



Product catalogue

2018

olfasense ::::

Welcome



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Dear Madam, dear Sir,

Thank you very much for your interest in our products.

Olfasense is the world-leading supplier of odour laboratory technologies and odour measurement equipment, including olfactometers, sampling tools, software, calibration services and much more.

The specially designed, unique technology is used by more than 400 laboratories, research institutes, universities, and companies world wide. Reliable, high-quality measuring technology consists primarily of the robust measurement equipment, well-engineered software as well as customer service and support. At Olfasense, these elements interact in perfect harmony, making us your one-stop provider of odour measurement technology solutions.

You won't be surprised to learn that most scientific research papers and applied environmental olfactometry research of the past 30 years are based on data obtained using our odour measurement equipment.

Olfasense members were also key players in all other relevant odour working and standardisation groups since 1993, and we have pioneered ISO 17025 accreditation.

Our employees' expertise is key to our success in this field – and means we can develop the very best customised odour measurement and sampling equipment in the world. Don't miss the chance to benefit from this knowledge and expertise – Be part of it!

All our products come with a warranty of 24 months. Third party products (compressor, notebook, etc.) come with 12 months warranty.

We are at your service to set up your professional odour laboratory!

Best regards

Marc Andresen
Product Sales & Customer Care – Olfasense GmbH

TO-Series labs around the world Since 1996



Germany	105	Belgium	5	Israel	3	Estonia	1
Italy	35	Hong Kong	5	Ireland	2	Argentina	1
Czech Republic	10	Denmark	3	Korea	2	Latvia	1
Switzerland	10	Finland	3	Mexico	2	Lithuania	1
Austria	9	Hungary	3	Romania	2	Netherlands	1
Spain	9	Norway	3	Singapore	2	New Zealand	1
England	7	Portugal	3	China	2	South Africa	1
France	7	Russia	3	Bangladesh	1	Thailand	1
Poland	7	Sweden	3	Brazil	1		
Turkey	6	USA	3	Bulgaria	1		
Chile	6	Australia	3	Colombia	1		

What our clients say

“ The TO evolution olfactometer and the services offered by Olfasense for the maintenance and calibration of this equipment enable us to offer our customers a high quality service (accuracy, repeatability and speed of analysis) to the highest international standards. We particularly appreciated the possibility of shipping Olfasense our dilution unit for the annual accredited calibration. By planning this operation, it did not affect the productivity of the laboratory. We have had the pleasure to obtain our accreditation according to ISO 17025 with our new equipment which has met all the expectations of the evaluators of the BELAC (design, calibration, data protection, stability, precision, reliability ...).”

- Loïc Raymond, Technical Manager for odours and gas chemistry, at Odometric

“ FORCE Technology has worked with olfactometry for 30 years, and for the last two years used a TO8 Olfactometer from Olfasense as our only olfactometer. We are very satisfied with the function of the TO8, which is easy to handle and have good report facilities. We have used Olfasense for service and calibration twice and appreciate the fast and reliable service. Our olfactometer was out of service for only six days. It was easy to arrange with Olfasense Calibration department. We have a good contact with Olfasense's technicians and get quick answers, when we have technical questions.

- Arne Oxböl, Project engineer at FORCE Technology

“ Since 2008, Scientific Research Institute for atmospheric air protection – SRI Atmosphere JSC (formerly SRI Atmosphere FSUE), has been deeply involved in research on odour/foul smell issues in the Russian Federation. We were among the very first who introduced olfactometers to the local air quality assessment work in Russia by purchasing the piece of equipment at Olfasense (Ecoma). With Olfasense's highly professional and friendly methodological and technical support we learned the technique and have been applying it ever since. We can attest that the whole cycle of our cooperation has been effective and pleasant: from the 5-day practical post-purchase workshop on introductions to the olfactometer's work to handy and ergonomic packaging of the equipment that allow easy moving around, and continuous and swift support that we receive from Olfasense's experts at any immediate request. After 7 years of experience with Olfasense's equipment and specialists we are happy about our initial choice, special thanks to Dietmar Mannebeck, Marc Andresen and their great team! We wish you good luck, inspiration for developing innovations that would further enhance our capacity in ensuring better quality of the environment and human well-being!

- SRI Atmosphere JSC

“ Odournet UK Ltd purchased two TO evolution olfactometers in 2015 and 2016, from Olfasense GmbH. Olfasense have provided a great service, with efficient supply and installation of our olfactometers and knowledgeable, friendly support whenever we've needed it. We were quickly able to integrate these olfactometers into our long-standing UKAS accreditation.

- Lucy Sutton, Quality Manager at Odournet UK Ltd



Involvement in working groups

Scope of accreditation

1995 - 2003 2012 - now	CEN/TC264/WG2 'Olfactometry,	EN13725 Air Quality - Determination of odour concentration by dynamic olfactometry
2002 - 2005	NVN 2818: 2005	Writing Dutch standard for hedonic tone measurements
2004 - 2011	VDI 3880	Olfactometry - Static sampling
since 2005	Werkgroep luchtkwaliteitsmodellen, WLM	Dutch working group on air dispersion modelling
since 2006	CEN/TC 264/WG 27	EN 16841-1 grid method which uses direct assessment of ambient air by panel members to characterize odour exposure in a defined assessment area EN 16841-2 plume method for determining the extent of the downwind odour plume of a source
2008 - 2011	ISO/TC 34/SC 12 Sensory analysis - NEN committee (NL)	Dutch standardisation committee on sensory analysis (general)
since 2008	mirror committee to ISO/TC 146/ SC 6/WG 14	Determination of odour emissions from building products using test chambers (ISO 16000-28 and ISO 16000-30)
since 2008	VDI 4302	Sensory testing of indoor air and determination of odour emissions from building products
2009 - 2013	VDI 3884	Olfactometry - Determination of odour concentration by dynamic olfactometry - Supplementary instructions for application of DIN EN 13725
2010 - 2013	VDI 3883	Effects and assessment of odours - Conflict management in air pollution abatement - Fundamentals and application to ambient odour
since 2010	VDI-WG 3885/1	Odour measurements of liquids
2011 - 2012 2015 - now	NTA 9065	Air quality - Odour measurements - Odour measurement and calculation
since 2012	NEN - odours (geurmetingen)	Dutch standardization committee for odour measurements (general)
since 2012	VDI 4221	Quality assurance - Requirements on interlaboratory tests in immission control - Requirements on providers of interlaboratory tests
since 2013	NVN 2818	Revision of Dutch standard for hedonic tone measurements
since 2014	VDI 3788 / 2	Environmental meteorology - Odour dispersion modelling - source term determination via backward modelling -
since 2014	VDI Committee - air quality	Committee to direct the air quality activities in the VDI
since 2016	CEN TC 264 WG41	Electronic sensors for odorant monitoring

