





...keeps the pressure on!



A short introduction

- We at SOTEX are experts in the area of nitrogen generators, expansion systems and compressed air systems. The nitrogen produced by our nitrogen generators may be used for all kinds of purposes, such as for tank blanketing or in production processes.
- Furthermore, SOTEX is a representative of manufacturer FLAMCO. Thanks to this collaboration, we are able to offer a wide range of solutions for any situation and anywhere in the world! A third major activity of our dynamic company is supplying complete compressed air systems.
- As of 2002, SOTEX has been active in the international horticultural sector and in regional heating projects. We are also extremely successful in counselling and in supplying small-scale and large-scale projects in the industrial and utility sectors and geothermal projects.
- SOTEX delivers its products through the heating installer. We provide consultancy agencies with the latest information, if desired accompanied by clear and simple explanations.
- SOTEX has its own service and maintenance department, which is available 24/7 for any malfunctions and/or technical support. We are also a VCA* certified company. Safe and responsible use!



With a SOTEX nitrogen expansion system, you are always assured of pure nitrogen for use in a, for example, vertical heat storage tank.

A smart and user-friendly control system regulates the pressure balance of the nitrogen cushion in the heat storage tank, and monitors the water content. In this way you can rely on optimal safety and protection of the tank and heating system.

Nitrogen purity

The air around us consists of approximately 78% nitrogen and 21% oxygen. Compressed air is no different. Compressed compressed air also contains an amount of moisture and, when using oil-lubricated compressors, also an amount of oil vapor. After removal of oxygen, moisture and any oil vapor from the air, nitrogen remains.

The SOTEX Nitromat Pro systems are so-called PSA systems, which stands for Pressure Swing Adsoprtion, the most reliable and highly proven technique for extracting oxygen from the compressed air. Specific information about this on page 4.

All SOTEX Nitromat Pro VP & HP nitrogen expansion systems are factory set to a purity of 99%. That comes down to a residual oxygen percentage of 1%. Extensive tests have shown that this is the best nitrogen purity to guarantee a long-term protection of a steel heat storage tank against internal corrosion. Choosing a higher residual percentage results in a lower investment in the short term, but the negative effects of internal corrosion in the long term will be a substantially larger and very undesirable investment.

How it works

The compressed air pressure on the SOTEX Nitromat Pro nitrogen generator must always be at least 6 bar. If this is not the case, the Nitromat Pro nitrogen generator will not start. The SOTEX Nitromat Pro VP nitrogen expansion systems can only be used for vertical buffer tanks (standard 15 mBar working pressure - non-pressurized system). For special applications, eg on a horizontal buffer tank or geothermal projects, SOTEX has identical nitrogen expansion systems of the type Nitromat Pro HP. However, these work with a higher pressure (1 to 2 bar working pressure - pressure-maintaining system).

For explanation of the operation follows a description of the VP system which is by far the most used:

The Nitromat Pro VP system provides a nitrogen cushion above the water in the vertical buffer tank. The desired pressure is set at 15 mbar. It is necessary to provide the buffer tank with a nitrogen blanket (purity 99% N2) to prevent the water from absorbing oxygen. In addition, the system prevents corrosion of the internal steel tank parts.

When the water level in the tank increases, the pressure of the nitrogen cushion also increases. This is measured by the supplied pressure sensor mounted on top of the buffer tank. As soon as the pressure reaches 20 mbar, the mechanical relief valve (part of the mechanical vacuum / overpressure control valve) will open to vent nitrogen. When the water level in the buffer tank falls, the pressure of the nitrogen cushion decreases. As soon as this 5 mbar falls below the set target pressure, the nitrogen supply valve (solenoid valve 1/2 "in the Nitromat nitrogen generator) will be opened to let nitrogen flow from the nitrogen storage vessel to the buffer tank. When the desired value is reached, this valve will close again.

With regard to the pressure regulation and the measurement of the expansion space, conditions have been set as a result of which the installation generates alarms by means of sendable signals; eg low water pre-alarm, low water alarm, pressure too low alarm and pressure too high alarm. For more information, please refer to the operating instructions. The fully automatic and sophisticated control of the SOTEX control panel with SIEMENS PLC guarantees the safety of the expensive vertical buffer tank.



