



FIRST COMPRESSOR
MANUFACTURER IN THE
WORLD ACCREDITED

ISO 50001

ENERGY MANAGEMENT

SCREW COMPRESSOR
WITH INTEGRATED DRYER & FILTERS

METALPLAN
AIRPOWER

METALPLAN IS NUMBER ONE IN ENERGY EFFICIENCY

As the absolute leader in 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 CNG.



*in the compressed air, gases and industrial refrigeration segment.

1980

1986 FOUNDATION
1987 AIR TANKS AFTERCOOLERS FILTERS

1990

1992 OWN HEADQUARTERS
1993 ELECTRONIC DRAINS
1994 COMPRESSED AIR DRYERS

2000

2002 ISO 9001 QUALITY MANAGEMENT
2003 CHILLERS

2010

2004 AIR AND GAS ULTRA-COOLERS
2006 ROTARY SCREW COMPRESSORS
2011 ALUMINUM PIPES/FITTINGS
2012 ISO 50001 ENERGY MANAGEMENT
2014 PSA NITROGEN GENERATORS
2015 WATER/OIL SEPARATORS

2020

2019 MEDICAL COMPRESSED AIR MODULES
2021 PSA OXYGEN GENERATORS
2022 BIOGAS/BIOMETHANE, CO₂ AND CNG
2024 USA SUBSIDIARY

2030

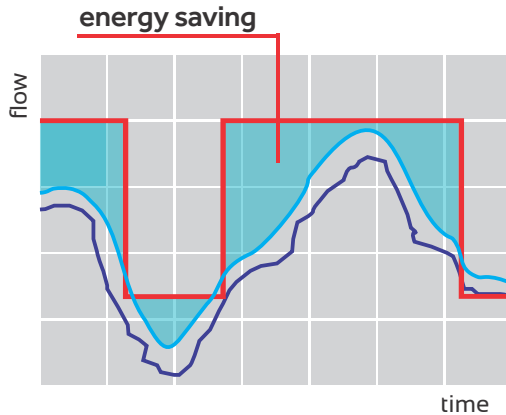
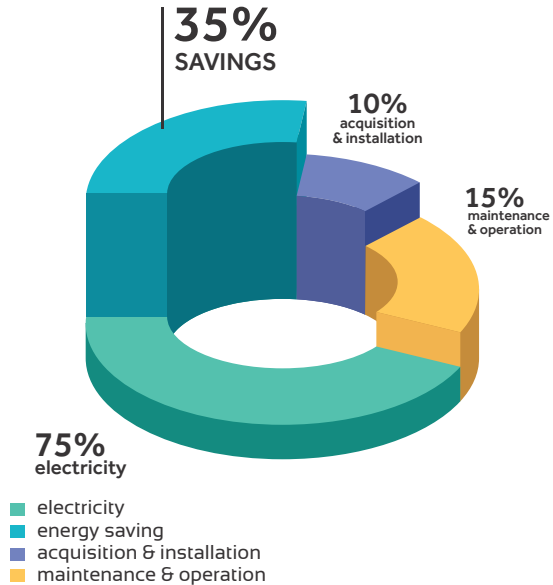
*"Since they started operating,
Metalplan screw compressors have
greatly contributed to the success
of Cacau Show!"*

Alexandre Costa
President



FLEX TECHNOLOGY

FLEX technology - variable speed - ensures up to 35% energy consumption reduction compared to conventional compressors.



SCREW COMPRESSOR TOTALPACK FLEX DD WITH INTEGRATED DRYER & FILTERS



INTEGRATED
DRYER &
FILTERS

10 to
250 hp

Over twenty thousand installed units attest to the reliability of Metalplan compressors, recognized for their energy efficiency, simplicity, robustness, embedded electronics, and low maintenance costs.

FREQUENCY INVERTER MODULE

SPEED CONTROLLER

Controls the rotation of the electric motor and produces compressed air according to user demand, with proportional energy savings.



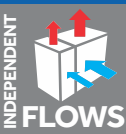
MASTERCONTROL

Microprocessed panel with intuitive HMI. Allows the operator comprehensive vision and control, with memorization of fundamental data.



COOLING

Airflow is independent in each module. The exhaust of hot air occurs on the upper face, avoiding recirculation and facilitating its extraction.



