BAVARIA
KOMPRESSOREN



Bavaria Fun2 110l
Bavaria Nautic 150l
Bavaria Fun Marine 110l
Bavaria Nautic Marine 150l
Bavaria Sports
Bavaria Pro
Bavaria Pure Power
Bavaria TFI

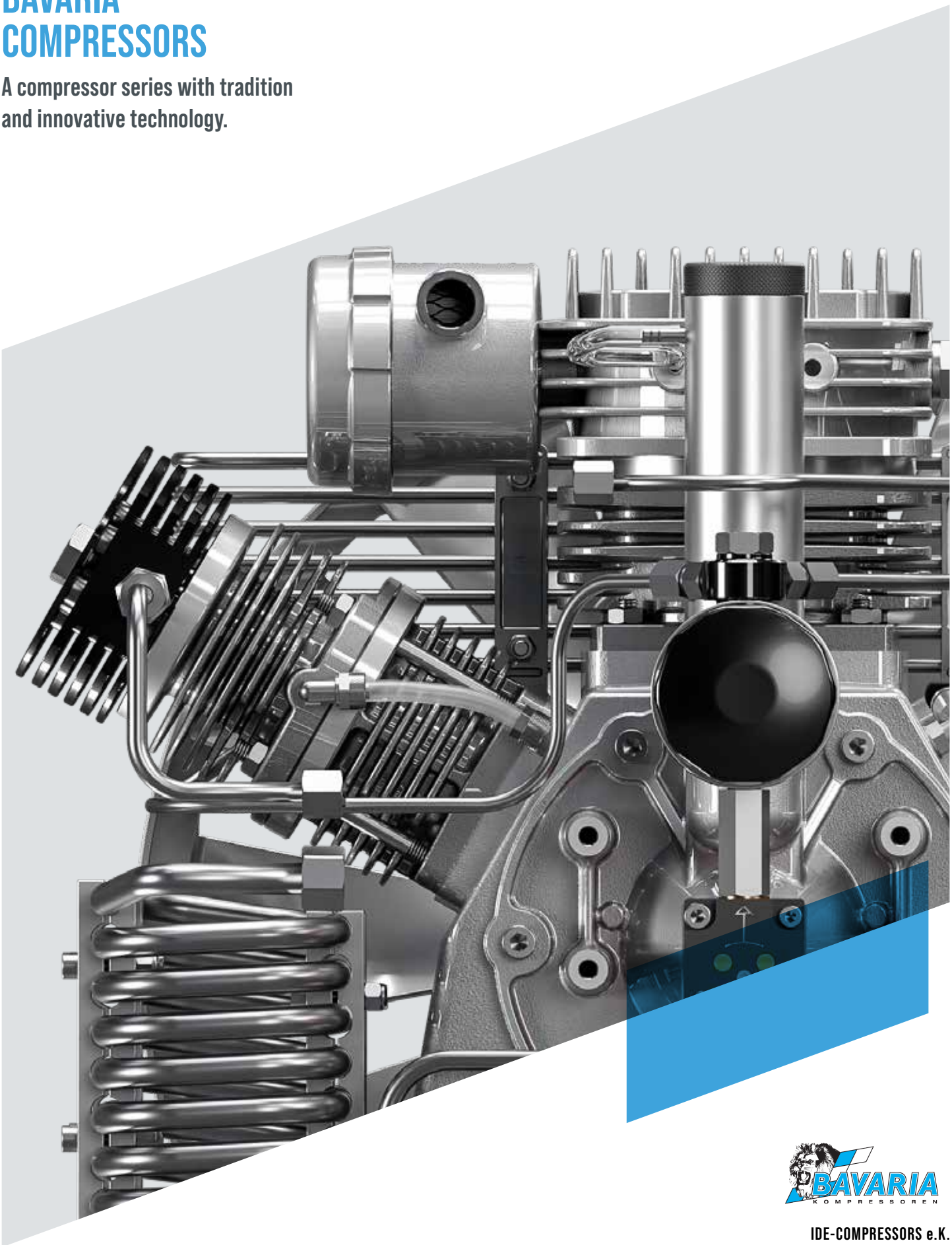
PRODUCT CATALOGUE

2025

made in BAVARIA

BAVARIA COMPRESSORS

A compressor series with tradition and innovative technology.



BAVARIA KOMPRESSOREN

IDE-COMPRESSORS e.K.
83098 Brannenburg, Germany

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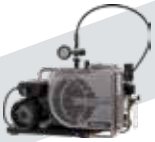
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BAVARIA FUN2 110L

One of the most compact bestsellers among portable breathing air compressors

made in BAVARIA

In use for 10 years - over 3000 devices sold speak for themselves. For the anniversary: 5 years full warranty + 1 year maintenance kit for free!

Continuous further developments are redefining the state of the art: highly efficient, thanks to optimised cooling air routing, modern materials and smart design - light, compact and mobile.

Versatile use: Whether on yachts, liveaboards, in fire engines or THW vehicles - ideal for breathing air and breathing protection applications, paintball, shooting sports or motor sports.Fits in any car boot and can be easily transported by one person.

Optional: The AIRSAVE BASIC microcomputer for optimised filter service life and service monitoring.

If you need clean breathing air that is mobile, safe and reliable, you should opt for the FUN2 110L - with a 5-year full guarantee.





5
5 years
EU warranty

4-Takt – Benzinmotor 6.0 Hp
Die Kompressorvariante mit 4-Takt-Benzinmotor bietet mobile Unabhängigkeit vom Stromnetz – ideal für den flexiblen Einsatz im Gelände.

2.2 kW – Elektro-Motor
Alle unsere Modelle mit Elektroantrieb sind wahlweise mit unterschiedlichen Spannungen und Frequenzen erhältlich.

ECO friendly



Compressor block IKB 110

On the market for over a decade, proven and appreciated a thousand times over - highly efficient thanks to continuous further development.

Optimised valves, pistons, a free-floating piston in the 3rd stage, special cylinder heads with reduced dead space and particularly effective cooling ensure over 10 % more power with the same drive power to many competitors.

Robustly built, with long maintenance intervals, easy access to all components, oil dipstick for quick checks and many other clever details - one of the world's most popular compressor blocks.



Changeover unit PN PN 300/200 bar

Optional additional equipment for easy switching between 200 and 300 bar filling pressure - ideal for filling breathingair cylinders in both pressure ranges. The maximum operatingpressures are reliably limited by tested, sealed final pressure safety valves. Both ranges switch off automatically as soon as the respective final pressure is reached.



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR high-pressure filling hoses with stainless steel connections and kink protection at both ends ensure safe filling and protection of areas subject to heavy use.

The filling valves have a large venting handwheel and a glycerine-filled stainless steel pressure gauge with rubber cap.

The steady pointer remains easy to read even with strong vibrations - in bar and PSI. A bracket adapter



IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching points reliably prevent overpressure or underpressure.



Pressure retaining check valve

The pressurising non-return valve keeps the dryer permanently pressurised. In combination with the original IDE dryer cartridges, this reliable breathing air treatment in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses cannot multiply in the dryer's high pressure climate - a further contribution to air purity.

*[1] With proper installation, maintenance and operation and a CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



Tested final pressure safety valve

The liftable final pressure safety valve is a central safety element of the breathing air compressor.

it protects the system against dangerous pressure increases in the event of defects in the pressure control mechanism and must be checked regularly in accordance with the operating and maintenance instructions - this is the only way to guarantee its function in an emergency. A functioning safety valve ensures operation and contributes to the longevity of the system.

BAVARIA-BASIC - Monitoring for IDE FT 100-300 dryer systems (optional)

Compact microcomputer for monitoring the operating hours and saturation of the dryer cartridges.

It reliably indicates when cartridges are due for replacement and maintenance intervals with a flashing display and red LED. The 4-digit display shows the remaining capacity in % - the warning starts at 15 %.

Integrated battery indicator and simple, intuitive operation. Can be retrofitted to many systems.

BAVARIA NAUTIC 150L

The compact power minion - really big

made in BAVARIA



Compact. Powerful. Efficient.
Despite being almost identical in size to the FUN 2, the Nautic 150 offers a 40 % higher air output (min. 150 l/min) - with only 20 % more energy consumption. It is the most energy-efficient portable 150 L compressor in the world: robust, durable, reliable - a real bestseller. Thanks to optimised cooling air routing, modern technology and materials, the Nautic achieves maximum efficiency in this performance class.

Highlights & options:

- Available with AC, three-phase or petrol motor Soft start control optional - ideal for on-board operation
- AIRSAVE BASIC micro-computer for filter & maintenance monitoring (optional)
- Areas of application: Yachts, liveaboards, fire brigade, THW, DLRG, Red Cross, paintball, shooting sports, motor sports
- DIN EN 12021:2014-compliant breathing air - mobile, safe & certified
  Fits in any car boot, can be carried by one person

The **Nautic 150** is the first choice whenever the purest breathing air is needed in a mobile and reliable manner



5
5 years warranty

4-stroke petrol engine 6.0 Hp
The compressor version with 4-stroke petrol engine offers mobile independence from the power grid - ideal for flexible offroad use.

