



Dear customer

You have received an offer from us for a machine with natural refrigerant (NR) or placed an order for such a machine.

In the standards and regulations are rules concerning machines containing natural refrigerants. In this letter, we wish to make you aware of these particular conditions. In addition we wish to inform you concerning attention to operation within these regulations and to operating within the guidelines set out in the relevant operating manual.

- 1) The machine was built in accordance to the EU and the EFTA states regulations.
- 2) Setting up the machine in public buildings is not allowed.
- 3) Machines with more than 1Kg refrigerant may not be placed below the ground floor (GF) according to EN 378. The refrigerant quantity is stated on the ID label on the rear of the machine.
- 4) The machine is built as a permanently sealed system (BGR104), and tested for leaks. As additional protection with machines containing more than 150gr of refrigerant, we have included a gas warning SENSOR) (GWS). The switch-off takes place at 20% of the lower explosion limit (LEL) via an operator installed power isolation relay, which must be fitted before or during machine installation (PIR). The machine would then be safely and securely switched off in event of a fault involving a refrigerant leak.
- 5) The operator is responsible for providing a 24V DC supply for this pre-installed GWS. The alarm output is via a 4 to 20mA signal. Further technical details can be obtained from the data sheet of the gas warning sensor, which we can send to you on application.

**Option:**

- 6) As an alternative to point 5 above, you may use an optional evaluation system to control the power isolation relay via a voltage free contact, which takes over the power supply and evaluation of the gas warning sensor. For both variations, an additional layout and installation by the operator is required. Technical details can be taken from the data sheet of the evaluation system.
- 7) The operator is responsible for the calibration of the gas warning sensor before the first machine commissioning, and the adherence to the calibration and service interval, according to the operation manual of the manufacturer. If no inspection and service intervals are given, we recommend an interval of between 6 and 12 months be stipulated. Shorter intervals can be stipulated for higher safety requirements. On request, we can recommend a special company for calibration and service work. Please make contact with our customer support
- 8) The alarm can be connected to a central alarm system by the operator. The operator is responsible for this and any further arrangements.
- 9) A GWS is not required for smaller machines. However, the size of the operating environment and the quantity of refrigerant must be matched. The size of the room required is calculated as follows:  
max. 8g Refrigerant/ m<sup>3</sup> Room size.

Take the quantity of refrigerant used from the data sheet or the type number label on the rear of the machine. Data sheets can be obtained via the internet at [www.huber-online.com](http://www.huber-online.com)

- 10) The machine is not certified for use in an ATEX area.