Olfasense has always aimed to be an innovator, so it is fitting that we pioneered ISO 17025 accreditation – the main and most important standard for calibration and testing laboratories globally. We obtained our first (ISO 17025) accreditation certificate on 28 September 1993 for our Amsterdam laboratory.

We now run two testing laboratories for olfactometry according to the European Olfactometry Standard EN 13725, in Germany and the Netherlands.

What's more, our manufacturing and testing process of Nalophan gas sample bags is accredited under ISO 17025.

In addition, Olfasense is accredited to carry out proficiency tests in the field of dynamic olfactometry (EN 13725) and odour characteristics of interior materials in motor vehicles (VDA 270) according to EN ISO/IEC 17043:2010.

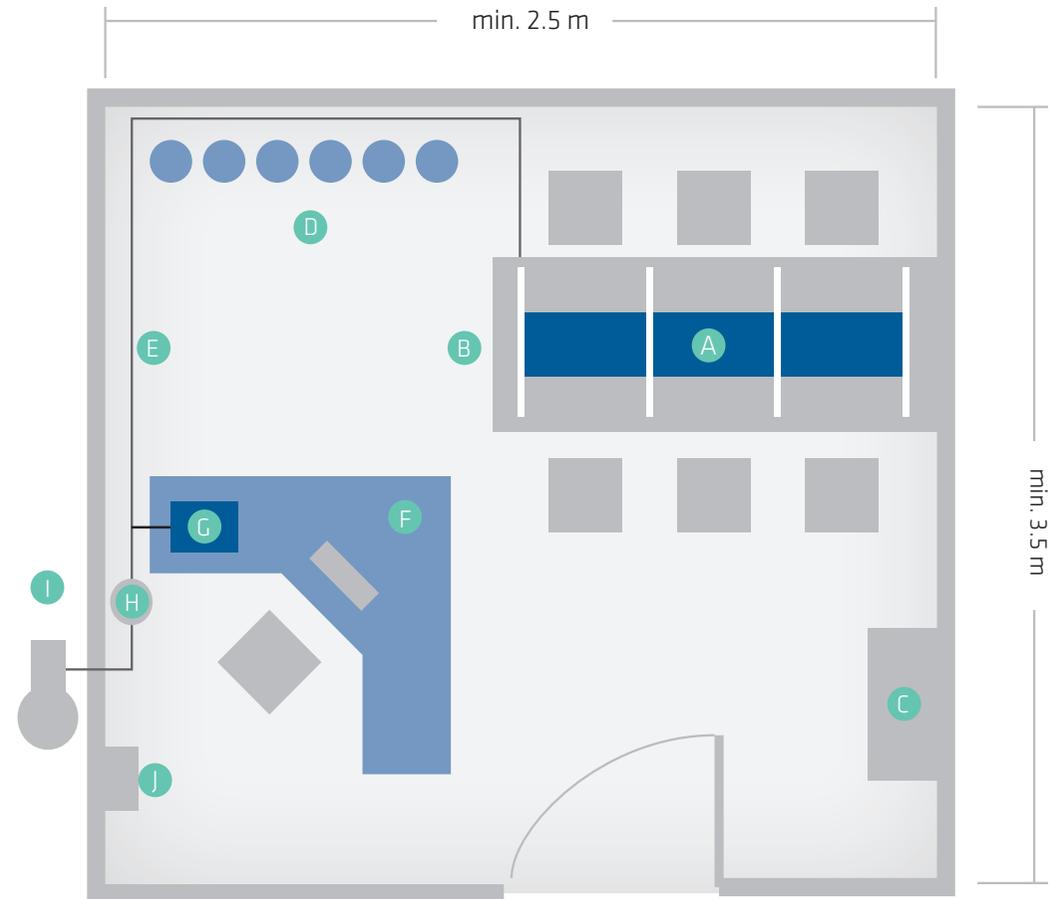
Germany	DAkkS accreditation no. D-PL-17433-01.
Netherlands	RVA accreditations L403.

Floor Plan



Exemplary Floor Plan of an Olfactometry Laboratory

- | | | | |
|-----|------------------|-----|-----------------------|
| ● A | Olfactometer | ● F | Operator desk |
| ● B | Assessor Desk | ● G | Predilution system |
| ● C | Air conditioning | ● H | Filter system |
| ● D | Sample storage | ● I | Compressor |
| ● E | Pressure line | ● J | Electrical connection |



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FACTS:

- Easy to set up and simple to maintain
- Scalable for up to six panellist stations
- Ergonomically designed
- Dedicated laboratory information management system (LIMS) for odour labs

SUPPORTED METHODS:

- Yes / No (EN 13725)
- Dual Forced Choice (EN 13725)
- Triangular Forced Choice (ASTM 679)
- Intensity (VDI 3882 Part1)
- Hedonic Tone (VDI 3882 Part2)
- Forced Choice / Hedonic Tone (NVN 2818)
- Forced Choice / Intensity

OLFACTOMETER TO-SERIES

TO evolution olfactometer

New benchmarks in the field of olfactometry

The TO evolution olfactometer combines the latest scientific and technological advances with decades of practical experience – enabling us to set new benchmarks in the field of olfactometry.

Based on our experience we know that different odour laboratories have different requirements for their olfactometer. That's why the TO evolution is the first "one-size-fits-all" olfactometer in the world.

Thanks to its modular design, the TO evolution is scalable for up to 6 panellist stations.

The software package provides a dedicated Laboratory Information Management System (LIMS) for odour labs which supports you in the process of delivering odour measurements of the highest quality.

