

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
80 cfm¹ Acquisition Energy Overhaul	 15 hp 15 hp \$ 7.400 \$ 172.000 \$ 72.000	 10 hp 10 hp \$ 9.400 \$ 116.000 \$ 25.000	 BRAND NEW PORSCHE
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



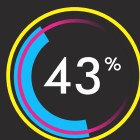
LOWER

OVERHAUL COST



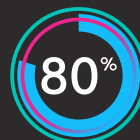
LOWER

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
Savings¹

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 (\$8000) (\$50.00/hr/1000)

ROTARY SCREW COMPRESSORS **ROTOR PLUS**



4 to 25 hp



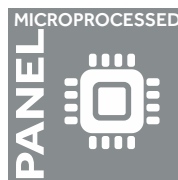
INTEGRABLE
DRYER &
FILTERS

Integrated
**AFTER
COOLER**

SCREW VS PISTON COMPARISON



LOWER
**80%
NOISE**



AFTER-COOLER STARTING FROM 18P10

**EASY
DRAIN**
standard

Synthetic Oil
**8000
hours**



OPTIONAL ELECTRONIC DRAIN

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

**MADE
in
BRAZIL**

FAN

AIR/OIL COOLER

INTAKE FILTER

INTAKE VALVE

COMPRESSOR UNIT

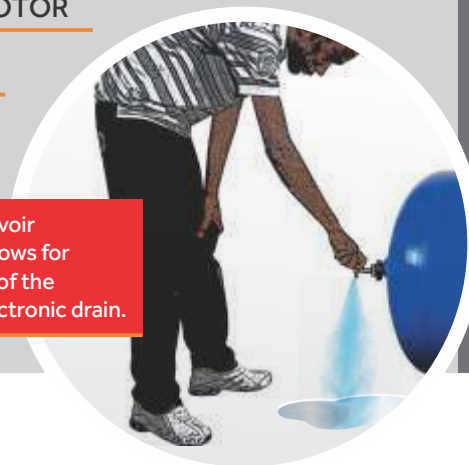
TRANSMISSION

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 16,4	34,0 27,5	7,0 10,0	101 145	220/1/60 220/3/60 380/3/60	70	737 1140 417	114	D4 or Titan 020
Rotor Plus 06	06	4,5	28,2 27,4 24,9 22,8	47,9 46,6 42,3 38,8	7,0 8,0 10,0 12,0	101 116 145 174	220/3/60 380/3/60	100	1006 1258 402	166	D6 or Titan Plus 040
Rotor Plus 10	10	7,5	39,8 36,5 34,9 32,2	67,7 62,1 59,3 54,7	7,5 9,0 11,0 12,0	109 131 160 174	220/3/60 380/3/60 440/3/60	100	1006 1405 452	198	Titan Plus 040 (integrable)
Rotor Plus 15	15	11	61,4 55,9 51,3 47,6	104,4 95,0 87,2 80,9	7,5 9,0 11,0 12,0	109 131 160 174	220/3/60 380/3/60 440/3/60	163	1074 1705 508	290	Titan Plus 070 (integrable)
Rotor Plus <i>Laser</i>	15	11	36,4	61,8	16	232	220/3/60 380/3/60 440/3/60	ND 163	802 1175 508 1074 1705 508	232 290	Titan Plus <i>Laser</i>
Rotor Plus 20 ¹	20	15	73,3 73,3 67,8 65,2	124,6 124,6 115,3 110,8	7,5 9,0 11,0 12,0	109 131 160 174	220/3/60 380/3/60 440/3/60	163	1074 1705 508	305	Titan Plus 070 (integrable)
Rotor Plus 25	25	18,5	108,2 96,6 87,6 80,6	183,9 164,2 148,9 137,0	7,5 9,0 11,0 12,0	109 131 160 174	220/3/60 380/3/60 440/3/60	163	1074 1893 532	425	Titan Plus 110 (integrable)

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

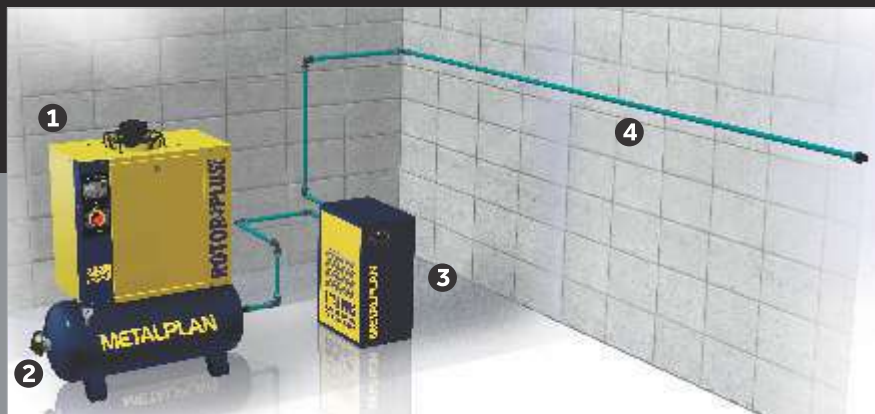


Select the compressor based on its **ACTUAL FLOW RATE**. For screw compressors, the actual flow rate is the same as the nominal flow rate. For reciprocating compressors, the actual flow rate is **30% lower** than the theoretical flow rate or nominal displacement.



