



# Patient Realistic Inhaler Testing

## Breathing Profile Generator F-sig 6300

The F-SIG 6300 by AB FIA is a breathing profile generator that is capable of replaying complex breathing patterns. Thanks to a novel multi-cylinder design, F-SIG 6300 enables generation of a number of clinical relevant patterns. F-SIG 6300 is not intended for clinical use on humans. The areas of operation are for instance: testing of pharmaceutical inhalers and nebulizers with human breathing patterns, characterization of cigarettes (smokers profiles), rodent profiles and general respiratory research that includes very controlled breathing patterns.

*The generator is easily movable and comes with a handheld touch-panel.*



*The user interfaces are simple and intuitive.*



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A typical application is the NGI with an anatomical throat and mixing inlet.

### User Friendly and Versatile

The F-SIG 6300 is operator-friendly and comes with a touch panel. Profiles, possibly recorded by FIA's Metivent software, are handled and modified in a spreadsheet (e.g. Excel) and the profile library is downloaded to the F-SIG 6300. The operator can thereafter, from the library of profiles, select desired profile on the panel and start the replay of the profile.

## Breathing Patterns

- Forceful inhalation/exhalation profiles through e.g. dry powder inhales.
- Replaying breathing patterns used in the characterization of Nebulizers as stated in e.g. USP <1601> and Ph. Eur. 2.9.44.
- Breathing patterns that comprise small air flows such as smokers' profiles or rodent nose breathing.



The equipment comes with a number of recorded profiles which are run as part of the installation qualification.

	A	B	C	D	E	F
1	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6
2	2014-01-01	2014-01-02	2014-01-03	2014-01-04	2014-01-05	2014-01-06
3	AB 1	AB 2	AB 3	AB 4	AB 5	AB 6
4						
5		10	-8			
6						
7						
8						
9						
10						
11	0,00	0,00	0,00	0,00	0,00	0,
12	0,37	0,25	0,15	0,48	0,11	0,
13	0,74	0,65	0,31	0,96	0,23	0,
14	1,11	0,82	0,74	1,82	0,28	1,
15	1,48	1,30	0,98	2,98	0,36	1,

## The Equipment:

F-SIG 6300 consists of a breathing profile generator built into a box with transparent plastic covers and placed on wheels. The control system of the multi-cylinder package is configured and operated by the user through the touch panel.

**Capacity large volume:** 0 – 6.3 liters

**Capacity small volume:** 0 – 0.1 liters

**Voltage:** 95 - 255VAC, 50 - 60Hz, 6.5A

**Dimensions HxWxD:** 380x1036x480 mm, Touch Panel: 80x280x170 mm

## For contact and more information

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