



Serie ↗ **EG - GLOBAL**
LUBRICATED SCREW COMPRESSORS

ELGi
Always Better.

by **ROTAIR**®

www.rotairspa.com



CE



PATENTED UNIQUE PROFILE

// ETA V

11 - 160 kW / 15 - 220 CV



ELGI
Always Better.

FROM A
LEADING
COMPANY

A UNIQUE

PRODUCT

FOR INNOVATION
AND PERFORMANCE

ELGI, industrial multinational Group, stands among the global leaders in production of air compressors, with a wide variety of applied technologies and models, to satisfy the most exigent and demanding necessities from its Customers

The constant and continuous research for innovative technologies, aimed at ensuring the maximum efficiency and productivity of ELGI compressors, warrants a profitable investment to our Customers, backed by a professional aftersales service, with dedicated, highly professional technicians, to ensure a long and efficient lifecycle to our compressors.

Serie

↗ **EG**
GLOBAL

www.rotairspa.com



TOTAL QUALITY AT YOUR SERVICE

INNOVATIVE FOR

unique design, modern
and captivating



PERFORMANT AND RELIABLE

for their direct coupling
and their robust project concept



LOW ROTATION SPEED

Electric motors
4 poles – 1470 rpm



EASY MAINTENANCE AND CONTROLS

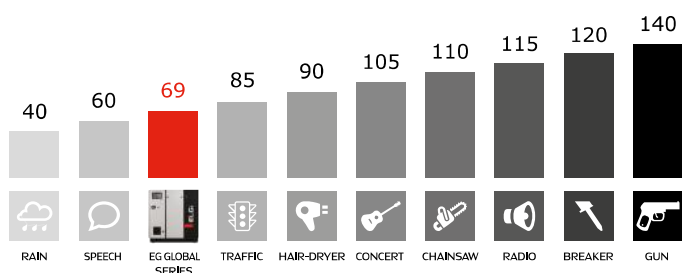
through wide access panels
with compass opening
and high, removable canopy
Service points are easily accessible
for all maintenance purposes



ULTRA-SILENT

from 69 - to 75 dB(A)

Examples of environmental acoustic levels



Serie **EG - GLOBAL**

ELECTRONIC CONTROL BOARD

Multi-functions NEURON III

AIR/OIL SEPARATOR WITH HIGH EFFICIENCY SEPARATION SYSTEM

1 ppm trace of oil in compressed air

CONDENSATE SEPARATOR

with automatic drain



VERSIONS INVERTER

ensures important energy
savings (option)

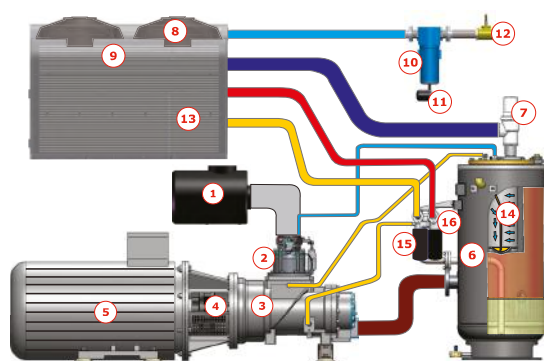
ELECTRIC MOTOR IE3 SIEMENS

4 poles with
manual greasing

AIREND WITH HIGH VOLUMETRIC PERFORMANCE

Coaxial coupling to
the electric motor

EG - GLOBAL



OIL CIRCUIT

—	—	—	—	—
Fresh air	Hot air	Cool oil	Hot oil	Mixture hot air/oil

- | | |
|------------------------|------------------------------|
| 1. Air filter | 10. Water separation filter |
| 2. Intake valve | 11. Automatic drain |
| 3. Airend | 12. Air outlet |
| 4. Direct coupling | 13. Oil cooler |
| 5. Electric motor | 14. Air/oil separator filter |
| 6. Air/oil separator | 15. Oil filters |
| 7. Min. pressure valve | 16. Thermostatic valve |
| 8. Cooling ventilation | |
| 9. Final air cooler | |

