

VERTICUS 5 INDUSTRY

COMPRESSOR SYSTEMS FOR NITROGEN



90 - 500 bar

1300 - 7200 psig



Photos: Ralf Deichmann

Aircraft Component Filling with N₂

The heavy duty system with excellent reliability for compressing nitrogen.

The new BAUER B-Control combines fully automatic start-stop-operation with maximum user confidence.

The optional Bauer purification systems offer highest gas purity.

Units available in standard open or Super Silent version.

THE MODULAR-SYSTEM

FIT FOR EVERY APPLICATION

Modern industrial manufacturing requires total safety of production, flexible unit design and effective investments.

The **new modular unit concept** enables every user to choose the **most suitable unit** for his application and to **upgrade** it even **at a later date**.

Upgrading to Super Silent:



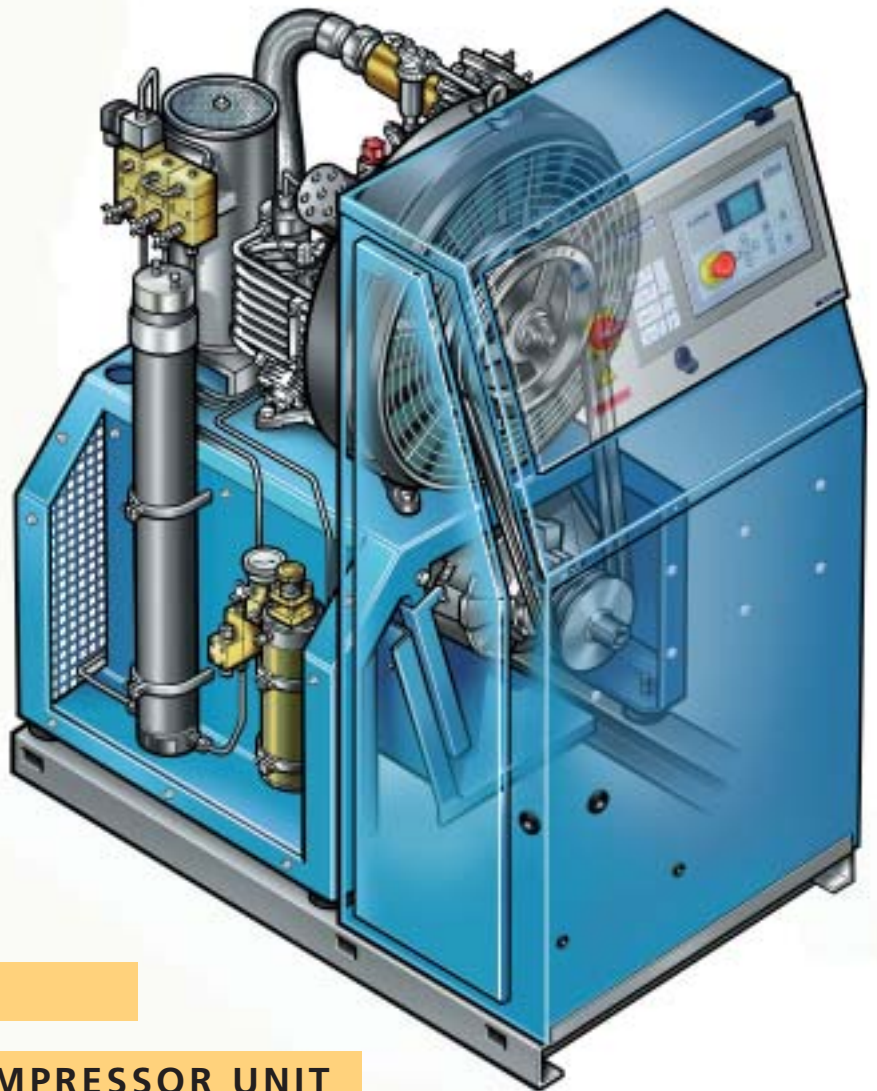
Mount backside of housing



Add lateral parts

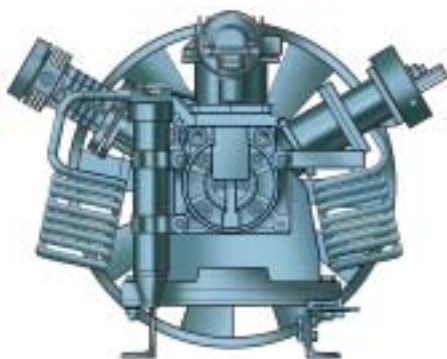


Ready!



THE BLOCK

THE HEART OF THE COMPRESSOR UNIT



The high quality and availability of the block determine function of the unit and smooth production processes.

New driving gears guarantee **reliable** use for **years and years**. Heavy-duty industrial roller bearings with minimum friction are designed for continuous operation.

Piston rings made of hightech polymer in the final stage **minimize wear and tear** of the cylinder surface.

Our advanced valve technology is purpose-made for use with nitrogen.

Intermediate coolers after each stage, **optimized cooling air management** and a perfect compression ratio result in a minimum thermal load.

The **maintenance free** low pressure oil pump with fine strainer guarantees **reliable** lubrication and **least wear** of all moving parts.



PURIFICATION SYSTEMS - TOTAL SECURITY

High pressure nitrogen applications require dry and clean gas to protect customer's downstream system from impurities.

A pressure dew point of -20°C and a residual oil content of ≈ 10 ppm free gas is achieved to guarantee **trouble-free continuous operation**.

The BAUER cartridge filter systems are designed under the aspect of **user-friendliness**. The **economic longlife cartridges** can be easily replaced.

The systems P 61 and P 81 are designed for a space-saving integration in the housing.