Scope of delivery

The complete SOTEX nitrogen expansion system complies with the European Pressure Equipment Directives (CE marking) and is also available in accordance with the EAC (CU TR) or ASME / CSA / UL regulations. The delivery consists of the following components:

■ Nitrogen generator type Nitromat Pro;

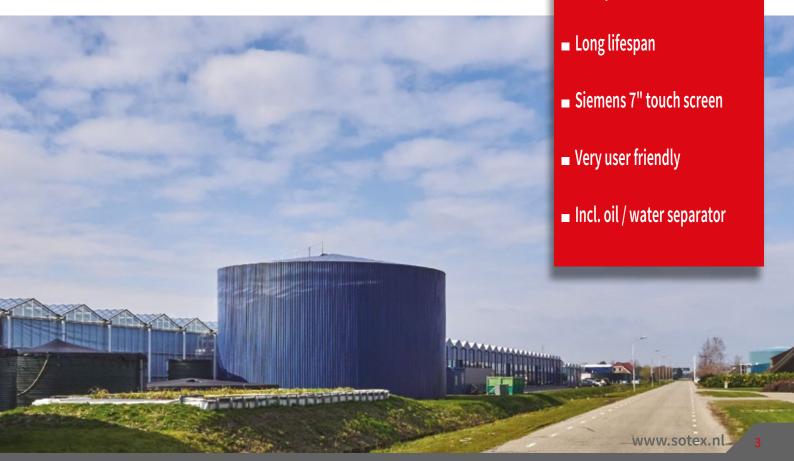
professionally built in a unique robust steel design:

- central Siemens PLC control unit with multi-color 7 "Touch LCD display
- cyclone filter with automatic condensate drain
- compressed air filters with float drain
- integrated steel PSA vessels (> 2,000,000 operations)
- generously dimensioned pneumatic valve set
- pneumatic nitrogen supply valve
- pressure sensor 4-20 mA nitrogen production
- pressure switch minimum compressed air pressure
- oil / water separator
- Includes unique "Easy-Commissiong" program

Screw compressors on compressed air receiver;

- including automatic condensate drain and electric connection cable.
- Nitrogen storage tank;
 - complete with required accessories, including pressure gauge and spring-loaded safety valve.
- Fittings and accessories;
 - pressure sensor 0-250 mbar, for mounting on top of vertical heat storage tank.
 - content sensor 0-250 mbar, for mounting at the side of vertical heat storage tank.
 - plastic protective caps for the sensors.
 - ball valve 2" for emergency relief, including pipe nipple 300 mm. 2".
 - vacuum/over-pressure control valve* PN10 including DN50 relief valve.
 - * flange diameter depending on tank capacity

- Compact & modern design
- Plug en Play installation
- Incl. nitrogen storage tank
- Incl. "Eays-Commisioning"
- Advanced Siemens PLC
- Including screw compressor
- Ultimate clean air
- **■** Extremely reliable
- Purity 99% N2





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The technique

SOTEX applies the most used and proven technique to separate the oxygen from the compressed air. The Nitromat Pro systems use PSA technology;

■ The SOTEX Nitromat Pro systems are so-called PSA which stands for systems, Pressure Swing Adsorption, the most reliable and highly proven technique for extracting oxygen from the compressed air. For this purpose, two so-called PSA pressure vessels are included in the robust steel design, which are mainly filled with a CMS material (Carbon Molecular Sieve - see photo of the blue drum on the right) that works as a molecular sieve; the oxygen molecules 'bind' to the CMS for a certain time while the nitrogen molecules are let through.

Due to this previously mentioned time factor, there is the need for two vessels, if one vessel is generating then the other vessel is regenerating. That is, the vessel already saturated with oxygen molecules is reconstituted for the next cycle by releasing the pressure from the vessel while venting the absorbed oxygen molecules at the same time. This process is switched fully automatically by the SOTEX PLC control.

Very important; at the basis of the new design of the SOTEX Nitromat Pro nitrogen generators, the PSA vessels are specially designed to withstand long-term pressure / alternating loads and over 2,000,000 operations are guaranteed, which means a long service life.