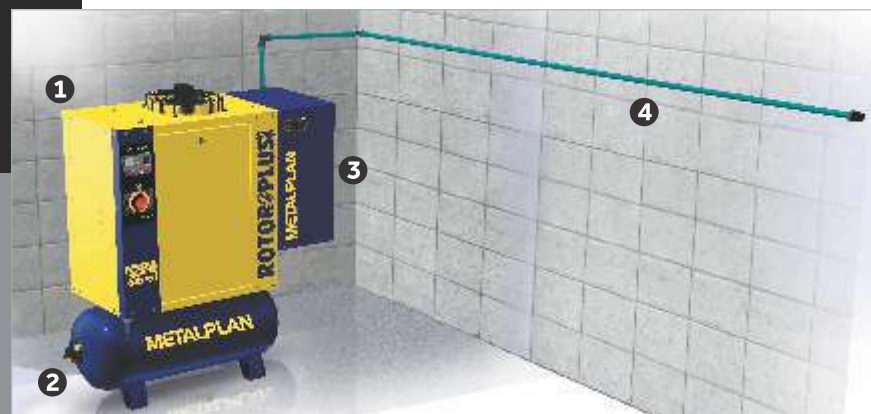
Effective free flow rate measured according to ISO-1217, Ed. 3, Annex C - 1996

PRACTICAL INSTALLATIONS FOR INDUSTRIAL AND PROFESSIONAL APPLICATIONS



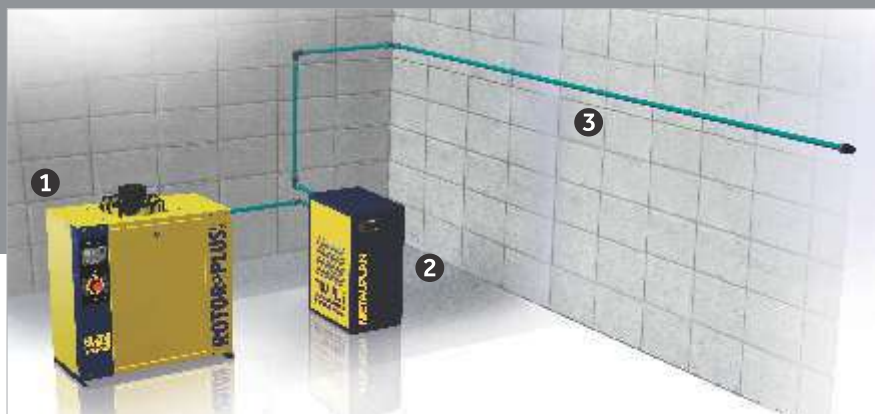
**STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.6.1**

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



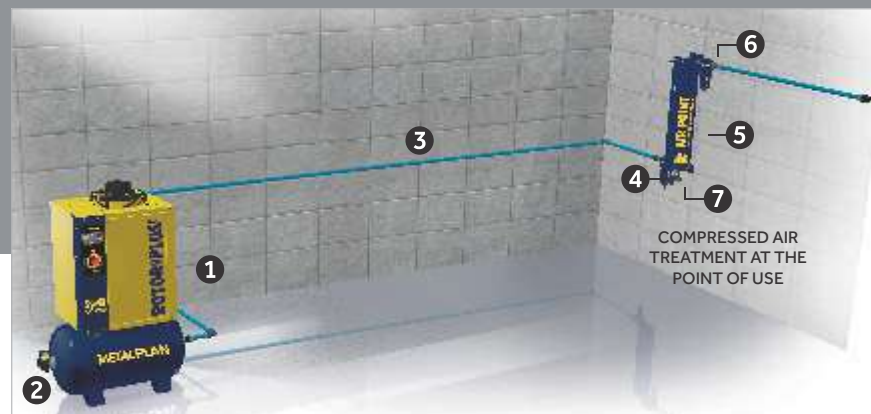
**STANDARD COMPLIED WITH: ISO 8573
CLASSES 1.4.1 / 1.6.1**

- 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

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



METALPLAN

www.metalplan.com
export@metalplan.com.br

55 11 4448-6900 |    

FIRST COMPRESSOR
MANUFACTURER IN THE
WORLD ACCREDITED

ISO 50001
ENERGY MANAGEMENT