Depending on customer's requirements purification systems are available for **maximum pressures of 420 bar (6000 psig)**.

Alternatively to the cartridge systems **Regeneration Dryers** can be used.

B-CONTROL - TOTAL CONTROL

Many industrial processes require remote monitoring and fully automatic operation.

The BAUER B-Control (**PLC control**) allows **free programming** acc. to customer's requirements.

Compressor operation can be regulated via integrated final pressure sensors in the storage cylinders, so that the complete system is operating **fully automatically**.

Operating convenience due to a **big 8-line LCD-display** and free choice of languages (7 languages available).

An optional **CAN-Bus-interface** allows **interconnected operation** of several units, **remote online-monitoring** and **integration** in higher-ranking **control systems**.



SSC - QUIET COLLECTION - CLEAN DISPOSAL

The problem of odours and impurities caused by oil and water condensates arising in every stage of compression can be effectively resolved with the SSC condensate collecting system .

The SSC condensate collecting tank with sound-proofed special filter supplies **odourless exhaust air**, **reduces** the **blow-off noise** during condensate drainage and **prevents pollution** of the compressor unit.

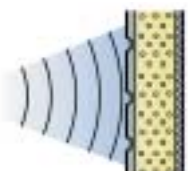
A **serial automatic condensate drain** device is installed in every unit.

SUPER SILENT HOUSING - SILENCE ON DEMAND

Depending on siting criteria noise reduction is mandatory.

All compressor units of the industrial VERTICUS range are available in standard open or Super Silent version **acc. to customer's requirement**.

Site conditions change? No problem! Thanks to the **modular concept** open units can be **upgraded** to **Super Silent** compressors **in next to no time**.

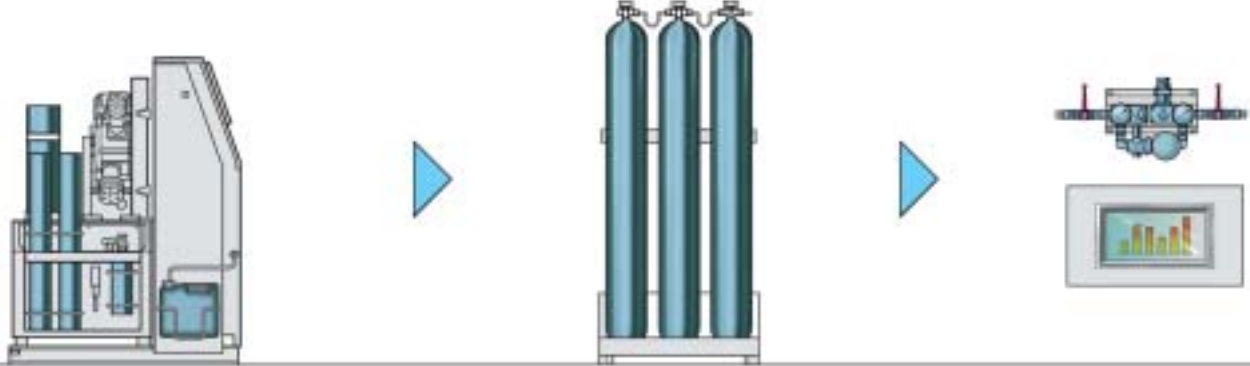


PROCESS SUPPLY SYSTEM

Compression - Purification
Compressor Unit

Storage
HD-Storage Bank

Distribution
Filling panels
Dosing Units



Dimensions in mm	Length	Width	Height
open version:	1140	830	1515
Super Silent version:	1480	830	1515

TECHNICAL DATA

model-designation	Free gas delivery*		number of compr. stages	speed rpm.	motor power kW	power consumption** kW	net weight approx. kg	noise level (super-silent-housing) dB (A)
	l/min	cfm						
GI - range 90 - 350 bar / 1300 - 5000 psig								
GI 100 - 3 - 5	85	3	3	900	3	2,2	335	ca. 72
GI 100 - 4 - 5	125	4,4	3	1270	4	3,3	340	ca. 72
GI 120 - 4 - 5	170	6	3	1200	4	3,7	345	ca. 72
GI 120 - 5.5 - 5	215	7,6	3	1470	5,5	4,7	355	ca. 72
GI 12.14 - 7.5 - 5	300	10,6	4	1390	7,5	6,5	365	ca. 72
GI 15.1 - 7.5 - 5	340	12	4	1050	7,5	6,9	450	ca. 72
GI 15.1 - 11 - 5	420	14,8	4	1320	11	9,6	450	ca. 72
GI 150 - 11 - 5	500	17,7	4	1230	11	10,2	450	ca. 72
GI 180 - 15 - 5	610	21,6	4	1320	15	12	470	ca. 72
GI - range 350 - 500 bar / 5000 - 7200 psig								
GI 15.11 - 7.5 - 5	310	11	4	960	7,5	7	470	ca. 72
GI 15.11 - 11 - 5	420	14,8	4	1320	11	10,4	470	ca. 72
GI 18.1 - 15 - 5	550	19,4	5	1320	15	12,4	470	ca. 72

GIB - range 90 - 350 bar / 1300 - 5000 psig

model-designation	intake pressure range bar _{abs}	Free gas delivery range*		speed rpm	power consumption range kW
		l/min	cfm		
GIB 12.2 - 5,5 - 5	6 - 12	200 - 475	7,1 - 16,8	1230	ca. 3,3 - 5,3
GIB 15.3 - 11 - 5	8 - 11	510 - 750	18 - 26,5	1140	ca. 6,6 - 8,2

* measured with flow meter at 0,8 factor of final pressure (± 5%)
** power consumption at final pressure 350 bar / 5000 psig



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