UPPER VENTILATION OPENING

Canalisable

INTAKE VALVE ON-OFF + PROPORTIONAL

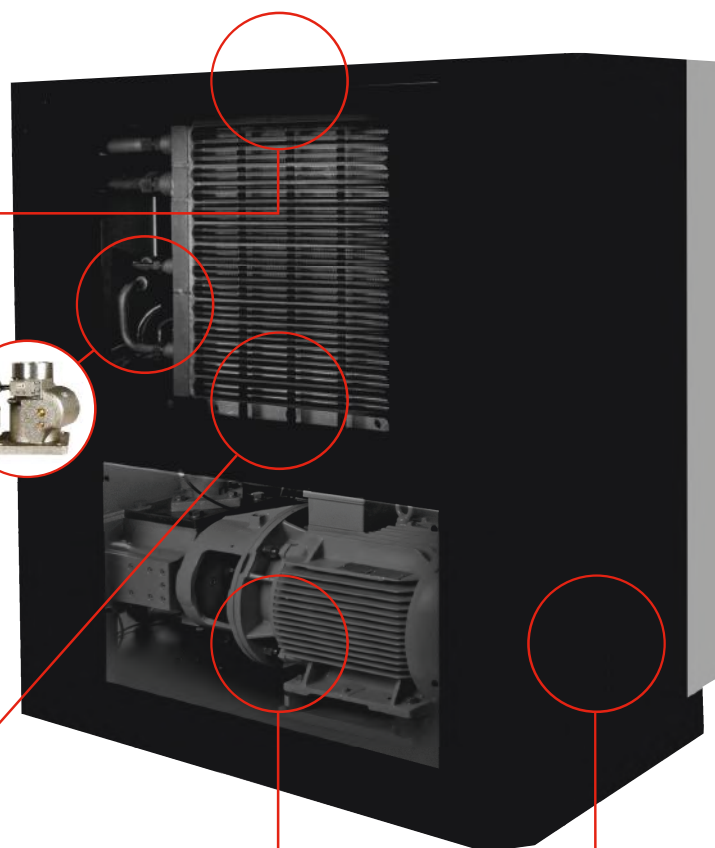
Serie, from
EG55 onwards

OIL COOLER OVERSIZED

Includes cooling
of air in exit

COUPLING ASSEMBLY MOTOR-AIREND

With "easy maintenance" anti-jerk element
Can be changed without disassembling the elements



VENTILATION OPENING

Electric motor

ELGI

+ ENVIRONMENT FRIENDLY

MAXIMUM
PERFORMANCE AT
LOWEST COSTS OF
USE AND
MAINTENANCE



FAST RETURN
ON
INVESTMENT



MINOR IMPACT
ON ENVIRONMENT



AIREND

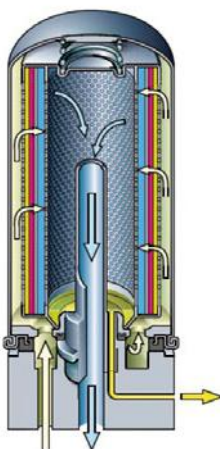
WITH EXCLUSIVE "ETA V" PROFILE (Patented by ELGI)

WARRANTS

EXCELLENT AIR OUTPUT IN RELATION TO
THE INSTALLED POWER

6 YEARS OF OFFICIAL WARRANTY*

APPLIED TO THE UNIT ARE A CONFIRMATION
OF ITS RELIABILITY



EFFICIENT AND LONG LASTING

AIR/OIL SEPARATION SYSTEM

GRANTED BY THE EXCLUSIVE OSBIC PROCESS

WITH 3 STAGES OF SEPARATION AND
TRACES OF OIL IN THE COMPRESSED AIR OF
ONLY 1 PPM

OSBIC SYSTEM



The efficient centrifugal moisture separator
with automatic drain ensures
99% MOISTURE-FREE AIR.

A pre-filtering device for air intake
And a dry-type cartridge filter assure
**THE ABSENCE OF IMPURITIES AND PARTICLES
IN THE AIREND AT 99.9%!**

* see specific conditions

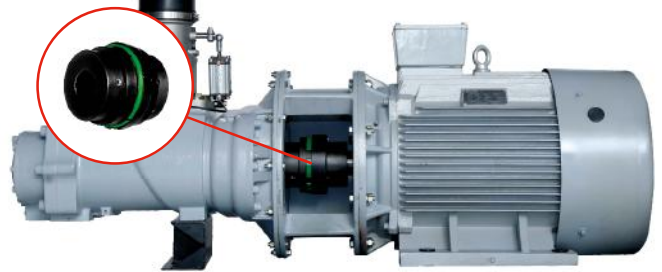
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AIREND-MOTOR COUPLING EXCLUSIVELY DIRECT AND COAXIAL

