

ProvoJet

Broncho-Provocations for inhalational provocation tests

ProvoJet – just perfect!

Performing inhalational provocation tests extraordinarily quick and with reproducible results – with the **ProvoJet**, GANSHORN developed an aerosol dosimeter that meets these requirements – measurement lab independently. The threshold controlled, breath-synchronous application of the preset aerosol dose during the inspiration phase guarantees outstanding reproducible results.

Make your choice!

- Specific or non-specific provocations, single or multiple stage tests can be selected in matter of seconds via the well-arranged data entry pad
- Up to six different standard provocation series (i.e. Metacholin 0.33%) permanently stored with a maximum of up to 10 stages each
- The dose per stage can alternatively be changed by either increasing the provocation fluid concentration and/or by changing the total atomizing time
- In many cases the setting of the atomizing time allows the usage of only one single aerosol concentration – this saves time and money!

Stay on top!

Due to the perfect user guidance and simple handling of the **ProvoJet**, you can ease the daily work of your staff. The well-structured display of the **ProvoJet** continuously provides precise information on the status of the examination.

The backside-ventilated special valve located directly at the atomizer and the large compressed air tank guarantee an optimal droplet size, which remains constant over the entire bolus time.





How does a provocation test proceed with the ProvoJet?

After exceeding the set threshold, the **ProvoJet** starts atomizing the respective provocation substance.

Due to the atomizing action only during the inspiration phase (the so-called »Bolus-Method«), the aerosol reaches the respiratory tracts particularly deeply.

Breath by breath the **ProvoJet** monitors the desired total dose and adapts the atomizing time to short breathing cycles.

The total atomized quantity per stage and provocation series is automatically calculated.

Only a minimal quantity of aerosol is exhaled, which is nearly completely retained by a highly effective filter. Practically no contamination of the room air exists.

The powerful compressor with a three-liter compressed air tank guarantees a stable atomizing pressure and a low noise level (operating time of only approx. 1-3 minutes per day).

Due to its well-developed construction, only a few components of the **ProvoJet** must be disinfected. This saves time and money and last, but not least, protects the environment! Use common disinfectants suitable for plastics.

Standard Unit

433 011 ProvoJet with standard series, atomizer unit, support-pole, and compressor

Options

- 960 836 Low pressure tubing, 3 meters with quick connect coupling
- 960 862 Low pressure tubing, 5 meters with quick connect coupling
- 943 001 Atomizer-set with quick connect coupling for compressed air connection including mouth piece and T-piece
- 943 006 Mouth piece and T-piece, PVC
- 942 602 ProvoJet - filter unit
- 943 005 Atomizer pot
- 990 421 Labels for atomizer pot (25 pieces per package)

Technical Specifications ProvoJet:

Power supply:	Power adapter 220-240 Volt 50 Hz 12 Volt output = 580 mA, double insulated
Power consumption:	approx. 7 VA
Housing:	plastic
Weight:	approx. 2 kg
Dimensions:	260 mm x 100 mm x 250 mm (W x H x D)
Adjustable bolus time:	0.1 to 5 seconds
Total atomizing time per stage:	maximum 65 seconds
Stages per measurement series:	maximum 10
Protection class:	II, double insulated
MPG device type:	IIa, (93/42/EEC)
Certificate:	CE 0124 and EN ISO 9002
Compressor:	220 Volt / 50 Hz, single-phase asynchronous
Pressure tank volume:	3 liters, corrosion-proof aluminum
Power consumption:	maximum 250 VA
Maximum air supply:	70 liters/min, 100% oil-free
Maximum pressure:	4 bar

We operate a quality assurance system complying with DIN EN ISO 9001:2000 and 13485:2003



Illustrations shown do not necessarily correspond with the basic equipment. Subject to technical modifications and improvements without notice, as well as to the availability of the devices and options mentioned. 01/2010

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