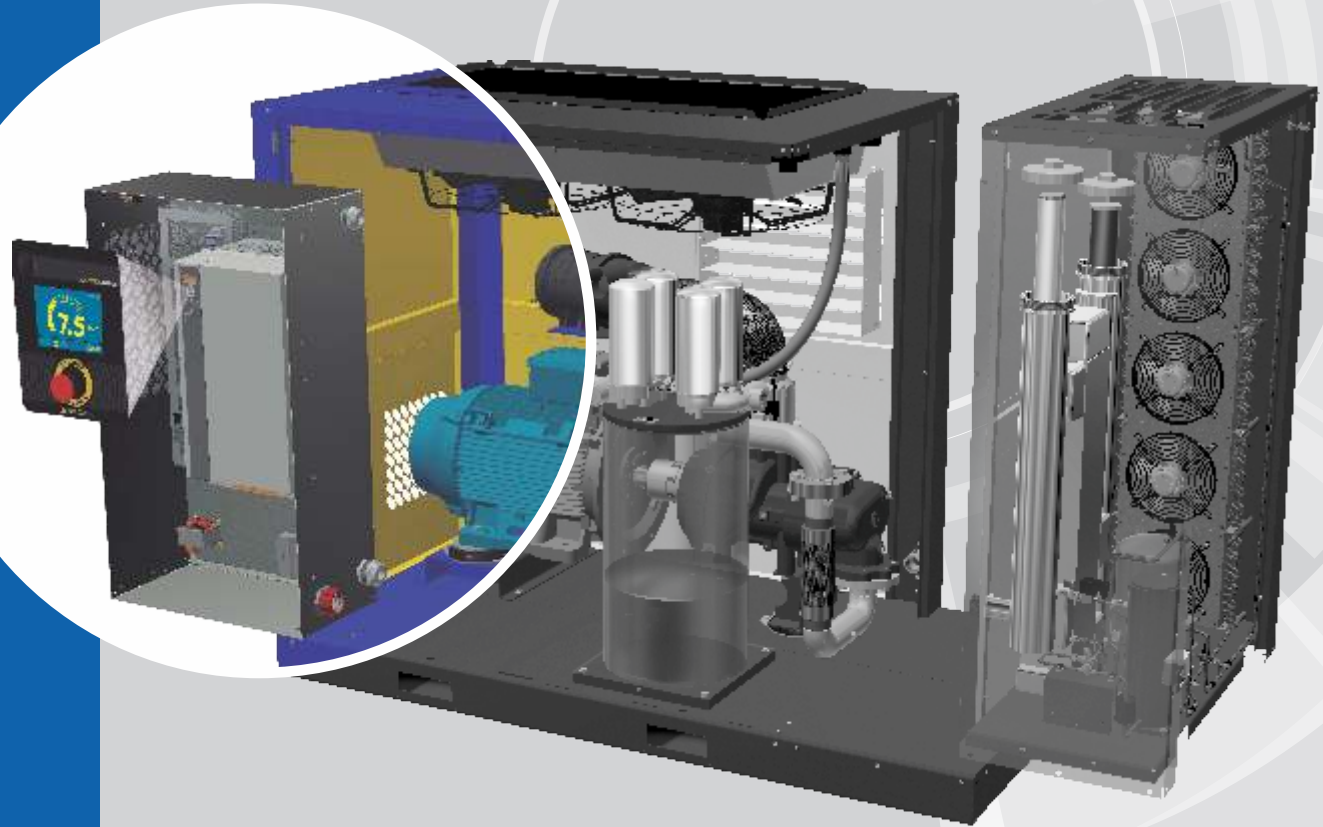
NOISE LEVEL

In compliance with current legislation, Metalplan compressors provide a noise level of 72 ± 3 dBA, according to ISO 2125. This allows them to be installed close to users.



TOTALPACK FLEX DD

FULLY INTEGRATED MODULES





INTEGRATED VALVES

Few moving parts contribute to the reliability of the assembly and ease of repair. Contains the thermostatic valve, minimum pressure valve, and thermal probe.



HIGH-EFFICIENCY MOTOR

Standard market motors (IR2 and IR3): reduce energy consumption between 7% and 14%. Attention to compressors that use motors with customized housings that are difficult to replace.



DIRECT COUPLING

1 x 1 SPEED RATIO
Electric motor RPM = Compressor unit RPM.



INTAKE FILTER HEAVY DUTY

With three stages of filtration, it presents high separation efficiency, low flow restriction, and maximum protection for the compressor, even in contaminated environments.



SPIN ON FILTERS

Oil filter and coalescing separator located away from the oil tank: quick maintenance and maximum purity of compressed air.

ROTOR OIL EXTRA ECOBLUE

High-durability synthetic lubricant (8000 hours), with additives to operate in hot climates and high humidity.

ROTOR OIL EXTRA FOOD GRADE

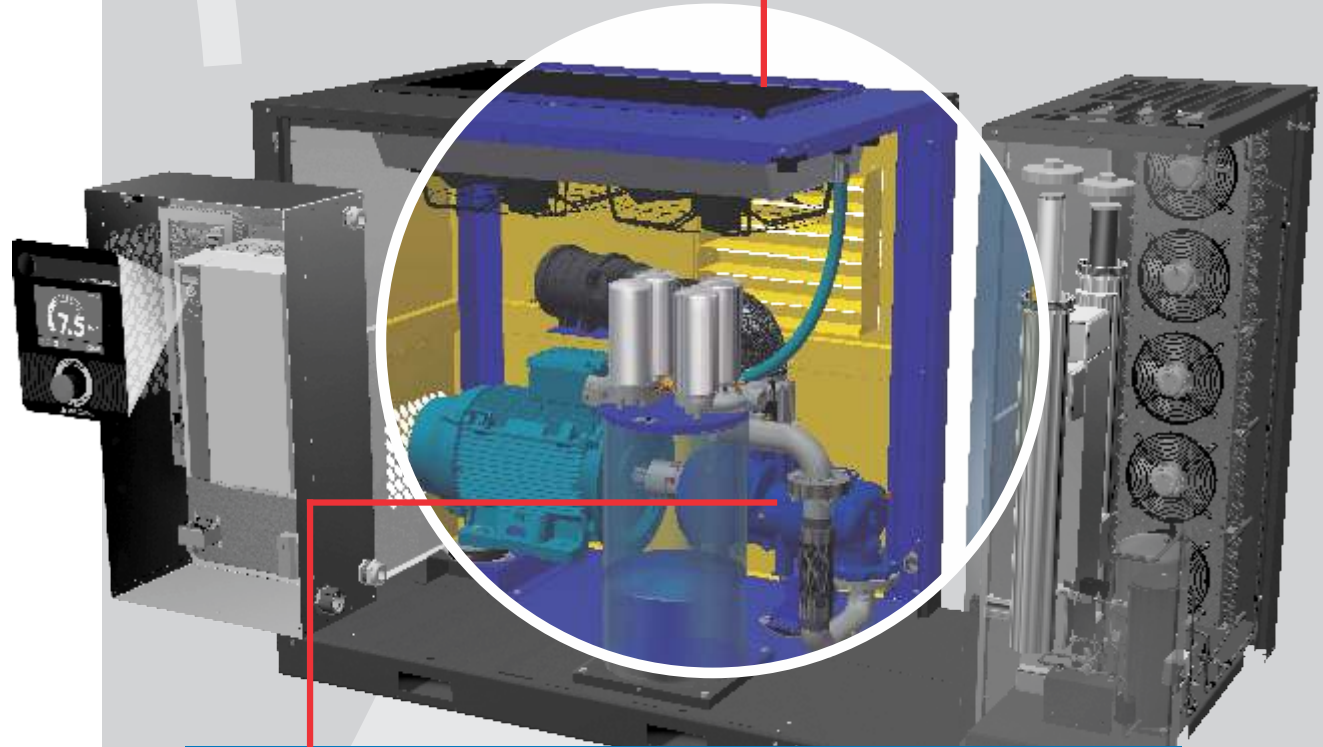
100% oil-free equivalent. Non-toxic and indispensable in the food industry.

COMPRESSOR MODULE

THE HIGHEST ISOTHERMAL EFFICIENCY IN ITS CATEGORY

HEAT EXCHANGERS

Brazed aluminum, oversized, and responsible for the low temperatures of the system. Alongside the large compressor unit, they ensure maximum isothermal efficiency and unbeatable energy efficiency.



