

THIS COMPRESSOR
IS WORTH A
BRAND NEW PORSCHE



METALPLAN

FIRST COMPRESSOR
MANUFACTURER IN THE
WORLD ACCREDITED

ISO 50001
ENERGY MANAGEMENT

6 months

Rotor Plus rotary screw compressors provide a 60% saving compared to any reciprocating compressor. Your investment pays off within six months.

1 - CFM = Cubic Feet per Minute
2 - Includes electrical panel, vibra-stop, etc.

FLOW RATE	RECIPROCATING COMPRESSOR	SCREW	SAVINGS
<p>80 cfm¹</p> <p>Acquisition Energy Overhaul</p>	 <p>15 hp 15 hp</p> <p>\$ 7.400 \$ 172.000 \$ 72.000</p>	 <p>10 hp 10 hp</p> <p>\$ 9.400 \$ 116.000 \$ 25.000</p>	 <p>BRAND NEW PORSCHE</p>
Total cost	\$ 251.400	\$ 150.400	\$ 101.000*

*Savings calculated only in air generation (48000h/\$0.16/kWh), without considering the savings from air treatment.

Porsche is a trademark of Dr. Ing. h.c. F. Porsche AG.

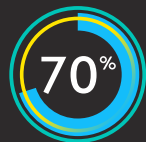
ADVANTAGES OF THE SCREW COMPRESSOR

POWER CONSUMPTION



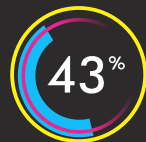
LOWER

OVERHAUL COST



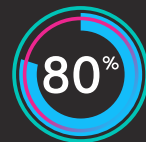
LOWER

FLOW RATE



HIGHER

NOISE LEVEL



LOWER

OPERATING



FULL LOAD



A reciprocating compressor can only operate at 70% load to avoid overheating.

OVERHAUL COST

RECIPROCATING COMPRESSOR

Flow Rate: 42 cfm
Power: 15 hp



SCREW

Flow Rate: 40 cfm
Power: 10 hp



48000 hours

OVERHAUL

\$ 10.800

over 100 items replaced every 4,000 hours

\$ 3.700

only 12 items replaced every 20,000 hours

OIL CHANGE

\$ 8.600

mineral oil: \$7,16/liter
5 liters every 200 hours (1200 liters)

\$ 700

synthetic oil: \$28/liter
4 liters every 8,000 hours (25 liters)

FILTERS
• INTAKE • OIL
• SEPARATOR

\$ 2.200

240 elements

\$ 2.100

60 elements

OTHERS
LABOR,
REPAIR KITS,
BELTS, ETC.

\$ 14.400

(Includes 240 technical visits \$48/visit)

\$ 6.000

(Includes 24 technical visits \$92/visit)

\$ 36.000

\$ 12.500

EQUIVALENCE TABLE

Make the right comparison:
"power X power" and "actual flow rate X actual flow rate"

	RECIPROCATING COMPRESSOR	SCREW	IDEAL dryer	Total Savings ¹
5 hp	Nominal Flow Rate = 20 CFM Actual Flow Rate = 14 CFM	4 hp	Actual Flow Rate = 20 CFM	D4 (20 CFM) or Titan 020 (20 CFM) \$ 27.400
10 hp	Nominal Flow Rate = 40 CFM Actual Flow Rate = 28 CFM	6 hp	Actual Flow Rate = 28 CFM	D6 (32 CFM) or Titan Plus 040 (40 CFM) \$ 57.800
15 hp	Nominal Flow Rate = 60 CFM Actual Flow Rate = 42 CFM	10 hp	Actual Flow Rate = 40 CFM	Titan Plus 040 (40 CFM) \$ 80.200
20 hp	Nominal Flow Rate = 82 CFM Actual Flow Rate = 56 CFM	15 hp	Actual Flow Rate = 61 CFM	Titan Plus 070 (70 CFM) \$103.400
30 hp	Nominal Flow Rate = 120 CFM Actual Flow Rate = 84 CFM	20 hp	Actual Flow Rate = 73 CFM	Titan Plus 070 (70 CFM) \$ 134.000
40 hp	Nominal Flow Rate = 160 CFM Actual Flow Rate = 112 CFM	25 hp	Actual Flow Rate = 108 CFM	Titan Plus 110 (110 CFM) \$ 166.800

Nominal Flow Rate = Flow rate calculated at the compressor's intake. Does not correspond to reality.

Actual Flow Rate = Flow rate provided by the compressor. Same as effective flow rate.