To find out more, please visit our dedicated website www.to-evolution.com.





TO evolution olfactometer

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H) - Weight a) assembled 2 - Place b) assembled 4 - Place c) assembled 6 - Place	a) 665 x 900 x 550 mm - 28.7 kg b) 1370 x 900 x 550 mm - 43.1 kg c) 1965 x 900 x 550 mm - 57.5 kg
Maximum calibration interval	12 months (according to EN 13725)
Warranty	24 months (warranty extension up to 5 years through service contracts possible)

Dilution principle	Gas jet pumps and calibrated precision orifices for sample dosage
Vent for surplus diluted odour	Outlet air via active carbon filter
Number of panel members working simultaneously	2, 4 or 6
Analyses time for one sample (EN 13725)	5 min (with 4 or 6 panel members working simultaneously)
Dilution range	2 ² (1:4) - 2 ¹⁷ (1:131,058) - yes/no method 2 ³ (1:8) - 2 ¹⁷ (1:131,058) - dual-forced-choice method 2 ² (1:4) - 2 ¹⁷ (1:131,058) - triangular-forced-choice method
Interval steps	Factor $\sqrt{2}$ (1.4) - 31 dilution steps Factor 2 - 16 dilution steps
Dilution accuracy	< 5%
Response / setting time	< 0.1 sec
Required sample volume	~ 500 OU/m ³ - 1l (yes/no), 3.5l (d-f-c) * ~ 64 OU/m ³ - 3l (yes/no), 14.5l (d-f-c) * <16 OU/m ³ - 10l (yes/no), 54l (d-f-c) * *(estimation with default settings)

FACTS:

- Most sold olfactometer worldwide
- Fully automatic, 100 % compliant to EN 13725
- Unique + special designed dilution system
- Software includes project + panel database
- Yes-/No-Method, Intensity + Hedonic Tone
- Fastest analysing time, Fastest setup time
- Mobile & plug and play technology
- Heated dilution system to prevent contamination

SCOPE OF SUPPLY:

- Filter system
- Robust transport box
- Heating system to prevent contamination
- Full version software: Dynamic olfactometry and intensity/hedonic tone on USB stick
- 5 m compressed air connecting PTFE pipeline
- Compressed air connection (8mm external)
- 50 x 10 l bags
- Proprietary calibration certificate in accordance with ISO 17025

OLFACTOMETER T0-SERIES

Olfactometer T08

Most sold olfactometer worldwide

The popularity of the T08 is indisputable: it is the most sold olfactometer worldwide. It meets all requirements of a dilution device for olfactometric measurements according to EN 13725. It uses a unique and specially designed dilution system for odour samples.

The T08's main application is to measure odour concentration, providing a full record of

the data obtained, according to EN 13725. The measurement process is fully automated. It can also be used to assess hedonic tone or intensity (VDI 3882).

The compact size and transportability of this model means you can measure onsite in a mobile laboratory if required – and so keep sample storage time to a minimum.





Olfactometer T08

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H) a) assembled b) transport size	a) 650 x 650 x 470 mm b) 650 x 650 x 270 mm
Weight	17 kg
Maximum calibration interval	12 months (according to EN 13725)
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Dilution principle	Gas jet pumps and calibrated precision orifices for sample dosage
Vent for surplus diluted odour	Outlet air via active carbon filter
Number of panel members working simultaneously	4
Maximum panel size (software setting)	16
Analyses time for one sample (EN13725:2003)	5 min
Required air supply	115 l/min, oil-free
Dilution range	2^2 (1:4) - 2^{16} (1:65,536)
Interval steps	Factor 2
Dilution accuracy	< 5%
Response / setting time	< 0.1 sec
Required sample volume	High concentrations: 1-2 liter Low concentrations: 6-8 liter

FACTS:

- All the functionality of the T08
.....
- Plus dual-forced-choice (DFC) method
.....
- Fastest analysis: Yes/No method approx. 5 minutes, dual-forced-choice method approx. 7 minute
.....
- Maximum dilution 2^{17}
.....

SCOPE OF SUPPLY:

- Filter system
.....
- Robust transport box
.....
- Heating system to prevent contamination
.....
- Full version software: Dynamic olfactometry and intensity/hedonic tone on USB stick
.....
- 5 m compressed air connecting PTFE pipeline
.....
- Compressed air connection (8mm external)
.....
- 50 x 10l bags
.....
- Proprietary calibration certificate in accordance with ISO 17025
.....

OLFACTOMETER T0-SERIES

Olfactometer T09

An olfactometer for dual-forced-choice measurements

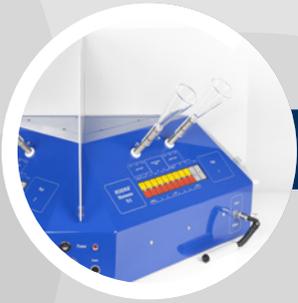
The T09 olfactometer has all the functionality of the T08, plus the dual-forced choice method.

It meets all the requirements of a dilution device for olfactometric measurements according to EN 13725.

Using the T09 gives you a complete description of an odour sample.

The maximum dilution increases to 2^{17} , allowing you to measure samples of higher odour concentrations than is possible with the T08.





Olfactometer T09

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H) a) assembled b) transport size	a) 650 x 650 x 470 mm b) 650 x 650 x 270 mm
Weight	18 kg
Maximum calibration interval	12 months (according to EN 13725)
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Dilution principle	Gas jet pumps and calibrated precision orifices for sample dosage
Vent for surplus diluted odour	Outlet air via active carbon filter
Number of panel members working simultaneously	4
Maximum panel size (software setting)	16
Analyses time for one sample (EN13725:2003)	5 min (yes/no) 7 min (dual-forced-choice)
Required air supply	Yes-/No: 115 l/min, oil-free Dual-Forced-Choice: 180 l/min, oil-free
Dilution range	2 ² (1:4) - 2 ¹⁷ (1:131,072)
Interval steps	Factor 2
Dilution accuracy	< 5%
Response / setting time	< 0.1 sec
Required sample volume	High concentrations: 2-3 liter Low concentrations: 8-10 liter

FACTS:

- All the functionality of the T08
.....
- Extra small and light olfactometer (about 9 kg)
.....
- Easy to build up in 10 min on site
.....
- Specially designed for travelling and measurements on site in a mobile lab
.....