2.6 - 3 kW - Electric motor
All our models with electric drive are optionally available with different voltages and frequencies.

ECO friendly



Compressor block IKB 140I

On the market for over a decade, proven and appreciated a thousand times over - highly efficient thanks to continuous further development.

Optimised valves, pistons, a free-floating piston in the 3rd stage, special cylinder heads with reduced dead space and particularly effective cooling ensure over 10 % more power with the same drive power to many competitors.

Robustly built, with long maintenance intervals, easy access to all components, oil dipstick for quick checks and many other clever details - one of the world's most popular compressor blocks.



Changeover unit PN PN 300/200 bar

Optional additional equipment for easy switching between 200 and 300 bar filling pressure - ideal for filling breathingair cylinders in both pressure ranges. The maximum operatingpressures are reliably limited by tested, sealed final pressure safety valves. Both ranges switch off automatically as soon as the respective final pressure is reached.



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR high-pressure filling hoses with stainless steel connections and kink protection at both ends ensure safe filling and protection of areas subject to heavy use.

The filling valves have a large venting handwheel and a glycerine-filled stainless steel pressure gauge with rubber cap.

The steady pointer remains easy to read even with strong vibrations - in bar and PSI. A bracket adapter



IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching points reliably prevent overpressure or underpressure.



Pressure retaining check valve

The pressurising non-return valve keeps the dryer permanently pressurised. In combination with the original IDE dryer cartridges, this reliable breathing air treatment in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses cannot multiply in the dryer's high pressure climate - a further contribution to air purity.

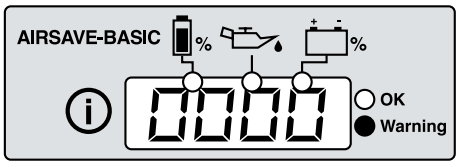
*[1] With proper installation, maintenance and operation and a CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



Tested final pressure safety valve

The liftable final pressure safety valve is a central safety element of the breathing air compressor.

it protects the system against dangerous pressure increases in the event of defects in the pressure control mechanism and must be checked regularly in accordance with the operating and maintenance instructions - this is the only way to guarantee its function in an emergency. A functioning safety valve ensures operation and contributes to the longevity of the system.



BAVARIA-BASIC - Monitoring for IDE FT 100-300 dryer systems (optional)

Compact microcomputer for monitoring the operating hours and saturation of the dryer cartridges.

It reliably indicates when cartridges are due for replacement and maintenance intervals with a flashing display and red LED. The 4-digit display shows the remaining capacity in % - the warning starts at 15 %.

Integrated battery indicator and simple, intuitive operation. Can be retrofitted to many systems.

Systems installed in the compressors

BAVARIA FUN2 110L
BAVARIA NAUTIC 150L



IDE FT 100 Tripple-Plus dryer system

The FT 100 Tripple-Plus dryer system has an integrated oil and water separator. In with the downstream pressure retention non-return valve and the original IDE FT 100 dryer cartridges, the breathing air is optimally treated in accordance with DIN EN 12021*[1]. A tested, sealed final pressure safety valve ensures maximum operational safety. At a housing temperature of 20 °C, the volume of air that can be treated is approx. 140 m^3.

*[1] With proper installation, maintenance and and a maximum CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



Starting current limiter for compressors

Ideal for vehicles, yachts and weakly fused power grids. When AC motors are started, a 6-10-fold starting current is briefly generated, which often trips fuses or overloads generators. The soft starter limits this current and increases it to operating level in a controlled manner - overcurrent is reliably avoided.



Automatic condensate drain (optional)

The IDE automatic condensate drain system drains the condensate produced during air compression fully automatically and time-controlled by microcomputer. The separator tank is emptied after the 2nd and the final separator after the 3rd compressor stage.

Manual draining every 12 minutes is no longer necessary - this process, which could seriously damage the compressor, is thus avoided.

Petrol-powered models use a rechargeable lithium-ion battery for control.



IDE FT 100 dryer cartridges

During compression, a water-oil mixture is produced in the two separators, which is separated manually or automatically. However, a certain amount of residual moisture remains in the air. This flows through the IDE FT 100 Tripple Plus dryer system, where a regularly replaced dryer cartridge removes the residual moisture.

The cartridges are manufactured to a high standard, filled with the best materials and carefully tested. They filter aerosol oil, oil vapours, moisture, carbon and other impurities from the air.

Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 5015 - Bavarian blue

BAVARIA
KOMPRESSOREN



40% MORE AIR PERFORMANCE

20% LESS CONSUMPTION

BAVARIA FUN MARINE 110L

The compact power minion - really big

made in BAVARIA



Compact. Corrosion-resistant. Built for the sea.
Performance, design and quality make the FUN MARINE the perfect choice for use at sea and installation in yachts.

The powder-coated stainless steel frame, a painted aluminium compressor block, stainless steel cooler and stainless steel screws guarantee absolute corrosion resistance - ideal for salty environments. The design is for maritime materials. With outstanding air performance per drive power, it sets standards - Made in BAVARIA. Proven over 3000 times for 10 years.

Highlights & options:

- Maximum energy efficiency thanks to optimised cooling air routing and modern components
- Soft start control (optional) conserves on-board power Available with AC, three-phase or petrol motor
- AIRSAVE BASIC for filter and maintenance monitoring (optional)

Areas of application: Yachts, liveaboards, fire brigades, THW, DLRG, Red Cross, paintball, motorsport and many more.

Compact, easy to transport and ideal for mobile use thanks to its robust design. With a5-year European warranty, the FUN MARINE delivers certified breathing air in accordance with DIN EN 12021:2014 - wherever you are it is needed..

Processing
STAINLESS STEEL - INOX



5
5 years
EU warranty

4-stroke petrol engine 6.0 Hp
The compressor version with 4-stroke petrol engine offers mobile independence from the power grid - ideal for flexible offroad usw.

2.2 kW - Elektric-motor
All our models with electric drive are optionally available with different voltages and frequencies.

ECO friendly



Compressor block IKB 110

On the market for over a decade, proven and appreciated a thousand times over - highly efficient thanks to continuous further development.

Optimised valves, pistons, a free-floating piston in the 3rd stage, special cylinder heads with reduced dead space and particularly effective cooling ensure over 10 % more power with the same drive power to many competitors.

Robustly built, with long maintenance intervals, easy access to all components, oil dipstick for quick checks and many other clever details - one of the world's most popular compressor blocks.



Changeover unit PN PN 300/200 bar

Optional additional equipment for easy switching between 200 and 300 bar filling pressure - ideal for filling breathingair cylinders in both pressure ranges. The maximum operatingpressures are reliably limited by tested, sealed final pressure safety valves. Both ranges switch off automatically as soon as the respective final pressure is reached.



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR high-pressure filling hoses with stainless steel connections and kink protection at both ends ensure safe filling and protection of areas subject to heavy use.

The filling valves have a large venting handwheel and a glycerine-filled stainless steel pressure gauge with rubber cap.

The steady pointer remains easy to read even with strong vibrations - in bar and PSI. A bracket adapter



IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching points reliably prevent overpressure or underpressure.



Pressure retaining check valve

The pressurising non-return valve keeps the dryer permanently pressurised. In combination with the original IDE dryer cartridges, this reliable breathing air treatment in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses cannot multiply in the dryer's high pressure climate - a further contribution to air purity.

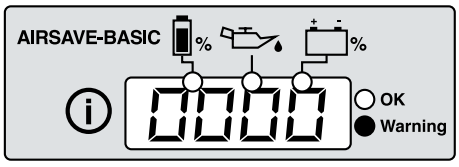
*[1] With proper installation, maintenance and operation and a CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



Tested final pressure safety valve

The tested final pressure safety valve is a central safety element of the breathing air compressor.

it protects the system against dangerous pressure increases in the event of defects in the pressure control mechanism and must be checked regularly in accordance with the operating and maintenance instructions - this is the only way to guarantee its function in an emergency. A functioning safety valve ensures operation and contributes to the longevity of the system.



BAVARIA-BASIC - Monitoring for IDE FT 100-300 dryer systems (optional)

Compact microcomputer for monitoring the operating hours and saturation of the dryer cartridges.

It reliably indicates when cartridges are due for replacement and maintenance intervals with a flashing display and red LED. The 4-digit display shows the remaining capacity in % - the warning starts at 15 %.

Integrated battery indicator and simple, intuitive operation. Can be retrofitted to many systems.

BAVARIA NAUTIC MARINE 150L

The compact power minion - really big

made in BAVARIA

Compact. Powerful. Efficient.
Specially designed for use on yachts and in maritime environments, the Nautic Marine impresses with its absolute corrosion resistance and first-class performance. The powdercoated stainless steel frame, the painted aluminium compressor block, stainless steel cooler and all stainless steel screws make the appliance ideal for use in salty sea air. The design and colour scheme are perfectly to high-quality yacht materials.

Despite its compact design, the Nautic Marine delivers an air output of at least 150 l/min with only 2.6 kW drive power - an unrivalled efficiency value in this class worldwide.



