Saturated vapour enthalpy kJ/kg              | 381.15 |
| Specific volume of saturated vapour cu.dm/kg | 6.19   |
| Liquid Temperature °C                        | 54.74  |
| Liquid enthalpy kJ/kg                        | 286.27 |

**Low Side Properties:**

|                                 |        |
|---------------------------------|--------|
| Evaporating Temperature °C      | -25.00 |
| Evaporating Abs. Pressure bar a | 2.50   |
| Dew Point °C                    | -25.00 |
| Bubble Point °C                 | -25.67 |
| With vapour at °C               | -15.00 |
| Specific volume cu.dm/kg        | 81.63  |
| Enthalpy kJ/kg                  | 360.46 |

**Operating Conditions:**

|                            |        |
|----------------------------|--------|
| Evaporating Temperature °C | -25.00 |
| Condensing Temperature °C  | 55.00  |
| Suction Superheat K        | 10.00  |
| Subcooling K               | 0.00   |

Compressor Selected DLF-20X

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**PERFORMANCE AT SPECIFIED OPERATING POINT  
DLF-20X Data at 50Hz**

|                     |       |
|---------------------|-------|
| Cooling Capacity kW | 1.38  |
| Power kW            | 1.97  |
| COP                 | 0.70  |
| Current at 400V, A  | 3.76  |
| Mass Flow g/s       | 18.60 |
| Heat Rejection kW   | 2.30  |
| Isentropic Eff. %   | 46.70 |

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

|                              |                  |
|------------------------------|------------------|
| Number of cylinders          | 2                |
| Displacement @ 50 Hz, cu.m/h | 12.9             |
| Bore/Stroke, mm              | 50.8/36.5        |
| Length/Width, mm             | 470/330          |
| Height, mm                   | 385              |
| Net Weight, kg               | 80               |
| Gross Weight, kg             | 86               |
| Suction, inch                | 7/8              |
| Discharge, inch              | 5/8              |
| Oil Quantity, l              | 2                |
| Frequency Range, Hz          | 25 - 60          |
| Base mounting (hole dia), mm | 295 x 279 (14.0) |
| Sound Pressure @ 1m, dBA     | 51               |
| Sound Power, dBA             | 62               |
| High Side PS, bar(g)         | 32.5             |
| Low Side PS, bar(g)          | 22.5             |

**COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)**

|                              |                |
|------------------------------|----------------|
| Maximum Operating Current, A | 5.5            |
| Locked Rotor Current, A      | 37.6           |
| Default Enclosure Class      | IP 54 (IEC 34) |

**ACCESSORIES INCLUDED**

|                  |   |
|------------------|---|
| Mounting Springs | 4 |
|------------------|---|

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**ACCESSORIES OPTIONAL**

Additional Cooling  
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Crankcase Heater  
Adapter Kit  
Oil Control System  
Inverter

1 or 2 ways water Coil  
70W Vertical Air Flow Fan  
25W Horizontal Air Flow Fan  
70W Internal  
For Parallel Operation  
ALCO Trax-Oil OM3  
Emerson Industrial Automation,  
Unidrive M200 03 400 094

DL with pump