Each SOTEX PSA pressure vessel is partly filled with a desiccant (white granules - see photo of the green drum on the right) as extra safety for protection of the CMS. The most important condition is that the supplied compressed air is treated according to the specifications.







Nitrogen storage vessel

The pure nitrogen is stored in the nitrogen storage vessel. This is done under a pressure of 5 to 8 bar. The nitrogen is extracted from this vessel at requested moments by means of the nitrogen supply valve to the heat storage tank, and is transported to the set desired pressure of 15 mbar. Due to this pressure drop and temperature rise of approx. 25 ° C. to about 90 ° C. there is a significant increase in volume of the nitrogen gas.

The content of the **nitrogen storage tank** is an **important part** of the design of the installation because it determines the running time of the screw compressor. Screw compressors are designed for long-term use and should be sufficiently heated to prevent problems with condensation in the oil and screw block.

SOTEX supplies vertical coated steel drums with the system as standard. These vessels meet the approval according to CE pressure equipment guidelines PED 2014/68 / EU which is suitable for most projects. For projects in North America, SOTEX supplies the nitrogen storage vessels built in accordance with the ASME guidelines (excl. Stamp) and for the projects in Russia, Belarus and Kazakhstan with EAC approval (CU TR certificates). We can also supply the drums with SELO approval for the Chinese market.

Compressed air

It is necessary to supply the correct compressed air to the SOTEX Nitromat nitrogen generator; this is realized by a complementary delivered compressor and the specifically designed compressed air treatment integrated in th Nitromat Pro nitrogen generator.

As mentioned earlier, SOTEX supplies a screw compressor on a compressed air tank with the system. SOTEX screw compressors are supplied as standard with the system. These meet the CE pressure equipment guidelines PED 2014/68 / EU and the EAC (CU TR) regulations (Russia, Belarus and Kazakhstan). The screw compressors used in North American projects comply with ASME, UL and CSA guidelines.

It is necessary to select a screw compressor with a working pressure of 10 bar and in addition, the capacity of the screw compressor must be adapted to the required consumption of the nitrogen generator.

All the SOTEX 'Nitro' screw compressors are extremely reliable and quiet, and with proper responsible use and regular maintenance are characterized by a very long service life.

Each SOTEX Nitromat Pro nitrogen generator is standard equipped with a sophisticated compressed air treatment built up from a combination of a cyclone filter, compressed air filters and a unique desiccant integrated in the PSA vessels.

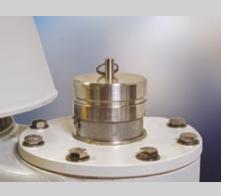
The compressed air treatment is absolutely necessary to guarantee a long life of the PSA and therefore a high purity of nitrogen. These compressed air filters in particular must be regularly maintained.

SOTEX **optionally** offers a **compressor with a built-in refrigeration dryer**, which embraces a more extensive compressed air treatment which guarantees an even **longer service life**. This is recommended in countries with high humidity or large daily temperature differences.

For more information regarding use and maintenance, please refer to the separately available comprehensive manuals.



nitrogen expansion system with a matching vacuum/overpressure control valve. This is an additional safety device that protects the precious vertical heat storage tank against undesired underpressure or overpressure situations (DN80 t/m DN300).



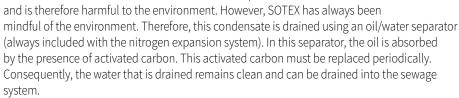
The mechanical nitrogen relief valve is part of the vacuum/ over-pressure control valve. By opening at 20 mbar, this valve controls the working pressure.



Optionally, the vacuum/ over-pressure control valve can be equipped with a customised protective cover, which can be easily mounted on top of the control valve. This cover protects the control valve against sun and wind.

Environment

In order to produce the nitrogen, compressed air treated by the compressed air filters is used. These filters are included in every SOTEX Nitromat nitrogen generator. Aft er all, the compressed air must be clean and dry for the benefit of the nitrogen producing system. The residual product of this filtering is mainly condensed water, which also contains dust and oil particles



Optional

The SOTEX nitrogen expansion systems can optionally be expanded with the following options:

■ Compressor with integrated refrigeration air dryer

This option is a significant upgrade of the compressed air treatment, which significantly improves the reliability and service life of the nitrogen generator.

