

SIAD **MACCHINE
IMPIANTI**

*Air Compression Lines
for PET bottles*



TEMPO²
The three stage line



TEMPO²

The new series of oil-free air compression lines for PET

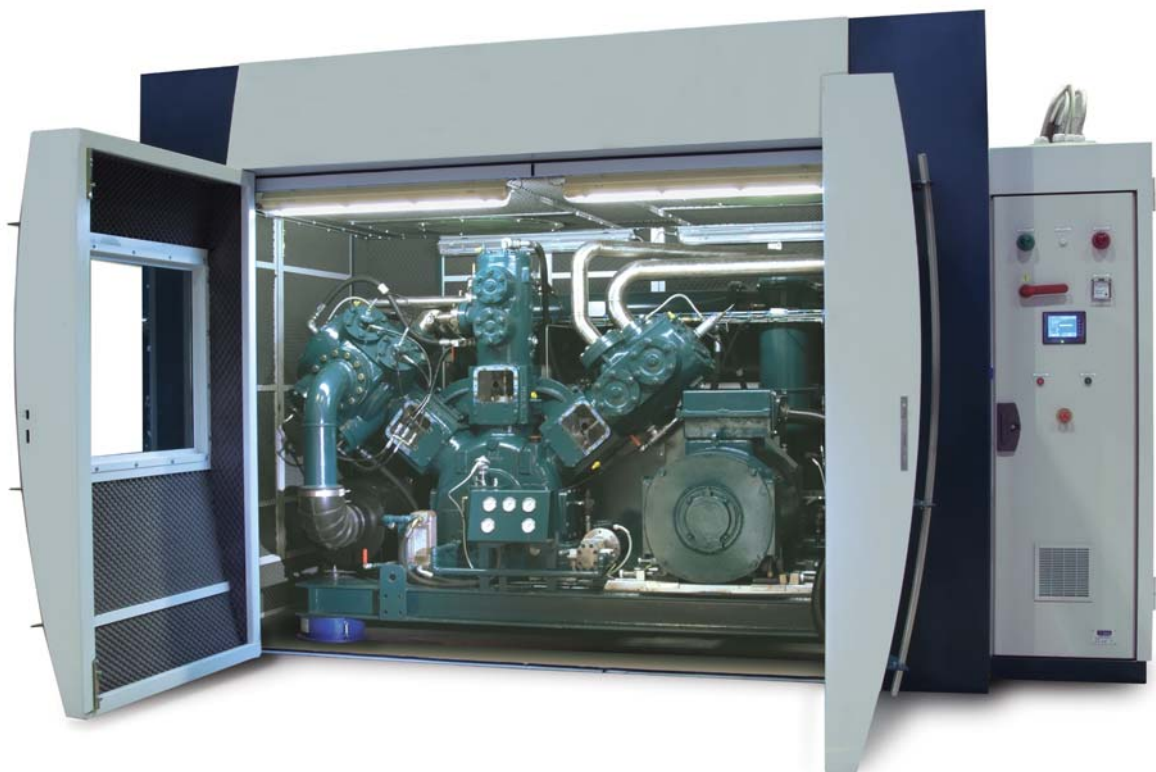
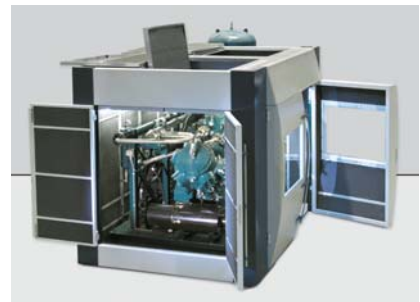
Even simpler to install