1 - Total savings achieved by transitioning from a system with reciprocating compressors to a system with screw compressors + compressed air treatment (80,000) (80,000/80,000)

ROTARY SCREW
COMPRESSORS

ROTOR PLUS



4 to 25 hp



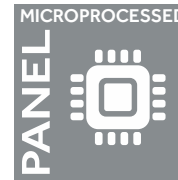
INTEGRABLE
DRYER &
FILTERS

Integrated
AFTER
COOLER

SCREW VS PISTON COMPARISON



LOWER
80%
NOISE



AFTER-COOLER STARTING FROM RPP-10

EASY
DRAIN
standard

Synthetic
oil
8000
hours



OPTIONAL ELECTRONIC DRAIN



LEGO GROUP TRADEMARK

SALES AND PERFORMANCE LEADER

Rotor Plus Rotary screw compressors are pioneered in rotary screw technology for small and medium flows, becoming the main market reference.



Rotor Plus **Laser** high pressure, specially designed for laser cutting.



LEGO* GENERATION
INTEGRABLE TANK,
DRYER & FILTERS

WITH OR WITHOUT INTEGRATED DRYER!
WITH OR WITHOUT HORIZONTAL TANK!

You assemble Rotor Plus according to your needs.

ELECTRICAL PANEL

MICROPROCESSED PANEL

AIR/OIL SEPARATOR FILTER

OIL FILTER

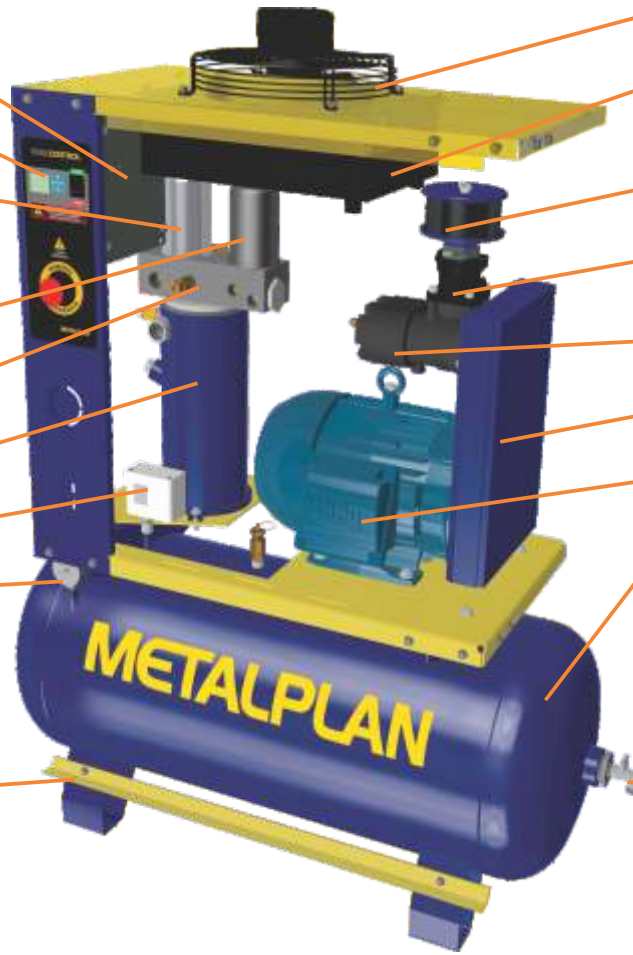
VALVE BLOCK

OIL SEPARATOR TANK

PRESSURE SWITCH

PRESSURE GAUGE

**PRE-ARRANGEMENT
FOR FORKLIFT
OR PALLET JACK
MOVEMENT**



FAN

AIR/OIL COOLER

INTAKE FILTER

INTAKE VALVE

COMPRESSOR UNIT

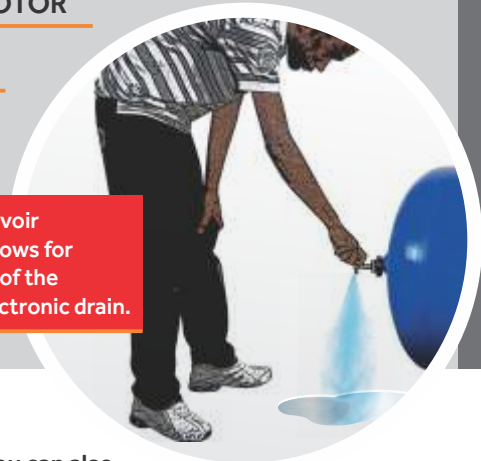
TRANSMISSION

ELECTRIC MOTOR

RESERVOIR

EASY DRAIN

Simplifies reservoir drainage and allows for the installation of the Cronomatic electronic drain.