We particularly recommend this option in countries with a climate where there is high humidity or where the temperature differences (or may be) very large on a daily basis.

■ SOTEX protective cap for vacuum / overpressure control valves

This is a customised protective cover that can be placed over the vacuum / over-pressure control valve. The SOTEX plastisol protective cover reduces the risk of freezing. However, it by no means guarantees 100% frost-free condition and therefore, SOTEX provides no guarantee. However, it is an important tool.

■ SOTEX for use on two and / or three vertical storage tanks

Normally, the SOTEX nitrogen expansion system operates on a single vertical storage tank. If there are two or three vertical storage tanks, you can of course opt for two or three separate nitrogen expansion systems. However, SOTEX offers a better solution, the type DUO or TRIO; a single nitrogen expansion system suitable for operating on multiple vertical storage tanks. The SOTEX control panel with SIEMENS PLC is equipped with a 7 "multi-color touch display that can display the data of multiple vertical storage tanks and the SOTEX Nitromat nitrogen generator has two or three nitrogen supply valves.

■ SOTEX continuous electronic nitrogen purity measurement

If desired, the SOTEX Nitromat nitrogen generator can be equipped with a sensor incorporated into the control panel, which continuously monitors the quality of the nitrogen from the nitrogen storage tank. The measured purity is shown as a percentage on the display of the control panel.

■ SOTEX extra low water protection

If ordered together, the SOTEX installation will be delivered with an extra mechanical sensor, a kind of tuning fork. We advise to place these at the zero point of the expansion space. The signal goes through the control panel but not through the PLC. Control takes place via a potential-free contact.

■ SOTEX submersible sensors cold storage tanks

With the so-called vertical storage tanks for cooling systems, SOTEX recommends that the installation be fitted with special submersible sensors that are hung in the tank from the roof. Possible malfunctions that can arise with the standard sensors in combination with cold storage tanks are thus prevented. For more information, consult SOTEX.



■ SOTEX electronic level monitoring two vertical storage tanks

Parallel coupling of vertical heat storage tanks often creates the problem that there is an excess of mass in one tank and a shortage of mass in the other tank. The law of communicating vessels is often insufficient (passive return line) due to differences in height of the tanks and / or a too long coupling line. Mass differences due to the transfer of heat from one buffer tank to another is a thing of the past when using the SOTEX TMB-DUO basic.

The SOTEX TMB-DUO basic is an inventive monitoring system that ensures that the mass is maintained in vertical heat storage tanks. We provide voltage-free contacts (max. 10 Amp.) With sensors and an intelligent control unit, with which the rotation speed of the return pump can be controlled after a received release signal. This is a separate control box and is delivered as such.

■ SOTEX network functionality / COM modules

The SIEMENS PLC control is ideal for further network functionalities. By placing COM modules you can choose, for example, a Profinet or Modbus network extension so that the SOTEX control can communicate on the internal network. It is also possible, for example, to place additional COM modules that make the sensor values available for external use. For more information, consult SOTEX.

■ SOTEX electric frost protection vacuum / overpressure control valve

Optionally, SOTEX can supply the vacuum / pressure relief valve ex factory with an electrically supplied heat ribbon. This minimizes the risk of freezing. Only supplied in combination with the protective cover described on page 6. Highly recommended for projects in very cold countries.

■ SOTEX wooden crate packaging according to ISPM15 regulations

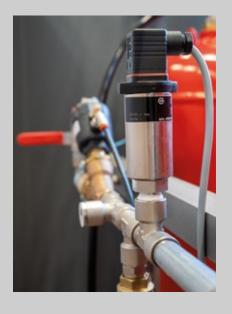
Optionally, SOTEX can supply the installation to be supplied in a robust crate packaging. As standard, SOTEX delivers its installation properly packed on a pallet. It is precisely for your export projects that you can supply the various components in custom-made wooden crates. The wood used is absolutely from the most responsible suppliers and meets the ISPM-15 HT certification and therefore meets all international export requirements in the field of wooden packaging.