SCOPE OF SUPPLY:

- Filter system
.....
- Robust transport box
.....
- Heating system to prevent contamination
.....
- Full version software: Dynamic olfactometry and intensity/hedonic tone on USB stick
.....
- 5 m compressed air connecting PTFE pipeline
.....
- Compressed air connection (8mm external)
.....
- 50 x 10l bags
.....
- Proprietary calibration certificate in accordance with ISO 17025
.....

OLFACTOMETER T0-SERIES

Olfactometer T08s

An olfactometer specially designed for travelling

The T08s is the smallest four-station olfactometer in the world. It meets all requirements of a dilution device for olfactometric measurements according to EN 13725.

Using the T08s gives you a complete description of an odour sample.

With all the functionality of the T08, the T08s is specially designed for travelling.

For the user, this means measurements can be taken wherever you are in the world, and international projects can easily be undertaken.

Weighing only 21kg (packed in a trolley), the T08s is also permitted on most flights.

The T08s is also available with all the functionality of the T09. Contact us to find out more.



Technical Data



Olfactometer T08s

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H) a) assembled b) transport size	a) 420 x 420 x 410 mm, b) 400 x 400 x 220 mm
Weight	8.5 kg
Maximum calibration interval	12 months (according to EN 13725)
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Dilution principle	Gas jet pumps and calibrated precision orifices for sample dosage
Vent for surplus diluted odour	Outlet air via active carbon filter
Number of panel members working simultaneously	4
Maximum panel size (software setting)	16
Analyses time for one sample (EN13725:2003)	5 min
Required air supply	115 l/min, oil-free
Dilution range	2^2 (1:4) - 2^{16} (1:65,536)
Interval steps	Factor 2
Dilution accuracy	< 5%
Response / setting time	< 0.1 sec
Required sample volume	High concentrations: 1-2 liter Low concentrations: 6-8 liter

FACTS:

- 100% compliant to ISO 16000-28, ISO 16000-30 and VDI 4302 Part 1
- High accuracy of acetone concentrations
- Low room air contamination
- 16 different concentrations (PI scale 0 -15)
- Compact/transportable
- Low gas consumption

SCOPE OF SUPPLY:

- 5 m compressed air connecting PTFE pipeline
- 1 x nose funnel
- 1 x power supply
- 1 x glass syringe for loading the container
- 1 x compressed air quick connector
- 1 x Allen key (size 5)

OPTIONAL:

- Nalophan gas sampling bags
- PureSniff XL
- Sampling Device Standard 60I
- Filter system
- Compressor

OTHER ODOUR TESTING EQUIPMENT

Acetone Comparative Scale

Determining the perceived odour intensity

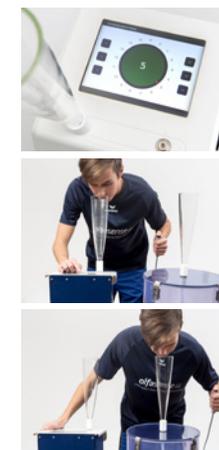
The Acetone Comparative Scale (ACS) by Olfasense is a comparative scale in accordance with ISO 16000-28, as well as ISO 16000-30 and VDI 4302, for the controlled presentation of concentrations of acetone in air for the purpose of a comparative estimation of odour intensity.

The 16 different concentrations (PI scale 0 -15) are created through the dosing and evaporation of liquid acetone into an open jet of the carrier air and presentation to the panel members by means of a glass nose funnel.

The ACS satisfies the requirements of ISO 16000-28, as well as ISO 16000-30 and VDI 4302, and allows the creation of the 16 levels after a free selection of the panel member.

Liquid acetone is required for the operation of the ACS. By calibrating the device with a suitable monitor (e.g. FID), the user can set it to the desired PI levels.

The ACS consists of a housing with a touch display as a user interface and a nose funnel for presenting the sample to the test person.





Acetone Comparative Scale

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	450 x 250 x 200 mm
	Height with nose funnel 750 mm
Weight	6.8 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Sample generation	Dosing through capillary tube with pressure regulation in reservoir and evaporation in an open jet nozzle
Volume flow	Supply line 60 l/min
	Sample air flow 40 l/min (preset by manufacturer)
Air supply	Oil-free, odourless compressed air or synthetic air
	3 - 5 bar
Room temperature (Calibration-relevant)	23 °C +/- 2 °C
Pressure in reservoir	Max. 500 mbar
Electrical connection	230 V
	Table power pack, fixed voltage 12 V, 65 W

FACTS:

- Constant flow
- Standardised sample presentation
- PTFE and stainless steel (EN 13725)
- 100% compliant to ISO 16000-28 and VDI 4302 Part 1
- Easy to use and connect
- Intensity/Hedonic Tone/Liking

SCOPE OF SUPPLY:

- 1 nose funnel
- Remote control
- 5 x 60l gas sampling bags

OPTIONAL:

- Sampling function
- Power pack

OTHER ODOUR TESTING EQUIPMENT

PureSniff XL

Direct evaluation of odour samples

The main benefit of the PureSniff system is that it allows the standardised presentation of undiluted odour samples.

With a PureSniff device, you can measure an odour's intensity, hedonic tone and pleasantness by the direct evaluation of an undiluted sample.

As the operator triggers a volume flow, the odour sample streams out of the sample bag and passes through a funnel (diffuser) to the human nose.

Each olfactory tester or examiner gets an identical odour sample with a standardised volume flow and constant presentation time.

The PureSniff system is a valuable tool for market sectors such as the manufacturing of perfumes and fragrances, building materials, textiles, consumer goods and the automobile and personal care industries.

Additionally, the PureSniff XL can be used for indoor air sampling.