No loss in power transmitted from the motor to the airend

No need of specific calendarized maintenance

Easy control and substitution of the elastic element without need of disassembling motor-airend assembly



MAXIMUM EFFICIENCY IN COOLING

An efficient and oversized ventilation
System grants the

OPTIMAL OPERATION OF THE UNIT IN ENVIRONMENTS WITH HIGH TEMPERATURES (max 45°C)

The quality of the cooling system
Assures a temperature of air at the outlet of only 10°C
HIGHER IN RESPECT TO AMBIENT TEMPERATURE



CONTROL PANEL AND FUNCTION CHECK: ALL INFORMATION IS ONE CLICK AWAY!

The control of all compressor function is assured by a multi-function computer, easy to read and to use. The function and use parameters are monitored and checked in real-time. The remote control function enables the use of multiple units in serie and the remote use and control of each unit. The access to functions can be locked with a dedicated code.



INDUSTRY 4.0 >>

Remote control and management (OPTION)

REAL TIME PREDICTIVITY

AIR ALERT device for the transmission in real time of all parameters of the compressor unit. Assures monitoring, efficiency and functionality of compressed air.

What is Air-Alert?



Air-Alert Concepts



Web Based PC Interface - Concept



Smart Phone Screens Concepts



Customer Benefits Summarized



ENERGY SAVINGS THANKS TO THE VARIABLE FREQUENCY



HIGH ENERGY SAVINGS AND RELEVANT ECONOMIC ADANTAGES

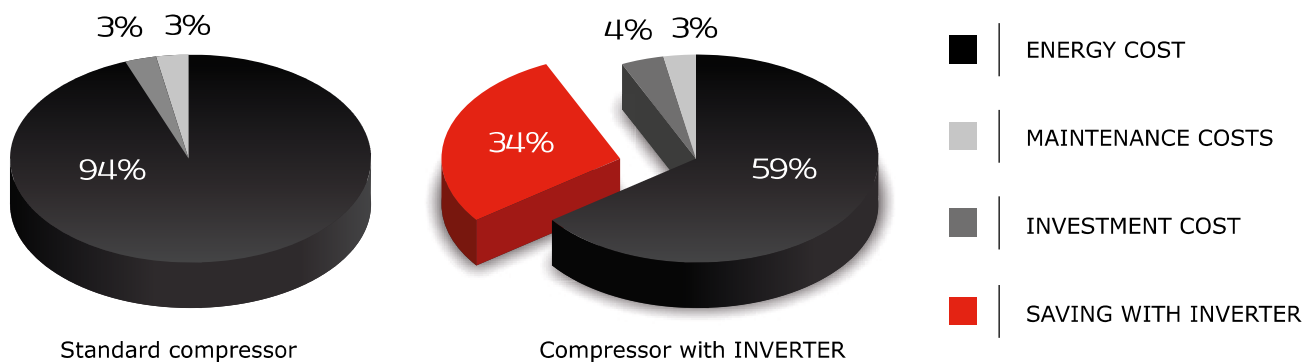
The INVERTER device ensures smooth and graduate starts, also repeated, avoiding stress to the motor and without peaks of power.

It cuts the idle times of the traditional compressor, which can last several minutes, and subsequently eliminates the "load" required by the airend, corresponding to ca. 20% of the absorbed power.

It is possible to customize automatically the air consumes and therefore the absorbed energy in respect to the effective needs of air.

The electric motor with variable speed has a longer life in respect to a motor with fixed speed, for the type of start and the different stress induced by the control device.