Highlights & options:

- Ideal for yachts, liveaboards & fire engines Soft start control for on-board power supply-friendly operation (optional) Available with AC, three-phase or petrol motor
- AIRSAVE BASIC micro-computer for monitoring filter service life and maintenance intervals (optional)
- Compact, lightweight & transportable by one person Breathing air according to DIN EN 12021:2014

Whether for maritime use, diving or breathing protection applications - the Nautic Marine stands for reliability, energy efficiency and maximum corrosion resistance.

Processing
STAINLESS STEEL - INOX



5
5 years
EU warranty

4-stroke petrol engine 6.0 Hp
The compressor version with 4-stroke petrol engine offers mobile independence from the power grid - ideal for flexible offroad use.

2.6 - 3 kW – Elektric-motor
All our models with electric drive are optionally available with different voltages
and frequencies.

ECO friendly



Compressor block IKB 140

On the market for over a decade, proven and appreciated a thousand times over - highly efficient thanks to continuous further development.

Optimised valves, pistons, a free-floating piston in the 3rd stage, special cylinder heads with reduced dead space and particularly effective cooling ensure over 10 % more power with the same drive power to many competitors.

Robustly built, with long maintenance intervals, easy access to all components, oil dipstick for quick checks and many other clever details - one of the world's most popular compressor blocks.



Changeover unit PN PN 300/200 bar

Optional additional equipment for easy switching between 200 and 300 bar filling pressure - ideal for filling breathingair cylinders in both pressure ranges. The maximum operatingpressures are reliably limited by tested, sealed final pressure safety valves. Both ranges switch off automatically as soon as the respective final pressure is reached.



IDE - Filling hose and filling device

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The filling valves have a large venting handwheel and a glycerine-filled stainless steel pressure gauge with rubber cap.

The steady pointer remains easy to read even with strong vibrations - in bar and PSI. A bracket adapter



IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching points reliably prevent overpressure or underpressure.



Druckhalte-rückschlagventil

The pressurising non-return valve keeps the dryer permanently pressurised. In combination with the original IDE dryer cartridges, this reliable breathing air treatment in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses cannot multiply in the dryer's high pressure climate - a further contribution to air purity.

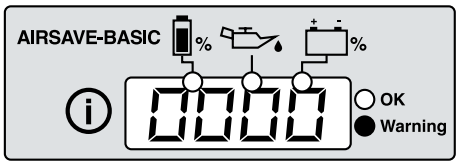
*[1] With proper installation, maintenance and operation and a CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



Geprüftes Enddruck-sicherheitsventil

The liftable final pressure safety valve is a central safety element of the breathing air compressor.

it protects the system against dangerous pressure increases in the event of defects in the pressure control mechanism and must be checked regularly in accordance with the operating and maintenance instructions - this is the only way to guarantee its function in an emergency. A functioning safety valve ensures operation and contributes to the longevity of the system.



BAVARIA-BASIC - Monitoring for IDE FT 100-300 dryer systems (optional)

Compact microcomputer for monitoring the operating hours and saturation of the dryer cartridges.

It reliably indicates when cartridges are due for replacement and maintenance intervals with a flashing display and red LED. The 4-digit display shows the remaining capacity in % - the warning starts at 15 %.

Integrated battery indicator and simple, intuitive operation. Can be retrofitted to many systems.

Systems installed in the compressors

BAVARIA FUN MARINE 110L
BAVARIA NAUTIC MARINE 150L



IDE FT 100 Tripple-Plus dryer system

The FT 100 Tripple-Plus dryer system has an integrated oil and water separator. In with the downstream pressure retention non-return valve and the original IDE FT 100 dryer cartridges, the breathing air is optimally treated in accordance with DIN EN 12021*[1]. A tested, sealed final pressure safety valve ensures maximum operational safety. At a housing temperature of 20 °C, the volume of air that can be treated is approx. 140 m^3.

*[1] With proper installation, maintenance and and a maximum CO_2 concentration in the intake air in accordance with DIN EN 12021-2014.



IDE FT 100 dryer cartridges

During compression, a water-oil mixture is produced in the two separators, which is separated manually or automatically. However, a certain amount of residual moisture remains in the air. This flows through the IDE FT 100 Tripple Plus dryer system, where a regularly replaced dryer cartridge removes the residual moisture.

The cartridges are manufactured to a high standard, filled with the best materials and carefully tested. They filter aerosol oil, oil vapours, moisture, carbon and other impurities from the air.



Starting current limiter for compressors

Inrush current limiter - ideal for vehicles, yachts & weak power grids. The limiter reduces mechanical and electrical stress when starting the compressor. This protects bearings, belts, gears, switches and relays, which extends maintenance intervals and increases the service life.

The function is similar to an electronic valve: when switching on, the high inrush current (normally 6-10 times) is suppressed. The power then increases gently to full operation.

Technical data:

- For compressors up to 2400 W
- Splash-proof housing & socket outlet
- Operating voltage:220-230 V (optional 115 V), 50/60 Hz
- Wear-free & fully electronic
- Also suitable for motors with capacitor



Automatic condensate drain (optional)

The IDE automatic condensate drain system drains the condensate produced during air compression fully automatically and time-controlled by microcomputer. The separator tank is emptied after the 2nd and the final separator after the 3rd compressor stage.

Manual draining every 12 minutes is no longer necessary - this process, which could seriously damage the compressor, is thus avoided.

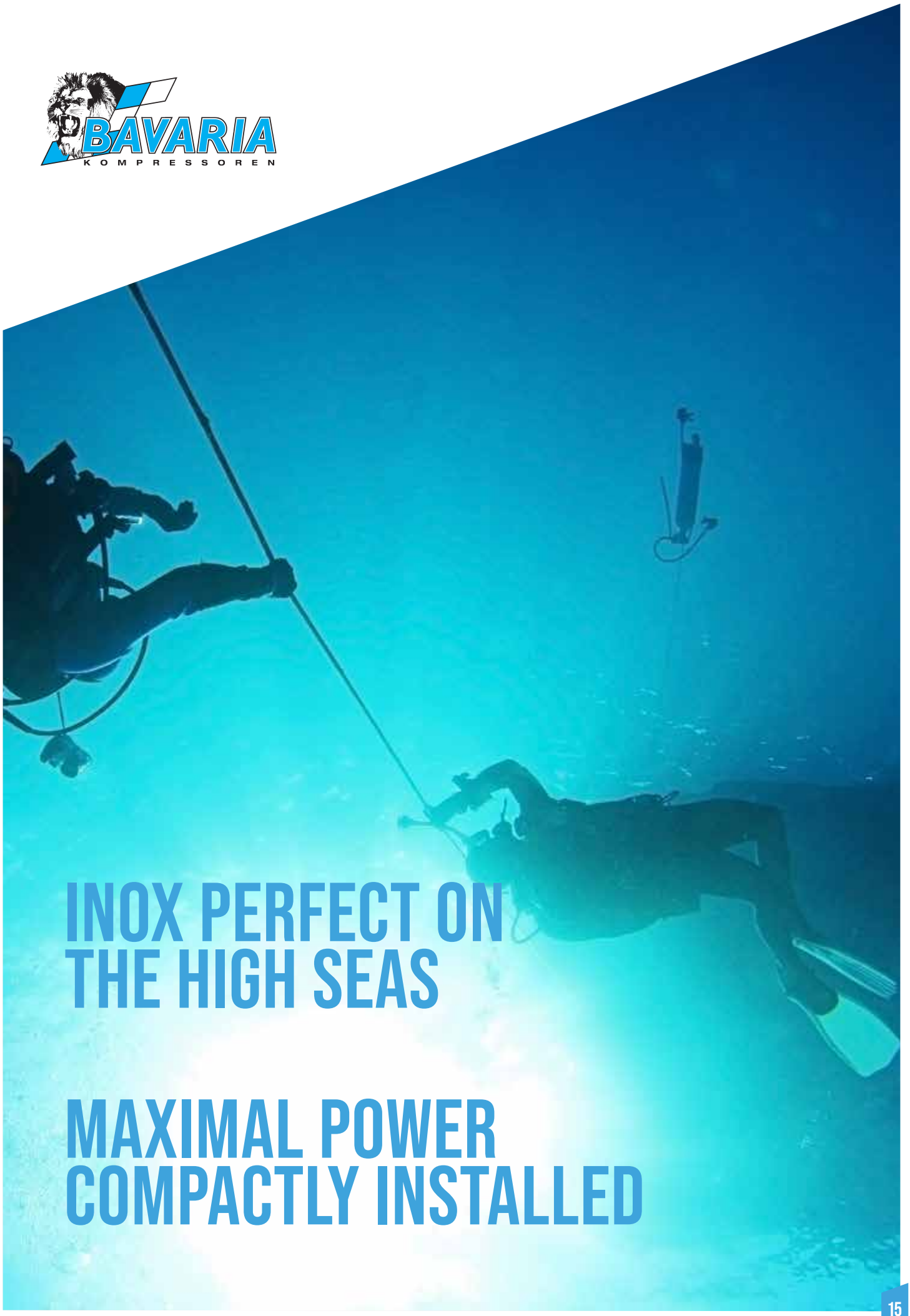
Petrol-powered models use a rechargeable lithium-ion battery for control.

Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 9005 / 9007 - black / grey

BAVARIA
KOMPRESSOREN



INOX PERFECT ON THE HIGH SEAS

MAXIMAL POWER COMPACTLY INSTALLED

BAVARIA SPORTS

Entry into the professional class

High-performance compressor - robust, reliable, durable

Our compressor combines industrial quality with exceptional robustness and designed for professional continuous and short-term operation. Innovative technology and high-quality materials ensure high performance with minimal maintenance.

Thanks to components specially designed for industrial use, it is particularly robust - even under high continuous loads, it delivers consistently reliable compressed air.



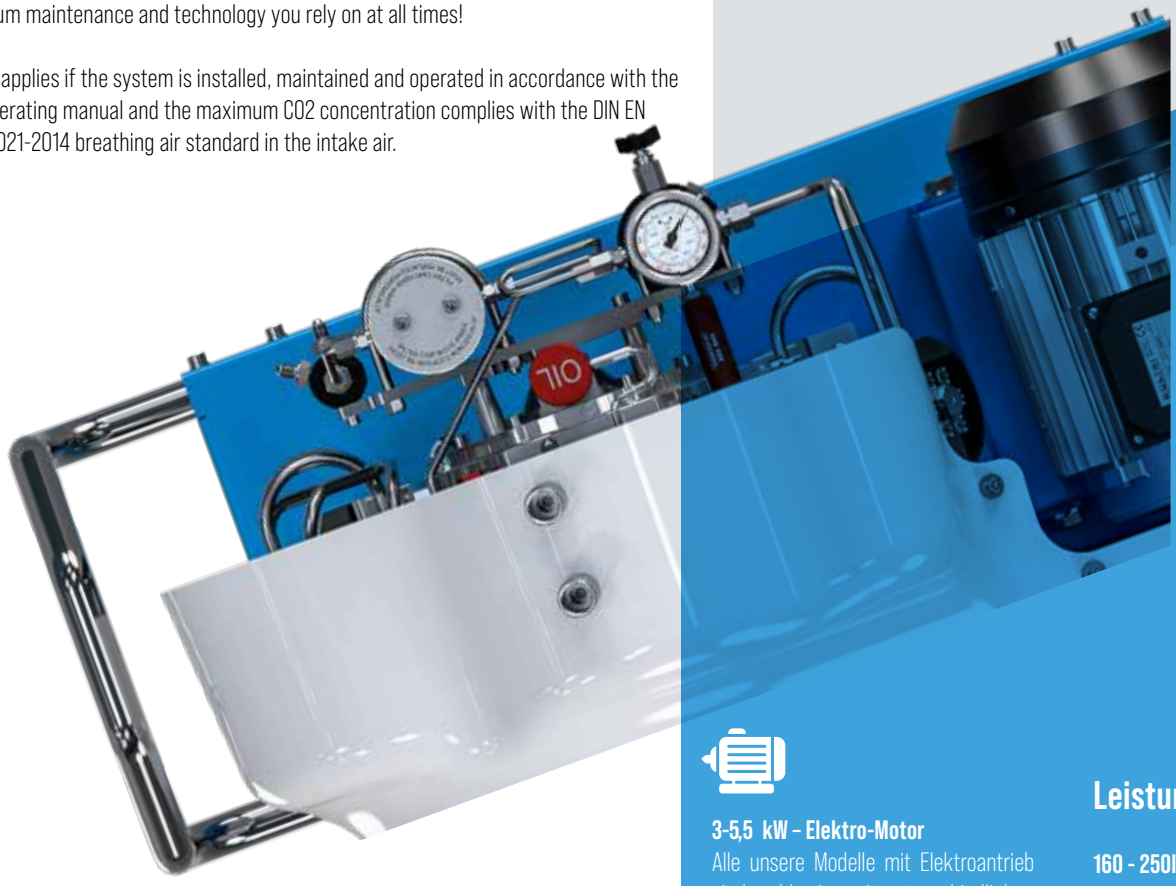
Technical highlights

- Long-life dryer cartridges - Reduce maintenance requirements and ensure consistently high air quality in accordance with DIN EN 12021: 2014*1
- Corrosion protection at the highest level - The sturdy support frame is powder-coated and therefore optimally protected against rust and external influences.
- Innovative aluminium compressor block: Made from high-quality aluminium with Nicasil-coated cylinders - known from racing. This technology offers maximum wear resistance, maximum efficiency and powerful air output.
- Long-life dryer cartridges - Reduce maintenance requirements and ensure consistently high air quality in accordance with DIN EN 12021: 2014*1

Conclusion: Quality that pays off!

With this compressor, you are investing in a professional compressed air solution that can withstand even the toughest demands. Experience maximum performance, minimum maintenance and technology you rely on at all times!

*1 applies if the system is installed, maintained and operated in accordance with the operating manual and the maximum CO2 concentration complies with the DIN EN 12021-2014 breathing air standard in the intake air.



3-5,5 kW – Elektro-Motor

Alle unsere Modelle mit Elektroantrieb sind wahlweise mit unterschiedlichen Spannungen und Frequenzen erhältlich.

Leistungsdaten

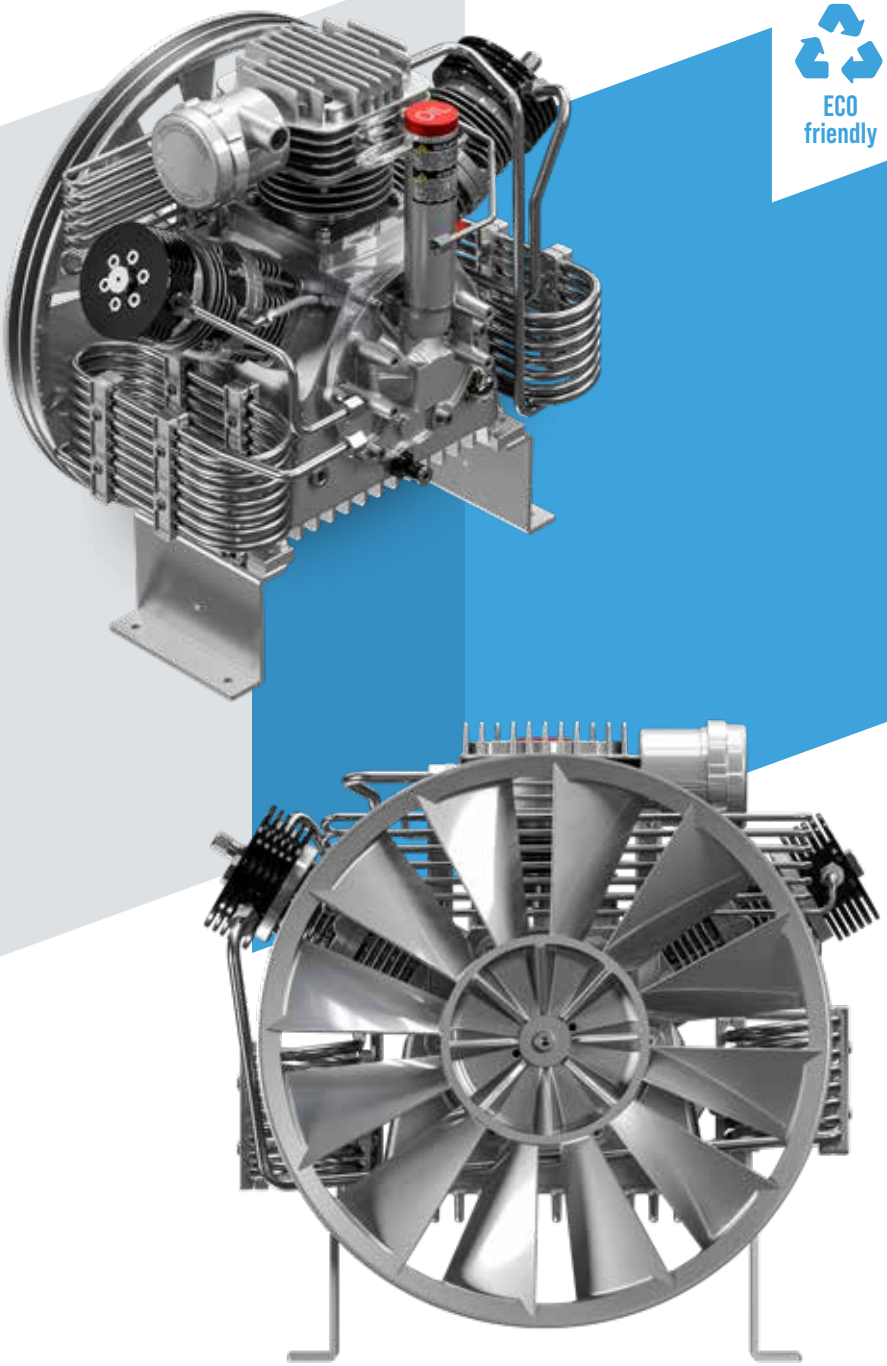
160 - 250l/min Füllleistung

ECO friendly

Compressor block TIKB 120
Theprofessional

Proven for over 30 years, this block stands for maximum efficiency, reliability and durability in professional use. Manufactured from high-strength , with forged crankshaft in large industrial roller bearings, double-bearing aluminium connecting rods, NICASIL-coated cylinders (stage 1+2), freefloating (stage 3) and robust valves for optimum air exchange.

