

BULLFROG™

SMART+Air

Performance & Support You Can Count On!





Smart+Air 160

Smart+Air 160 - IDEAL TO DELIVER COMPRESSED AIR TO 1-2 OPERATORS.

- 24-lt tank, with inner anti-oxidant coating on the Smart+Air 160
- High-capacity fan and forced air system for improved cooling
- Cable with Plug-and-Play socket
- "Secure Starting" solenoid valve
- Air outlet filter
- Tank vibration pads, with suction cups for a safer installation
- Motor thermal cut-out
- Smart+Air silenced version with soundproofing casing and drier (optional)
- H₂O filter between cooler and dryer (only installed in units with dryer)
- Minimum footprint thanks to a super-compact design
- Triple anti-vibration system (under motor, under tank, under baseplate)



Smart+Air 160
(Model #BFF100)

	Product Name	Volts/Ph	W	HP	Model	I/min.	m ³ /h	c.f.m.	bar	p.s.i.	R.P.M.	n°	n°	dB(A)	L x D x H (cm)	kg	Lbs
24	Smart+Air 160	120/1	1100	1.5	BFF100	136	8.16	4.8	8	116	1700	1	1	56	67 x 50 x 75	56	123.5
24	Smart+Air 160	240/1	1100	1.5	BFF101	136	8.16	4.8	8	116	1700	1	1	56	67 x 50 x 75	56	123.5
24	Smart+Air 160 with Dryer	120/1	1100	1.5	BFF200	136	8.16	4.8	8	116	1700	1	1	56	67 x 50 x 75	56	123.5
24	Smart+Air 160 with Dryer	240/1	1100	1.5	BFF201	136	8.16	4.8	8	116	1700	1	1	56	67 x 50 x 75	56	123.5



BULLFROG™

Compressors

Performance & Support You Can Count On

Smart+Air 320

Smart+Air 320 - IDEAL TO DELIVER COMPRESSED AIR TO **3-4 OPERATORS**.

- 50-lt tank, with inner anti-oxidant coating on the Smart+Air 320
- High-capacity fan and forced air system for improved cooling
- Cable with Plug-and-Play socket
- "Secure Starting" solenoid valve
- Air outlet filter
- Tank vibration pads, with suction cups for a safer installation
- Motor thermal cut-out
- Smart+Air silenced version with soundproofing casing and drier (optional)
- H₂O filter between cooler and dryer (only installed in units with dryer)
- Minimum footprint thanks to a super-compact design
- Triple anti-vibration system (under motor, under tank, under baseplate)



Smart+Air 320
(Model #BFF300)

	Product Name	Volt/Ph	W HP	Model	I/min. m ³ /h c.f.m.	bar p.s.i.	R.P.M.	n°	n°	dB(A)	L x D x H (cm)	kg lbs
50	Smart+Air 320	240/1	2200 3	BFF300	256 15.36 9.04	8 116	1700	2-V	1	62	70 x 50 x 95	72.5 160
50	Smart+Air 320 with Dryer	240/1	2200 3	BFF400	256 15.36 9.04	8 116	1700	2-V	1	62	70 x 50 x 95	72.5 160



BULLFROG™
Compressors

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Smart+Air 640

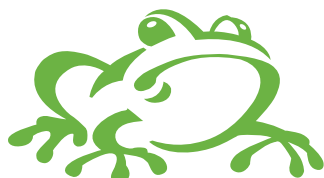
IDEAL TO DELIVER COMPRESSED AIR FROM **6-8 OPERATORS.**

- Available in Smart+Air silenced version, with soundproofing casing and drier
- 90-lt tank, with inner anti-oxidant coating
- High-capacity fan and forced air system for improved cooling
- "Secure Starting" solenoid valve
- Air outlet filter
- Double anti-vibration system, with pads under motor and suction cups under tank, for a safe and stable operation
- Motor thermal cut-out
- Sequencing controller for single or dual operation with delayed start-up and compressor switching
- Compressor heads may be run independently
- H₂O filter between cooler and dryer (only installed in units with dryer)