Example graph calculated over 10 years of use



(Values are an indication and depend on the work cycles of the compressor)



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ELECTRICAL ADVANTAGES



HIGHER EFFICIENCY
BETTER POWER FACTOR
NO CURRENT PEAKS
BEST ENERGY SAVING



PERFORMANCES ALWAYS OPTIMIZED
WITH THE EFFECTIVE REQUEST OF AIR
LESS MAINTENANCE ON MECHANICAL PARTS
FLUID AND PROGRESSIVE START



MECHANICAL ADVANTAGES

MODELS / TECHNICAL FEATURES

VERSIONS ON – OFF

MODEL	LINE	MAX PRESSURE	AIR OUTPUT	LITRES/SEC	POWER	ACOUSTIC LEVEL	AIR OUTLET	WEIGHT	DIMENSIONS (LxWxH)
EG 11	F2	7,5 bar	2,07 m³/min	34,50	11 kw	69 db (A)	1"	590 kg	1425 x 720 x 1470 mm
		8,5 bar	1,84 m³/min	30,66					
		10 bar	1,67 m³/min	27,83					
		13 bar	1,33 m³/min	22,16					
EG 15		15 kw	7,5 bar	2,72 m³/min	45,33				
			8,5 bar	2,58 m³/min	43,00				
			10 bar	2,24 m³/min	37,33				
			13 bar	1,95 m³/min	32,50				
EG 18		18,5 kw	7,5 bar	3,40 m³/min	56,66				
			8,5 bar	3,17 m³/min	52,83				
			10 bar	2,78 m³/min	46,33				
			13 bar	2,27 m³/min	37,83				
EG 22		22 kw	7,5 bar	3,96 m³/min	66,00				
			8,5 bar	3,85 m³/min	64,16				
			10 bar	3,31 m³/min	55,16				
			13 bar	2,69 m³/min	44,83				
EG 30	F3	7,5 bar	5,80 m³/min	96,66	30 kw	69 db (A)	1" 1/4	990 kg	1705 x 1110 x 1590 mm
		8,5 bar	5,18 m³/min	86,33					
		10 bar	4,93 m³/min	82,16					
		13 bar	3,96 m³/min	66,00					
EG 37		37 kw	7,5 bar	7,14 m³/min	119,00				
			8,5 bar	6,51 m³/min	108,50				
			10 bar	5,95 m³/min	99,16				
			13 bar	5,10 m³/min	85,00				
EG 45		45 kw	7,5 bar	8,49 m³/min	141,50				
			8,5 bar	7,79 m³/min	129,83				
			10 bar	7,08 m³/min	118,00				
			13 bar	5,80 m³/min	96,66				
EG 55	F4	8 bar	10,76 m³/min	179,33	55 kw	69 db (A)	1" 1/2	1750 kg	1961 x 1265 x 1775 mm
		9 bar	10,05 m³/min	167,50					
		10,5 bar	9,20 m³/min	153,33					
		13,5 bar	7,50 m³/min	125,00					
EG 75		75 kw	8 bar	14,78 m³/min	246,33				
			9 bar	13,88 m³/min	231,33				
			10,5 bar	12,74 m³/min	212,33				
			13,5 bar	11,04 m³/min	184,00				
EG 90	F5	8 bar	16,57 m³/min	276,16	90 kw	75 db (A)	2" 1/2	2935 kg	2830 x 1640 x 2137 mm
		9 bar	15,23 m³/min	253,83					
		11 bar	13,31 m³/min	221,83					
		8 bar	19,85 m³/min	330,83					
EG 110		110 kw	9 bar	18,38 m³/min	306,33				
			11 bar	16,42 m³/min	273,66				
EG 132	F6	8 bar	24,21 m³/min	403,50	132 kw	75 db (A)	2" 1/2	3755 kg	2830 x 1640 x 2137 mm
		9 bar	22,40 m³/min	373,33					
		11 bar	20,10 m³/min	335,00					
EG 160		160 kw	8 bar	29,05 m³/min	484,16				
			9 bar	27,01 m³/min	450,16				
			11 bar	24,07 m³/min	401,16				

Note :

- Air output is tested according to ISO 1217 : 2009 Annexure C ED. 4.
- Maximum pressure or discharge pressure of all models is 1 bar higher than the working pressure.
Ex: for an EG 90-8, working pressure is 7 bar while maximum pressure is 8 bar.
- Indicated air output is measured at the air outlet, after the moisture separator
- The acoustic level is measured according to ISO 2151, Second Edition, at a distance of 1 m in working conditions, +/- 3 dB(A).
- Thanks to the continuous improvement, specifications are subject to modifications without prior advice.