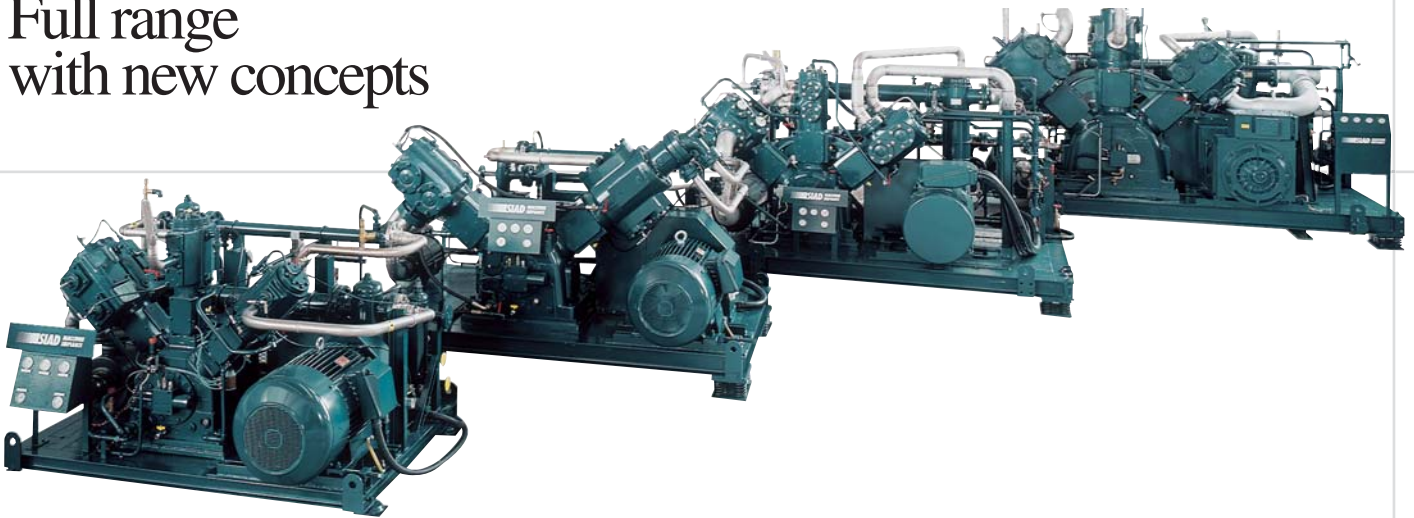
Experience acquired on thousands of machines in service all over the world and unceasing research has now led to the new TEMPO² series: a complete range for delivering totally oil-free, dried high-pressure air.

Increased efficiency with low electricity consumption and high efficiency, “V” and “W” formation, stainless steel piping, big, efficient coolers, clear separation between “hot” and “cold” parts, compact size and easy, economical maintenance: these are the strong points of the new TEMPO² series.

Installation is quick, easy and economical.



