

## **THE G RANGE**

Compressor units for rare gases

> 25 – 350 bar > 85 – 24.800 l/min

> FOR HELIUM AND ARGON
> AIR AND WATER-COOLED
> MEDIUM AND HIGH PRESSURE





High-performance complete system solutions for reliably compressing, purifying, storing, distributing and recovering rare gases.

The compressors from BAUER are especially modified for the treatment of rare gases. Filter systems from BAUER provide for a consistently high gas quality.

The B-CONTROL compressor control and an optional noise absorbing construction provide a high degree of user convenience. For special application conditions, BAUER also offers container solutions.

www.bauer-kompressoren.de

## High pressure integrated system technology

Modern industrial processes require maximum operating security, flexible unit configuration and investment security.

- High Pressure System Technology "Made in Germany" enables the customer to recover and reuse rare gases and gas mixtures in an economic way with minimal gas losses.
- BAUER is your one-stop provider of all the products and services you need, from planning and advice to expert commissioning and long-term parts supply over decades.

![](_page_1_Picture_6.jpeg)

Helium recovery balloon

![](_page_1_Picture_8.jpeg)

Helium recovery unit

Gas balloons for recovery of rare gases

- > Available in cylindrical or spherical shape.
- > Fully equipped with frame for either ground- or roof-installation.
- > Helium-tight execution for gas volumes starting from 1 m<sup>3</sup>.
- > Level monitoring system for fully automatic compressor control.

Units for compression of rare gases

- > Perfectly adapted to the compression of helium & argon.
- > Equipped as a standard with the compressor control B-CONTROL.
- The rare gas compressors are tested under real conditions using helium or argon and delivered ready for production/use<sup>1</sup>.

<sup>1</sup> a pre-assembled basic version is also available

![](_page_1_Picture_20.jpeg)

Final check at BAUER

![](_page_1_Picture_22.jpeg)

![](_page_2_Picture_1.jpeg)

Systems for purification of rare gases

- > P purification systems Disposable filter cartridge systems for removing residual humidity, solid matter impurities and traces of oil on the high pressure side
  - Replacement of cartridges dependent on the quality of intake gas.
  - > Gas-tight version.
  - > Gas recovery from safety valves possible.

### > B-KOOL

Refrigeration dryer for increased life span of the filter cartridges.

- Service life increased up to 11-fold.
- SECCANT regeneration dryer Enables economic continuous use for drying and de-oiling of wet gases.
  - Gas recovery from safety valves and regeneration gas recovery possible.
  - > Gas-tight version.
  - Connection of several compressors possible.

Systems for storage of rare gases

- Storage cylinder systems up to 420 bar, consisting of cylinders with a geometrical volume of 50 or 80 litres, available as single units or as a modular system.
- > Vertical or horizontal arrangement.
- > Extendable at will.
- > Can be implemented to fit any space optimally.

![](_page_2_Picture_19.jpeg)

B 2000 storage bank

Systems for distribution of rare gases

- High-pressure reducing panels for the constant regulation of outlet pressure.
- Filling panels in numerous standardized versions, also in stainless steel for outdoor installations.

![](_page_2_Picture_24.jpeg)

Filling panel on outlet side

![](_page_2_Picture_26.jpeg)

High-pressure reducing panel

![](_page_2_Figure_28.jpeg)

## **Compressor technology**

Gas compressor systems from BAUER characteristically distinguish themselves through their easy integration and turnkey unit concepts.

## **FULL CONTROL**

Two different compressor controls are available for the BAUER Helium compressors.

### **B-CONTROL MICRO**

- > Standard on air-cooled compressors.
- > Modern, easy-to-use SPC control.
- Provides for problem-free control of the complete system from the gas balloon to the storage system, as well as connection to external on-off signal transmitters.

