

MODULAR NITROGEN SYSTEM FOR EVERY APPLICATION

# AV61/AV91 nitrogen generators

The Avilo AV61 / AV91-Series is a modular nitrogen system that is built to customer specifications. This allows us to serve a wide variety of industries - each with their own specific requirements - with a standard product that can be delivered quickly.



The compact AV61 base unit is available in different capacities and delivers up to 35m<sup>3</sup> nitrogen per hour at a purity of <95%. When a higher flow rate is desired, modules with greater production and filtration capacity can be added to the base unit, creating an AV91 modular system that is fully adaptable to the requirements of the application.

## High quality (food grade) nitrogen gas

The AV61/90 systems are equipped with extensive and reliable compressed air filtration that removes contaminants from the incoming compressed air, such as; solid particles, moisture, bacteria and oil. In addition, the integrated activated carbon bed removes all traces of ozone, oil vapor and odors or flavors. As a result, the nitrogen product can be used for food and beverage applications.

## Continuous production 24/7, 365 days a year

The AV61/AV91-system is designed with continuous 24/7 use in mind. After connecting to a standard compressed air supply, the generator will start/stop without further user assistance and create unlimited nitrogen gas for your application. 24 hours a day, 365 days a year. This way you can continue to focus on your application without worrying about the gas supply.

## Nitrogen quality assured

Integrated compressed air pre-treatment ensures the delivery of a high quality dry nitrogen gas that is free of impurities and immediately ready for use. To guarantee quality, the nitrogen values are continuously monitored by internal sensors. A clear display of the measured values can be read on the touchscreen and are stored within the controller for up to a year.



**Promise a lot. Deliver more.**



## AV61/AV91 NITROGEN GENERATORS

### Intuitive Controller

The touchscreen display provides a clear representation of the measured production values and the generators settings in various languages. In addition, the intuitive AVILO OS5 software offers numerous possibilities.

It informs the user about maintenance needs and allows to set numerous alarm values and set-points, making sure the application and the generator itself are protected in the event of an upstream complication.

### Optional

- Moisture detection alarm
- Automatic Calibration system
- Other custom adjustments in consultation

### Specifications AV61 / AV91 series

<b>Capacity N<sup>2</sup> at 98%</b>	4.5 to 130 m <sup>3</sup> /min
<b>N<sup>2</sup> Purity Range</b>	90% - 99,6%
<b>N<sup>2</sup> Pressure Range</b>	4 to 9 bar
<b>Connection N<sup>2</sup></b>	1/2" G*
<b>Connection Comp. Air</b>	1/2" G*
<b>Connection Condensate</b>	6 mm (push-up)
<b>Ambient Temperature</b>	10 - 35 °C
<b>Power</b>	230 VAC - 50 Hz
<b>Dimensions (H x W x D)</b>	187 X 66 X 57 cm*
<b>Compressed Air Quality</b>	Class 3.4.2 (ISO 8573-1:2010)
<b>Compressed Air Pressure</b>	Min. 5 - Max. 10 bar

\* AV61 Basisunit, AV91 modular systems have different dimensions

### Flow rates

The table below shows a selection of the possible capacities.

Other configurations are available.

M<sup>3</sup> per hour at 7 bar external compressed air pressure

Model/Purity	99.5%	99.0%	98.0%	97.0%	96.0%	95.0%
AV61 ST1506 SPF	2.1	2.9	4.5	6.3	8.3	10
AV61 ST1508 DPF	4.2	6	9.9	13.8	18	22
AV61 SA1508 SPF*	4.5	6.7	10	13.7	17	x
AV61 DT15068 DPF	4.6	7.2	12.6	17.5	22	27
AV61 DA15068 DPF*	6.8	9.8	14.6	19.2	23	31
AV61 DT1508 DPF	6.2	9.6	16.7	23	29	35
AV61 2SA1508 DPF*	9	13.4	20	27.4	34	x
AV91 3SA1508 PF*	13.5	20.1	30	41.1	51	60
AV91 4SA1508 PF*	18	26.8	40	54.8	68	80
AV91 5SA1508 PF*	22.5	33.5	50	68.5	85	100
AV91 SA15020 PF*	30	45	65	85	105	125
AV91 2SA15020 PF*	60	90	130	170	210	250

\* Energy-efficient models with lower compressed air consumption

### Display Values / Functions

- Nitrogen Pressure
- Nitrogen Purity / Oxygen content
- Pressure dew point of the compressed air (optional)
- (service) Hour counters incl. maintenance reminder
- Purity & Pressure alarm
- Service history
- Data log of production values (1 year)
- Export Data log via USB
- Measuring cell calibration
- Auto-restart function

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