SOTEX calamity valve 2" is included with every nitrogen expansion system.

Mounted on the top of the vertical heat storage tank, this manual cock will be rarely used. However, in case of an unexpected malfunction, then you can set the pressure control to zero using the controls and easily open the manual ball-valve.

The vertical heat storage tank is atmospheric after opening the ball-valve until you close the ball-valve after the malfunction has been resolved.



The SOTEX Nitromat nitrogen generators are characterized, among other things, by a high operational reliability by using the very best materials, such as the high-quality pressure sensor which provides the pressure measurement on the nitrogen storage vessel.



Every SOTEX Nitromat Pro generator is equipped with an oil/water separator. In this separator the oil is absorbed by the presence of activated carbon.

Consequently, the water that is drained remains clean and can be drained into the sewage system. This makes the system environment-friendly.



SIEMENS

The switch panel of the SOTEX Nitromat Pro nitrogen generator is equipped with a SIEMENS S7 PLC in combination with a multi-colored 7" touchscreen LCD display. In the event of a possible malfunction, the display will indicate the malfunction and turn red.

The switch panels are also completely developed and built in our own factory.

The supply voltage is always 1x 230 Volt 50 Hz. When the installation is installed in countries with a different voltage, SOTEX supplies a special 'transformer box'. This separate panel needs to be placed nearby the nitrogen generator and converts the special voltage to the supply voltage of the switch panel.

Easy-commissioning

Unique to the SOTEX Nitromat Pro VP nitrogen system is that it is standard equipped with a so-called **EASY-COMMISSIONING** program. This means that as soon as you have switched on the nitrogen generator, you first go through a special menu, which gives you help with commissioning; a **huge plus** for installers working on foreign projects in particular!



Start-up screen on Nitromat Pro VP 7 " Touchscreen

In this menu you will be asked a number of important questions and you will be provided with the most relevant information by means of a clear textual explanation and where possible supported with sample images. The unique program helps you to set up, connect and adjust the SOTEX nitrogen expansion system flawlessly. As soon as you are done with this, the nitrogen expansion system will start up completely by itself, so you don't have to do anything anymore. Of course there is also a clear reference book available in the form of the supplied installation and user manual, more about this at the bottom of this page.



Each SOTEX nitrogen expansion system comes with a clear installation and user manual.

This manual - available in multiple languages - is located in the switch panel and provides step-by-step instructions to the installer and / or user. The explanation is supported by clear drawings and color examples.



Quality and reliability

The SOTEX nitrogen expansion system is characterized by quality and reliability. All systems undergo an extensive final test before delivery; the compressor is extensively tested for achieving capacity and final pressure. The capacity of the nitrogen generator adjusted and checked using a digital flow meter. The nitrogen purity is of course adjusted and measured with a calibrated residual oxygen meter.

Nevertheless, a defect or malfunction can always occur. It is very important that you can count on adequate service provision at that time. SOTEX finds service and accessibility very important.

Our 24-hour service department is continuously available to advise and assist you. Faults or defects are solved quickly and professionally by our own technicians. So also at night, on weekends and during holidays. A matter of course for us, extremely important and pleasant for you!

Maintenance

In addition to the service provision, SOTEX also provides the necessary maintenance. Contractual maintenance is of course the biggest recommendation, but even without a contract you can contact SOTEX for the necessary maintenance.

The operating hours are usually decisive for the intervals, but the practical situation is also considered, such as external influences such as air pollution, ambient temperature, etc., but also the number of start and stop times, for example, play an important role. Contractual maintenance is not limited to the border, but takes place in many countries around the world. Ask for the possibilities!

This pressure switch protects the nitrogen generator from an undesirably low pressure.

This includes a connection point for clean and dry compressed air which, after agreement with SOTEX, can be used for external, small compressed air consumers.



SOTEX provides service

and maintenance for



The compressed air filters of the SOTEX Nitromat Pro nitrogen generators are very effective and reliable. The condensate to be collected is discharged to the oil / water separator included in each Nitromat Pro nitrogen generator.