![](_page_3_Picture_10.jpeg)

Compressor control B-CONTROL MICRO

### **B-CONTROL II**

- > Standard on water-cooled compressors.
- > The B-CONTROL II is an enhanced version of the basic control B-CONTROL MICRO.
- > The menu navigation is made simple and easy to read and use via the colour touchscreen display.
- > Standard interfaces such as USB, Ethernet and Modbus are incorporated.
- > The integrated function of interconnected operation allows basic load changes or a duty/standby operation of up to four.

![](_page_3_Picture_18.jpeg)

![](_page_3_Picture_19.jpeg)

IK 100/IK 120 Block

IK 15.1/IK 18.1 Block

## **ECONOMIC OPERATION**

- > For particularly economic operation, our units are rigorously optimized for gas tightness.
- Gas from the safety valves is returned to the intake buffer vessel and lost gas from the automatic condensate drain system is returned to the condensate collecting vessel, thus creating a closed system and eliminating gas loss.

## **OUTSTANDING QUALITY**

- BAUER ensures maximum quality by extensive quality assurance monitoring during and after production according to the requirements defined in DIN EN ISO 9001.
- > Each single compressor block is tested in continuous running and each compressor unit undergoes an extensive functionality and safety test.

### SOPHISTICATED SOUND INSULATION

- Compressors with Super Silent enclosure are equipped with a labyrinth system for breaking the airborne noise in order to assure optimal noise reduction.
- > The integrated fan ensures a targeted and effective cooling within the unit housing. The transmission of structure-borne noise is effectively reduced by impedance discontinuities.

![](_page_3_Picture_31.jpeg)

IK 23 Block

BK 23 Block w

![](_page_4_Picture_1.jpeg)

## **Compressor block technology**

Over 65 years of experience in the construction of medium and high pressure systems are the base for the legendary reliability and longevity of BAUER compressor blocks.

## **EFFICIENT COOLING**

### AIR-COOLED COMPRESSORS

The intelligent cooling system with over-sized coolers, combined with large surface area ribbed cylinders, ensure optimum cooling of each compression stage.

### WATER-COOLED COMPRESSORS

- As a result of targeted water cooling of the interstage and afterstage coolers, and also the valve heads, almost 85 % of the heat produced can be absorbed by the cooling water.
- The stainless steel heat exchanger provides optimum cooling for the compressor, ensuring excellent functionality and long life and maximizing the efficiency of the entire compressor system.

### MINIMUM OPERATING COSTS

- Long maintenance intervals for valve checking and oil changes keep the operating costs for the unit at a minimum and increase the availability.
- Optimum flow cross-sections and valve locations ensure efficient cylinder filling and minimal cylinder clearance of the unit with low power consumption and high efficiency.
- > The extremely robust industrial roller bearings are rated for continuous operation and heavy-duty operating conditions.

## FOR RARE GAS

- > The pressure-resistant crankcase on the blocks GIB 23 to GIB 52 prevents gas losses by blow-by and at the same time increases the oil tightness.
- The compression ratios in the compressor block are specially optimized for low compression temperatures.
- > Compression fittings on the high-pressure side ensure optimum gas tightness.

![](_page_4_Picture_18.jpeg)

*Bionics serve as a model: Computer optimized crankcase construction (FEM)* 

![](_page_4_Picture_20.jpeg)

ater cooled

## The air-cooled unit ranges

The air-cooled rare gas compressors from BAUER are specially suited to gases like helium and argon, so that the best possible efficiency is achieved. Gas losses are minimized by returning gas from the safety valves (blowby gas) to the intake buffer vessel, returning lost gas from the automatic condensate drain system to the condensate collecting vessel and enclosing the safety valves in a housing.

The easy-to-use B-CONTROL MICRO controls the complete system including monitoring of intake pressure, final pressure, temperature and the optional saturation of the filter cartridges.

![](_page_5_Picture_5.jpeg)

VERTICUS 5, rare gas version, open version

The VERTICUS 5 is a classic from BAUER and is the optimal version for the compression of rare gases.