Full range with new concepts

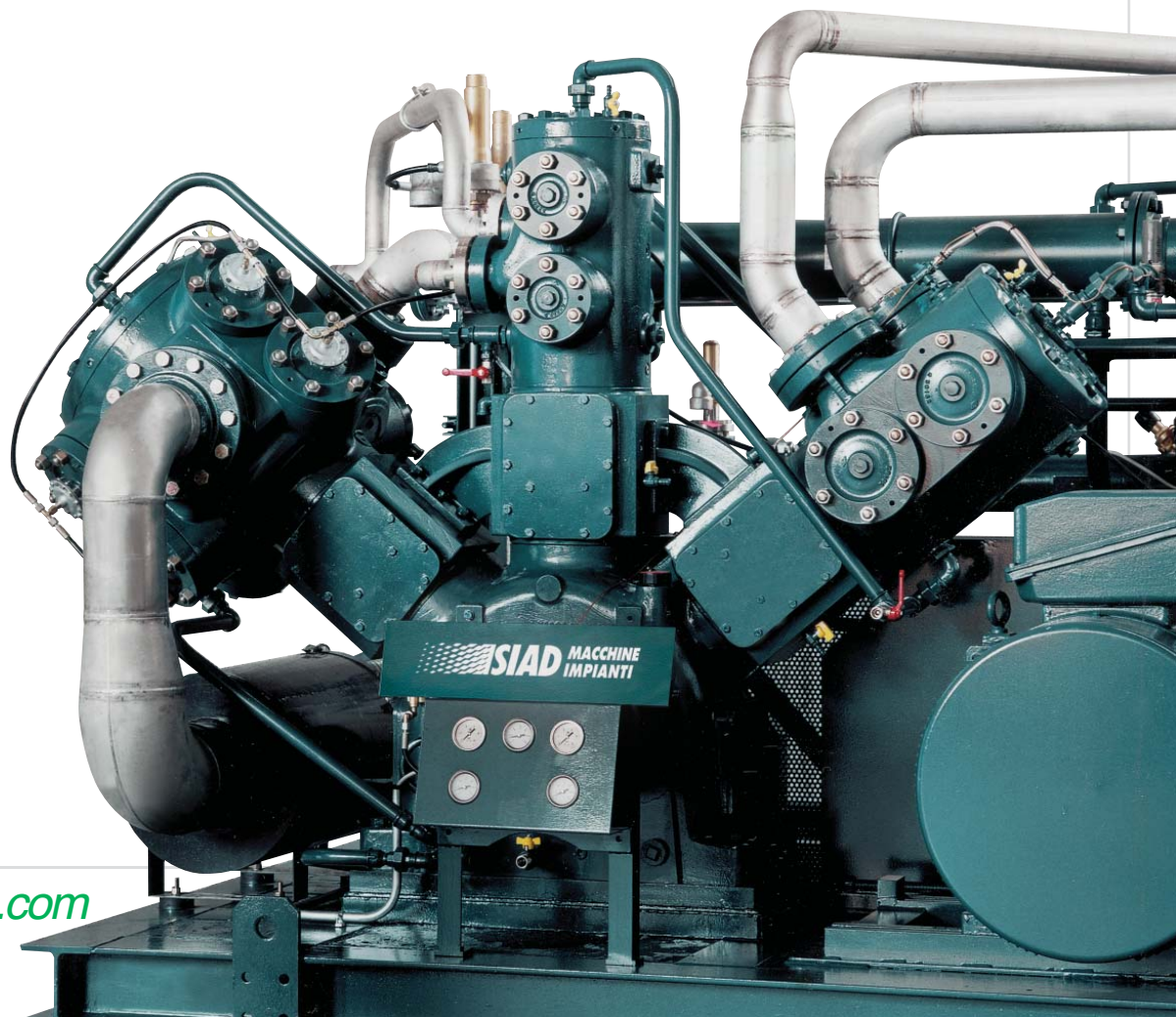


Compressor assemblies from 90 to 5,550 m³/h, chiller dryers, pressurised air tanks, cooling towers or unit heaters are combined in a wide choice of versions to make up the range of TEMPO² lines.

Many models in the new TEMPO² lines feature vertically-installed third-stage cylinders: this design ensures a longer piston ring and gasket lifetime.

What's more, the "V" or "W" formation cylinder layout, a key feature of SIAD Macchine Impianti compressors, is the best guarantee of separation of oil and compressed air. For greater capacity requirements, assemblies can be composed of two or three compressors arranged in parallel, to assure maximum flexibility and low starting current levels.

These, in a nutshell, are the key innovations in the TEMPO² series, enabling it to meet the highest air quality standards required by blow-moulders.



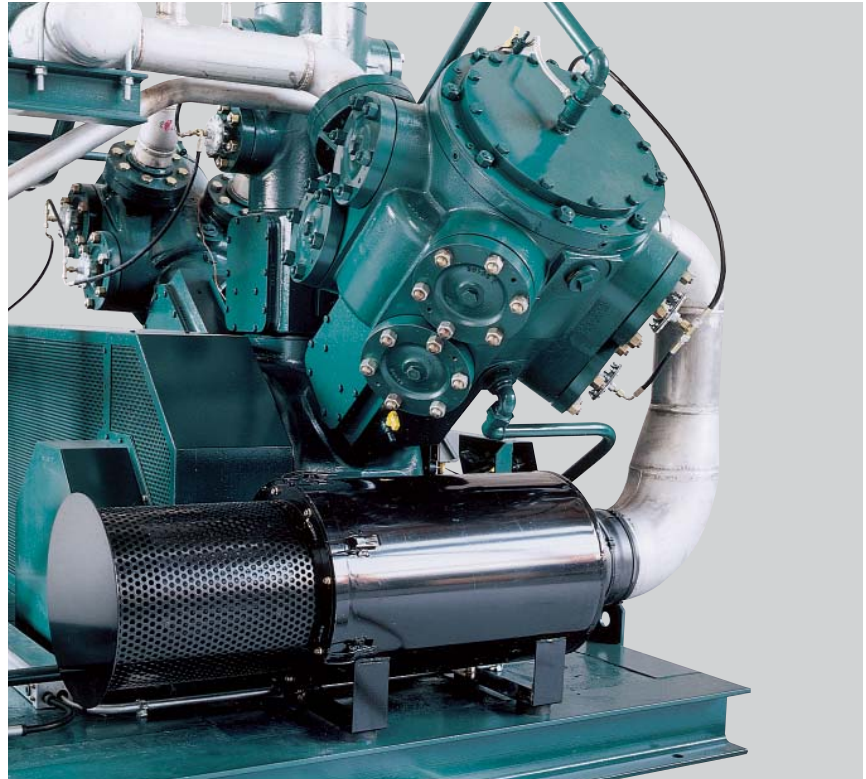
The details that make all the difference