COMPRESSOR UNIT

Made in Italy since 1912, one of the most efficient in the world, with the first overhaul capable of reaching up to 48,000 hours of operation! Due to its large size and low rotation, it operates at lower temperatures in the compression chamber and also facilitates heat transfer to the lubricating oil, legitimizing the reputation for high isothermal efficiency of the assembly. This implies a higher airflow per kWh consumed.



INTEGRATED DRYER & FILTERS



fine coalescing prefilter

refrigeration dryer

ultra-thin coalescent post-filter

ISO 8573

EXCLUSIVITY TECHNICAL

Unique in the correct sequence of ISO 8573 [1.4.1].



**MOST
RESISTANT**

HIGH TEMPERATURE DESIGN

The most resistant at high temperatures. Designed for all climates (ISO 7183-A2).

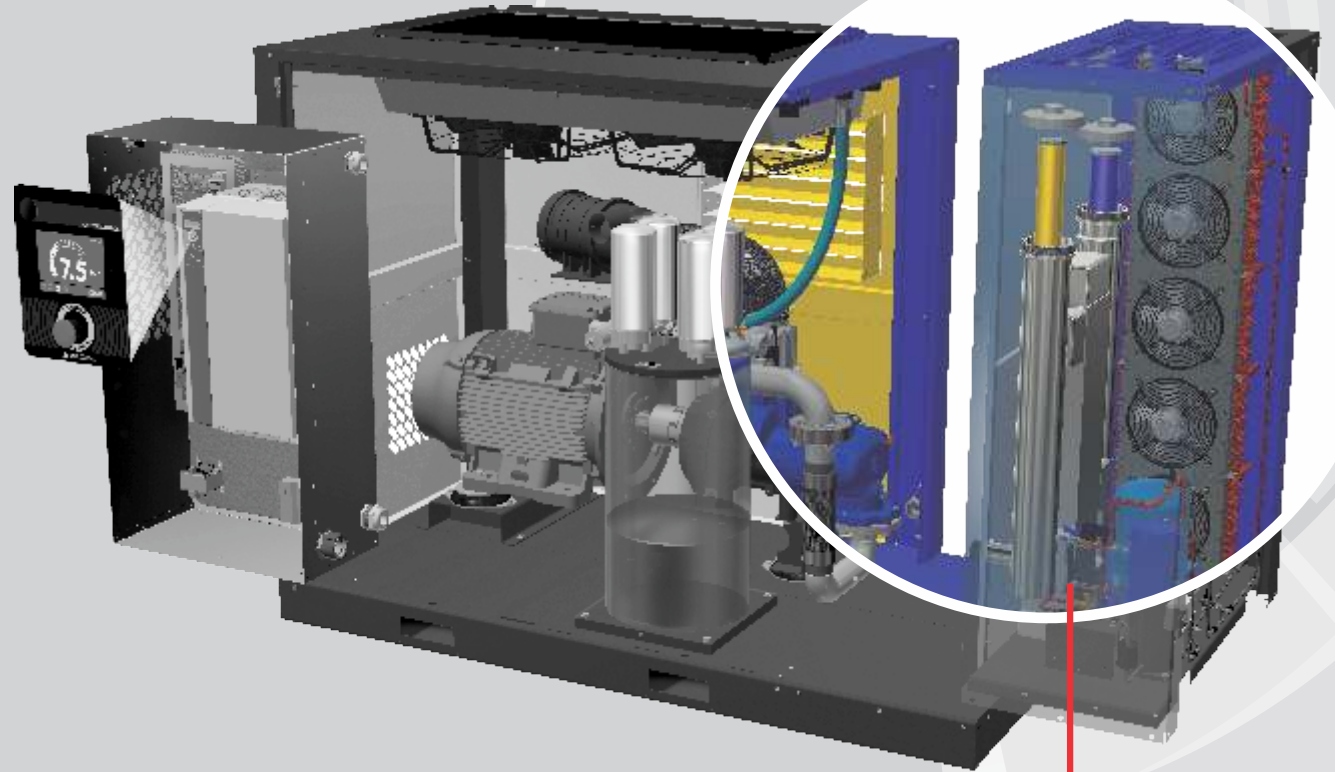


**TRIPLE
INSULATION**

TRIPLE INSULATION

The dryer & filters module is insulated from the compressor module by a steel plate and two layers of thermal insulation, with a thickness of 60 mm.

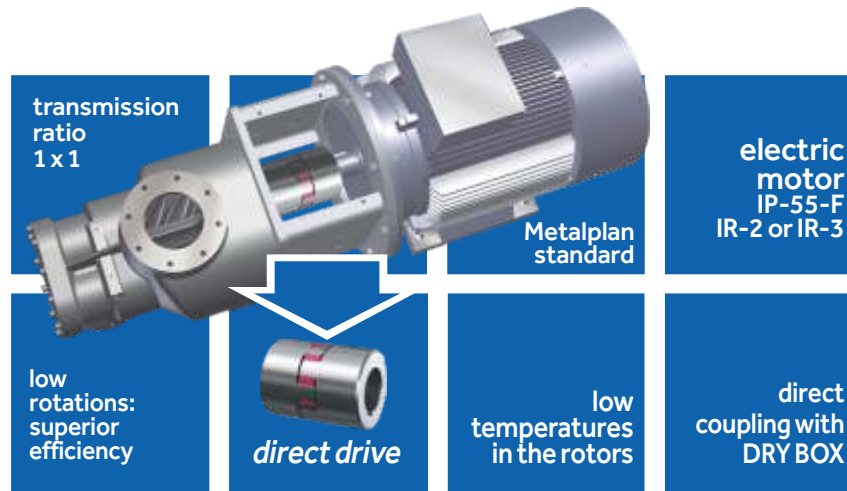
DRYER & FILTERS MODULE



EXCLUSIVE

DIRECT COUPLING: HIGHER ENERGY EFFICIENCY Unit RPM = Motor RPM

- Eliminates losses from traditional transmissions.
- Allows low speeds in the compressor unit.
- Results in lower oil and air temperatures.
- Provides high energy efficiency.
- Ensures the highest flow per horsepower in the market.

