



»»» Premium performance, reliable, and smart:

Oil-free medium/high-pressure air and nitrogen booster



bstAIR

bstAIR 40F Oil-free air and nitrogen booster

For applications that require oil-free medium- to high-pressure air or nitrogen, the bstAIR 40F is the ideal solution. It combines the efficiency advantages of booster technology with premium performance, reliability, and ease of operation. Robust and compact, it operates at outlet pressures of 15-40 bar with an FAD of 24-397 m³/hr for industries such as chemical, petrochemical, electronics, semiconductor, food & beverage, general industry etc.



Top performance

- Guaranteed oil-free compression
- Higher compression efficiency
- Continuous 24/7 operation
 - Maintain gas purity
- Capable to handle extreme fluctuation of gas demand



Excellent reliability

- Lower mechanical stress
- Consistent, reliable lubrication
- Robust design with casting iron pump block
 - Lower startup load



Easy to use

- Intuitive touchscreen controller
- Real-time monitoring- ICONS
 - Easy installation- Plug-and-play design
 - Multiple booster controlling-ECO6i
- 4000-Hour service interval

»»» Class 0 oil-free air

Critical applications and industries such as food and beverage require clean, oil-free compressed air. Only Class 0 compression guarantees that no additional oil is introduced during the compression process.

The Class 0 oil-free bstAIR 40F booster gives you...

Cleaner output: ensures the same quality as the intake gas.

No risk of oil contamination: eliminates the risk of after-treatment failure.

Simplified installation: no need for extra oil filters.

Reduced system pressure drop: no extra oil filter that can cause pressure loss.



»»» Outlet oil content level ISO 8573-1:2010

Class	Total oil Concentration
	mg/m ³
0	As specified by the equipment user or supplier and more stringent than Class 1.
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5

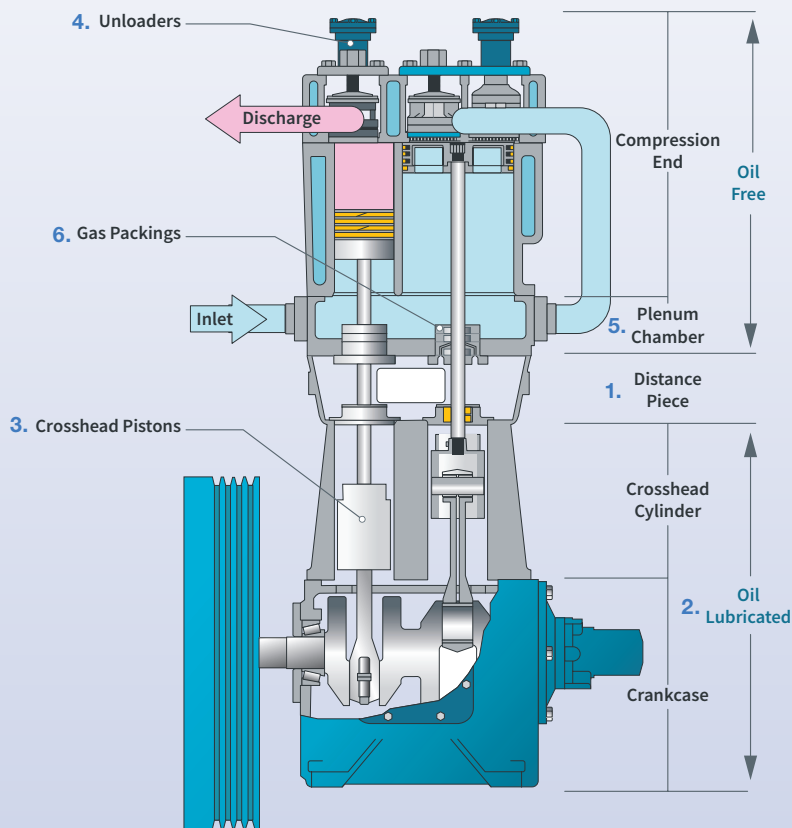
Class 0
Oil-free compression
Class 0

Technically oil-free
Oil-injected
compression + after-
treatment
Class 1

Food-grade oil
Oil-injected
compression
+ food-grade liquid
≤ Class 1

Unique pump block design

The pump block is the heart of a piston compressor. It defines the compressor's performance. The bstAIR 40F's pump block is designed with premium features and exclusive components:



- 1. Distance piece:** separates oil-free and lubricated parts to guarantee oil-free compression.
- 2. Oil pump:** improves lubrication efficiency to enhance machine reliability.
- 3. Crosshead:** extends component lifespan and reliability by eliminating side loads, reducing stress on connecting rods and the crankshaft.
- 4. Load/unload:** ensures application flexibility while minimizing tank size and initial investment.
- 5. Plenum chamber:** inlet connects with the back of the piston to avoid blow-by gas losses.
- 6. Gas packing and positive plenum pressure:** maintain feeding gas purity.

DSI

To simplify on-site installation, eliminate the risk of undersized tanks, and handle extreme demand fluctuations, the bstAIR 40F offers an optional DSI system. The system includes:

- **Integrated inlet filter:** ensures inlet gas quality.
- **Integrated outlet filter:** maintains gas quality at outlet.
- **Integrated low- and high-pressure tanks:**
 - Complete, plug-and-play solution.
 - Proper alignment of compressor, booster, and tank.
 - Compact design with small footprint.
- **Internal circulation:** reduces load/unload cycles, enabling smooth operation during high flow fluctuations.



Intuitive control

The ES4000^T controller offers you all the control, monitoring and connectivity features you want and need:

- Large 4.3" color touchscreen display
- 30+ languages
- Warning indications and shutdown alarms
- Service status and schedule indication
- Online visualization of running conditions

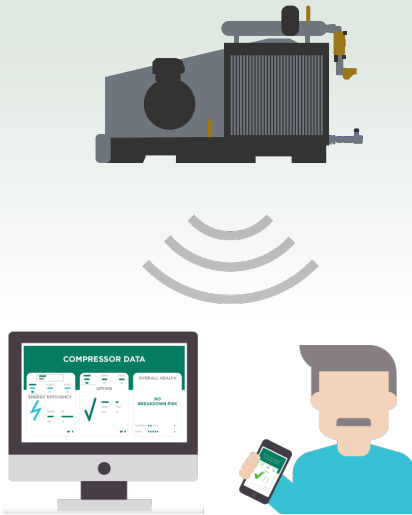


ICONS

Increased uptime, powered by ICONS

With the Intelligent CONnectivity System (ICONS), you get data and insights from your machines delivered to your computer, tablet or smartphone.

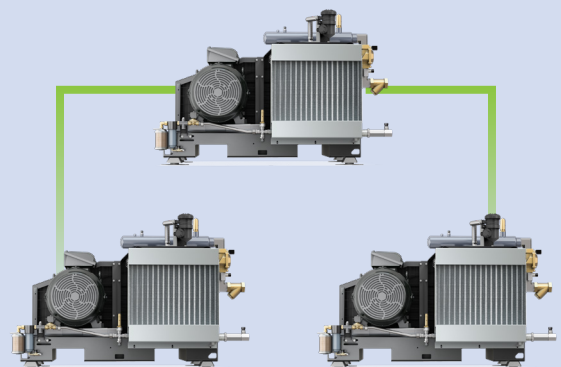
- Get notified by text or email whenever your machine requires your attention.
- Control your maintenance costs and ensure a longer machine life.
- Increase the reliability of your machine by identifying problems before they become a threat to the continuity of your production



Enhance your air system performance with the ECO6i

Are you operating multiple boosters? Synchronize your machines and increase the reliability of your air supply with the ECO6i controller solution. One single touchscreen display gives you a host of air system management options. This includes narrowing down the operating pressure band for maximum energy savings. You can also equalize the running hours of your boosters to save on maintenance costs.