- > An intake buffer vessel and condensate collection vessel are already installed on the combination base frame and plumbed ex factory.
- > A V-belt drive uses an electric motor.
- > According to customer requirements, the units can be delivered open or in Super Silent design.
- > Space-saving integration of a cartridge filter system P61 or P81 into the unit is possible.
- > To increase the life span of the filter cartridges, the refrigeration dryer B-KOOL can be installed.
- > Vibration-optimized unit concept permits installation without the use of a foundation.

The compressors of the range G 22 to G 25 in horizontal design make an impression with their proven compressor blocks and closed gas circuit.

- > Automatic condensate drain device with integrated unloaded start and condensate collecting system.
- > Intake buffer and condensate collection vessel for separate installation next to the unit.
- > V-belt drive using an electric motor of efficiency class IE 2.
- The compressor is completely mounted ready for use<sup>1</sup> on base frame with anti-vibration rubberbonded metal shock mounts for installation without the use of a foundation.
- > According to customer requirements, the units can be delivered open or in Super Silent design.
- > Use of separate air and gas purification systems is possible.

<sup>1</sup> As an option, a basic version is available

![](_page_5_Picture_22.jpeg)

G 25.9-45, open version

![](_page_6_Picture_1.jpeg)

## **Dimensions and configurations**

VERTICUS 5 Range,

Dimensions in mm (approx.): Length: 2350 Width: 1040 Height: 1665

#### G 22 Range,

Dimensions of the unit in mm (approx.): Length 2140 Width: 720 Height: 1250

#### G 23 Range,

Dimensions of the unit in mm (approx.): Length 2260 Width: 865 Height: 1315

#### G 25 Range,

Dimensions of the unit in mm (approx.): Length 3020 Width: 1300 Height: 1525

## **Technical data**

| Model  | F.A.D <sup>1</sup> |      |     | Number<br>of<br>stages | Speed             | Motor<br>power | Power<br>consumption <sup>2</sup> | Net<br>weight<br>approx. |  |  |  |
|--|--------------------|------|-----|------------------------|-------------------|----------------|-----------------------------------|--------------------------|--|--|--|
|  | l/min              | m³/h | cfm |                        | min <sup>-1</sup> | kW             | kW                                | kg                       |  |  |  |
| VERTICUS 5 Range, 90 to 220 bar / 1300 to 3200 psig  |                    |      |     |                        |                   |                |                                   |                          |  |  |  |
| G 100-3-5  | 85                 | 5    | 3   | 3                      | 900               | 3              | 2                                 | 535                      |  |  |  |
| G 120-4-5  | 130                | 8    | 5   | 3                      | 900               | 4              | 3                                 | 540                      |  |  |  |
| G 120-5,5-5  | 175                | 10,5 | 6   | 3                      | 1250              | 5,5            | 4                                 | 555                      |  |  |  |
| G 15.1-7,5-5   | 300                | 18   | 11  | 4                      | 880               | 7,5            | 6                                 | 620                      |  |  |  |
| G 15.1-11-5  | 400                | 24   | 14  | 4                      | 1230              | 11             | 8                                 | 650                      |  |  |  |
| G 18.1-15-5  | 520                | 31,2 | 18  | 5                      | 1470              | 15             | 12                                | 670                      |  |  |  |
| VERTICUS 5 Range, 220 to 350 bar / 3200 to 5000 psig |                    |      |     |                        |                   |                |                                   |                          |  |  |  |
| G 15.1-7,5-5   | 300                | 18   | 11  | 4                      | 880               | 7,5            | 6                                 | 620                      |  |  |  |
| G 15.1-11-5  | 400                | 24   | 14  | 4                      | 1230              | 11             | 9                                 | 650                      |  |  |  |
| G 18.1-15-5  | 520                | 31,2 | 18  | 5                      | 1470              | 15             | 13                                | 670                      |  |  |  |
| G 22 - G 25 Range, 90 to 220 bar / 1300 to 3200 psig |                    |      |     |                        |                   |                |                                   |                          |  |  |  |
| G 22.0-18.5  | 720                | 43   | 25  | 4                      | 1050              | 18,5           | 14                                | 540                      |  |  |  |
| G 23.1-22  | 840                | 50   | 30  | 4                      | 990               | 22             | 16                                | 700                      |  |  |  |
| G 23.1-30  | 1060               | 64   | 37  | 4                      | 1250              | 30             | 21                                | 770                      |  |  |  |
| G 25.9-45  | 1900               | 114  | 67  | 5                      | 1180              | 45             | 36                                | 1900                     |  |  |  |
| G 25 Range, 220 to 350 bar / 3200 to 5000 psig       |                    |      |     |                        |                   |                |                                   |                          |  |  |  |
| G 25.9-45  | 1650               | 99   | 58  | 5                      | 1050              | 45             | 34                                | 1900                     |  |  |  |