Smart+Air 640
(Model #BFF600)

ℓ	Product Name	Volt/Ph	W	HP	Model	I/min.	m ³ /h	c.f.m.	bar	p.s.i.	R.P.M.	n°	n°	dB(A)	L x D x H (cm)	kg	Lbs
90	Smart+Air 640	240/3	4500	6	BFF600	512	30.72	18.08	8	116	1700	4-V	1	64	120 x 78 x 82	118	260
90	Smart+Air 640 with Dryer	240/3	4500	6	BFF700	512	30.72	18.08	8	116	1700	4-V	1	64	120 x 78 x 82	118	260



BULLFROG™

Compressors

Performance & Support You Can Count On

BullFrog "Hero+Air" *...When your compressor is down, call on a "hero"*

LOW NOISE PORTABLE COAXIAL COMPRESSOR 1.1 kW



- New oil-less compressor pump
- Reduced noise environment
- Fully faired body, practical "suitcase" construction
- Fully equipped control panel

- Wheels for easy moving
- Power 1.5 HP
- Oil-less
- 6 lt tank
- It can be used horizontally or vertically
- Accessories compartment
- Spiral hose and blow gun included
- Covered by a standard 1 year warranty



BullFrog Hero+Air
(Model #BFF010)

z	Product Name	Volt/Ph	W	HP	Model	l/min.	m ³ /h	c.f.m.	bar	p.s.i.	R.P.M.	n°	n°	dB(A)	L x D x H (cm)	kg	Lbs
6	BullFrog "Hero+Air"	120/1	1.1	1.5	BFF010	77	4.62	2.71	8	116	3400	1	1	72	46 x 22 x 65	14.5	31.9

Smart+Air Accessory Kits

Part Number	BullFrog Product & Description
BF3000	Desiccant Salt (1 Pack)
BF4000	Pre-Filters (5 microns)
BF5000	Oil Filters (1 micron)
BF6000	Activated Carbon Filters (0.6 microns)
BF7000	Automatic Condensation Drain - T1
BF7001	Automatic Condensation Drain - 950

Dryer Kit made up of: brackets, heat exchanger fan, condensation separator with automatic drain, adsorption dryer, and accessories for electrical and pneumatic connections.



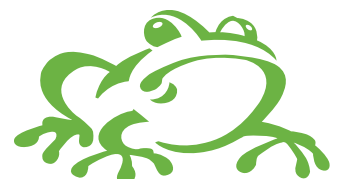
Automatic Condensation Drain - 950
(Model #BF7001)



Automatic Condensation Drain - T1
(Model #BF7000)



Pre-Filter
(Model #BF4000)



BULLFROGTM
Compressors

Performance & Support You Can Count On

BullFrog - A History You Can Count On!



BullFrog Motor Repair (a division of Hager Worldwide, Inc.) created a leadership position through the experience and unparalleled support of their dedicated service team, with 40 years of combined experience.

For over 20 years, BullFrog has been relied upon to repair, rebuild, and provide technical support for air compressor units and vacuum pumps of all makes and models. Today, as part of Hager Worldwide, they are depended upon to ensure optimal performance of air compressors and vacuum pumps throughout the USA.

After years of research and development, BullFrog proudly introduces its own Smart+Air series of air compressors. The Smart+Air series is held to the highest standard of performance just as the service team has always held themselves to the highest standards.

Since their beginning, BullFrog has been looked to as a highly valued resource for service and technical support. Now they want to give you piece of mind by putting all their know-how and experience behind the Smart+Air series of air compressors.



BULLFROG™

Compressors

Performance & Support You Can Count On

Clean, Quiet, Dry Air

BullFrog compressors, created from the experience of more than half a century of R&D.

Designed to deliver clean, dry air to operate dental handpieces.

Compressed air output by a BullFrog compressor is:

- Free of oil residues, thanks to dry compression
- Free of condensation, thanks to the single-tower absorption dryer with high drying power
- Free of any smell, thanks to tank inner coating with anti-oxidant epoxy paint
- Condensation drain installed between aftercooler and desiccant dryer

Smart+Air line is available in three different sizes to meet the needs of any dental office.

