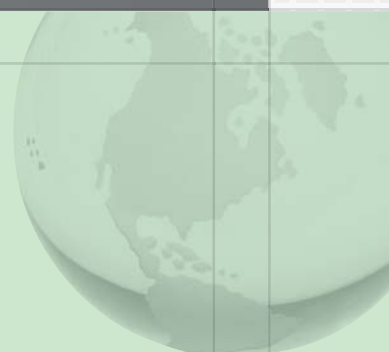


**SIAD** **MACCHINE  
IMPIANTI**

*Air Compression Lines  
for PET bottles*



**TEMPO<sup>2</sup>**  
The three stage line



# TEMPO<sup>2</sup>

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

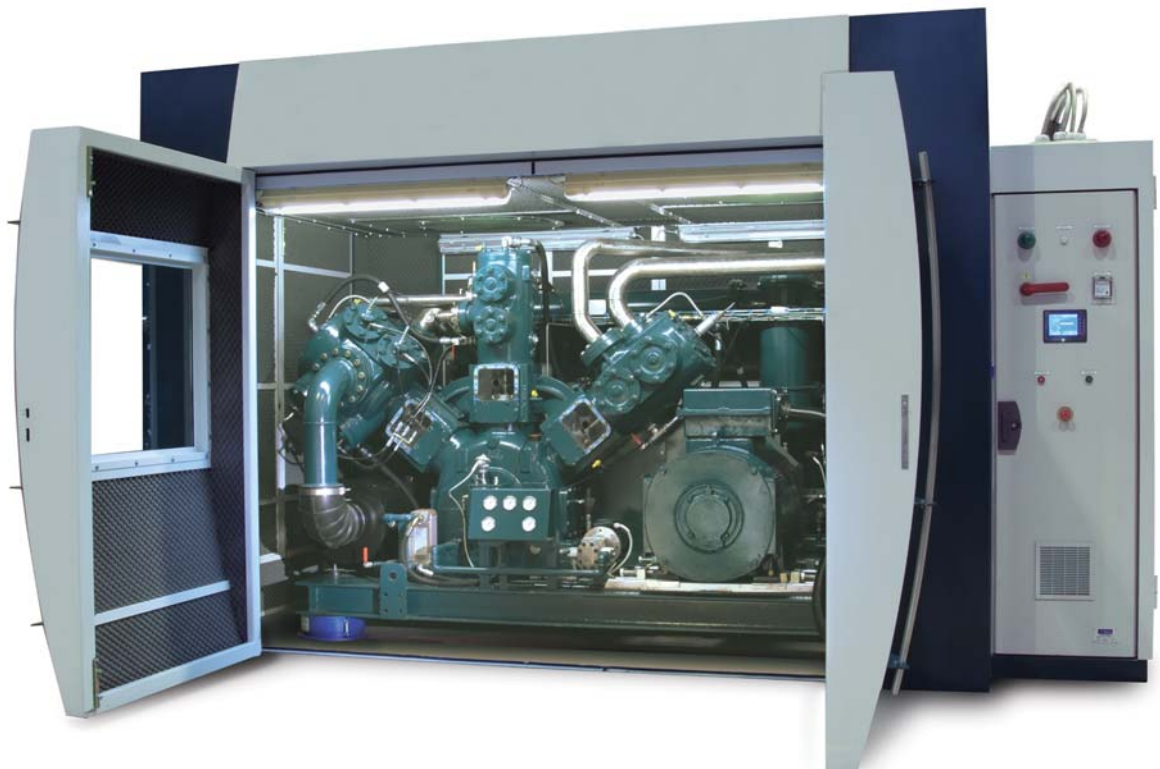
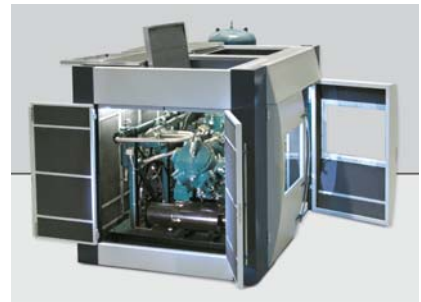
Even simpler to install



Experience acquired on thousands of machines in service all over the world and unceasing research has now led to the new TEMPO<sup>2</sup> series: a complete range for delivering totally oil-free, dried high-pressure air.