1 Measured acc. to ISO 1217 Values valid for air and nitrogen at 50 Hz Correction factor helium: FAD air x 0.8 Correction factor argon: FAD air x 0.95 Other gases on request

 $^2\,$  At max. final pressure

Values valid for air and nitrogen at 50 Hz Correction factor helium: x 1.06 Correction factor argon: x 1.12

![](_page_6_Figure_15.jpeg)

## The water-cooled unit range

The water-cooled compressors and boosters are optimally suited for installation under circumstances which do not allow for air-cooling. As a result of the targeted water cooling of the interstage and afterstage cooler, and of the valve heads, approximately 85 percent of the heat produced is absorbed by the cooling water.

Normally, the drive is a direct-coupled or V-belt driven solution in horizontal or vertical design. The B-CONTROL II controls the compressor and, as an option, further components or the complete system.

### **HIGHEST RELIABILITY**

- > Simple operation, user friendliness and easy maintenance were the top priorities in the development.
- > The vibration-free running makes installation without a foundation possible.
- > Compression fittings on the high-pressure side ensure optimum gas tightness.

### **BLOCK TECHNOLOGY**

- The pressure-resistant crankcase is provided with a dry sump lubrication for better oil cooling and for inclinations of up to 30°. It is efficient in inhibiting blow-by losses during compression of air and gases with primary pressure.
- > A special piston construction minimizes the usual blow-by. Because of the low losses, a very high efficiency is reached.
- > For efficient reduction of the operating temperature, some block variants are additionally equipped with water cooling for the valve heads.

![](_page_7_Picture_13.jpeg)

GB/GIB 23 rare gas compressor

![](_page_7_Picture_15.jpeg)

Water-cooled valve head

### **FLEXIBLE INSTALLATION**

Both the intake buffer / condensate collection vessel and the B-CONTROL II can be installed on site, independently of the compressor unit. This enables optimized installation even in very confined spaces.

## **Unit configuration**

- The range GB 23/GIB 23 is available in vertical execution with V-belt drive and optionally also with air-cooling.
- > The ranges GIB 24, GIB 26 and GIB 52 are direct-coupled.
- > Standard use of three-phase motors of the energy efficiency class IE 2.

![](_page_8_Picture_1.jpeg)

## **Dimensions and configurations**

### GB 23/GIB 23 range – Vertical design

Dimensions in mm (approx.): Length: 1360 Width: 875 Heigth: 2040

![](_page_8_Picture_5.jpeg)

**GIB 24 range – Horizontal design** Dimensions in mm (approx.): Length: 1990 Width: 1470 Heigth: 1380

![](_page_8_Picture_7.jpeg)

![](_page_8_Figure_8.jpeg)

![](_page_8_Figure_9.jpeg)