You can also install an AQUA+ condensate treatment system.

DUALCONTROL

MAXIMUM ENERGY EFFICIENCY

In situations of higher or lower air consumption, the Rotor Plus operates in load/unload mode (compressing/not compressing), but always with the motor at normal speed.

If there is a period without air consumption, indicating user inactivity, the Dual Control automatically shuts down the compressor, which extends the life of the compressor unit, saving energy, keeping the oil in ideal conditions, and preventing overloads on the electrical network.

HUMAN/MACHINE INTERFACE

- Status indication:
 - Compressor starting
 - Load/Unload
 - Compressor off
 - Failure/Overhaul
 - Hour meter.
- Start and stop buttons.
- Emergency button.
- Relief timing before complete shutdown.
- Optimized timing for main motor start.



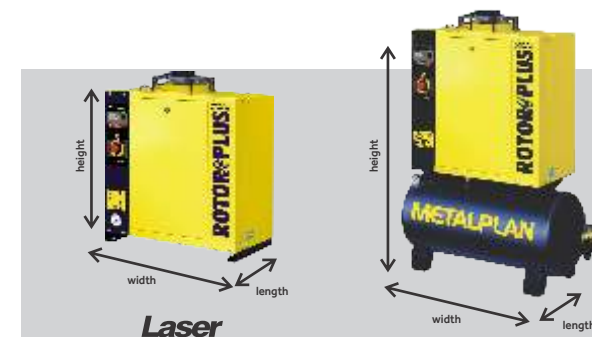
TECHNICAL DATA

Model	Power		ACTUAL FLOW RATE ⚠		Pressure		Power Supply (V/f/Hz)	Tank liters	Dimensions with tank width height length	Weight (kg)	Dryer Recommended
	hp	kW	cfm	m³/h	bar(e)	psi					
Rotor Plus 04	04	3,3	20,0	34,0	7,0	101	220/1/60	70	737 1190 422	114	D4 or Titan O20
			16,4	27,5	10,0	145	220/3/60				
Rotor Plus 06	06	4,5	28,2	47,9	7,0	101	220/3/60 380/3/60	100	1006 1258 402	166	D6 or Titan Plus O40
			27,4	46,6	8,0	116					
			24,9	42,3	10,0	145					
			22,8	38,8	12,0	174					
Rotor Plus 10	10	7,5	39,8	67,7	7,5	109	220/3/60 380/3/60 440/3/60	100	1006 1405 452	198	Titan Plus O40 (integrable)
			36,5	62,1	9,0	131					
			34,9	59,3	11,0	160					
			32,2	54,7	12,0	174					
Rotor Plus 15	15	11	61,4	104,4	7,5	109	220/3/60 380/3/60 440/3/60	163	1074 1705 508	290	Titan Plus O70 (integrable)
			55,9	95,0	9,0	131					
			51,3	87,2	11,0	160					
			47,6	80,9	12,0	174					
Rotor Plus <i>Laser</i>	15	11	36,4	61,8	16	232	220/3/60 380/3/60 440/3/60	ND	802 1175 508	232	Titan Plus <i>Laser</i>
Rotor Plus 20 ¹	20	15	73,3	124,6	7,5	109	220/3/60 380/3/60 440/3/60	163	1074 1705 508	305	Titan Plus O70 (integrable)
			73,3	124,6	9,0	131					
			67,8	115,3	11,0	160					
			65,2	110,8	12,0	174					
Rotor Plus 25	25	18,5	108,2	183,9	7,5	109	220/3/60 380/3/60 440/3/60	163	1074 1893 532	425	Titan Plus I10 (integrable)
			96,6	164,2	9,0	131					
			87,6	148,9	11,0	160					
			80,6	137,0	12,0	174					

1 - RP 20: the flow rates are the same at 7.5 and 9.0 bar(g).

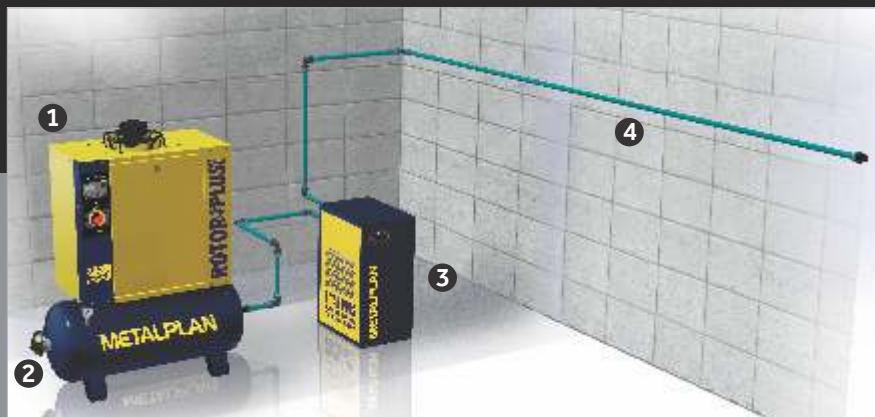


Select the compressor based on its **ACTUAL FLOW RATE**. For screw compressors, the actual flow rate is the same as the nominal flow rate. For reciprocating compressors, the actual flow rate is **30% lower** than the theoretical flow rate or nominal displacement.