- **Smart+Air:** super-silenced complete with all accessories (cabin-in soundproofing material with internal cooling system and dryer).

The "Secure Starting" system is standard and allows the compressor to restart with no problems, even in the case of a power failure or emergencies (always starts with vented head).

- **BullFrog "Hero+Air" series:** portable, super-noiseless solution. The 1.5 HP compressor is easy to use and transports with a fully equipped control panel for emergency use.

In addition to the standard models, it is possible to configure the compressor to meet your needs. Bare compressors, spare pumps and dryers are available separately for modular installations. Please refer to the following table to find the best STANDARD configuration.

Configuration			
Ideal to Supply	Product	Soundproofing	Dryer
1 - 2 dental operators	Smart+Air 160	standard	standard
3-4 dental operators	Smart+Air 320	standard	standard
6-8 dental operators	Smart+Air 640	standard	standard
Emergency/Portable	BullFrog "Hero+Air"	standard	



Low noise level



Oil-less



Internal oxidation-protected protection*



3 years warranty*



Compressed air for up to 8 dental operators

*Does not apply to the BullFrog "Hero+Air" model



BULLFROGTM
Compressors

Performance & Support You Can Count On

Manufacturing Features

What do you expect from a quality dental compressor? High performance, trouble-free operation, long life, and of course, oil-free, dry, hygienic compressed air. Our compressors have been made to meet these expectations through consistent attention to an innovative design, exceptional technical workmanship, and an enhanced reliability of all components used in the production process.

Compressor unit and framework are insulated by a triple damping system (under motor, under tank, under baseplate) that not only reduces noise and allows vibration-free operation, but also decreases stress on mechanical parts and accessories (which results in less maintenance and longer life for the units).

Tank inner surfaces are protected by a thick anti-corrosion and anti-oxidant paint.



Soundproof shroud for low noise and intake filters made of shockproof materials

Condensation drain

Carrying handles on tanks

Triple anti-vibration system (under motor, tank, baseplate)

Cylinders in aluminum alloy with special anti-friction treatment

Piston stroke always coaxial to the cylinder

Electric motor featuring thermal cut-out with manual reset

Pancake tanks on models 160 & 320 for minimum footprint

High thickness internal coating for long lasting anti-oxidation protection

Easily accessible condensate drain valve with hose



High capacity cooling fan

Oversized bearings (Self-lubricating)



BULLFROG™

Compressors

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Technology

Why dry air? Dry air is important to prevent negative effects to bonding strength.

A quality dryer is an essential piece of equipment for the dentist. The ambient air contains humidity and impurities which must be duly treated and removed in order to guarantee clean, dry, pure air to the patients and to avoid the risk of corrosion and oxidation of the expensive dental handpieces.

The single-column Smart+Air Absorption Dryer meets the highest requirements and guarantees the constant supply of oil-free and dry compressed air for the optimum protection of the bond strength.

The advantages of the Smart+Air Absorption Dryer:

- No additional installation (the system is integrated with the compressor)
- No oxidation & corrosion
- Optimum air for operation of equipment
- Compactness
- Fully automatic operation
- Easy maintenance
- Low operating costs

The Smart+Air Absorption Dryer is a reliable integrated system:

- Aftercooler is ventilated by the compressor fan
- Compressor fan cools compressor not air
- Condensation separator is upstream from the dryer
- Single column adsorption dryer filled with high performance desiccant material
- Water collector to drain condensation separated by the cooler

The operational cycle:

- Ambient air enters the compressor through the air inlet filter
- Air is compressed and driven to the cooler
- Because of the cooling, the humidity is condensed
- The condensation is collected in the separator and drained off
- The air enters the drying tower where a special desiccant removes the remaining humidity
- The clean, dry and compressed air is stored in a tank treated with an internal anti-corrosion coating

After the compressor shuts down the desiccant is automatically regenerated by dry air. It remains chemically unchanged and retains full effectiveness.



Single column drying system with regeneration



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