ECO6i



»»» Built for oil-free high-pressure performance

- 1 **Two-stage compression reduces** the load on each stage
- 2 **Cast iron pump block** for enhanced machine durability
- 3 **IE3 motor** optimizes energy efficiency
- 4 **Motor sled** reduces service time
- 5 **Forklift slots**
- 6 **On-board cubicle** for plug-and-play installation
- 7 **Emergency stop**
- 8 **Open frame** for easy maintenance
- 9 **Cooling fan** maintains stable pump block temperature



»»» A range of medium- to high-pressure applications

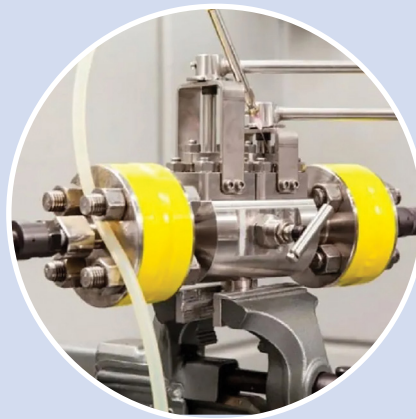
The bstAIR 40F is the right choice for industries and applications where clean, oil-free air or nitrogen is critical to quality and safety:

Industries

- Chemical
- Petrochemical
- Electronics
- Semiconductor
- Metal fabrication
- Food & beverage
- Other general industry

Applications

- Laser cutting
- Pressure testing
- PET bottle blowing
- Back-up air
- Blanketing
- Surge air
- Autoclave



Technical specifications

Model	Motor power		Inlet pressure		Outlet pressure		Maximum FAD@50Hz			Noise	Dimensions (LxWxH)	Net Weight		
	kW	hp	barg	psig	barg	psig	l/s	cfm	m ³ /hr	dBA	mm	kg		
bstAIR 5A - 40F	4	5	5-10	72-145	15-40	218-580	6.8	14	24	81	1120x1220x1151	457		
bstAIR 5B - 40F	4	5					9.2	19	33	81				
bstAIR 10 - 40F	8	10	5-7	72-100			17.1	36	62	81	1120x1220x1401	618		
bstAIR 15A - 40F	10	15					23.0	49	83	81				
bstAIR 15B - 40F	10	15					30.0	63	108	81				
bstAIR 20 - 40F	15	20					38.0	80	137	84	1324x1300x1467	984		
bstAIR 30A - 40F	23	30					46.0	97	166	84				
bstAIR 30B - 40F	23	30					61.7	130	222	84				
bstAIR 40 - 40F	30	40					5-7	72-100	75.0	159	270	84	1433x1600x1608	1387
bstAIR 50 - 40F	37	50							93.0	197	335	84		
bstAIR 60 - 40F	45	60	110.3	233	397	84								

Notes:

- Specifications applicable to open-frame model
- FAD is based on inlet pressure @ 7 Barg & outlet pressure @ 40 Barg
- FAD is tested based on ISO 1217 Ed4 2009
- Noise LP @ 4m

Options

- DSI
- ECO6i



bstAIR 40F
Air and Nitrogen
Boosters

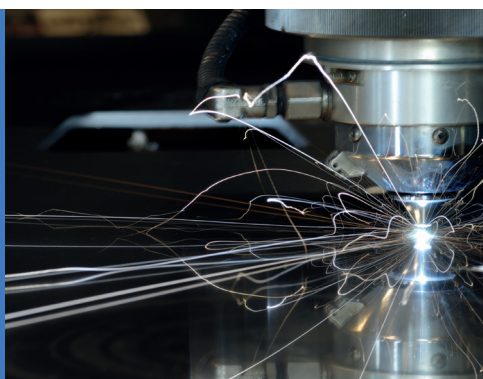
bstAIR



- A quality product and **technology you can trust**
- A **high-performance booster** that gives you **absolutely clean, oil-free air**
- **Reliable engineering** that ensures uptime and a long lifetime
- **Smart, remote and central control** for ease of use and optimal operation



Increase your profits and improve your company's image



Contact your local sales representative now!

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