## **Technical data**

| Model                     | F.A.D. <sup>1</sup> |       | Intake<br>pressure | Final pressure   |     | Number<br>of<br>stages | Speed | Motor<br>power    | Power con-<br>sumption <sup>2</sup> | Net<br>weight<br>approx. |         |
|---------------------------|---------------------|-------|--------------------|------------------|-----|------------------------|-------|-------------------|-------------------------------------|--------------------------|---------|
|                           |                     |       |                    |                  | min | max                    | Juges |                   |                                     |                          | approx. |
|                           | l/min               | m³/h  | cfm                | bar <sub>g</sub> | bar | bar                    |       | min <sup>-1</sup> | kW                                  | kW                       | kg      |
| Compressor, 90 to 220 bar |                     |       |                    |                  |     |                        |       |                   |                                     |                          |         |
| GB 23.2-22                | 920                 | 55,2  | 32                 |                  |     |                        |       | 1140              | 22                                  | 18                       | 1170    |
| GB 23.2-30                | 1150                | 69    | 41                 | atm.             | 90  | 220                    |       | 1420              | 30                                  | 22                       |         |
| GB 23.2-37                | 920                 | 55,2  | 32                 | atm.             |     | 220                    | 4     | 1140              | 27                                  | 20                       | 1170    |
|                           | 1840                | 110,4 | 65                 | 1                | 150 |                        |       | 1140              | 57                                  | 50                       |         |
| Booster, 25 to 100 bar    |                     |       |                    |                  |     |                        |       |                   |                                     |                          |         |
| GIB 23.8-37               | 2800                | 168   | 99                 | 4                | 25  | 40                     |       |                   |                                     | 20                       |         |
|                           | 3920                | 235   | 138                | 6                | 30  | 50                     | 2     | 1140              | 37                                  | 26                       | 1170    |
|                           | 5050 <sup>3</sup>   | 303   | 178                | 8 <sup>3</sup>   | 40  | 63                     |       |                   |                                     | 33                       |         |
| GIB 23.7-37               | 2060                | 124   | 73                 | 4                | 25  | 40                     |       |                   |                                     | 15                       |         |
|                           | 2900                | 174   | 102                | 6                | 35  | 60                     |       | 1140              |                                     | 21                       | 1100    |
|                           | 3700                | 222   | 131                | 8                | 40  | 80                     | 2     | 1140              | 37                                  | 28                       | 1160    |
|                           | 4530                | 272   | 160                | 10               | 50  | 80                     |       |                   |                                     | 30                       |         |
| GIB 24.20-90              | 9800                | 588   | 346                | 8                | 40  | 80                     | 2     | 1405              | 00                                  | 71                       | 1170    |
|                           | 12000 <sup>3</sup>  | 720   | 424                | 10 <sup>3</sup>  | 50  | 100                    | 2     | 1485              | 90                                  | 87                       | 1170    |
| Booster, 90 to 350 bar    |                     |       |                    |                  |     |                        |       |                   |                                     |                          |         |
| GIB 23.10-37              | 1330                | 80    | 47                 | 2                | 90  | 200                    |       |                   |                                     | 19                       |         |
|                           | 1780                | 106   | 63                 | 3                | 150 | 300                    | 4     | 1140              | 37                                  | 26                       | 1150    |
|                           | 2220                | 133   | 78                 | 4                | 200 | 350                    |       |                   |                                     | 32                       |         |
| GIB 23.12-37              | 1550                | 93    | 55                 | 4,5              | 90  | 200                    |       |                   |                                     | 19                       |         |
|                           | 1970                | 118   | 70                 | 6                | 150 | 300                    | 4     | 1140              | 37                                  | 25                       | 1180    |
|                           | 2530                | 152   | 89                 | 8                | 200 | 350                    |       |                   |                                     | 31                       |         |
| GIB 23.13-37              | 1970                | 118   | 70                 | 8                | 150 | 200                    |       |                   |                                     | 20                       |         |
|                           | 2400                | 144   | 85                 | 10               | 150 | 300                    | 4     | 1140              | 37                                  | 26                       | 1180    |
|                           | 2850                | 171   | 101                | 12               | 200 | 350                    |       |                   |                                     | 31                       |         |
| GIB 24.11-75              | 2200                | 132   | 78                 | 1                | 90  | 200                    |       |                   |                                     | 35                       |         |
|                           | 3200                | 192   | 113                | 2                |     | 300                    | 4     | 1485              | 75                                  | 51                       | 1660    |
|                           | 4200                | 252   | 148                | 3                | 150 | 350                    | -     |                   |                                     | 64                       |         |
| GIB 24.12-75              | 2500                | 150   | 88                 | 4                | 120 | 300                    |       |                   |                                     | 35                       |         |
|                           | 3500                | 210   | 124                | 6                | 150 |                        | Δ     | 1485              | 75                                  | 46                       | 1660    |
|                           | 4500                | 270   | 159                | 8                | 200 | 350                    | 7     | 1405              | /5                                  | 55                       | 1000    |
|                           | 5500                | 330   | 194                | 10               | 220 |                        |       |                   |                                     | 63                       |         |