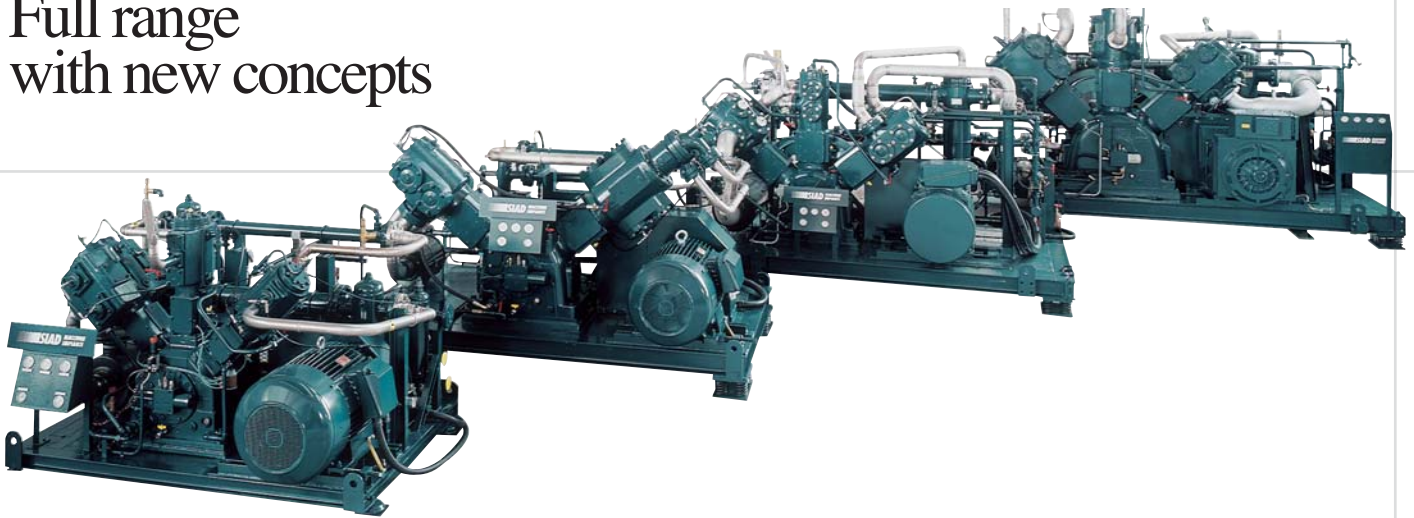
Increased efficiency with low electricity consumption and high efficiency, “V” and “W” formation, stainless steel piping, big, efficient coolers, clear separation between “hot” and “cold” parts, compact size and easy, economical maintenance: these are the strong points of the new TEMPO<sup>2</sup> series.

Installation is quick, easy and economical.