Stainless steel cooler and double lubrication (oil spraying + low-pressure oil pump) ensure low friction and minimised oil content in the compressed air. This results in over 105 % more power with the same drive power compared to many competitors. Long maintenance intervals, easy accessibility and readily available spare parts make it one of the most popular professional compressor blocks worldwide.





IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR hoses with stainless steel connections and kink protection at both ends enable safe filling and reliably protect heavily loaded areas.

The filling fittings are equipped with a glycerine-filled stainless steel pressure gauge and rubber cap - for a smooth display even in the event of vibrations and good readability in bar and PSI. A bracket adapter is included as standard with every compressor.



Pressure retaining check valve

The valve keeps the dryer tank permanently pressurised and, together with the original IDE dryer cartridges, ensures reliable breathing air in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses thrive in warm and humid environment -but they cannot survive in the high-pressure-stable dryer housing.

*[1] With proper installation, maintenance and CO_2 concentration in accordance with DIN EN 12021-2014.



Type-tested safety valve

The IDE safety valve protects the compressor against dangerous pressure increases in the event of defects in the pressure control mechanism.

It must be checked regularly in accordance with the operating and maintenance instructions to ensure that it functions properly in an emergency. Failure can have serious consequences.

The liftable safety valve ensures maximum operating safety andcontributes to the longevity of the system.

Systems installed in the compressor

BAVARIA Sports



IDE Trocknersystem FT 210

The FT-210 dryer system, which together with its downstream pressuriser non-return valve and the original FT-210 dryer cartridges provides an incredible 760m^3 of dryable air, is the only series standard in this compressor class worldwide. guarantees optimum breathing air treatment in accordance with DIN EN 12021:2014 and medical air in accordance with DIN EN 8573- 1:2010. *1.

*1 applies if the system is installed, maintained and operated in accordance with the operating manual and the maximum CO2 in the aspirated air complies with the breathing air standard DIN EN 12021-2014.



IDE FT 210 Dryer cartridges

The moisture (a mixture of water and some oil) that precipitates during the compression of air in the two separators is separated manually or automatically. However, a certain amount of residual moisture always remains in the air. The air pre-dried in the separators then flows through the IDE FT 410 dryer system, in which a dryer cartridge, which is changed at regular intervals, removes this residual moisture from the air.

The dryer cartridges are carefully manufactured, filled with the highest quality materials and then extensively tested. Optimum adaptation to the respective dryer system and requirements ensures that aerosolised oil, oil vapours, moisture, any hydrocarbon compounds and other contaminants are filtered out of the air. he cartridges are available in various designs to ensure that the air is always of optimum quality and purity for every application.





Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 5015 - Bavarian

BAVARIA
KOMPRESSOREN



THE ENTRY THE PROFESSIONAL CLASS

BAVARIA PRO 230 - 380 L/MIN

Powerful. Reliable. Everywhere.



Whether in extreme cold, tropical climates, short-term or continuous operation - BAVARIA PRO masters every challenge thanks to its **extremely robust design and highquality components.**

Technical highlights

- Low-pressure oil pump (max. 3 bar)
- 3- Stage aluminium compressor block with NICASIL-coated, specially hollowed cylinders
- Free-floating piston in the final stage
- Industrial roller bearings, double connecting rod bearings, stainless steel coole
- Corrosion-protected lintel frame - accessories easy to fit

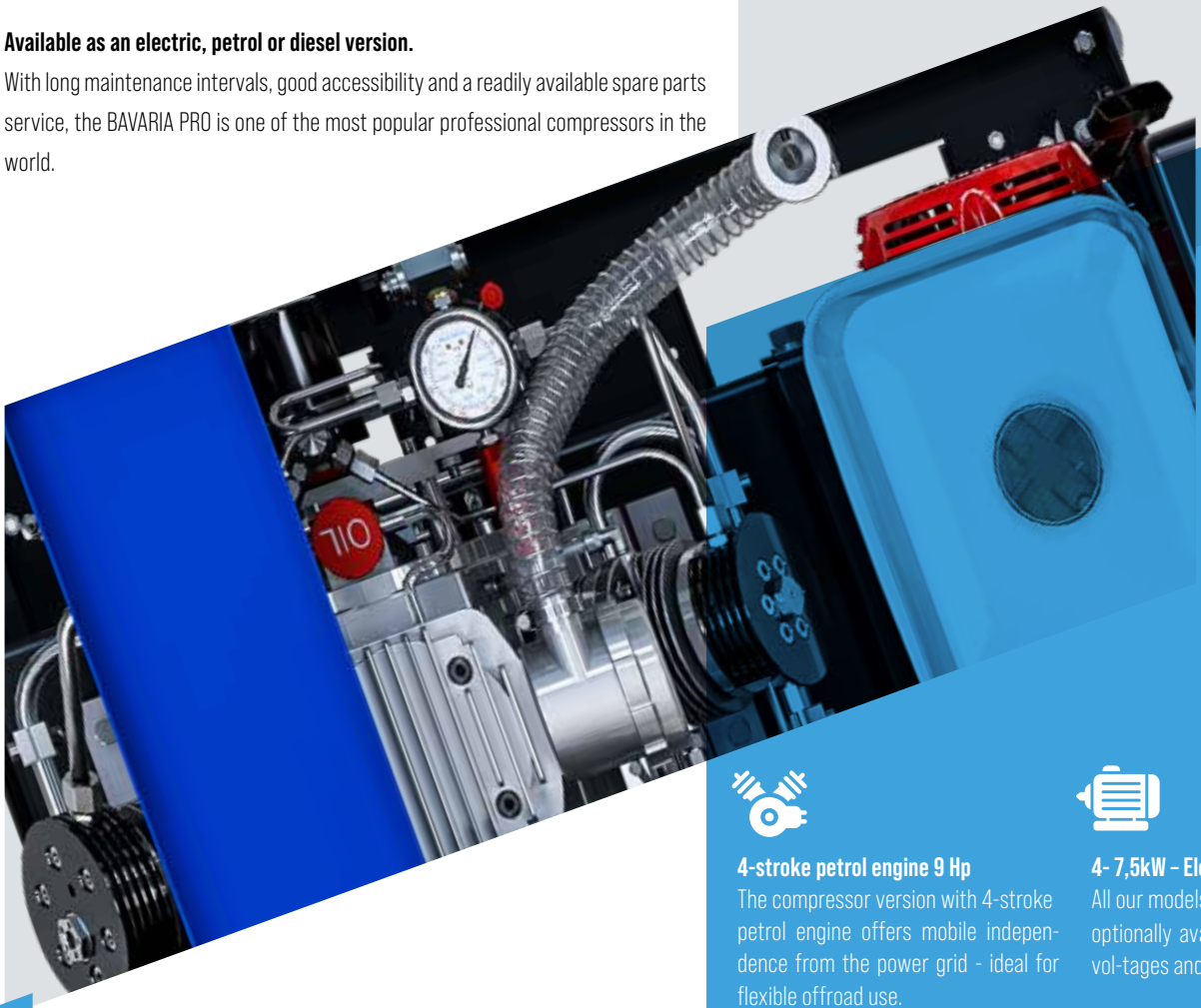
The particularly large **dryer filter system (approx. 1400 m³ capacity)** supplies **icing-safe breathing air** in accordance with DIN EN 12021-2014 and DIN EN 8573-1:2010 - ideal for divers, firefighters and medical applications. **Maximum energy efficiency,** continuously developed technology and **first-class** cooling make the BAVARIA PRO one of the **most efficient diving compressors in the world.**

Areas of application:

Diving centres, fire engines, ships, yachts, racing, paintball and much more.

Available as an electric, petrol or diesel version.

With long maintenance intervals, good accessibility and a readily available spare parts service, the BAVARIA PRO is one of the most popular professional compressors in the world.



4-stroke petrol engine 9 Hp

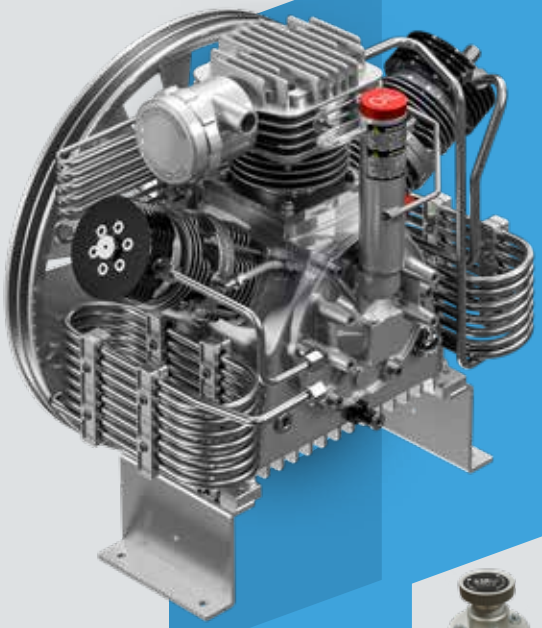
The compressor version with 4-stroke petrol engine offers mobile independence from the power grid - ideal for flexible offroad use.