![](_page_10_Picture_1.jpeg)

## **Technical data**

| Model                    | F.A.D. <sup>1</sup> |      |     | Intake<br>pressure | Final pressure |                | Number<br>of<br>stages | Speed             | Motor<br>power | Power con-<br>sumption <sup>2</sup> | Net<br>weight    |
|--------------------------|---------------------|------|-----|--------------------|----------------|----------------|------------------------|-------------------|----------------|-------------------------------------|------------------|
|                          |                     |      |     |                    | min            | max            | Juges                  |                   |                |                                     | appiox.          |
|                          | l/min               | m³/h | cfm | barg               | bar            | bar            |                        | min <sup>-1</sup> | kW             | kW                                  | kg               |
| Booster, 90              | to 350 b            | ar   |     |                    |                |                |                        |                   |                |                                     | ·                |
| GIB 24.13-55             | 2480                | 149  | 88  | 8                  | 150 350        |                |                        |                   |                | 31                                  |                  |
|                          | 3300                | 198  | 117 | 11                 |                | Л              | 1405                   |                   | 37             | 1500                                |                  |
|                          | 4140                | 248  | 146 | 14                 | 200            |                | 4                      | 1485              | 55             | 43                                  | 1500             |
|                          | 4700                | 282  | 166 | 16                 | 250            |                |                        |                   |                | 47                                  |                  |
| GIB 26.10-132            | 4900                | 294  | 173 | 2                  | 90             | 200            |                        |                   |                | 71                                  |                  |
|                          | 6700                | 402  | 237 | 3                  | 150            | 350            | 4                      | 1485              | 132            | 103                                 | 3350             |
|                          | 8500 <sup>3</sup>   | 510  | 300 | 4 <sup>3</sup>     | 200            | 550            |                        |                   |                | 123                                 |                  |
| GIB 26.12-132            | 5500                | 333  | 196 | 4,5                | 90             | 250            | 4                      | 1485              | 132            | 72                                  | - 3350           |
|                          | 7000                | 420  | 247 | 6                  | 150            | 150<br>200 350 |                        |                   |                | 96                                  |                  |
|                          | 9000                | 540  | 318 | 8                  | 200            |                |                        |                   |                | 110                                 |                  |
|                          | 10200               | 612  | 360 | 10                 |                |                |                        |                   |                | 117                                 |                  |
| GIB 26.13 -132           | 8050                | 483  | 284 | 10                 | 150            | 350            | 4                      | 1485              | 132            | 90                                  | 3350             |
|                          | 9500                | 570  | 335 | 12                 |                |                |                        |                   |                | 104                                 |                  |
|                          | 11000               | 660  | 388 | 14                 | 200            |                |                        |                   |                | 116                                 |                  |
|                          | 11700 <sup>3</sup>  | 702  | 413 | 15 <sup>3</sup>    | 250            |                |                        |                   |                | 121                                 |                  |
| GIB 52.10-315            | 9800                | 588  | 346 | 2                  | 90             | 350            | 4                      | 1485              | 315            | 142                                 | 4800             |
|                          | 13400               | 804  | 473 | 3                  | 200            |                |                        |                   |                | 206                                 |                  |
|                          | 17000               | 1020 | 600 | 4                  |                |                |                        |                   |                | 246                                 |                  |
|                          | 18800               | 1128 | 664 | 4,5                |                |                |                        |                   |                | 262                                 |                  |
| GIB 52.12-250            | 11100               | 666  | 392 | 4,5                | 90             | 250            | 250<br>350<br>4        | 1485              | 250            | 132                                 | -<br>- 4330<br>- |
|                          | 14000               | 840  | 484 | 6                  | 150            | 350            |                        |                   |                | 172                                 |                  |
|                          | 18000               | 1080 | 636 | 8                  | 200 35         |                |                        |                   |                | 220                                 |                  |
|                          | 20400 <sup>3</sup>  | 1224 | 720 | 10 <sup>3</sup>    |                |                |                        |                   |                | 234                                 |                  |
| GIB 52.13-250            | 16100               | 966  | 569 | 10                 | 150            |                |                        |                   |                | 180                                 |                  |
|                          | 19000               | 1140 | 671 | 12                 | 150            | 350            | 4                      | 1485              | 250            | 212                                 | 4330             |
|                          | 22000 <sup>3</sup>  | 1320 | 777 | 14 <sup>3</sup>    | 200            | 1              |                        |                   |                | 233                                 | -                |
| 6Booster, 200 to 420 bar |                     |      |     |                    |                |                |                        |                   |                |                                     |                  |
| GIB 26.5-132             | 6500                | 390  | 230 | 6                  | 200            |                | 4                      |                   |                | 90                                  |                  |
|                          | 8300                | 498  | 293 | 8                  | 250            | 420            |                        | 1485              | 132            | 107                                 | 4330             |
|                          | 9200                | 552  | 325 | 9                  | 250            |                |                        |                   |                | 115                                 |                  |

