

PRIMEIRO FABRICANTE
DE COMPRESSORES DO
MUNDO CERTIFICADO
GESTÃO DE ENERGIA

ULTRA-COOLER COMPRESSED AIR

METALPLAN CHILLERS ~

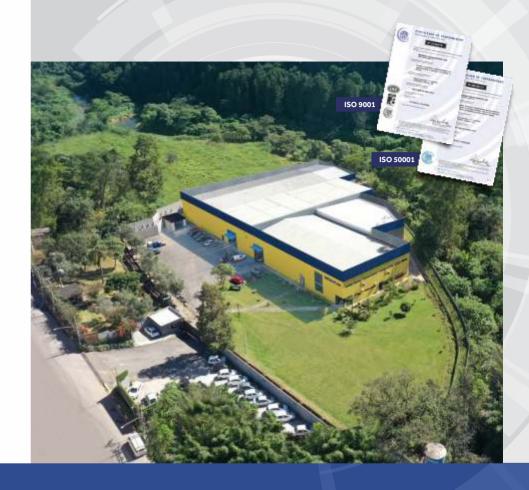
METALPLAN IS NUMBER ONE IN ENERGY EFFICIENCY

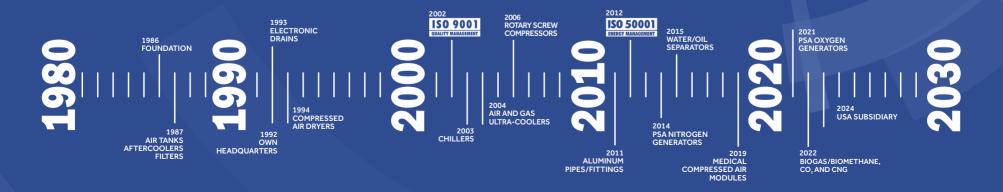
As the absolute leader in screw compressors up to 25 hp in Brazil, Metalplan is the world's first* compressor manufacturer accredited in ISO 50001 - Energy Management, demonstrating its commitment to energy efficiency, the foundation for sustainability and competitiveness of companies.

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.











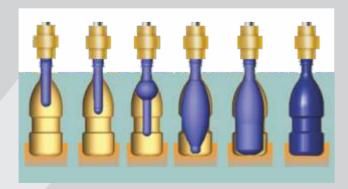


SUPER-COOLED COMPRESSED AIR FOR PLASTIC PACKAGING BLOWING AND OTHER APPLICATIONS

Compressed air at -35°C increases the blowing speed of plastic parts by up to 80% compared to compressed air at ambient temperature.

With the help of a new blowing pin, air renewal during blowing, and an increase in parison extrusion capacity, the cooling time/permanence of the part in the mold can be drastically reduced, with a notable gain in productivity.

There is also more quality and uniformity in the part, as its cooling occurs on both the internal (super-cooled air) and external (chilled water in the mold) surfaces.



SUBZERO

ULTRA-COOLER COMPRESSED AIR



OPERATING PRINCIPLE

Upon entering the SubZero, compressed air is treated according to ISO 8573 quality class [1:2:1], with a dew point below -60°C.

This procedure prevents the freezing of any moisture trace inside the SubZero when compressed air is cooled to -35°C.

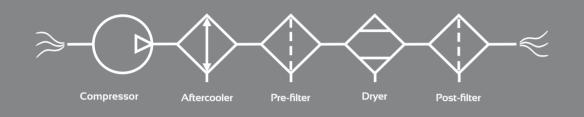
TECHNICAL DATA

MODEL	NOMINAL FLOW		MINIMUM FLOW		REGENERATION FLOW		CONNECTIONS	DIMENSIONS (mm)		
	pcm	m³/h	pcm	m³/h	pcm	m³/h	AIR	length	height	width
SUBZERO 140	80	140	40	70	15	25	3/4"	1500	1720	800