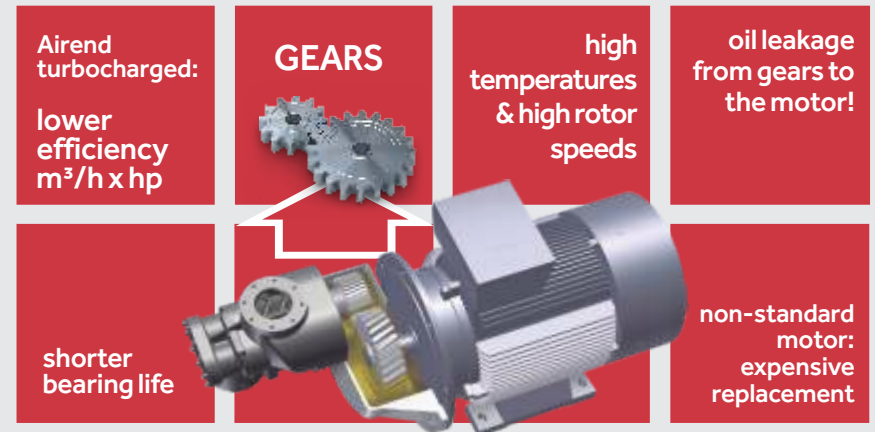


ADVANTAGES OF DIRECT COUPLING

The direct coupling of Metalplan's TotalPack DD compressors represents the latest in transmission technology, approaching 100% efficiency, while gears do not exceed 97%. The box where the direct coupling is located is limited to a depressurized and lubrication-free structure.

DISADVANTAGES OF "DIRECT TRANSMISSION"

The so-called direct transmission is nothing more than a lubricated and pressurized gear case, in direct contact with the electric motor. Sealing is done by seals and seals subject to rupture, causing motor burnout. Since it is a motor with a specific housing and attached gears, its cost is at least 4 times higher than a conventional motor and cannot be purchased from retailers.





MASTERCONTROL

Comprehensive and user-friendly, the MasterControl allows the user fast, intuitive, and secure navigation, simplifying the operation and maintenance of the compressor.

MAN-MACHINE INTERFACE TOUCHCONTROL

Permanent display of the compressor's main functions:

- Off/Starting/Stopped
- Load/Relief-Maintenance/Failures
- Standby
- Compressed air inlet temperature
- Condensation temperature
- Discharge pressure/temperature
- Dew Point (TotalPack)
- Load/Relief hour meter
- Pressures and temperatures in graphic format
- AUDIBLE AND VISUAL MAINTENANCE AND FAULT ALARM

DUAL CONTROL FUNCTION

When there is air consumption, the Dual Control function operates the compressor in the load/relief system. When the compressed air consumption ceases, Dual Control automatically shuts down the compressor, provided a pre-defined minimum time has been reached. This feature saves energy and extends compressor life.

ENERGY OPTIMIZATION SETTINGS

- Load/Relief pressure adjustment
- Pressure set point adjustment (Flex only)
- Motor rotation control
- Automatic flow adjustment based on set point
- Standby mode switching to continuous mode
- Stepped operation with more than one compressor
- Timing for low-pressure alarm in case of major leaks in the compressed air network

PREVENTIVE MAINTENANCE WARNING

Text messages based on countdown time indicate the correct time for part and component replacement, component cleaning, and overall compressor inspection.

GENERAL DIAGNOSTIC

- Failure and alert history of the last 50 records
- Overcurrent of all electric motors
- High oil and dew point temperatures
- High compressed air pressure
- High/Low pressure of the integrated dryer
- Pre-cooling timing of the integrated dryer
- Sensor failure/Calibration of temperature and pressure sensors
- Optimized timing of main motor/purge start
- General failure (via terminals)

SPECIAL FUNCTIONS

- Temperature and pressure calibration
- Optimized motor start timing
- Remote start/stop - Remote load/relief
- 100% communication via modbus
- Unit conversion (°C/°F) - (bar/psi)
- Languages: Portuguese/English/Spanish

INTEGRAL TELEMETRY*

* optional

TECHNICAL DATA

TOTALPACK FLEX DD/ POWERPACK FLEX DD FLOW RATES X PRESSURES

Power	Effective Flow Rate		Pressure	
	hp (kW)	pcm	m ³ /h	bar(e)
50° (37)	83 – 245	141 – 416	7,5	109
	82 – 231	139 – 393	9	131
	81 – 212	138 – 361	11	160
	80 – 197	136 – 336	12,5	181
60° (45)	115 – 302	196 – 514	7,5	109
	114 – 284	194 – 482	9	131
	111 – 257	189 – 437	11	160
	109 – 237	185 – 403	12,5	181
75° (55)	115 – 378	196 – 643	7,5	109
	114 – 351	194 – 596	9	131
	111 – 315	189 – 536	11	160
	109 – 288	185 – 489	12,5	181
100° (75)	212 – 529	360 – 900	7,5	109
	210 – 476	357 – 809	9	131
	208 – 404	354 – 687	11	160
	205 – 352	349 – 598	12,5	181
125° (90)	212 – 625	360 – 1063	7,5	109
	210 – 588	357 – 1000	9	131
	208 – 538	354 – 914	11	160
	205 – 499	349 – 849	12,5	181
150° (110)	303 – 791	515 – 1345	7,5	109
	297 – 738	505 – 1255	9	131
	295 – 668	502 – 1135	11	160
	293 – 615	498 – 1045	12,5	181
200° (150)	435 – 1075	740 – 1828	7,5	109
	362 – 867	615 – 1475	9	131
	324 – 770	550 – 1308	11	160
	307 – 709	522 – 1205	12,5	174
250° (185)	497 – 1202	845 – 2044	7,5	109
	443 – 987	753 – 1678	9	131
	397 – 859	675 – 1460	11	160
	359 – 768	610 – 1306	12,5	174

PP/TP-200/250 DD: GEAR BOX

*Available only in 380V and 440V for FLEX models (frequency inverter)