<sup>1</sup> Measured acc. to ISO 1217 Values valid for air and nitrogen at 50 Hz Correction factor helium: FAD air x 0.8 Correction factor argon: FAD air x 0.95 Other gases on request  $^2\,$  At max. final pressure Values valid for air and nitrogen at 50 Hz Correction factor helium:  $\times$  1,06 Correction factor argon:  $\times$  1,12

<sup>3</sup> Compression of argon not possible at this delivery volume

![](_page_11_Picture_1.jpeg)

## **Our accessories programme for rare gas compression units**

## Mixed gas systems

For a multitude of applications, lower helium concentrations suffice. BAUER offers standardized complete systems which can be flexibly adapted for mixing helium, air and other gases, enabling considerable cost savings.

- In the gas mixer, different gases are mixed together in the required concentrations and stored in an intake buffer vessel.
- > Dew point sensors measure the humidity, oxygen sensors the oxygen proportion within the gas and report the data to the B-CONTROL compressor control.
- If required, the systems can be provided as closed circuits with recovery allowing for still greater savings.

![](_page_11_Picture_8.jpeg)

Gas mixer

# Container and concrete building solutions

(In addition to indoor solutions) Bauer also supplies outdoor systems tailored to local climatic conditions and areas of application.

- > For example, container solutions for mobile use are possible.
- > Concrete buildings are suited for stationary installations.
- The installation contains the compressor with compressor control and air or water cooling, optional air/gas purification, storage systems, gas mixing system and other components.

![](_page_11_Picture_15.jpeg)

Concrete building with incorporated helium compressor with water-cooling

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![](_page_11_Picture_18.jpeg)