PureSniff XL

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	420 x 425 x 1200 mm
Weight	12.8 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Sample volume	60 l max
Duration of presentation	2.5 sec
Volume flow	0.7 l /sec (pre-set by manufacturer)
Air supply	2 - 5 bar
Power supply	External power supply (12V, 65W max)

FACTS:

- Constant flow
- Standardised sample presentation
- PTFE and stainless steel (EN 13725)
- Ready for comparable tests (sample A against sample B)
- Easy to use and connect
- Intensity/Hedonic Tone/Liking

SCOPE OF SUPPLY:

- 2 nose funnels
- Remote control
- 6 x 10l gas sampling bags

OTHER ODOUR TESTING EQUIPMENT

PureSniff II

Comparable tests of undiluted odour samples

The main benefit of the PureSniff system is that it allows the standardised presentation of undiluted odour samples.

With a PureSniff device, you can measure an odour's intensity, hedonic tone and pleasantness by the direct evaluation of an undiluted sample.

The PureSniff II consists of two sealed tubes, which can be provided with gas sampling bags independently of each other, allowing

for direct evaluation comparison tests (sample A versus sample B).

Each olfactory tester or examiner gets an identical odour sample with a standardised volume flow and constant presentation time.

The PureSniff system is a valuable tool for market sectors such as the manufacturing of perfumes and fragrances, building materials, textiles, consumer goods and the automobile and personal care industries.





PureSniff II

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	274 x 430 x 860 mm
Weight	9 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Sample volume	10 l max
Duration of presentation	2.5 sec
Volume flow	20 l/min
Air supply	2 - 5 bar
Power supply	External power supply (12V, 65W max)

FACTS:

- Constant flow
- Standardised sample presentation
- PTFE and stainless steel (EN 13725)
- Ready for comparable tests (sample A against sample B against sample C)
- Ready for triangular testing
- Easy to use and connect
- Intensity/Hedonic Tone/Liking

SCOPE OF SUPPLY:

- 3 nose funnels
- Remote control

OTHER ODOUR TESTING EQUIPMENT

PureSniff III

Triangular tests of undiluted odour samples

The main benefit of the PureSniff system is that it allows the standardised presentation of undiluted odour samples.

With a PureSniff device, you can measure an odour's intensity, hedonic tone and pleasantness by the direct evaluation of an undiluted sample.

The PureSniff III consists of three sealed tubes, which can be provided with gas sampling bags independently of each other,

allowing for direct evaluation comparison tests (sample A versus sample B versus sample C) and triangular testing. Each olfactory tester or examiner gets an identical odour sample with a standardised volume flow and constant presentation time.

The PureSniff system is a valuable tool for market sectors such as the manufacturing of perfumes and fragrances, building materials, textiles, consumer goods and the automobile and personal care industries.





PureSniff III

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	275 x 660 x 860 mm
Weight	12 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Sample volume	10 l max
Duration of presentation	2.5 sec
Volume flow	20 l/min
Air supply	2 - 5 bar
Power supply	External power supply (12V, 65W max)

FACTS

- 250l VOC emission test chamber according to ISO 16000-9
- Compact, robust, reasonably priced
- „Emission-free“ test chamber
- High accuracy and performance of all normative parameters
- Adjustable ventilation bar and hot-wire anemometer for optimized test specimen location
- 4 sample ports
- Prevention of contamination from the surrounding environment
- Minimal adsorption effects

SCOPE OF SUPPLY

- Electropolished test chamber 250l (stainless steel DIN X 5 CrNi 18 10)
- 4 sample ports (1" flexible connectivity)
- BINDER BF 720 incubator (optional)
- miniClima Constant Humidity Device with 2l compensation glass bottle
- Sensor based air flow control, fan control, hot-wire anemometer
- Data interface for evaluation & continuous parameter control
- Notebook (optional)
- Serial interface IP converter (optional - for parallel controlling of several chambers)

VOC TESTING

Emission test chamber EK250

Highly accurate and affordable 16000-9 VOC testing

The quality of indoor air is strongly influenced by volatile organic compounds (VOCs) released from materials and products used in the building industry, including adhesives, furniture, paints, and many more.

These products and materials are analysed in emission test chambers to determine their emission levels of VOC into the air as described in the ISO 16000-9 standard.

The Olfasense emission test chamber EK250 allows characterization of VOCs under precise

test conditions and is fully compliant with the requirements of the ISO 16000-9 standard.

It has been developed in close cooperation with experts from industry and research, and can be used for a broad analytical performance spectrum via 4 sample ports.

The EK250 VOC test chamber is ready to be used in a temperature controlled room. To run tests under higher temperature conditions we integrate the chamber into a standard BINDER BF 720 incubator for you.





Emission test chamber 250

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	1000 x 600 x 800 mm
Weight	60 kg
Chamber volume	250 l

Air flow	1 to 10 l /min
Air exchange rate	0.24 to 2.4 h ⁻¹
Air change rate control	electronic MFC (long-term stability <1%)
Air velocity range (above test specimen)	0.1 to 0.6 m/s
Operating temperature	+20 to +70°C*
Humidity range	15-80% RH (5-35°C)
Required clean air supply	15 l/min at 0.150 bar
Power supply	230V 50 Hz
Power consumption	max. 120 W

FACTS:

- Filter system for laboratory use
- Portable
- Easy to use
- Low maintenance
- Connection via oil free compressor or compressed gas possible
- Separation of moisture, organic compounds and dust

SCOPE OF SUPPLY:

- 3 m PA tube 8x6x1
- 2 m PTFE tube 8x6x1
- 1 pressurized air gun
- T-unit 8 mm
- Optional: Filter material exchange set

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	510 x 340 x 135 mm
Weight	4 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)
Pressure	max. 6 bar, pressure limit valve
Filling materials	Silica gel, activated carbon, cotton, micro-fine filter
Maintenance interval	Depending on supply air

ODOUR LABORATORY ACCESSORIES

Filter system

Filter system for odour laboratories

This easy-to-use filter system consists of a PCA tube (Makrolon®) with a stainless steel lid and base. This unit is available with four feet for mobile application or with a wall bracket for use in odour laboratories.

The filter system connects an oil-free compressor, or a bottle of compressed gas, and the olfactometer.

It is filled with silica gel, activated carbon, filter cotton and a microfine filter for

the separation of moisture, organic compounds and dust. The aim is to achieve uncontaminated reference-air, or zero-air. The air inlet and outlet are 8mm compressed air quick connectors.