TOTALPACK FLEX DD/ POWERPACK FLEX DD DIMENSIONS

Model	Dimensions (mm)		
	length	height	width
PowerPack Flex DD 050	1084	1725	1782
TotalPack Flex DD 050	1084	1725	2272
PowerPack Flex DD 060	1084	1725	1782
TotalPack Flex DD 060	1084	1725	2272
PowerPack Flex DD 075	1084	1725	1782
TotalPack Flex DD 075	1084	1725	2272
PowerPack Flex DD 100	1287	1857	1867
TotalPack Flex DD 100	1287	1857	2452
PowerPack Flex DD 125	1653	1915	2396
TotalPack Flex DD 125	1653	1915	2954
PowerPack Flex DD 150	1653	1915	2396
TotalPack Flex DD 150	1653	1915	2954
PowerPack Flex DD 200	1965	2224	2692
TotalPack Flex DD 200	1965	2224	3546
PowerPack Flex DD 250	1965	2224	2692
TotalPack Flex DD 250	1965	2224	3546

OPTIONAL ITEMS & ENGINEERED EQUIPMENT

Metalplan compressors can be customized according to your application. Special colors, weather protection, extended sound insulation, heat exchangers, filters for aggressive environments, and many other items are available for consideration.

TOTALPACK FLEX/ POWERPACK FLEX FLOW RATES X PRESSURES

Power	Effective Flow Rate		Pressure	
	hp (kW)	pcm	m ³ /h	bar(e)
10 (7,5)	39,8	67,7	7,5	109
	36,5	62,1	9,0	131
	34,9	59,3	11,0	160
	32,2	54,7	12,0	174
15 (11)	61,4	104,4	7,5	109
	55,9	95,0	9,0	131
	51,3	87,2	11,0	160
	47,6	80,9	12,0	174
25 (18,5)	108,2	183,9	7,5	109
	96,6	164,2	9,0	131
	87,6	148,9	11,0	160
	80,6	137,0	12,0	174
30 (22)	127,3	216,4	7,5	109
	116,7	198,4	9,0	131
	106,1	180,3	11,0	160
	95,5	162,3	12,0	174
40 (30)	179,5	305,2	7,5	109
	167,1	284	9,0	131
	157,7	268,1	11,0	160
	142,1	241,6	12,0	174
	116,5	198,8	16,0	232
50 (37)	216,9	368,7	7,5	109
	201,3	342,2	9,0	131
	188,9	321	11,0	160
	176,4	299,9	12,0	174
60° (45)	250,7	426,2	7,5	109
	233	396,1	9,0	131
	212,5	361,3	11,0	160
	199,4	339	12,0	174
75° (55)	330	561	7,5	109
	303,2	515,4	9,0	131
	284,4	483,5	11,0	160
	265,6	451,5	12,0	174
100° (75)	429	729,3	7,5	109
	398,8	677,9	9,0	131
	368,6	626,6	11,0	160
	328,6	558,6	12,0	174

*Available only in 380V and 440V for FLEX models (frequency inverter)

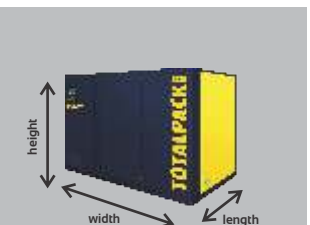
TOTALPACK FLEX/ POWERPACK FLEX DIMENSIONS

Model	Dimensions (mm)		
	length	height	width
PowerPack 010	452	1022	1027
TotalPack 010	452	1022	1344
PowerPack Flex 010	452	1022	1027
TotalPack Flex 010	452	1022	1344
PowerPack 015	500	1191	1027
TotalPack 015	500	1191	1394
PowerPack Flex 015	500	1191	1027
TotalPack Flex 015	500	1191	1394
PowerPack 025	532	1380	1307
TotalPack 025	532	1380	1674
PowerPack Flex 025	532	1380	1277
TotalPack Flex 025	532	1380	1674
PowerPack 030	1142	1465	1098
TotalPack 030	1142	1465	1554
PowerPack Flex 030	1142	1465	1098
TotalPack Flex 030	1142	1465	1554
PowerPack 040	1142	1465	1098
TotalPack 040	1142	1465	1554
PowerPack Flex 040	1142	1465	1098
TotalPack Flex 040	1142	1465	1554
PowerPack 050	1142	1465	1098
TotalPack 050	1142	1465	1554
PowerPack Flex 050	1142	1465	1098
TotalPack Flex 050	1142	1465	1554
PowerPack 060	1468	1633	1405
TotalPack 060	1468	1633	1877
PowerPack Flex 060	1468	1633	1865
TotalPack Flex 060	1468	1633	2337
PowerPack 075	1468	1633	1405
TotalPack 075	1468	1633	1877
PowerPack Flex 075	1468	1633	1865
TotalPack Flex 075	1468	1633	2337
PowerPack 100	1468	1633	1405
TotalPack 100	1468	1633	1877
PowerPack Flex 100	1468	1633	1865
TotalPack Flex 100	1468	1633	2337

Performance according to ISO1217:2009, Annexes C and E

IMPORTANT

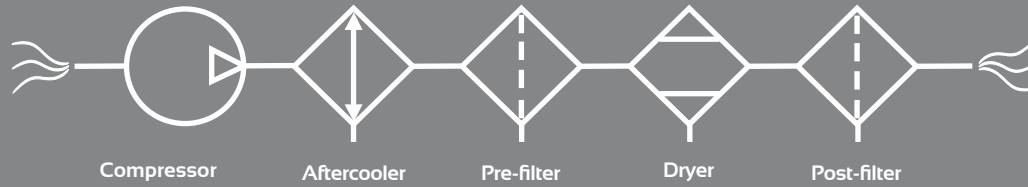
- 1 - The compressor should never be exposed to adverse weather conditions (rain, sun, snow, etc.).
- 2 - The ambient temperature at the chosen compressor installation site should always be within the limits indicated in the instruction manual.
- 3 - Have a backup compressor in case the main compressor stops due to malfunction or activation of its protection devices.