VERSIONS VFD VARIABLE FREQUENCY DRIVE

MODEL	LINE	MAX PRESSURE	AIR OUTPUT	LITRES/SEC	POWER	ACOUSTIC LEVEL	AIR OUTLET	WEIGHT	DIMENSIONI (Lx L xH)
EG 11 V	F2	7,5 - 10 bar	0,66 - 2,07 m³/min	11,13 - 34,50	11 kw	69 db (A)	1"	592 kg	1425 x 720 x 1470 mm
		13 bar	0,53 - 1,33 m³/min	5,33 - 22,16					
EG 15 V		7,5 - 8,5 bar	0,89 - 2,72 m³/min	14,83 - 45,33	15 kw			690 kg	
		10 - 13 bar	0,80 - 1,95 m³/min	13,33 - 32,50					
EG 18 V		7,5 - 10 bar	1,11 - 3,40 m³/min	18,50 - 56,66	18,5 kw			710 kg	
		13 bar	0,90 - 2,27 m³/min	15,00 - 37,83					
EG 22 V		7,5 - 10 bar	1,32 - 3,96 m³/min	22,00 - 66,00	22 kw			715 kg	
		13 bar	1,07 - 2,69 m³/min	17,83 - 44,83					
EG 30 V	F3	7,5 - 10 bar	1,97 - 5,80 m³/min	32,83 - 96,66	30 kw	69 db (A)	1" 1/4	1040 kg	1705 x 1110 x 1570 mm
		13 bar	1,58 - 3,96 m³/min	26,33 - 66,00					
EG 37 V		7,5 - 10 bar	2,38 - 7,14 m³/min	39,66 - 119,99	37 kw			1130 kg	
		13 bar	2,04 - 5,19 m³/min	34,00 - 85,00					
EG 45 V		7,5 - 10 bar	2,83 - 8,49 m³/min	47,16 - 141,50	45 kw		1" 1/2	1200 kg	
		13 bar	2,32 - 5,80 m³/min	38,66 - 96,66					
EG 55 V	F4	8 - 10,5 bar	3,68 - 10,76 m³/min	61,33 - 179,33	55 kw	69 db (A)	1" 1/2	1820 kg	1961 x 1265 x 1754 mm
		13 bar	3,00 - 7,50 m³/min	50,00 - 125,00					
EG 75 V		8 - 10,5 bar	5,09 - 14,78 m³/min	84,83 - 246,33	75 kw		2"	2090 kg	2063 x 1269 x 1969 mm
		13 bar	4,41 - 11,04 m³/min	73,50 - 184,00					
EG 90 V	F5	8 - 11 bar	5,34 - 16,57 m³/min	88,66 - 276,16	90 kw	75 db (A)	2" 1/2	2935 kg	2830 x 1640 x 2137 mm
EG 110 V		8 - 11 bar	6,56 - 19,85 m³/min	109,33 - 330,83	110 kw			3220 kg	
EG 132 V	F6	8 - 11 bar	8,04 - 24,21 m³/min	134,00 - 403,50	132 kw	75 db (A)	2" 1/2	3884 kg	2830 x 1640 x 2137 mm
EG 160 V		8 - 11 bar	9,62 - 29,05 m³/min	160,33 - 484,16	160 kw			3975 kg	

PREMIUM SERIE

MODEL	LINE	MAX PRESSURE	AIR OUTPUT	LITRES/SEC	POWER	ACOUSTIC LEVEL	AIR OUTLET	WEIGHT	DIMENSIONI (LxLxH)
EG 90 P		8 bar	17,70 m³/min	295,00	90 kw	76 db (A)	2" 1/2	2980 kg	2916 x 1885 x 1925 mm
		13,5 bar	11,90 m³/min	198,33					
EG 110 P		8 bar	21,60 m³/min	360,00	110 kw	76 db (A)	2" 1/2	3200 kg	2916 x 1885 x 1925 mm
		9 bar	20,50 m³/min	341,66					
		11 bar	17,50 m³/min	291,66					
		13,5 bar	14,90 m³/min	248,33					
EG 132 P		8 bar	26,50 m³/min	441,66	132 kw	76 db (A)	2" 1/2	3280 kg	2916 x 1885 x 1925 mm
		9 bar	24,40 m³/min	406,66					
		11 bar	21,50 m³/min	358,33					