The system has been tested to 6 bar. The pressure limit valve limits the working pressure of the TO-series olfactometer to 4 bar, which stabilises the system and ensures a constant working pressure.



Compressor

Compressor for air supply

To run an olfactometry laboratory, you need an oil-free compressor to provide pressurised air to the olfactometer and other equipment.

Olfasense offers medical air compressors for the olfactometers of the TO-series.

These have several key benefits:

- absolutely oil-free, dry and clean compressed air
- minimal noise level
- protect the 'health' of panellist and of connected equipment.

Type	CairPrime 360-10 DM/Box
Suction capacity	360 L/min
Effect. quantity delivered	225 L/min (at 6 bar)
Max. pressure	10 bar
Voltage	230 V
Frequency	50 Hz
Sound pressure level	57 dB(A)
Reservoir volume	50 L
Dimensions (L x W x H)	700 x 580 x 1100 mm
Weight	movable on wheels
Necessary cooling air in room	1000 m ³ /h
Min. / max. room temperature	+5 / +35 °C



FACTS:

- Micro processor controlled pump, flow controlled by orifice disc
- 5 min, 10 min, 15 min or 30 min continuous sampling
- VDI 3880 and EN 13725 compliant
- Easily portable
- Stops automatically
- High quality rechargeable batteries (last for about 16 x 30-minute samples)

SCOPE OF SUPPLY:

- Calibrated nozzle for 30-minutes sampling
- Battery charger
- PTFE flexible probe tube 2 m
- Countdown timer
- 5 x 10l Gas Sampling Bags

OPTIONAL:

- Stainless steel probe
- Calibrated nozzle for different volumetric flows (i.e. filling times)

SAMPLING EQUIPMENT

CSD30

Continuous odour sampling device

The CSD30 is a sampling device for collecting air (odour) samples in gas sampling bags, with a default odour sampling duration of 30 minutes.

Using the lung principle, the sample flows into the gas sampling bag through the sampling tube only, without passing through pumps or other equipment.

The materials used for 'wetted' parts that are in contact with the sample flow are PTFE and stainless steel, in compliance with EN 13725

and VDI 3880. The sample flow is regulated using a calibrated nozzle that's integrated in the sampling device. Other nozzles, flows and filling times are available on request.

The sampling flow is closed automatically once the gas sampling bag is full. Alternatively, you can select a shorter sampling duration using a countdown timer.

The CSD30 sampling device operates from its integrated rechargeable NiCd battery, so does not require an AC power connection.



Technical Data



CSD30

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	700 x 190 x 260 mm
Weight	4.8 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Sample volume (bag size)	10 l
Filling time	30, 15, 10 or 5 minutes
Suction pressure	50 mbar
Battery NiCd	6V 5Ah

FACTS:

- 2 versions: Classic (10 l) and XL (60 l)
- Quick, short sampling
- Easy to use
- High-quality, rechargeable batteries

SCOPE OF SUPPLY:

- Charger
- PTFE probe tube 2 m
- 5 x 10l or 60l Gas Sampling Bags

	Classic version	XL version
Manufacturer	Olfasense GmbH, Germany	
Dimension (L x W)	730 x 160 mm	1020 x 350 mm
Weight	4.5 kg	15 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)	
Sample volume (bag size)	10 l	60 l
Filling time	30 - 60 s	180 - 360 s
Maximum vacuum output	500 mbar	
Recommended range of application	+/- 150 mbar	
Lead-gel batteries	2 x 6 V	

SAMPLING EQUIPMENT

Standard sampling device

Quick, short odour sampling

Our standard sampling device is available in two different sizes: The classic version is designed for 10-litre gas sampling bags; the XL version even for 60-litre bags.

The standard sampling devices consist of a vacuum container that is evacuated by a vacuum pump. The sampling point and the standard sampler are connected by a probe.

When the sampling device is evacuated, the gas sampling bag inside sucks in sample air via the probe. The sampling device is constructed to make sure that none of its components come into contact with the

sample air during this process.

This device can be used for sample pressures of 150 mbar at the peak of the probe (in the air flow cross-section). It takes 30 to 60 seconds to fill a 10-litre gas sampling bag (180 to 360 sec for a 60-litre bag), depending on the pressure conditions. Users can easily check the filling and probe conditions, as the cylinder is made of transparent PVC.

The standard sampling device is robust, light and easy to use. Battery-operated, the sampling pump can be used without a main power supply.



FACTS:

- For sampling on ventilated surfaces, such as a biofilter
- Can be taken apart for easy transportation
- VDI 3880 and EN 13725 compliant

SCOPE OF SUPPLY:

- Hood made of aluminum (1m² with carry handles)
- Chimney Ø 150 mm with wind collar

OPTIONAL:

- Cover plate with sampling connection for measuring saturation concentrations on passive sources rubber skirting running round the base of the hood

Manufacturer	Olfasense GmbH, Germany
Base surface	1m ²
Dimension (L x WxH)	100 cm x 100 cm x 165 cm
Diameter of the chimney	150 mm
Weight	8 kg
Material	Al Mg 3 19 chromatised
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

SAMPLING EQUIPMENT

Non-ventilated sampling hood

Sampling of flow area sources

This hood allows defined sampling of flow area sources with very low discharge speeds (e.g. biofilters and ventilated compost piles).

The volume of the exhaust air flow is guided through the hood and the chimney, and is consolidated. The sampling hood has a base surface area of 1m² and a chimney with a diameter of 150mm.

It is easy to transport, as the chimney can be detached from the body of the hood by loosening the four knurled nuts. There are also carry handles on the body of the hood.

As the hood's susceptibility to side-winds is a particular problem at the chimney outlet, a wind collar is used here to keep the flow conditions in the hood constant.