COMPRESSED AIR FUNDAMENTALS

ISO 8573 STANDARD INSTALLATION





CONTAMINANTS & QUALITY CLASSES

class	SOLID PARTICLES maximum number of particles per m ³ $(d = particle \ size)$ $0.1 \mu m < d \le 0.5 \mu m$ $0.5 \mu m < d \le 1 \mu m$ $1 \mu m < d \le 5 \mu m$			class	WATER moisture dew point (°C)	class	OIL - total concentration (liquid/aerosol/vapor) (mg/m³)				
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			6	+10	6	-				
	(mg/m³)				Liquid Water C _w						
6		$0 < C_p \le 5$			g/m³)						
7		$5 < C_p \le 10$		7	$C_w \le 0.5$	7	-				
8		-		8	$0.5 < C_w \le 5$ 8		-				
9		-		9	5 < C _w ≤ 10 9		-				
X		C _p > 10		X	C _w > 10 X		> 5				

ISO 8573 COMPRESSED AIR FOR GENERAL USE

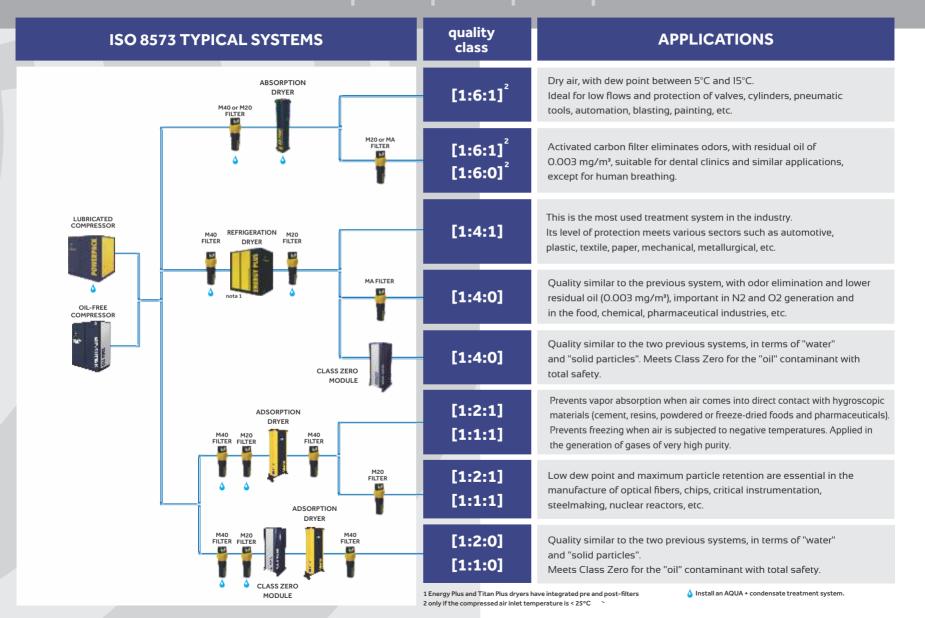
ISO 8573 is the international reference for compressed air systems, focusing on contamination levels.

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



IMPRINTS OF OUR HISTORY









FUAT Panasonic



Nestle



SÍRIO-LIBANÊS



































































































































Braskem



VIGOR





































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.



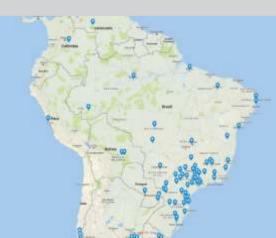


Typical facade

COMPREHENSIVE INVENTORY OF ORIGINAL PARTS



MAXIMUM EFFICIENCY IN AFTER-SALES SERVICE





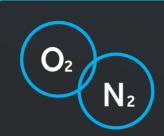


OUR SOLUTIONS



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

ROTARY SCREW COMPRESSORS



4 to 25 hp

REFRIGERATION **DRYERS**



20 to 250 pcm

ABSORPTION DRYERS



6 to 32 pcm

COALESCING



25 to 300 pcm

AUTOMATIC DRAIN VALVES



electronic & magnetic

METALPLAN

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