SOTEX Nitromat Pro VP17





	TYPE NITROGEN GENERATOR	ELECTRICAL CONNECTION	FREQUENCY	DIMENSIONS W x D x H	WEIGHT	CAPACITY @ 9,5 BAR	MAX. FUSE	WORK PRESS.	REST PERCENTAGE O ²	COMPR. AIR NEEDED @ 10 BAR	COMPRESSOR ADVISE
		Volt	Hz	mm	kg	Nm³/hr	Amp		%	m³/hour	
\bigcirc	Nitromat Pro VP2	1x 230	50	850 x 750 x 1700	152	2		15 mbar	1	8	AC GX2
S	THE OFFICE TO VI Z	3x 208~575 *	60	030 X 130 X 1100	170						
	Nitromat Pro VP4	1x 230	50	855 x 750 x 1700	173	4	16			10	AC GX2
\vdash	William To VI 4	3x 208~575 *	60		191	,				10	AC GAZ
	Nitromat Pro VP7	1x 230	50	900 x 750 x 1700	200	7				19	AC GX3
RA		3x 208~575 *	60		218					13	710 070
ш	Nitromat Pro VP11	1x 230	50	900 x 750 x 1700	253	11				29	AC GX4
\overline{z}		3x 208~575 *	60		271	11					
	Nitromat Pro VP17	1x 230	50	980 x 750 x 1800	329	17				45	AC GX7
		3x 208~575 *	60		347	11				73	AC OXI
5	Nitromat Pro VP20	1x 230	50	980 x 750 x 2000	371	20				50	AC GX7
—		3x 208~575 *	60	J00 x 1J0 x 2000	389	20				30	AC OAT
	Nitromat Pro VP26	1x 230	50	1200 x 760 x 2100	608	26				65	AC G7
		3x 208~575 *	60		626					0.5	ACUI
	Nitromat Pro HP2	1x 230	50	850 x 750 x 1700	152	2				8	AC GX2
		3x 208~575 *	60		170		16				
\vdash		1x 230	50		173	4 7				10	AC GX2
\overline{z}	Nitromat Pro HP4	3x 208~575 *	60	855 x 750 x 1700	191						
	Nitromat Pro HP7	1x 230	50		200						
		3x 208~575 *	60	900 x 750 x 1700	218			1 bar		19	AC GX3
	Nitromat Pro HP11 Nitromat Pro HP17	1x 230	50		253	11			1		
		3x 208~575 *	60	900 x 750 x 1700	271					29	AC GX4
		1x 230	50	980 x 750 x 1800	329	17					AC GX7
		3x 208~575 *	60		347					45	
	Nitromat Pro HP20	1x 230	50		371	20				50	AC GX7
		3x 208~575 *	60	980 x 750 x 2000	389						
		1x 230	50	1200 x 760 x 2100	608	26					AC G7
	Nitromat Pro HP26	3x 208~575 *	60		626			•		65	

| design pressure 11 bar(g) | design temperature 20 °Celsius | max. working pressure in N2 storage vessel 8 bar(g) | CE approval | CUTR / EAC approval | conform UL / CSA | DUO + 2 kg | TRIO +5 kg |

^{* =} optional connection voltage is possible. For this purpose, a so-called transformer box is supplied separately with the Nitromat Pro nitrogen generator.

This transformer box makes it possible to connect the Nitromat Pro nitrogen generator electrically to the following electrical connection voltages: 3x 208 Volt 60 Hz, 3x 440 Volt 60 Hz, 3x480 Volt 60 Hz and 3x 575 Volt 60 Hz. If the connection voltage you want is not listed here, ask about the possibilities.

Atlas Copco



HIGH RELIABILITY

- 100% continuous duty cycle.
 Up to 46 °C/115 °F ambient temperatures.



LOW MAINTENANCE

- Easy access for maintenance.
 Quality components.



SILENT OPERATION

- Belt-driven element.
 Reduced noise levels and low vibration.



ENVIRONMENTALLY FRIENDLY

- · Reduced energy
- consumption.
 Low CO₂ emissions.