COMPRESSED AIR FUNDAMENTALS



ISO 8573 STANDARD INSTALLATION



Compressor Aftercooler Pre-filter Dryer Post-filter

CONTAMINANTS & QUALITY CLASSES

class	SOLID PARTICLES maximum number of particles per m ³ (d = particle size)			class	WATER moisture dew point (°C)	class	OIL - total concentration (liquid/aerosol/vapor) (mg/m ³)
	0,1µm < d ≤ 0,5µm	0,5µm < d ≤ 1µm	1µm < d ≤ 5µm				
0	CLASS ZERO - as specified by the user or equipment supplier and stricter than Class 1						
1	≤ 20.000	≤ 400	≤ 10	1	-70	1	≤ 0,01
2	≤ 400.000	≤ 6.000	≤ 100	2	-40	2	≤ 0,1
3	-	≤ 90.000	≤ 1.000	3	-20	3	≤ 1
4	-	-	≤ 10.000	4	+3	4	≤ 5
5	-	-	≤ 100.000	5	+7	5	-
	Mass concentration - C _p (mg/m ³)	6	+10	6	-		
		Liquid Water C _w g/m ³)					
6	0 < C _p ≤ 5	7	C _w ≤ 0,5	7	-		
7	5 < C _p ≤ 10	8	0,5 < C _w ≤ 5	8	-		
8	-	9	5 < C _w ≤ 10	9	-		
9	-	X	C _w > 10	X	> 5		
X	C _p > 10						

ISO 8573 COMPRESSED AIR FOR GENERAL USE

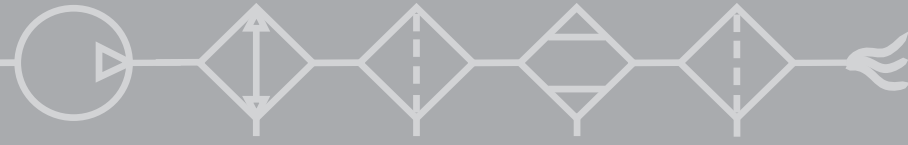
ISO 8573 is the international reference for compressed air systems, focusing on contamination levels.

The standard has various quality classes that serve multiple applications in industry and services, excluding human breathing and medicinal use.

Published in 1991, it was translated by Metalplan in 1992, positioning Brazil at the forefront of its utilization.

Its 3rd edition is from 2010, when Class Zero was introduced, with purity levels stricter than those found in Class One.

COMPRESSED AIR FUNDAMENTALS



ISO 8573 TYPICAL SYSTEMS	quality class	APPLICATIONS
	[1:6:1] ²	Dry air, with dew point between 5°C and 15°C. Ideal for low flows and protection of valves, cylinders, pneumatic tools, automation, blasting, painting, etc.
	[1:6:1] ² [1:6:0] ²	Activated carbon filter eliminates odors, with residual oil of 0.003 mg/m ³ , suitable for dental clinics and similar applications, except for human breathing.
	[1:4:1]	This is the most used treatment system in the industry. Its level of protection meets various sectors such as automotive, plastic, textile, paper, mechanical, metallurgical, etc.
	[1:4:0]	Quality similar to the previous system, with odor elimination and lower residual oil (0.003 mg/m ³), important in N ₂ and O ₂ generation and in the food, chemical, pharmaceutical industries, etc.
	[1:4:0]	Quality similar to the two previous systems, in terms of "water" and "solid particles". Meets Class Zero for the "oil" contaminant with total safety.
	[1:2:1]	Prevents vapor absorption when air comes into direct contact with hygroscopic materials (cement, resins, powdered or freeze-dried foods and pharmaceuticals). Prevents freezing when air is subjected to negative temperatures. Applied in the generation of gases of very high purity.
	[1:1:1]	Low dew point and maximum particle retention are essential in the manufacture of optical fibers, chips, critical instrumentation, steelmaking, nuclear reactors, etc.
	[1:2:0] [1:1:0]	Quality similar to the two previous systems, in terms of "water" and "solid particles". Meets Class Zero for the "oil" contaminant with total safety.

1 Energy Plus and Titan Plus dryers have integrated pre and post-filters
2 only if the compressed air inlet temperature is < 25°C

Install an AQUA + condensate treatment system.

DECIPHERING CLASS ZERO

When drafting Class Zero, ISO 8573 failed to adopt the necessary clarity. See the original text:

"Class 0: as specified by the equipment user or supplier and more stringent than Class 1"

The standard requires that the contamination levels of Class Zero be **lower** – "more stringent" – than the levels of Class One, meaning, **the maximum levels of Class Zero must be below the lowest levels of Class One**. However, the standard does not establish the limit between these levels. When referring to the oil contaminant, we know that the most sophisticated instruments can detect up to 0.003 mg of oil in each m³ of compressed air. Therefore, this is the value that should be adopted as the minimum level of Class One and the maximum of Class Zero.

CHOOSE THE MOST SUITABLE CLASS FOR YOUR APPLICATION

When specifying the quality of compressed air, never go beyond the user's needs, avoiding high costs and inconveniences.

An example is the increasing demand for "100% oil-free/Class Zero" compressed air, even when there is no basis for it. There are specifications that opt for excessive caution, without considering that it is easy to eliminate the risk of contamination with very affordable devices.

It is up to the user, with the support of experts, to define the necessary and sufficient technical requirements for their application.

For situations where even the slightest presence of oil is not tolerable, a synthetic, non-toxic, colorless, and odorless lubricant can be used, of the food-grade type, approved and recommended by : National Health Surveillance Agency



OIL RESIDUE - ISO 8573



CASE STUDY

COMPRESSOR POWER	100 hp
TOTAL FLOW OF COMPRESSED AIR	7.7 million m ³ /year
TOTAL MASS OF COMPRESSED AIR	10 thousand tons/year
OIL RESIDUE IN CLASS ONE	86 grams/year
OIL RESIDUE IN CLASS ZERO	26 grams/year

OIL-FREE COMPRESSED AIR: DEBUNKING MYTHS

Air compressors draw in ambient air and all contamination around them: water vapor, oil vapor, and solid particles.

"Oil vapor" is the generic term for the combination of oil vapors, hydrocarbon vapors, and volatile organic compound (VOC) vapors present in the ambient air¹.

The concentration of oil vapors in the atmosphere is typically between 0.05 mg/m³ and 5 mg/m³ but can reach even higher levels in dense industrial or urban areas.

According to the UN, the ambient air in certain regions may contain a level 100 thousand times higher than Class Zero² of ISO 8573 Standard allows.

Conclusion: regardless of the type of compressor – **lubricated or oil-free** – the presence of oil in compressed air is inevitable, requiring appropriate treatment immediately after compression. Effectively, when using an oil-free compressor, achieving Class Zero is easier, while a lubricated compressor will require more safety devices.