## Full range with new concepts

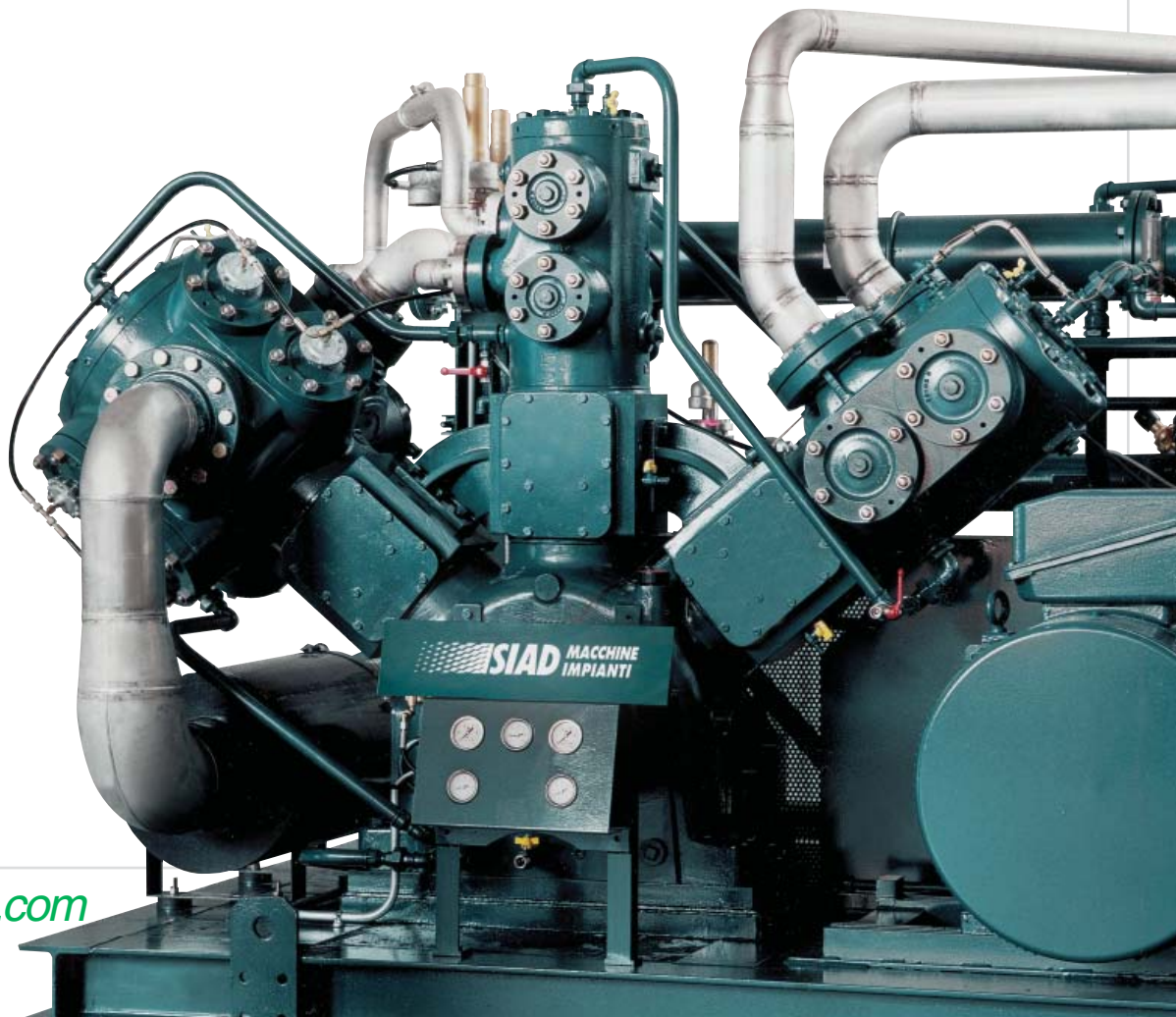


Compressor assemblies from 90 to 5,550 m<sup>3</sup>/h, chiller dryers, pressurised air tanks, cooling towers or unit heaters are combined in a wide choice of versions to make up the range of TEMPO<sup>2</sup> lines.

Many models in the new TEMPO<sup>2</sup> 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 Machine 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 TEMPO<sup>2</sup> series, enabling it to meet the highest air quality standards required by blow-moulders.



## The details that make all the difference

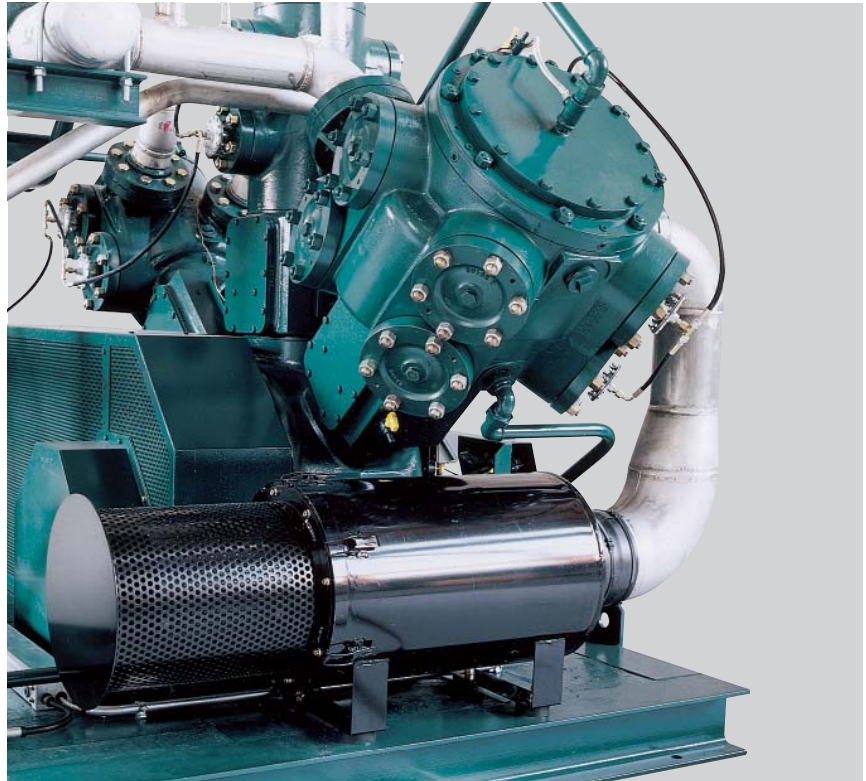
Intake filter - Stainless steel piping - Pre-assembled package  
Mounts - Condensation traps - Design - PLC control panel



### Intake filter

TEMPO<sup>2</sup> 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

TEMPO<sup>2</sup> 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

TEMPO<sup>2</sup> 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 TEMPO<sup>2</sup> 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.