4- 7,5kW - Elektric-motor

All our models with electric drive are optionally available with different vol-tages and frequencies.

ECO friendly

Compressor block IKB 120 - 125



High efficiency for over 30 years
The proven high-pressure compressor block impresses with its robust design, high performance and long service life. A forged aluminium compressor block, industrial roller bearings, connecting rods with double bearings, NICASIL-coated cylinders, a free-flying piston in stage 3 and a powerful stainless steel cooling system ensure high efficiency.

The double lubrication with oil spraying and low-pressure oil pump significantly reduces the oil content in the air. The result: up to 105 % more power than many competitors - with the same drive power. Long maintenance intervals, good accessibility and readily available spare parts worldwide make this block one of the most popular in the professional sector.

Optional integrated 3-way direct filling ramp





IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching



Type-tested safety valve

The IDE safety valve protects the compressor against dangerous pressure increases in the event of defects in the pressure control mechanism.

It must be checked regularly in accordance with the operating and maintenance instructions to ensure that it functions properly in an emergency. Failure can have serious consequences.

The liftable safety valve ensures maximum operating



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR hoses with stainless steel connections and kink protection at both ends enable safe filling and reliably protect heavily loaded areas.

The filling fittings are equipped with a glycerine-filled stainless steel pressure gauge and rubber cap - for a smooth display even in the event of vibrations and good readability in bar and PSI. A bracket adapter is included as standard with every compressor.



Pressure retaining check valve

The valve keeps the dryer tank permanently pressurised and, together with the original IDE dryer cartridges, ensures reliable breathing air in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses thrive in warm and humid environment - but they cannot survive in the high-pressure-stable dryer housing.

*[1] With proper installation, maintenance and CO_2 concentration in accordance with DIN EN 12021-2014.



AIRSAVE PRO E Monitoring of IDE FT 410-910 dryer systems (optional)

The integrated electronic measuring system permanently monitors the saturation level of the dryer cartridges in the IDE FT 410-910 system using a sensor.

At 80 % saturation there is a visual warning, and when the system is completely saturated it switches off automatically - ideal for ordering cartridges in good time.

Scope of delivery: AIRSAVE PRO ECO control unit - integrated or retrofittable / easy and intuitive to operate / can be retrofitted for systems from other manufacturers

Systems installed in the compressor

BAVARIA PRO







IDE FT 410 dryer system

The FT-410 dryer system, which together with its downstream pressure holder non-return valve and the original FT-410 dryer cartridges provides an incredible 1400m^3 of dryable air, is the only series standard in this compressor class worldwide.

This ensures optimum breathing air treatment in accordance with DIN EN 12021:2014 and medical air in accordance with DIN EN 8573- 1:2010. *1.

*1 applies if the system is installed, maintained and operated in accordance with the operating manual and the maximum CO2 in the aspirated air complies with the breathing air standard
DIN EN 12021-2014.

Automatic condensate drain

The IDE automatic condensate drain automatically drains the condensate produced during air compression during operation using an electronic microcomputer control system.

The separator tank is emptied after the 2nd sealing stage and the final separator after the third stage. The tedious and timeconsuming draining of the condensate at regular intervals of 16 minutes is no longer necessary. Forgetting this important process can lead to serious damage to the compressor.

In the petrol-driven models, this automation is controlled by a rechargeable lithium-ion battery.

IDE FT 410-810 Dryer cartridges

Air compression produces condensate (a mixture of water and oil), which is separated in the separators - however, a certain amount of residual moisture remains in the air.

This pre-dried air flows through the IDE FT 100 Tripple Plus dryer system, where replaceable dryer cartridges remove the residual moisture and pollutants.

The cartridges are manufactured to a high standard, filled with tested materials and for the system. They reliably filter aerosolised oil, oil vapours, moisture, hydrocarbons and other contaminants from the breathing air.



Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 9005 / 5015 - black / blue

BAVARIA
KOMPRESSOREN



FOR PROFESSIONAL CONTINUOUS AND SHORT OPERATION

EXTREMELY ROBUST CONSTRUCTION

BAVARIA PURE POWER

The industrial compressor for Maximum performance and reliability



The Pure Power industrial compressor offers a powerful and reliable solution for demanding applications with high filling requirements. The highly developed compressor system is suitable for a wide range of industrial gas applications as well as for breathing air supply. It impresses with its extremely robust design, high energy efficiency and long service life.

Highest performance in continuous operation

The Pure Power was specially developed for continuous use. Thanks to its low speed, it works with particularly low wear, which extends maintenance intervals and reduces operating costs. High-quality industrial ensure long-lasting resilience - ideal for demanding environments.

Technical highlights

- 4- Cylinder compressor block - for maximum performance and efficiency
- Low-pressure lubrication with newly developed low-pressure oil pump
- Powder-coated steel frame - corrosion-resistant and particularly durable Maximum operating pressure of 420 bar - for a wide range of applications
- Low speed - reduces wear and increases service life
- Large industrial components - for maximum reliability
- Long maintenance intervals & low maintenance costs - for economical operation

Perfectly customised for your application

The compressor unit is supplied ready for connection - for fast, uncomplicated commissioning. It has a separately mountable star-delta control with modern electronics and a separate air treatment console for optimum air quality.

Whether in industry or as a high-performance breathing air system - the Pure Power industrial compressor guarantees a reliable air supply with maximum efficiency.



7.5 kW - Electric motor

All our models with electric drive are optionally available with different voltagesand frequencies.

Performance data

400 - 550l/min filling capacity

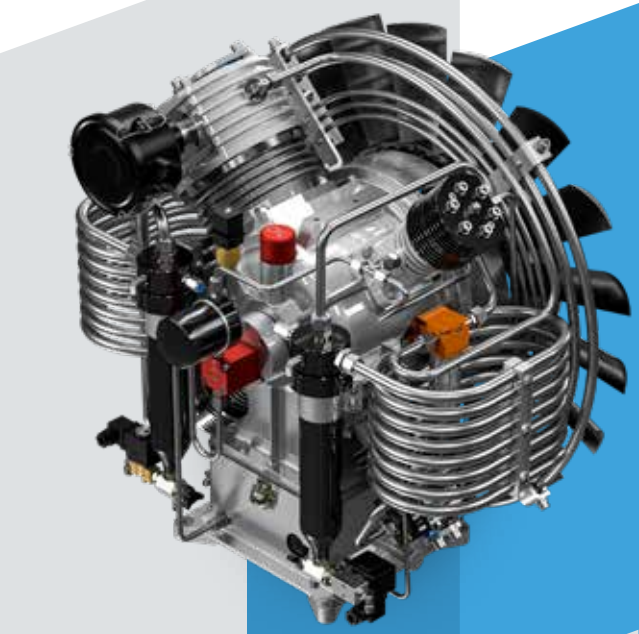
ECO friendly

Compressor block T130 4C

Proven internationally for over a decade, this block impresses with its continuous further development and high efficiency: optimised valves and pistons, free-floating pistons in the 3rd and 4th stages, special cylinder heads with reduced dead space and particularly efficient cooling enable over 15 % more power with the same drive power compared to many competitors.

Robust industrial components, low speed, long maintenance intervals and easy access to all components ensure fast maintenance - e.g. only approx. 55 minutes for a major 1000-hour maintenance.

A block for continuous professional use - appreciated worldwide.







IDE pressure switch

The IDE pressure switch installed as standard in the FUN2 110L downstream of the FT 100 dryer system monitors the system pressure and switches the compressor off automatically when the final pressure is reached - for a safe and constant operating pressure.

Manufactured from corrosion-resistant materials to ensure breathing air purity. Precise switching



Type-tested safety valve

The IDE safety valve protects the compressor against dangerous pressure increases in the event of defects in the pressure control mechanism.

It must be checked regularly in accordance with the operating and maintenance instructions to ensure that it functions properly in an emergency. Failure can have serious consequences.

The liftable safety valve ensures maximum operating



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR hoses with stainless steel connections and kink protection at both ends enable safe filling and reliably protect heavily loaded areas.

The filling fittings are equipped with a glycerine-filled stainless steel pressure gauge and rubber cap - for a smooth display even in the event of vibrations and good readability in bar and PSI. A bracket adapter is included as standard with every compressor.



Pressure retaining check valve

The valve keeps the dryer tank permanently pressurised and, together with the original IDE dryer cartridges, ensures reliable breathing air in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses thrive in warm and humid environment - but they cannot survive in the high-pressure-stable dryer housing.

*[1] With proper installation, maintenance and CO_2 concentration in accordance with DIN EN 12021-2014.



AIRSAVE PRO E Monitoring of IDE FT 410-910 dryer systems (optional)

The integrated electronic measuring system permanently monitors the saturation level of the dryer cartridges in the IDE FT 410-910 system using a sensor.

At 80 % saturation there is a visual warning, and when the system is completely saturated it switches off automatically - ideal for ordering cartridges in good time.