THE AMBIENT AIR CAN CONTAIN UP TO 100 THOUSAND TIMES MORE OIL VAPORS THAN CLASS ZERO PERMITS



SOURCE	OIL CONCENTRATION – C	ISO 8573
CAGI – Compressed Air and Gas Institute (USA)	0.05 mg/m ³ ≤ C ≤ 0.5 mg/m ³	Classes 2 and 3
OSHA – Occupational Safety and Health Administration (USA)	C ≤ 5 mg/m ³	Class 4
MTb – Ministry of Labor (Brazil)	C ≤ 5 mg/m ³	Class 4
UN – United Nations Industrial Development Organization	C ≤ 300 mg/m ³	Class X

GLOSSARY

¹ **Hydrocarbon:** organic compound formed by hydrogen and carbon atoms.

Oil: mixture of hydrocarbons formed by six or more carbon atoms (C6+).

Volatile Organic Compound: carbon compounds with a high vaporization rate (benzene, ethanol, acetone, formaldehyde, etc.)

² **Class Zero:** oil residue ≤ 0.003 mg/m³

COMPRESSED AIR FUNDAMENTALS



ACHIEVING ZERO CLASS WITH ZERO RISK

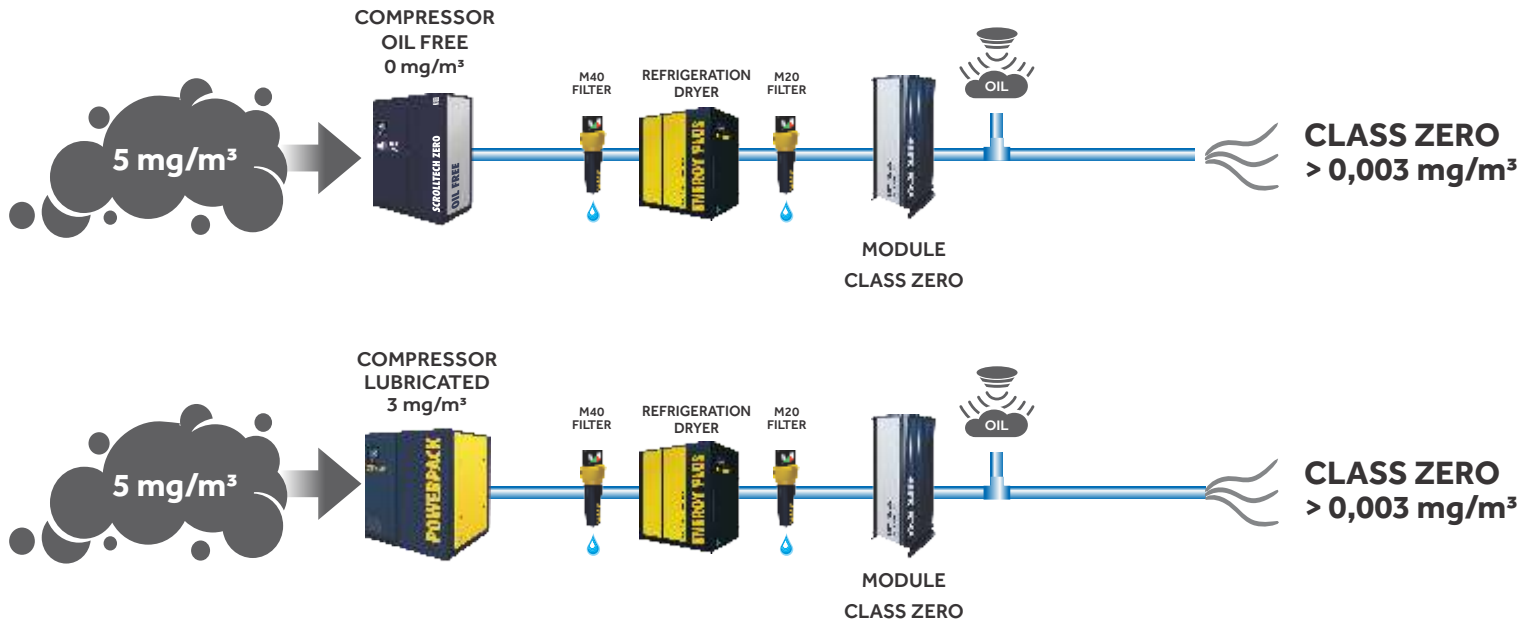
It is important to note that the presence of oil in the ambient air prevents any claims of "zero contamination risk" in a compressed air system, even when using oil-free compressors.

To fully mitigate this risk, there are devices¹ that ensure the retention of all oil, whether in liquid or gaseous form. These devices are monitored by oil sensors and equipped