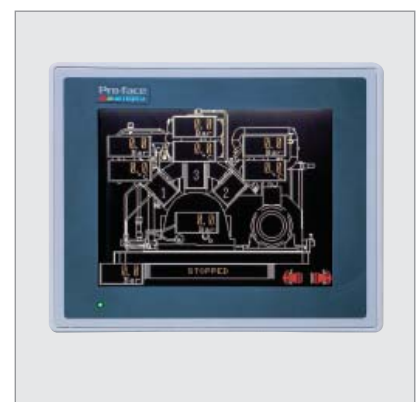


## Design

The design of TEMPO<sup>2</sup> compressors creates a clear separation between the “hot” and “cold” parts of compressors.

The results?

Improved efficiency, easy maintenance, better lay-out.



# The TEMPO<sup>2</sup> models

## The unbeatable packages

In the TEMPO<sup>2</sup> 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 TEMPO<sup>2</sup> models

Model TEMPO <sup>2</sup>	Output (*) [Nm³/h] [Ncfm]	Installed power [kW] [Hp]	Adsorbed power [kW] [Hp]	Specific consumption [kWh/m³] [Hp/cfm]
<b>TEMPO<sup>2</sup> 90</b>	90 53	18 24	16 22	0.18 0.41
<b>TEMPO<sup>2</sup> 140</b>	140 82	37 50	27 37	0.19 0.44
<b>TEMPO<sup>2</sup> 260</b>	260 153	55 75	50 68	0.19 0.44
<b>TEMPO<sup>2</sup> 350</b>	350 206	75 102	65 88	0.19 0.44
<b>TEMPO<sup>2</sup> 450</b>	450 265	90 122	80 109	0.18 0.41
<b>TEMPO<sup>2</sup> 610</b>	610 359	132 180	118 160	0.19 0.44
<b>TEMPO<sup>2</sup> 800</b>	800 471	200 272	162 220	0.20 0.47
<b>TEMPO<sup>2</sup> 950</b>	950 559	220 299	176 239	0.19 0.44
<b>TEMPO<sup>2</sup> 1100</b>	1,100 647	220 299	195 265	0.18 0.41
<b>TEMPO<sup>2</sup> 1300</b>	1,300 765	250 340	225 306	0.17 0.39
<b>TEMPO<sup>2</sup> 1500</b>	1,500 883	315 428	265 360	0.18 0.41
<b>TEMPO<sup>2</sup> 1850</b>	1,850 1,089	375 510	320 435	0.17 0.39

Model TEMPO <sup>2</sup>	Output (*) [Nm³/h] [Ncfm]	Installed power [kW] [Hp]	Adsorbed power [kW] [Hp]	Specific consumption [kWh/m³] [Hp/cfm]
<b>TEMPO<sup>2</sup> 2100</b>	2,100 1,236	400 544	365 496	0.17 0.39
<b>TEMPO<sup>2</sup> 2350</b>	2,350 1,385	450 612	390 530	0.17 0.39
<b>TEMPO<sup>2</sup> 2600 (a)</b>	2,600 1,530	500 680	450 612	0.17 0.39
<b>TEMPO<sup>2</sup> 3000 (a)</b>	3,000 1,776	630 857	530 721	0.18 0.41
<b>TEMPO<sup>2</sup> 3700 (a)</b>	3,700 2,178	750 1,020	640 870	0.17 0.39
<b>TEMPO<sup>2</sup> 4200 (a)</b>	4,200 2,472	800 1,088	730 992	0.17 0.39
<b>TEMPO<sup>2</sup> 4700 (a)</b>	4,700 2,766	900 1,224	780 1,061	0.17 0.39
<b>TEMPO<sup>2</sup> 5550 (b)</b>	5,500 3,267	1,125 1,530	960 1,306	0.17 0.39

NB: models TEMPO<sup>2</sup> 2600 through to TEMPO<sup>2</sup> 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 TEMPO<sup>2</sup> series is designed to minimise plant stoppages. TEMPO<sup>2</sup> 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 TEMPO<sup>2</sup> series, SIAD Macchine Impianti has considered electricity consumption a key factor. The result is increased efficiency with the best kWh/m<sup>3</sup> 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 TEMPO<sup>2</sup> 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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