Scope of delivery: AIRSAVE PRO ECO control unit - integrated or retrofittable / easy and intuitive to operate / can be retrofitted for systems from other manufacturers

Systems installed in the compressor

BAVARIA PURE POWER

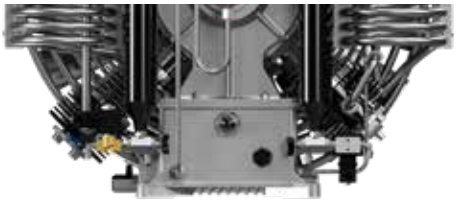


IDE FT 100 Tripple-Plus dryer system

The FT dryer systems are reliable cartridge filter systems for the treatment of clean breathing air. Depending on the cartridge, they adsorb oil vapour, residual moisture, and carbon monoxide from the compressed air.*1 If the manufacturer's specifications are adhered to, the systems meet all the requirements of DIN EN 12021 - and often even exceed them.

Together with the pressurising non-return valve, the original IDE FT dryer cartridges ensure optimum air quality. A tested, sealed final pressure safety valve guarantees maximum operational safety. The volume of air that can be processed at a dryer housing temperature of 20 °C is between 1200 and 2800 m^3.

*1 With proper installation, maintenance and and a permissible CO_2 concentration in the intake air in accordance with DIN EN 12021-2014



Automatic condensate drain (optional)

During operation, the automatic system drains the condensate produced during air compression in a time-controlled manner - controlled by an electronic microcomputer.

The separator tank is automatically emptied after the 2nd -3rd and the final separator after the 4th compressor stage.

Manual draining every 12 minutes is no longer necessary, and with it the risk of compressor damage due to forgetting this important process.



IDE FT 410-810 Dryer cartridges

Air compression produces condensate (a mixture of water and oil), which is separated in the separators - however, a certain amount of residual moisture remains in the air.

This pre-dried air flows through the IDE FT 100 Tripple Plus dryer system, where replaceable dryer cartridges remove the residual moisture and pollutants.

The cartridges are manufactured to a high standard, filled with tested materials and for the system. They reliably filter aerosolised oil, oil vapours, moisture, hydrocarbons and other contaminants from the breathing air.



Storage batteries

Unexpected peak loads often occur in the fire service. Our storage cylinders and storage batteries, recommended with operating pressures of 360 or 420 bar, are suitable for this.

IDE offers modular storage systems from 10 in volume that can be flexibly expanded. All systems are compliant with international pressure vessel directives, the European Pressure Equipment Directive and German law.

- Stationary steel cylinders or transport containers
- Bottle size: 50 litres
- Carbon fibre bottles (40 L) on request
- Operating pressure: 300 / 360 / 420 bar
- Completely piped, optionally with stopcock, pressure gauge and safety valve

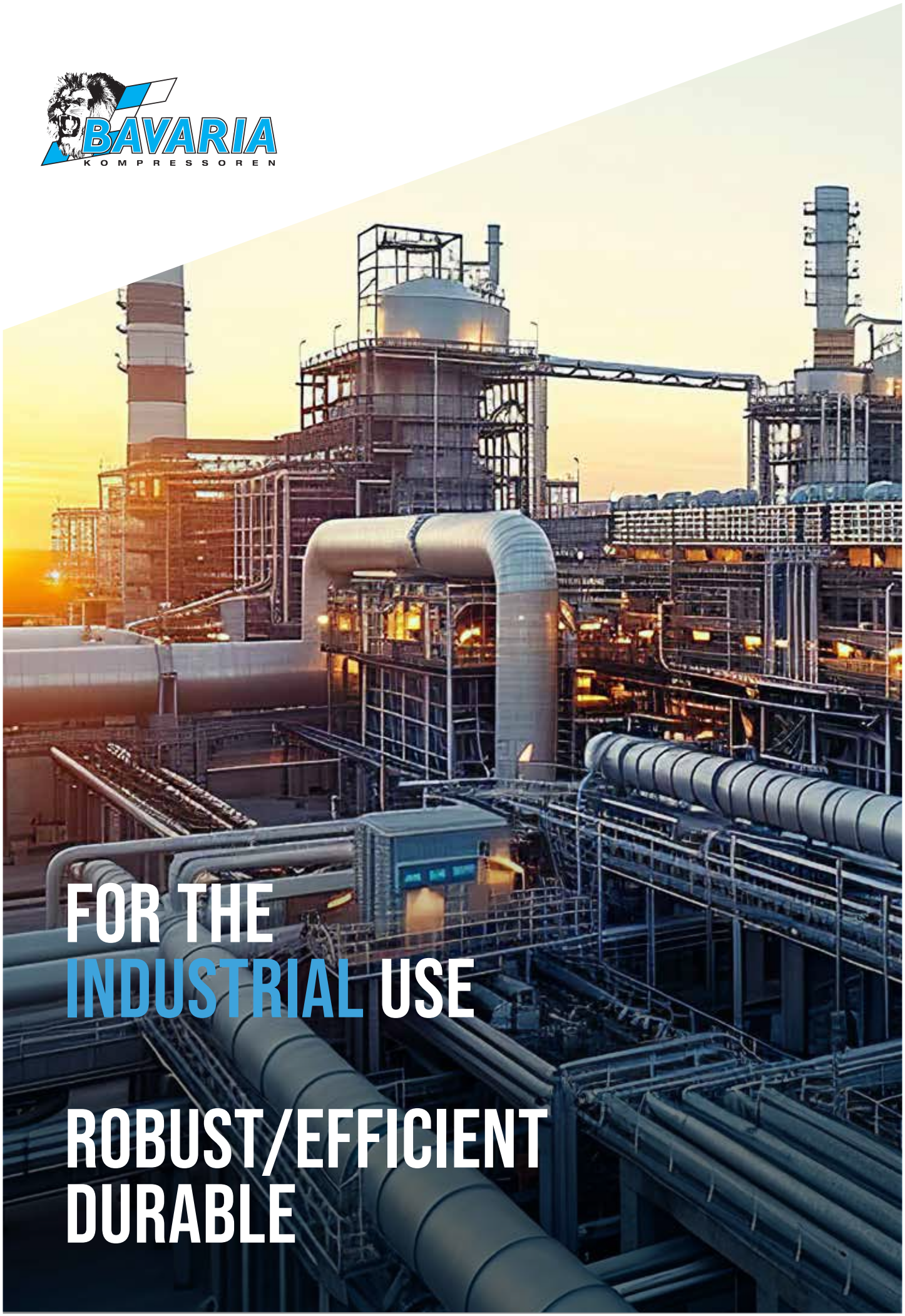
Customised storage system on request.

Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 9005 / 9007 - black / grey

BAVARIA
KOMPRESSOREN



FOR THE INDUSTRIAL USE

ROBUST/EFFICIENT DURABLE

IDE TFI
SEMISILENT PROFESSIONAL

Maximum performance, maximum safety, absolute reliability.



When it to life and safety, only absolute reliability counts. The Semisilent Professional was specially developed for fire brigades, rescue services, diving and industry - robust, powerful and low-maintenance.

Why Semisilent Professional?

- 24/7 operation - Designed for extreme continuous load, it works reliably around the clock.
- Semi-silent technology - reduced volume for a more pleasant working environment, ideal for wards & central operations.
- Efficient & low-maintenance - High-quality technology ensures a long service life and low operating costs.
- Breathing air to the highest standards - fulfils international standards for purity and safety.
- Extremely robust - impact-resistant, corrosion-resistant, weatherproof - ideal for tough operating conditions..

Made for professionals:

- Fire & Rescue - Maximum safety in an emergency
- Divers & diving centres - Reliable breathing air, even at depth
- Industry & Marine - Powerful under all conditionsThe BAVARIA PRO is one of the most popular professional compressors in the world.

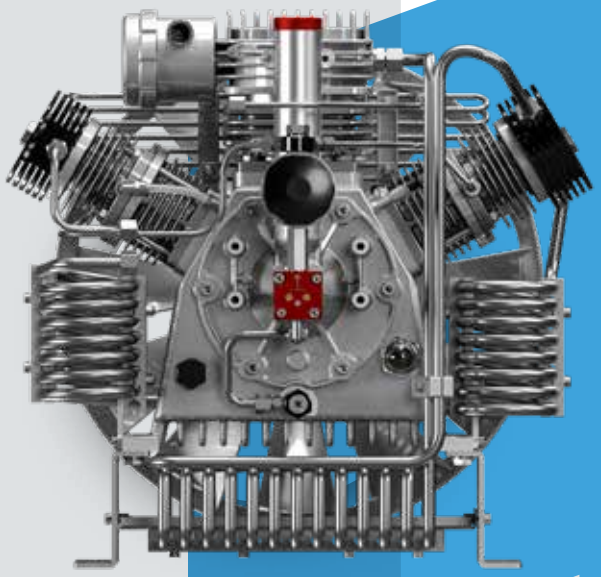


4-7.5 kW - Electric motor
All our models with electric drive are optionally available with different voltagesand frequencies.

Performance data

230 - 380l/min filling capacity

ECO friendly



Compressor block IKB 120 - 125

High efficiency for over 30 years
The proven high-pressure compressor block impres-ses with its robust design, high performance and long service life. A forged aluminium compressor block, industrial roller bearings, connecting rods with double bearings, NICASIL-coated cylinders, a free-flying piston in stage 3 and a powerful stainless steel cooling system ensure high efficiency.