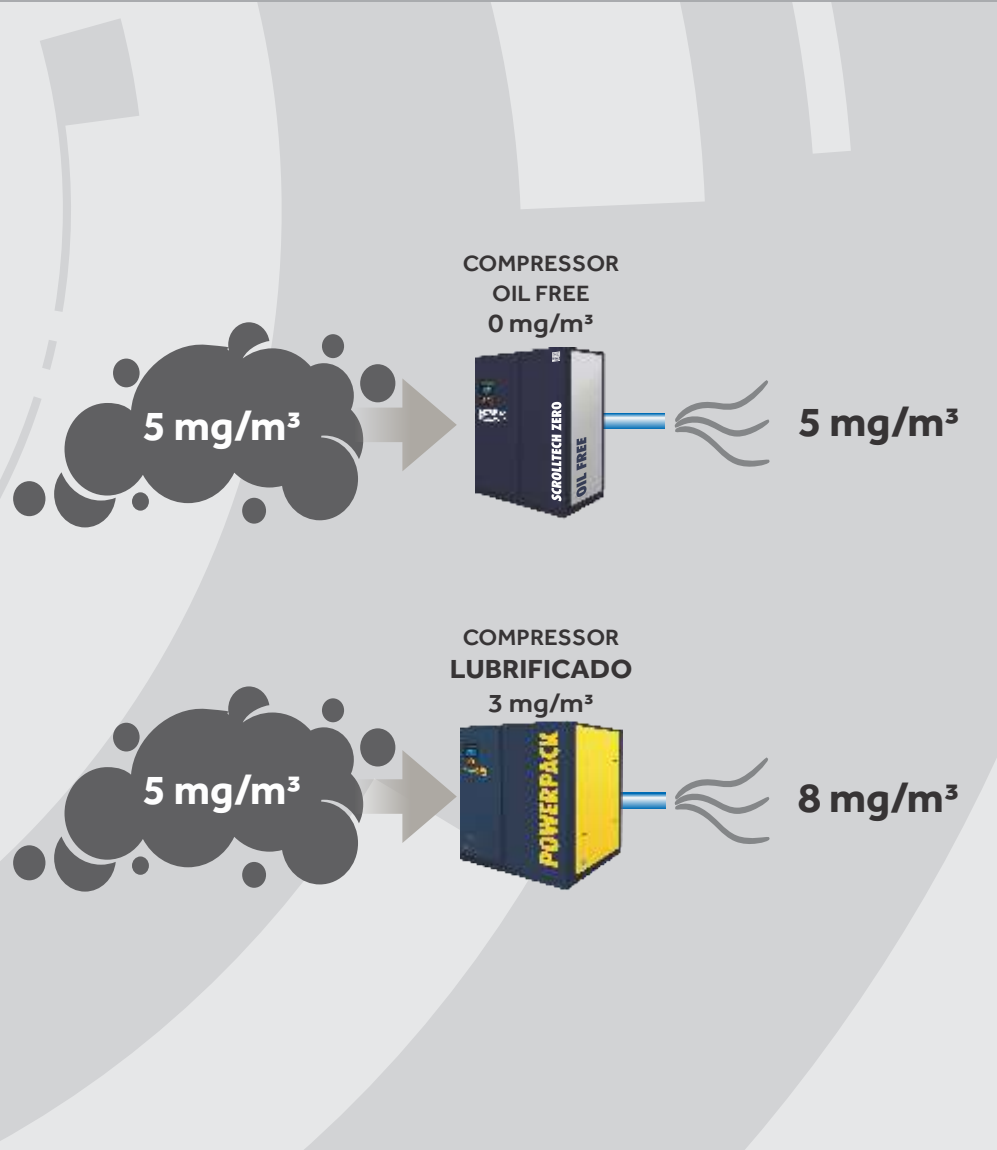
with backup and redundancy systems, ensuring a continuous supply of Zero Class compressed air.

It is thanks to these surveillance and protection mechanisms that, for example, gas oxygen plants (both medicinal and industrial) safely use lubricated compressors.

¹ - Activated carbon modules or catalytic converters



COMPRESSED AIR FUNDAMENTALS



DOES A "ZERO CLASS COMPRESSOR" EXIST?

The ISO 8573 standard allows for the claim that "compressed air samples meet Zero Class," if these samples are collected and tested with the frequency required by the user. However, there is no part of the standard that contains the term "Zero Class Compressor." This is self-evident, as no compressor can eliminate the oil present in the ambient air. Whether lubricated or oil-free, any compressor will draw and compress the surrounding air, including the oil contained in it.

In installations with oil-free compressors, 100% of the oil in the compressed air will come from the surrounding environment.

In installations with lubricated compressors, the oil in the compressed air will be a combination of the oil present in the atmosphere and the oil released by the compressor itself, which is typically around 3 mg/m³ (*).

In both cases, the resulting contamination far exceeds Zero Class, requiring stringent treatment to meet the standard.

This treatment will also eliminate particles and moisture, which are inherent in any type of compressor.

In summary, the term "Zero Class Compressor" is a rhetorical construct with no real basis, regardless of how it is presented.

*Standard residual for oil-injected screw compressors.

IMPRINTS OF OUR HISTORY





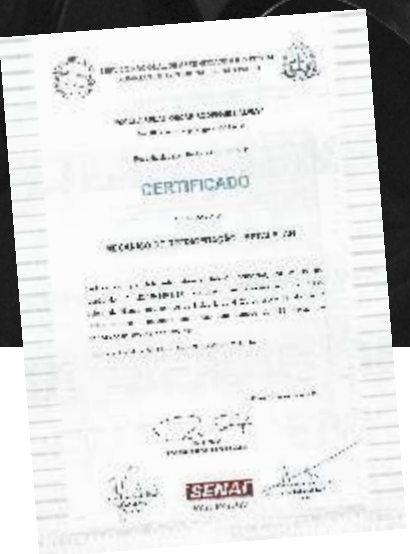
AFTER-SALE SERVICES



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 National Service for Industrial Training for mechanic training, making our After-Sales Service the most acclaimed in the market.



Typical facade

COMPREHENSIVE INVENTORY OF ORIGINAL PARTS



MAXIMUM EFFICIENCY IN AFTER-SALES SERVICE



70 WORKSHOPS CERTIFIED

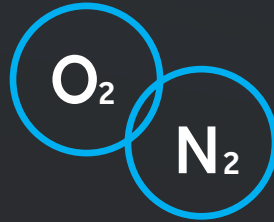
200 SPECIALIZED TECHNICIANS

OUR SOLUTIONS



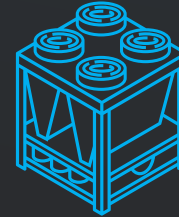
COMPRESSED AIR

- COMPRESSORS
- DRYERS AND FILTERS
- RESERVOIRS
- 100% ALUMINUM PIPING



OXYGEN & NITROGEN

- OXYGEN GENERATORS
PSA / VSA ON SITE
- NITROGEN GENERATORS
PSA ON SITE



INDUSTRIAL REFRIGERATION

- WATER CHILLERS
- ULTRA AIR AND GAS COOLERS (-35°C)
- THERMOCHILLERS
- DRY COOLERS



BIOGAS & CNG

- COMPRESSORS FOR BIOGAS, BIOMETHANE AND CNG
- BOOSTERS
- CHILLERS
- DISPENSERS

e-line

ROTARY SCREW COMPRESSORS



4 to 25 hp

REFRIGERATION DRYERS



20 to 250 pcm

ABSORPTION DRYERS



6 to 32 pcm

COALESCING FILTERS



25 to 300 pcm

AUTOMATIC DRAIN VALVES



electronic & magnetic

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FIRST COMPRESSOR
MANUFACTURER IN THE
WORLD ACCREDITED

ISO 50001
ENERGY MANAGEMENT