



Chiller and chiller links, for outdoor installation, for the production of cold water down to 3 °C. Reduces electricity needs by up to 88%.

Gas-fired absorption chiller and chiller links for cooling PRO GA Line ACF - RTCF Series

Applications

Cooling for Commercial, Residential and Industrial Establishments.



Residential Installation, Rome, Italy



World Trade Fair, Essen, Germany



Owensboro National Bank, Kentucky, USA



Chamber of Commerce, Padova, Italy

ADVANTAGES

- ✓ Extremely low electricity consumption: saving up to 88% of electricity compared with a traditional electrical system, thus requiring neither additional energy nor upgrading or modification of the electrical cabin.
- ✓ Independent and modular, it ensures constant performance for cooling only as and when needed.
- ✓ Thanks to the use of an almost static refrigeration cycle, the performance levels remain unchanged over time and regular refill and disposal of refrigerant is not required.
- ✓ The system is air-cooled, and therefore does not consume any water – a boon for water-scarce areas.



CineCity, Troyes, France





Gas-fired absorption chiller and chiller links for cooling

PRO GA Line ACF - RTCF Series

| | | | ACF 60-00 | RTCF 120-00 | RTCF 180-00 | RTCF 240-00 | RTCF 300-00 |
|--|----------------------------------|--------------------|---------------|----------------|------------------|----------------|------------------|
| COOLING OPERATION MODE | | | | | | | |
| Working point A35/W7 ⁽¹⁾ | GUE (gas utilization efficiency) | % | 71 | 71 | 71 | 71 | 71 |
| | cooling capacity | kW | 17.72 | 35.44 | 53.16 | 70.88 | 88.60 |
| Nominal water flow rate ($\Delta T = 5,5\text{ }^{\circ}\text{C}$) | | m ³ /h | 2.77 | 5.54 | 8.31 | 11.08 | 13.85 |
| Nominal water capacity pressure loss | | kPa | 29 | 31 | 31 | 31 | 31 |
| Minimum outlet water temperature | | $^{\circ}\text{C}$ | 3 | 3 | 3 | 3 | 3 |
| Inlet water temperature | maximum | $^{\circ}\text{C}$ | 45 | 45 | 45 | 45 | 45 |
| | minimum | $^{\circ}\text{C}$ | 6 | 6 | 6 | 6 | 6 |
| Ambient operating temperature | maximum | $^{\circ}\text{C}$ | 45 | 45 | 45 | 45 | 45 |
| | minimum | $^{\circ}\text{C}$ | 0 | 0 | 0 | 0 | 0 |
| BURNER CHARACTERISTICS | | | | | | | |
| Heating input (actual) | | kW | 25.0 | 50.1 | 75.1 | 100.1 | 125.2 |
| Gas consumption (actual) | natural gas G20 ⁽²⁾ | m ³ /h | 2.65 | 5.30 | 7.95 | 10.60 | 13.24 |
| | LPG G30/G31 ⁽³⁾ | kg/h | 1.94 | 3.89 | 5.83 | 7.78 | 9.72 |
| ELECTRICAL CHARACTERISTICS | | | | | | | |
| Voltage | | | 230 V - 50 Hz | | 400 V 3N - 50 Hz | | 230 V 1N - 50 Hz |
| Nominal electrical power ⁽⁴⁾⁽⁵⁾ | standard version | kW | 0.87 | 1.98 | 2.97 | 3.96 | 4.95 |
| | low noise version | kW | 0.82 | 2.08 | 3.12 | 4.16 | 5.20 |
| INSTALLATION DETAILS | | | | | | | |
| Operational Weight | standard version | kg | 340 | 830 | 1,285 | 1,720 | 2,145 |
| | low noise version | kg | 360 | 870 | 1,345 | 1,800 | 2,245 |
| Sound pressure at 10 metres ⁽⁶⁾ | standard version | dB(A) | 54 | 55 | 57 | 58 | 59 |
| | low noise version | dB (A) | 49 | 50 | 52 | 53 | 54 |
| Connections | water | " | 11/4 F | 2 M | 2 M | 2 M | 2 M |
| | gas | " F | 3/4 | 11/2 | 11/2 | 11/2 | 11/2 |
| Dimensions | width | mm | 850 | 2,314 | 3,610 | 4,936 | 6,490 |
| | depth | mm | 1,230 | 1,245 | 1,245 | 1,245 | 1,245 |
| | height (standard version) | mm | 1,290 | 1,400 | 1,400 | 1,400 | 1,400 |
| | height (low noise version) | mm | 1,540 | 1,650 | 1,650 | 1,650 | 1,650 |
| Electrical degree of protection | | IP | X5D | X5D | X5D | X5D | X5D |

(1) Operating point under nominal conditions: external air 35 °C - water outlet 7.2 °C - water inlet 12.7 °C according to EN12309-2

(2) Hi 34.02 MJ/m³ (9.45 kWh/m³) at 15 °C - 1013 mbar.

(3) Hi 46.34 MJ/kg (12.87 kWh/kg) at 15 °C - 1013 mbar.

(4) A reduction in the fan revolutions (air flow) is envisaged for ambient operating temperatures of less than 33 °C. This leads to a further reduction in electricity consumption levels.

(5) $\pm 10\%$ depending on the power supply voltage and on the tolerance of the electrical motors power consumption.

(6) Free range, at the front, directivity factor 2. The values refer to the maximum measured.

Note : The data specified refer to the versions with water circulating pumps. For those versions without water circulating pumps, please contact the Robur sales network. The circulating pumps supply at nominal conditions a residual pressure head of 20 kPa.

Photographs may show attachments or accessories, which may not be part of the standard scope of supply. With our policy of constant upgradation of products, specifications are subject to change without prior notice.



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