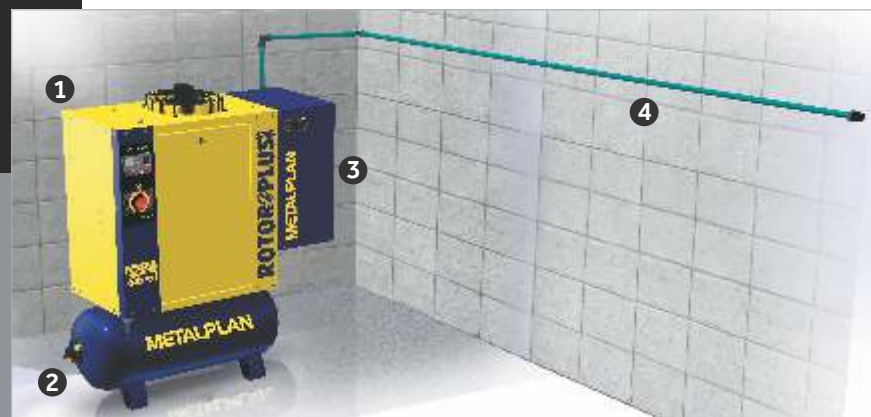
Effective free flow rate measured according to ISO-1217, Ed. 3, Annex C - 1996

PRACTICAL INSTALLATIONS FOR INDUSTRIAL AND PROFESSIONAL APPLICATIONS



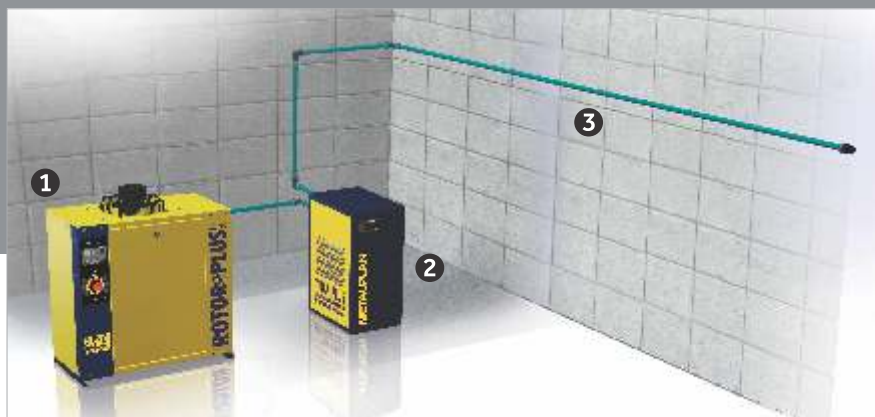
STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.6.1

- 1 - ROTOR PLUS compressor
- 2 - CRONOMATIC + EASY DRAIN valve
- 3 - TITAN PLUS dryer integrated with the compressor
- 4 - AIRLINE aluminum network



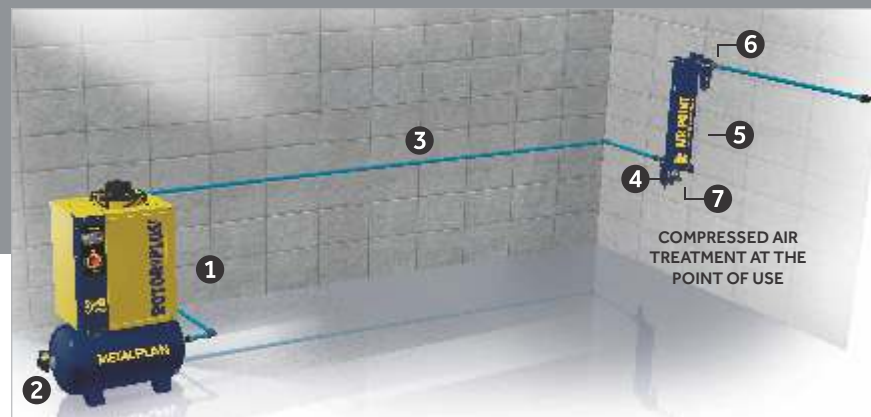
STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.6.1