Intake filter - Stainless steel piping - Pre-assembled package
Mounts - Condensation traps - Design - PLC control panel



Intake filter

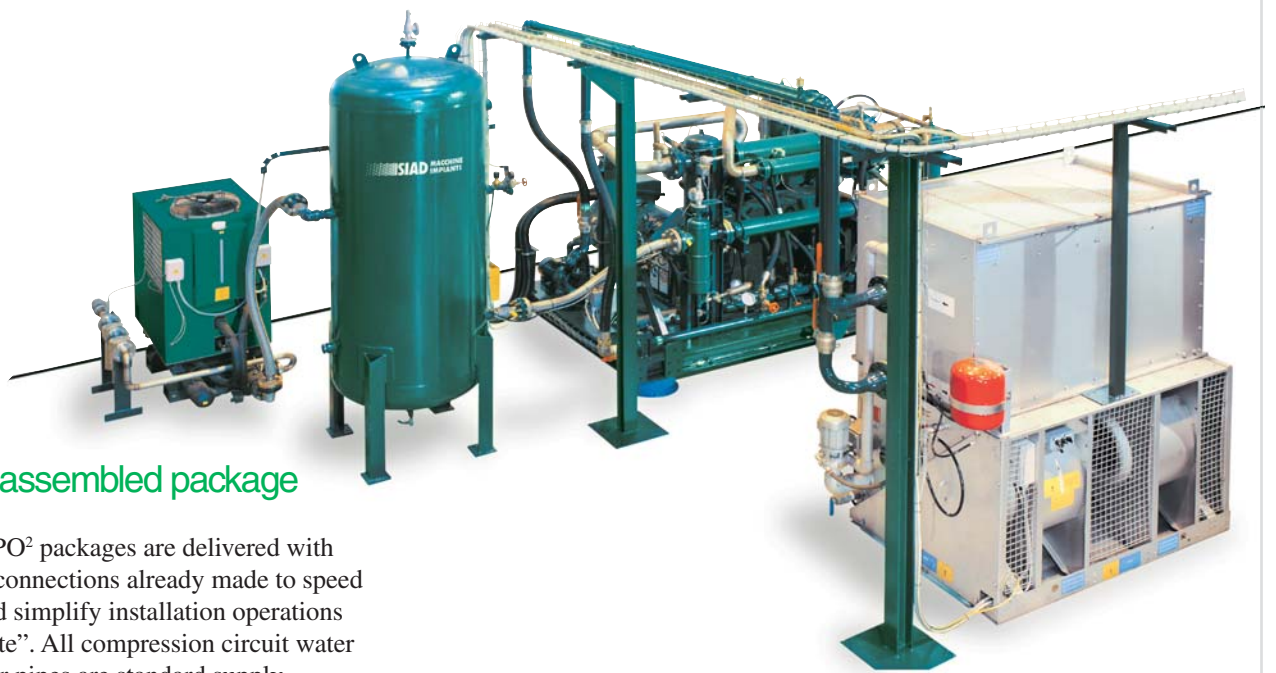
TEMPO² series inlet filters are amongst the largest on the market for comparable flow-rates. What's more, they are super-silenced and firmly mounted on the compressor skid, and their dust filtration level is up to an impressive 3 microns. The flow cross-section is particularly generous and the filter cartridge can be reused after just blowing clean with air.