PREMIUM SERIE VERSIONS VFD VARIABLE FREQUENCY DRIVE

MODEL	LINE	MAX PRESSURE	AIR OUTPUT	LITRES/SEC	POWER	ACOUSTIC LEVEL	AIR OUTLET	WEIGHT	DIMENSIONI (LxLxH)
EG 90 P-V		8 - 11 bar	5,36 - 17,70 m³/min	89,33 - 295,00	90 kw	76 db (A)	2" 1/2	3230 kg	2916 x 1885 x 1925 mm
		13,5 bar	5,60 - 11,90 m³/min	93,33 - 196,66					
EG 110 P-V		8 - 11 bar	8,64 - 21,60 m³/min	144,00 - 603,00	110 kw	76 db (A)	2" 1/2	3400 kg	2916 x 1885 x 1925 mm
		13,5 bar	7,10 - 14,90 m³/min	118,33 - 247,66					
EG 132 P-V		8 - 11 bar	8,60 - 26,50 m³/min	143,33 - 441,66	132 kw	76 db (A)	2" 1/2	4290 kg	2916 x 1885 x 1925 mm
EG 160 P-V		8 - 11 bar	10,28 - 30,80 m³/min	171,33 - 513,33	160 kw	76 db (A)	2" 1/2	4340 kg	2916 x 1885 x 1925 mm

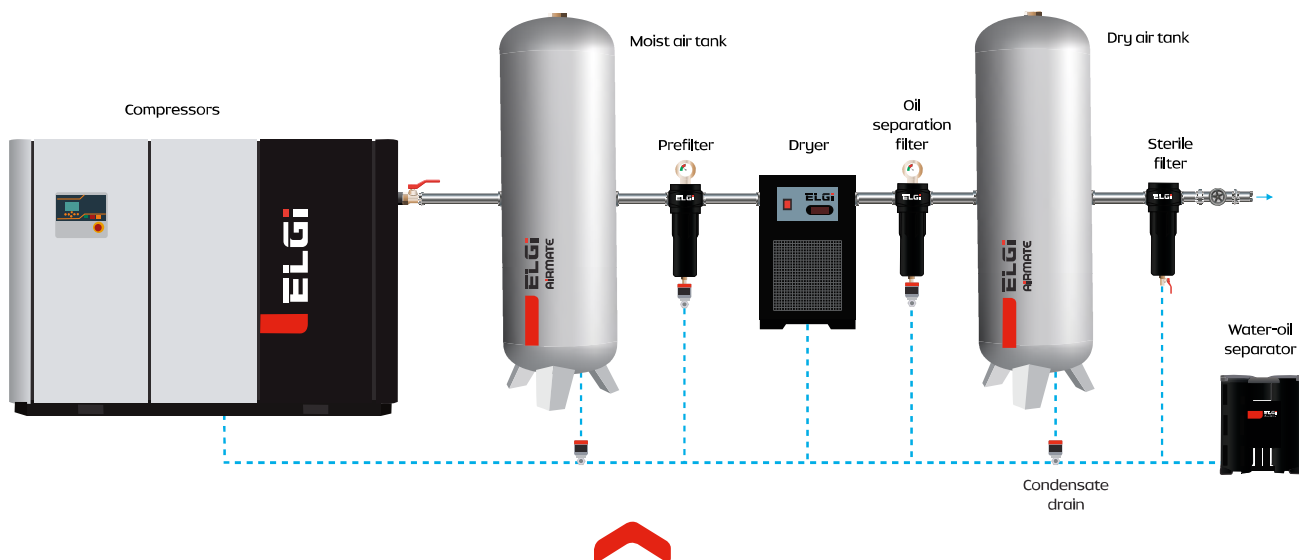
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- Thanks to the continuous improvement, specifications are subject to modifications without prior advice.

TENSION 400 V \ IE3 MOTORS – IP 55

ELGi

ACCESSORIES



KIT
Heat recovery
system

KIT
Pre-heating for
low temperatures

KIT
Water-oil
separator

VALVE
Liquid
drain

NETWORK CARDS
For compressor
rooms

DRYERS
Direct expansion

FILTERS
For
compressed air

TANKS
For
compressed air



**WARRANTY, DURATION
AND RELIABILITY
ARE ASSURED WITH THE
EXCLUSIVE USE
OF ORIGINAL
SPARE PARTS**

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Always Better.

by **ROTair**®

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ISO 9001
BUREAU VERITAS
Certification