TYPE COMPRESSOR			MOTOR	DIMEN- SIONS LxWxH	CAPACITY (FAD)	ELECTRICAL CONNECTION	AIR RECEIVER CONTENT	WEIGHT
			kW	mm	m³/hour	Volt	liter	kg
10 BAR - 50 HZ								:
ATLAS COPCO G2-10 type Nitro incl. automatic condensate drain			2,2		17,6			165
ATLAS COPCO G3-10	Stanc		3,0	14:	22,0	3X 400		170
type Nitro incl. automatic condensate drain	daad w	CE PED 2014/68/EU EAC / CU-TR	4.0	-30 × 66	31,0		200	
type Nitro incl. automatic condensate drain	ith So		4,0	1430 × 665 × 1260	31,0			175
ATLAS COPCO G5-10 type Nitro incl. automatic condensate drain	tex nitr		5,5		46,8			185
ATLAS COPCO G7-10 type Nitro incl. automatic condensate drain	ogen e		7,5		59,0			195
ATLAS COPCO G7EL-10	Standaad with Sotex nitrogen expansion system		7,5	1533×590×1332	64,9			245
type Nitro incl. automatic condensate drain ATLAS COPCO G11EL-10	ion sys				,		270	
type Nitro incl. automatic condensate drain	tem		11,0		86,5		270	257
ATLAS COPCO G15EL-10 type Nitro incl. automatic condensate drain			15,0		104,8			276
10 BAR - 60 HZ								
ATLAS COPCO G2-10TRI		UL / CSA Lloyds / ASME	2,2	14,4 28,1 36,0 50,4 64,9 1533×590×1332 104,8	14,4			180
type Nitro incl. automatic condensate drain	Ę							100
type Nitro incl. automatic condensate drain	For projects in Mexcio, Canada & USA		4,0			200	190	
ATLAS COPCO G5-10TRI type Nitro incl. automatic condensate drain	ects in		5,5		36,0	3x 208/440 480/575		200
ATLAS COPCO G7-10TRI type Nitro incl. automatic condensate drain	Mexcio		7,5		50,4			210
ATLAS COPCO G7EL-10	o, Cana		7,5		64 9	60 Hz		245
type Nitro incl. automatic condensate drain ATLAS COPCO G11EL-10	da & ∟		1,5		, , , , , , , , , , , , , , , , , , ,			
type Nitro incl. automatic condensate drain	JSA				86,5		270	257
ATLAS COPCO G15EL-10 type Nitro incl. automatic condensate drain			11				276	
						•		
CL. REFRIGERANT AIR DRYER * ATLAS COPCO G2FF-10	HZ - IN	AK - 50			17.0			100
type Nitro incl. automatic condensate drain	9		2,2		17,6			190
ATLAS COPCO G3FF-10 type Nitro incl. automatic condensate drain	ptiona	CE PED 2014/68/EU EAC / CU-TR	3,0	1430 x 665 x 1260	22,0			195
ATLAS COPCO G4FF-10	Optionally with Sotex nitrogen expansion system		4,0		31,0		200	200
ATLAS COPCO G5FF-10	h Sote		5,5		46,8	3x 400 50 Hz		210
type Nitro incl. automatic condensate drain	x nitrog				,			
type Nitro incl. automatic condensate drain	gen ex		7,5		59,4			225
ATLAS COPCO G7EL FF-10 type Nitro incl. automatic condensate drain	pansio		7,5	1533×590×1332	64,9			314
ATLAS COPCO G11EL FF-10	n syste		11		86,5		270	326
type Nitro incl. automatic condensate drain ATLAS COPCO G15EL FF-10	ă		1.5		,			220
type Nitro incl. automatic condensate drain			15	2	104,8			338

 $^{^{\}star}$ = the optional FF version is also available with special connection voltage. For more information please contact contact the SOTEX sales department.





Atlas Copco G Nitro [supplied as standard]



Atlas Copco G FF Nitro - with integrated refrigeration dryer [optional]



Condensation forms during the production of compressed air. Most condensation is collected in the compressed air tank, which is located under the screw compressor. The compressors supplied by SOTEX are user-friendly and therefore equipped with a fully automatic electronic drain that drains the condensation to the oil / water separator.

For standard maintenance, SOTEX supplies carefully composed maintenance packages with original parts.