- 1 - ROTOR PLUS compressor
- 2 - CRONOMATIC + EASY DRAIN valve
- 3 - TITAN PLUS dryer integrated with the compressor
- 4 - AIRLINE aluminum network



STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.5.1 / 1.6.1

- 1 - ROTOR PLUS compressor without tank
- 2 - TITAN PLUS dryer
- 3 - AIRLINE aluminum network



STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.5.1 / 1.6.1

- 1 - ROTOR PLUS compressor
- 2 - CRONOMATIC + EASY DRAIN valve
- 3 - AIRLINE aluminum network
- 4 - HYPERFILTER pre-filter (M40 grade)
- 5 - AIR POINT point-of-use dryer
- 6 - HYPERFILTER post-filter (M20 grade)
- 7 - CRONOMATIC drain valve

COMPRESSED AIR
TREATMENT AT THE
POINT OF USE

MARKS OF OUR HISTORY



ROTARY SCREW COMPRESSORS



4 to 25 hp

OIL INJECTED ROTARY SCREW COMPRESSORS



10 to 250 hp

OIL FREE SCROLL COMPRESSORS



5 up to 50 hp

BOOSTERS



20 up to 250 bar

REFRIGERATED DRYERS



20 to 9.600 cfm

DELIQUESCENT DRYERS



6 up to 32 cfm

DESICCANT DRYERS



15 up to 20.000 cfm

BREATHING AIR PURIFIERS



15 up to 800 cfm

COALESCING / ADSORBENT MICROBIOLOGICAL FILTERS



25 to 10.000 cfm

AUTOMATIC DRAINS



ELECTRONIC & MAGNETIC

WATER/OIL SEPARATOR



< 5 mg/m³

AIRLINE



PIPES & FITTINGS
100% ALUMINUM
25 up to 160 mm

OXYGEN PSA GENERATORS



PURITY FROM
93% up to 95%

NITROGEN PSA GENERATORS



PURITY FROM
95% up to 99.999%

ISO TOWER CLASS ZERO



60 up to 2.000 cfm

CHILLERS



1.000 up to 720.000 kcal



AIRCARE



96% OF CUSTOMERS FULLY SATISFIED

In an annual ISO 9001 audited survey, we achieved a 96% customer satisfaction rate for Technical Assistance. This percentage corresponds to the evaluations above 7 (seven), on a scale of 0 (zero) to 10 (ten).

This success is due to over 70 authorized workshops and 200 accredited technicians throughout American continent, supported by an exclusive partnership with SENAI for mechanic training, making our After-Sales Service the most acclaimed in the market.



Typical store

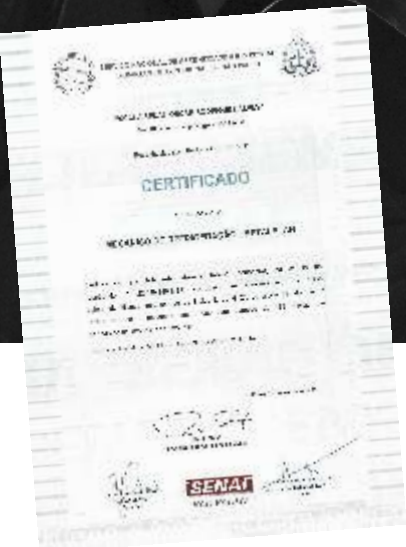
COMPREHENSIVE INVENTORY OF ORIGINAL PARTS



MAXIMUM EFFICIENCY IN AFTER-SALES SERVICE

70
CERTIFIED WORKSHOPS

200
SPECIALIZED TECHNICIANS



METALPLAN IS NUMBER ONE IN ENERGY EFFICIENCY

As the absolute leader in rotary screw compressors up to 25 hp in Brazil, Metalplan is the world's first* compressor manufacturer accredited in ISO 50001 - Energy Management, demonstrating its commitment to energy efficiency, the foundation for sustainability and competitiveness of companies.

Founded in 1986, Metalplan has a production area of 6.000 m², developing innovative equipment with a high level of nationalization, exporting to over 20 countries.

Its network of authorized distributors and service centers includes over 300 highly specialized companies with extensive geographic coverage, capable of servicing over 100.000 operating equipment.

In recent years, Metalplan has been expanding its horizons to disruptive technologies in gases and renewable energies, such as on-site generation and compression of nitrogen, oxygen, biogas, biomethane, CO₂ and GNV.



ISO 9001

ISO 50001



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