

### VERTICUS 5 INDUSTRY

### COMPRESSOR SYSTEMS FOR MEDIUM AND HIGH PRESSURE AIR



30 - 500 bar

430- 7200 psig



Photos: Ralf Deichelmann

Turbine valve regulation with HP Air

**The heavy duty system with excellent reliability for compressing air.**

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

The optional Bauer purification systems offer highest air 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

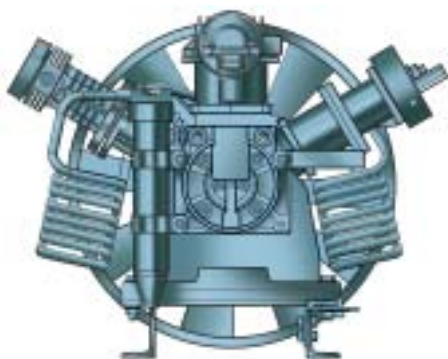


Ready!



## 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 heavy duty use with industrial air.

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

**Compressed air is contaminated with humidity impurities, but has to be dry and clean to protect customer's downstream system.**

**Pure and dry air** is achieved by BAUER high pressure purification systems, reaching a pressure dew point of  $\leq -20^{\circ}\text{C}$  and a residual oil content of  $\leq 10 \text{ ppm}_V$  free air to guarantee **trouble-free continuous operation**.

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

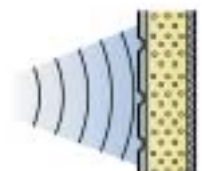
A serial **automatic condensate drain** device is installed in every unit.

### SUPER SILENT HOUSING - SILENCE ON DEMAND

**Depending on siting criteria noise reduction is mandatory.**

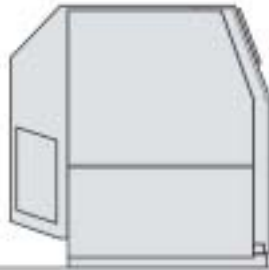
All compressor units of the industrial VERTICUS range are available in standard open or Super Silent version **acc. to customer's requirement**.

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

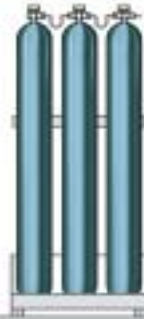


## HP - AIR SYSTEM

### Compression - Purification Compressor Unit



### Storage HD-Storage Bank



### Distribution Filling panels Dosing Units



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

model- designation	F.A.D.*		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						
<b>B - Range 30 - 63 bar / 430 - 920 psig.</b>								
B 12.4 - 4 - 5	215	7,5	3	1420	4	3,5	345	ca. 72
<b>E - Range 64 - 75 bar / 930 - 1100 psig.</b>								
E 12.4 - 2,2 - 5	130	4,5	3	900	2,2	2	335	ca. 72
E 12.4 - 3 - 5	170	6	3	1150	3	2,7	340	ca. 72
E 12.4 - 4 - 5	215	7,5	3	1420	4	3,7	345	ca. 72
<b>E - Range 75 - 90 bar / 1100 - 1300 psig.</b>								
E 100 - 3 - 5	140	5	3	1350	3	2,8	335	ca. 72
E 120 - 4 - 5	215	7,5	3	1420	4	3,7	345	ca. 72
<b>I - Range 90 - 350 bar / 1300 - 5000 psig.</b>								
I 100 - 3 - 5	85	3	3	900	3	2,2	335	ca. 72
I 100 - 4 - 5	125	4,4	3	1270	4	3,3	340	ca. 72
I 120 - 4 - 5	170	6	3	900	4	3,7	345	ca. 72
I 120 - 5.5 - 5	215	7,5	3	1470	5,5	4,7	355	ca. 72
I 12.14 - 7,5 - 5	300	10,6	4	1390	7,5	6,9	365	ca. 72
I 15.1 - 7,5 - 5	340	12	4	1050	7,5	6,9	450	ca. 72
I 15.1 - 11 - 5	420	14,8	4	1320	11	9,6	470	ca. 72
I 150 - 11 - 5	500	17,7	4	1230	11	10,2	450	ca. 72
I 180 - 15 - 5	610	21,6	4	1320	15	12	470	ca. 72
<b>I - Range 350 - 500 bar / 5000 - 7200 psig.</b>								
I 15.11 - 7.5 - 5	310	11	4	960	7,5	7	450	ca. 72
I 15.11 - 11 - 5	420	14,8	4	1320	11	10,4	450	ca. 72
I 18.1 - 15 - 5	550	19,5	5	1320	15	12,4	450	ca. 72

\* 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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