Each package is provided with clear maintenance instructions. For more information, please contact our service department.





WEIGHT		DIMEN	ISIONE		MAX. PRESSURE	CONTENT	VECCEL TYPE			
WEIGHT DIMENSIONS kg diameter x hoogte in mm		bar	liter	VESSEL TYPE						
120	Ø	600	Х	2060		500		CE 98/	SBV11-500	
167	Ø	790	Χ	2160	11,0	900		CE PED 98/4040	SBV11-900	
196	Ø	790	Χ	2345		1000	Standa Deli		SBV11-1000	
397	Ø	1000	Χ	2805		2000	ard ch very ir	CE PED 2014/68/EU [opt SELO]	SBV11-2000	
542	Ø	1200	Χ	2965		3000	oice; E ncludii		SBV11-3000	
729	Ø	1450	Χ	3070		4000	Standard choice; European approval Delivery including accessory set.		SBV11-4000	
855	Ø	1450	Χ	3570	11,5	11,5 5000)14/68 SELO]	SBV11-5000	
982	Ø	1450	Χ	4070		6000	prova y set.	/EU	SBV11-6000	
1326	Ø	1650	Χ	4135		8000			SBV11-8000	
1657	Ø	1650	Χ	5135		10000			SBV11-10000	
140	Ø	600	Χ	2060	11.0	500		ASME excl. stamp	SBV11-500 ASME	
186	Ø	790	Χ	2160	11,0	900			SBV11-900 ASME	
223	Ø	790	Χ	2345		1000	For p Deliv		SBV11-1000 ASME	
415	Ø	1000	Χ	2805	11,5	2000	For projects in Canada en U.S.A Delivery including accessory set.		SBV11-2000 ASME	
570	Ø	1200	Χ	2965		3000	s in C cludir		SBV11-3000 ASME	
756	Ø	1450	Χ	3070		4000	anad		SBV11-4000 ASME	
880	Ø	1450	Χ	3570		5000	a en l essor	mp	SBV11-5000 ASME	
1015	Ø	1450	Χ	4070		6000	J.S.A. / set.		SBV11-6000 ASME	
1487	Ø	1650	Χ	4135		8000			SBV11-8000 ASME	
1748	Ø	1650	Χ	5134		10000			SBV11-10000 ASME	
130	Ø	600	Χ	2060	11.0	500			SBV11-500 EAC	
181	Ø	790	Χ	2160	11,0	900	F Kazak		SBV11-900 EAC	
210	Ø	790	Χ	2345	<u>.</u>	1000	or pro	CU TR certifcate (EAC)	SBV11-1000 EAC	
419	Ø	1000	Χ	2805		2000	ojects 1. Deli		SBV11-2000 EAC	
564	Ø	1200	Χ	2965		3000	For projects in Russia, Belarus and Kazakhstan. Delivery including accessory set		SBV11-3000 EAC	
758	Ø	1450	Χ	3070	11.5	4000	ssia, l ncludi		SBV11-4000 EAC	
892	Ø	1450	Χ	3570	11,5	5000	Beları ng acı		SBV11-5000 EAC	
1024	Ø	1450	Χ	4070	<u> </u>	6000	us and cessor		SBV11-6000 EAC	
1374	Ø	1650	Χ	4135	į	8000	y set.		SBV11-8000 EAC	
1681	Ø	1650	Χ	5134		10000			SBV11-10000 EAC	

optionally the vessels are also available with a SELO certificate for the Chinese market. Data equal to CE vessels.



The corresponding appendages are supplied with each nitrogen storage vessel.

This includes a pressure gauge, caps, valves and pressure relief valve.



Two extremely reliable pressure sensors are supplied for measurements on the vertical heat storage tank

The sensor that measures the content is placed in the side wall of the tank and the sensor that measures the pressure of the nitrogen cushion is placed on the roof.











The sensors are standard delivered with a removable PVC protective cap as shown in the photos opposite.
These protective caps largely prevent the worst weather influences, ensuring reliable operation. It will never be an absolute guarantee against freezing. There are options for this with electrically supplied tracing cable.

CE ASPIE @ @ EH[



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