The double lubrication with oil spraying and low-pres-sure oil pump significantly reduces the oil content in the air. The result: up to 105 % more power than many competitors - with the same drive power. Long mainte-nance intervals, good accessibility and readily available spare parts worldwide make this block one of the most popular in the professional sector.



Simultaneous filling with 200 & 300 bar

Optional additional equipment for simultaneous filling of breathing and diving apparatus at 200 and 300 bar - without switching. Both pressure ranges are protected by type-tested, sealed safety valves. The compressor switches off automatically as soon as the respective final pressure is reached.



IDE - Filling hose and filling device

Highly flexible, food-safe KEVLAR hoses with stainless steel connections and kink protection at both ends enable safe filling and reliably protect heavily loaded areas.

The filling fittings are equipped with a glycerine-filled stainless steel pressure gauge and rubber cap - for a smooth display even in the event of vibrations and good readability in bar and PSI. A bracket adapter is included as standard with every compressor.



IDE pressure switch

The IDE pressure switch installed as standard in the BAVARIAPRO and connected downstream of the FT 410 dryer system is used to the pressure in the system and automatically switch off the compressor when the final pressure is reached and maintain a safe operating pressure.

Made of corrosion-resistant materials to ensure the purity of the breathing air. Precise switch-on and switch-off points to avoid overpressure or underpressure.



Pressure retaining check valve

The valve keeps the dryer tank permanently pressurised and, together with the original IDE dryer cartridges, ensures reliable breathing air in accordance with DIN EN 12021-2014*[1].

Bacteria and viruses thrive in warm and humid environment - but they cannot survive in the high-pressure-stable dryer housing.

*[1] With proper installation, maintenance and CO_2 concentration in accordance with DIN EN 12021-2014.



Type-tested safety vave

It is reliable and indispensable. The IDE safety valve iprotects the compressor from dangerous pressure increases, for example in the event of defects in the pressure control mechanism.

It must be checked regularly in accordance with operating and maintenance instructions in order to function safely in an emergency - otherwise there is a risk of serious damage. An intact safety valve ensures operational safety and extends the service of the system.



AIRSAVE PRO E Monitoring of IDE FT 410-910 dryer systems (optional)

The integrated electronic measuring system permanently monitors the saturation level of the dryer cartridges in the IDE FT 410-910 system using a sensor.

At 80 % saturation there is a visual warning, and when the system is completely saturated it switches off automatically - ideal for ordering cartridges in good time.

Scope of delivery: AIRSAVE PRO ECO control unit - integrated or retrofittable / easy and intuitive to operate / can be retrofitted for systems from other manufacturers

Systems installed in the compressor

BAVARIA PURE POWER







IDE FT 410 dryer system

The FT-410 dryer system, which together with its downstream pressure holder non-return valve and the original FT-410 dryer cartridges provides an incredible 1400m^3 of dryable air, is the only series standard in this compressor class worldwide.

This ensures optimum breathing air treatment in accordance with DIN EN 12021:2014 and medical air in accordance with DIN EN 8573- 1:2010. *1.

*1 applies if the system is installed, maintained and operated in accordance with the operating manual and the maximum C02 in the aspirated air complies with the breathing air standard DIN EN 12021-2014.

Automatic condensate drain

The IDE automatic condensate drain automatically drains the condensate produced during air compression during operation using an electronic microcomputer control system.

The separator tank is emptied after the 2nd sealing stage and the final separator after the third stage. The tedious and timeconsuming draining of the condensate at regular intervals of 16 minutes is no longer necessary. Forgetting this important process can lead to serious damage to the compressor.

In the petrol-driven models, this automation is controlled by a rechargeable lithium-ion battery.

IDE FT 410-810 Dryer cartridges

Air compression produces condensate (a mixture of water and oil), which is separated in the separators - however, a certain amount of residual moisture remains in the air.

This pre-dried air flows through the IDE FT 100 Tripple Plus dryer system, where replaceable dryer cartridges remove the residual moisture and pollutants.

The cartridges are manufactured to a high standard, filled with tested materials and for the system. They reliably filter aerosolised oil, oil vapours, moisture, hydrocarbons and other contaminants from the breathing air.



Surface finishing

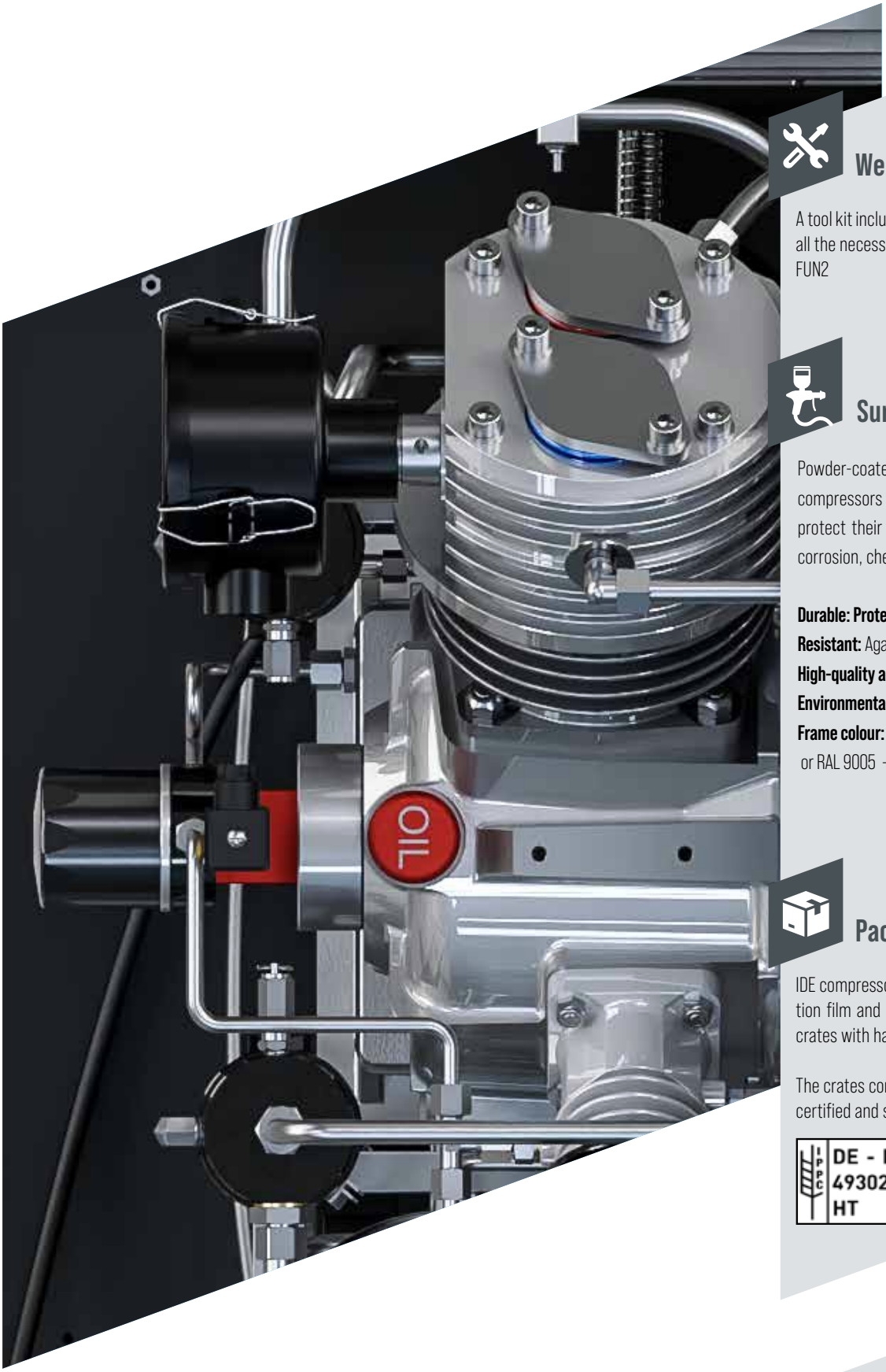
Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating **Frame colour:** RAL 9005 - black

BAVARIA
KOMPRESSOREN



MAXIMUM PERFORMANCE
MAXIMUM SAFETY



Werkzeugsatz

A tool kit included in the scope of delivery contains all the necessary tools for the and care of the IDE-FUN2

Surface finishing

Powder-coated frames - robust & durable. IDE compressors rely on powder-coated frames to protect their high-pressure compressors against corrosion, chemicals and mechanical stress.

Durable: Protection against rust & abrasion
Resistant: Against weathering & chemicals
High-quality appearance: Uniform, smooth surface
Environmentally friendly: Solvent-free coating
Frame colour: RAL 5015 - Bavarian
or RAL 9005 - black

Packaging & transport

IDE compressors are wrapped in corrosion protection film and packed in robust wooden transport crates with handles.

The crates comply with the IPPC standard and are certified and stamped accordingly.

IPPC DE - HE 493027 HT

Subject to technical changes.
Illustrations may contain optional extras.

ide.de

BAVARIA KOMPRESSOREN

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