Stainless steel piping

SIAD Macchine Impianti uses stainless steel piping to prevent oxide formation and the possible entrainment of rust particles towards valves, filters and the blow-moulder. The compressed air never comes into contact with carbon steel.





Pre-assembled package

TEMPO² packages are delivered with most connections already made to speed up and simplify installation operations “on site”. All compression circuit water and air pipes are standard supply.



Mounts

TEMPO² series compressors are installed on new vibration-damping mounts, with no need for foundations. This makes for simpler, cheaper installation. The new vibration-damping mounts reduce the transmission of vibrations to the ground to a minimum.

PLC control panel

All TEMPO² series machines are equipped with a main electrical panel controlled by an industrial PLC and operator display with alarms display function.

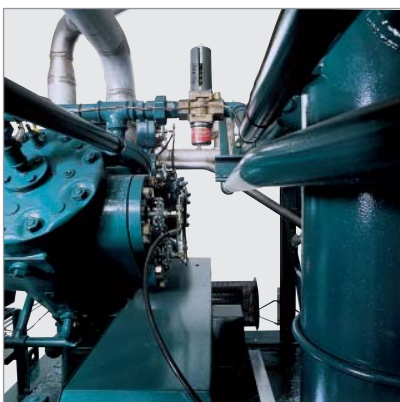
Also available are the optional *Evolution* and *Evolution Color* versions with black and white or colour touch screen.



Condensation traps

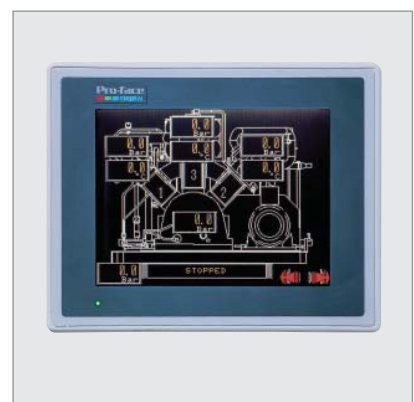
The Siadcoin condensation traps, thousands of which are currently in use, help provide the definitive solution to the problems of the reliability and noise level of pressurised condensation.

These versions also monitor numerous parameters, including the pressure and temperature of each stage, and maintain a log of the plant operation and alarms.



Design

The design of TEMPO² compressors creates a clear separation between the “hot” and “cold” parts of compressors. The results? Improved efficiency, easy maintenance, better lay-out.



The TEMPO² models

The unbeatable packages

In the TEMPO² series each unit is complete and connected. The expansion tank and water pump for the cooling circuit are both included. All the connected skids combine

to form a single package, with considerable advantages in terms of logistics. Electrical, water and air connections are also included.



The TEMPO² models

Model TEMPO ²	Output (*) [Nm ³ /h] [Ncfm]	Installed power [kW] [Hp]	Adsorbed power [kW] [Hp]	Specific consumption [kWh/m ³] [Hp/cfm]
TEMPO² 90	90 53	18 24	16 22	0,18 0,41
TEMPO² 140	140 82	37 50	27 37	0,19 0,44
TEMPO² 260	260 153	55 75	50 68	0,19 0,44
TEMPO² 350	350 206	75 102	65 88	0,19 0,44
TEMPO² 450	450 265	90 122	80 109	0,18 0,41
TEMPO² 610	610 359	132 180	118 160	0,19 0,44
TEMPO² 800	800 471	200 272	162 220	0,20 0,47
TEMPO² 950	950 559	220 299	176 239	0,19 0,44
TEMPO² 1100	1.100 647	220 299	195 265	0,18 0,41
TEMPO² 1300	1.300 765	250 340	225 306	0,17 0,39
TEMPO² 1500	1.500 883	315 428	265 360	0,18 0,41
TEMPO² 1850	1.850 1.089	375 510	320 435	0,17 0,39

