

TECHNOPLAN

ENGINEERING SA



Blown air recycling for PET bottle manufacturing machines.

ARS AIR RECYCLING SYSTEM

ADVANTAGES

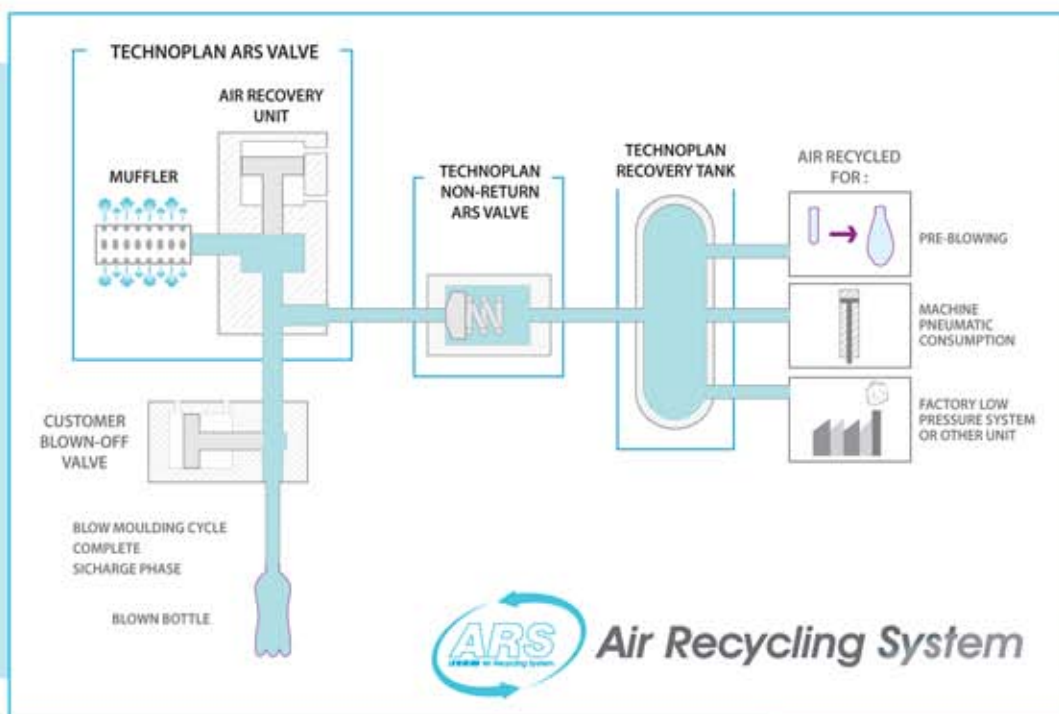
- * Savings can exceed 50% of the original amount of air used by the bottle blowing process.
- * Significant financial savings from the reduction in electricity consumption by the compressor.
- * The possibility of installing new blowers without investing in new compressors, leading to savings in purchasing costs.
- * The possibility of closing down some compressors, with resulting savings in maintenance costs.
- * Noise reduction and space saving in your factory thanks to the lower number of compressors installed.
- * You will recoup your investment in a short time, depending on electricity costs, bottle volume and production rates.
- * Overall savings on production costs.

MEASUREMENTS

Using a flowmeter, we measure air consumption before and after installation so as to demonstrate the increased efficiency and savings achieved with the ARS Air recycling system.

PLUS POINTS

- * The ARS System makes absolutely no difference to cycle times or the machine process. As a result, bottles can continue to be produced at the same rate without a drop in production or quality.
- * The ARS System can be installed quickly, with no major modifications to the blower units. Installation must be carried out by a qualified technician.
- * The ARS air recycling system can be disconnected without affecting the operation of the machine.
- * The ARS System is completely independent of the blower unit, both mechanically and electrically.
- * The ARS System is either managed mechanically or by its own electronic system, depending on the configuration of the blower unit.



Technoplan Engineering SA

We are a Swiss company based in Geneva that specialises in PET bottle manufacture. We have over 20 years' experience in industrial machine design.

Our products are aimed at all producers of mineral water, fizzy drinks, fruit juice and oil who manufacture PET bottles.



Manufacturer	Type of machine	Country	Bottles hour	Size	Blowing pressure	Recovery
KRONES	Contiform S16	Italy	22000	1,5	34	51,20 %
SIDEL	SBO 12 - 2	China	12000	2	29	55,90 %
SIDEL	SBO 20 - 2 HF S2	China	23000	0,5	38	67,90 %
SIDEL	SBO 20 - 2	Poland	28600	0,5	35	59,90 %
SIDEL	SBO 10-1	Brazil	10130	2,5	36	50,50 %
SIDEL	SBO 24 - 24	France	24000	1,5	31	50,40 %
KRUPP - SIG	Blomax 16	Croatia	19000	0,5	36	49,90 %
SIPA	FX - 20 - 80 HF	China	15500	0,5	33	54,40 %
SIPA	SFL 12 - 8	Spain	7850	2	34	54,30 %
SIPA	SFR 16	Turkey	23000	1,5	37	52 %
SIPA	SFR 6 - 4	Spain	2400	8	30	54,70 %
SIDEL	SBO 40	USA	40000	1,5	36	51,20 %

Data installations raised in 2008

Make 50% energy savings on your PET bottle production

In that time we have become world leaders in blown air recycling for PET bottle manufacturing machines.

The **ARS system** allows a significant reduction in the volume of air used for blow moulding PET bottles, with a very large decrease in electrical consumption as a result.



International presence

More than 500 systems installed worldwide prove the efficiency and reliability of the ARS System.

Adaptability

The ARS air recycling system can be installed on any old or new generation blower unit currently available. SIDEL, SIPA, KRONES, SIG, SMI, NISSEI.



After Sales Service

Our After Sales Service supports our products and services. Well before delivery and installation, we prepare a project file for each customer so that, in the event of call-outs, we can react rapidly and with precision. The department's group of specialists have in-depth knowledge of every blower unit currently on the market.

Technoplan Engineering's after sales service is always available for our customers. The Hotline provides fast answers to technical questions and handles troubleshooting in real time.

We also handle enquiries concerning spare parts and the maintenance of your units.

Specialised technicians

Our external services are staffed by specialist technicians with extensive experience in the application, installation and maintenance of the ARS System.

Their in-depth knowledge of the ARS System enables them to manage the complete installation and integration of the system for you, on any make of machine.

Energy savings achieved with the ARS System help to protect the environment.

With our sights set both on environmental protection and the aim of supplying you with a high-tech product which will optimise your operating and production costs, the ARS System is perfectly in line with our vision of: "Optimum productivity and respect for the environment".