Model TEMPO ²	Output (*) [Nm ³ /h] [Ncfm]	Installed power [kW] [Hp]	Adsorbed power [kW] [Hp]	Specific consumption [kWh/m ³] [Hp/cfm]
TEMPO² 2100	2.100 1.236	400 544	365 496	0,17 0,39
TEMPO² 2350	2.350 1.385	450 612	390 530	0,17 0,39
TEMPO² 2600 (a)	2.600 1.530	500 680	450 612	0,17 0,39
TEMPO² 3000 (a)	3.000 1.776	630 857	530 721	0,18 0,41
TEMPO² 3700 (a)	3.700 2.178	750 1.020	640 870	0,17 0,39
TEMPO² 4200 (a)	4.200 2.472	800 1.088	730 992	0,17 0,39
TEMPO² 4700 (a)	4.700 471	200 272	162 220	0,20 0,47
TEMPO² 5550 (b)	950 559	220 299	176 239	0,19 0,44

NB: models TEMPO² 2600 through to TEMPO² 5550 are composed of two or three compressors arranged in parallel, to ensure maximum production flexibility.

(a) two parallel compressors
b) three parallel compressors

(*) with dry intake air at 0°C, at sea level.

These data are indicative only. SIAD Macchine Impianti reserves the right to modify the technical specifications and features of its products without notice.

Added value

Our worldwide Service Centres

Easy maintenance

The TEMPO² series is designed to minimise plant stoppages. TEMPO² systems require very little maintenance, and procedures are quick and therefore inexpensive.



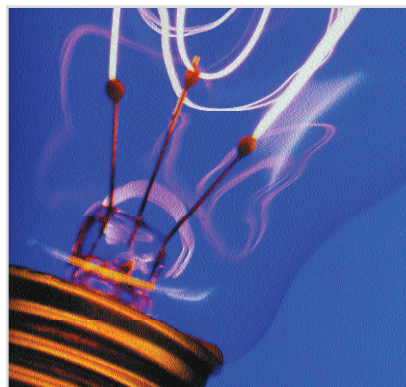
Meticulous controls

SIAD Macchine Impianti has held ISO 9001 certification since 1994. The entire production process is subject to rigorous controls. From the procedures to the individual components and complete systems, everything undergoes painstaking inspection. Each system is accompanied by an ample dossier certifying its quality.



Energy saving

When designing the TEMPO² series, SIAD Macchine Impianti has considered electricity consumption a key factor. The result is increased efficiency with the best kWh/m³ ratio available on the market today.



SIAD Macchine Impianti now has more than 30 service centres on the five continents, staffed by specialist engineers and stocked with spare parts selected specifically for our TEMPO² lines.

Authorized Service Centres

- Albania Enna - IT
- Algeria Algiers
- Argentina Bahia Blanca
- Australia Sydney
- Brazil Ribeirão Preto
- Bulgaria Plovdiv
- Canada Hellertown PA - U.S.A.
- China Shanghai
- Czech Republic Prague
- Egypt Cairo
- France Bordeaux/Paris/Orleans
- Germany Bremen
- Hungary Budapest
- India Mumbai
- Iran Teheran
- Italy (North) Bergamo
- Italy (South) Brindisi
- Japan Tokyo/Osaka
- Kosovo Enna - IT
- Mexico Mexico City
- New Zealand Auckland
- Poland Cracow
- Romania Timisoara
- Russia Moscow
- Saudi Arabia Riyadh
- Serbia Pancevo
- South Africa Randburg/Johannesburg
- Sweden Anderstorp
- Taiwan Taipei
- Thailand Bangkok
- Turkey Istanbul
- Ukraine Kiev/Kharkov/Dnepropetr
- U.S.A. Chicago/Houston/Hellertown PA
- Venezuela Maracay



Air Compression Lines for PET bottles

The company was founded in 1927 as a maker of machines for compressing gas and air. Having developed its business in Italy over the years, in the last ten years SIAD Macchine Impianti has set up a world-wide sales network that currently includes more than 50 agents.

Today, SIAD Macchine Impianti has grown to the point of becoming a world leader in the construction of PET-blowing compressors, with installations in place world-wide and more than 30 dedicated service centres across the five continents. All of which reflects the fruit of continuous research, constant updating of machines, and significant investments in people and technologies.

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Printed in Italy
048uk09/08

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