FACTS:

- For sampling on solid or liquid surfaces
- CSD30 mountable
- Light and easy to use
- VDI 3880 and EN 13725 compliant

SCOPE OF SUPPLY:

- Floater for liquid surfaces
- High-quality Lithium battery
- Charger power pack for use on 230V connections
- Connection cables
- Remote control

OPTIONAL:

- Sampling device CSD30

SAMPLING EQUIPMENT

Ventilated sampling hood

Sampling non-ventilated, odour-emitting area sources

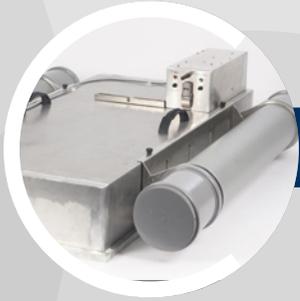
The ventilated sampling hood is part of the 30-minute CSD30 sampling system. It's used primarily for sampling non-ventilated, odour-emitting solid or liquid area sources. When sampling liquids, floats are attached to the sides of the hood.

The hood itself is automatically ventilated by two radial fans with a constant volumetric flow. The inlet fan sucks in outside air via an exchangeable orifice and transports the air from the top into a corner of the hood through an active carbon filter.

From there, the air is distributed across the whole surface of the hood, and absorbs the emitted odourants. It is then extracted to the opposite corner by the second radial fan, via another exchangeable orifice with the same volumetric flow.

The sample for olfactometer tests (usually carried out using the CSD30 sampling system) is taken from the suction nozzles. The same volumetric flow is provided on the inlet side and the suction side.





Ventilated sampling hood

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	Ready for use approx. 1030 / 530 / 250 mm
Weight	Depending on the design approx. 10 to 13 kg
Material	Al Mg 3 19 chromatised
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Adjusting the volumetric flow	Exchangeable orifice on the suction side at the inlet and suction fan
Flow approx. [m ³ /(m ² x h)]	30 / 15 / 7.5
Power supply	Lithium battery 12 V with charger
Sampling time with CSD30	30, 15, 10 or 5 minutes
Power consumption	Approx. 1 A

FACTS:

- Determine the detection threshold
.....
- Optimise your substance:perception ratio (linear or logarithmic scale)
.....
- Find out how your sample is perceived
.....
- Compare samples
.....
- Determine the molecular profile of your sample
.....
- Optimise your formula
.....

SCOPE OF SUPPLY:

- 1 LiGaVa incl. 1 temperature control unit and 1 vaporization unit (heating block)
.....
- 5 x 10l Gas Sampling Bags
.....

OPTIONAL:

- Heating power supply
.....
- Additional heating blocks
.....

SAMPLING EQUIPMENT

LiGaVa

Liquid to gas vaporiser

The LiGaVa system vaporises any kind of liquid into the gas phase. Because time, volume stream, temperature and amount of liquid are all known variables, it is a highly standardised odour sampling system.

It is also simple to operate: just inject a set volume of the liquid sample (e.g. a fragrance, aromatic, alcohol or fuel) into the LiGaVa, which will vaporise it. You can achieve the correct vapour pressure for your particular liquid sample by individually setting the

evaporation temperature (up to 220°C). As the gas is formed, it streams into a connected sample bag at a constant volume flow rate.

Once the liquid is in gaseous form, it is ready for various analyses:

- odour concentration
- odour intensity and pleasantness
- molecular profile.



Technical Data



LiGaVa

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H) a) Control unit b) Heating block	a) 350mm x 150mm x 260mm (without grip) b) 120mm x 120mm x 80mm
Weight a) Control unit b) Heating block	a) 4kg b) 2kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Adjustable temperature range	5°C above room temperature to 220°C
Air supply	3-5 bar clean compressed air
Volume flow outlet	75 l/h
Power supply	230V DC

FACTS:

- Manual sample pre-dilution system for laboratory use
- PTFE and stainless steel (EN 13725)
- Dilutions pre-set to 1:10 and 1:100
- Easy to use and connect
- Portable
- Low noise level
- Low air and sample consumption
- Fast sample pre-dilution

SCOPE OF SUPPLY:

- 2 x 3m compressed air connecting PTFE pipeline
- 1 T-unit 8 mm
- 5 x 10l Gas Sampling Bags
- Heating system

OPTIONAL:

- Underpressure sampling device (20,000 Pa)

SAMPLING EQUIPMENT

EPD predilution device

Predilution system for highly concentrated odour samples

The EPD is an easy to use pre-dilution system for highly concentrated odour samples. It has been developed to increase the measuring range at high odour concentrations for olfactometers.

And, because it ensures that the odour concentration of the air is not too high, it also prevents self-contamination of the olfactometer.

The EPD is designed for use in olfactometry laboratories and gives the operator the opportunity to process odour samples with a concentration of up to 6×10^6 OU_E/m³ with just one additional mixing process.

Because the dilution precedes the olfactometric measurement, virtually all known odour emissions from environmental protection and industrial markets can be olfactometrically measured using this device.





EPD predilution device

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	145 x 105 x 250 mm
Weight	2 kg
Maintenance interval	12 months (according to EN 13725)
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Dilution principle	Gas jet pumps
Dilution ranges	Standard: 1:10/1:100, 1:2 to 1:200 also possible
Standard deviation of the dilutions	< 5%
Response time	< 1s
Setup time	< 1s

FACTS:

- Sample pre-dilution at source
- Avoids losses due to condensation
- Includes a Prandtl tube for air speed monitoring
- VDI 3880 compliant

SCOPE OF SUPPLY:

- Stainless steel pre-dilution probe, with sapphire screen for approx. 1:10
- Two-level bottle pressure reducer
- Connection tubes
- Calibration datasheet

OPTIONAL:

- Additional sapphire screens for different dilution ratios of approx. 1:5 or 1:20

ADDITIONAL REQUIREMENTS:

- N₂, compressed air cylinder
- Sampling device

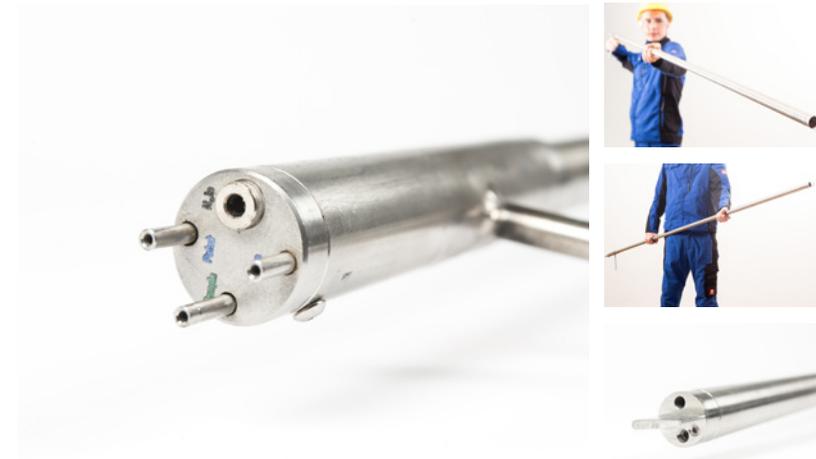
SAMPLING EQUIPMENT

GSP predilution device

On-site sample predilution device

The GSP can supplement the CSD30 sampling device, and dilutes the sample directly at the sampling point. Sample pre-dilution can be performed with nitrogen or synthetic air, whereby the pre-dilution ratio is fixed by the manufacturer (standard 1:10 with individual calibration data). The pre-dilution ratio can, however, be set to different exhaust air conditions on request by substituting the 1:10 screen with a sapphire screen accessible from the outside (e.g. dilution 1:5 or 1:20). The sample pre-dilution system provides the sample air flow with a constant supply of

nitrogen (N₂) or synthetic air directly onto the tip of the sampling probe. The moist, warm sample is diluted immediately at the point of extraction with dry N₂ or synthetic air. This means that when it cools down to the transportation and laboratory temperature, no condensation forms on the probe, in the tube or in the sample bag. As a result, no additional heating is necessary. The GSP also has a built-in particle filter to protect against contamination, and a micro Prandtl tube, which can be used to monitor the sampling process.





GSP predilution device

Technical Data

Manufacturer	Olfasense GmbH, Germany
Dimension (L x W x H)	1800/150/30 mm, can be expanded by 800 mm using an extension probe
Weight	1.5 kg
Warranty	24 months (warranty extension up to 5 years through servicecontracts possible)

Control mechanism of the volume flow	Gas jet pumps
Sample air	Calibrated sapphire screen
Nitrogen or synthetic air	Two-level bottle pressure reducer
Nitrogen or synthetic air consumption	approx. 100l/h
Sampling time with CSD30	30 or 10 minutes
Pressure at the sampling point	-200 hPa bis +40 hPa
Max. Temperature at the sampling point	240° C

FACTS:

- Made from Nalophan® (PET) and PTFE
- Ready-to-use sample bags for dynamic olfactometry
- Certified within the ISO 17025 scope
- Taste-free
- Working temperature range - 60°C to + 220°C
- Minimal background emission (less than PVF)
- Custom sizes available on request

SCOPE OF SUPPLY:

- 10, 20, 50 or 100 Gas Sampling Bags
- 5, 10 or 20 PTFE seals

OPTIONAL:

- Sampling device standard
- Sampling device CSD30
- PureSniff II, III, XL

SAMPLING EQUIPMENT

Gas sampling bags

Certified ready-to-use sample bags

Our ready-to-use sample bags have been designed to meet the quality requirements of EN 13725, to minimise the risk of contamination of odour samples.

Olfasense's sample bags are made of Nalophan® and PTFE tubing to minimise surface reactions with sulphurs.

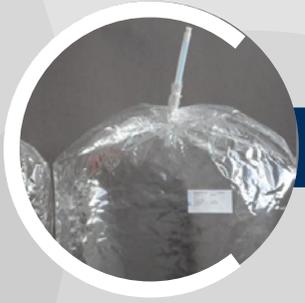
Within the ISO 17025 accreditation scope, the Nalophan® is tested according to No. 6.3.2 of

the European Norm EN 13725 as well as according to No. 4.3.1 of the German guideline VDI 3880 and is released as norm-compliant material for the sampling of odours. Analysis results are traceable to the olfactometric measurement method EN 13725.

Customised sizes are available on request.

If you are interested in Tedlar or Kynar gas sampling bags, please get in touch with us.





Gas sampling bags

Technical Data

Type	10 l	1, 3, 5 l	40, 60 l
Amount	10, 20, 50, 100	10, 20, 50, 100	10, 20, 50, 100
Connectors	PTFE Outside Ø 8mm Inner Ø 6mm	PTFE Outside Ø 8mm Inner Ø 6mm	PTFE Outside Ø 8mm Inner Ø 6mm
Sealings	PTFE	PTFE	PTFE
Sampling device	CSD30, Standard Sampling Device (model from 2014 onwards)	GC/MS and GC/IMS	PureSniff XL – sampling function

Olfasense Sniffing Sticks

FACTS:

- Sniffing sticks for regular internal training sessions
- The stability of the sticks is 6 months. A very regular use of the sticks might reduce the time of usability.

AVAILABLE SETS

- Set 1 - Sniffing Sticks for panel selection in accordance with ISO 12219-7; annex G
- Set 2 - Sniffing Sticks for panel training on odour characters in accordance with ISO 12219-7; annex D
- Set 3 - Sniffing Sticks for panel training on odour intensity according to the Olfasense in-house standard
- Customised sniffing sticks set

Panel selection and training according to common standards

The accurate selection, training and monitoring of panelists to meet the stringent requirements of odour analyses is of great importance to Olfasense.

Besides specialist odour training packages, Olfasense offers different sniffing stick sets to companies that want to set up a new odour panel and/or want to improve their odour panel performance

according to common standards, such as ISO 12219-7.

We also offer you the opportunity to have your own customised sniffing sticks sets, specially adapted to your needs.

For more information, please contact us to discuss your requirements.





Olfasense Sniffing Sticks

Available sets

Set 1 - Sniffing Sticks for panel selection in accordance with ISO 12219-7; annex G

For odour panels, it is important to have panelists with a normal olfactory function. This set of sniffing sticks is made for panel selection using 5 standard odorants in accordance with ISO 12219-7:2017, annex G.

The set contains the following 5 standard odorants and one odour-free reference stick:

- Skatole
- 3-Methylbutyric acid (Isovaleric acid)
- 2-Phenylethanol
- Methyl cyclopentenolone
- γ -Undecalactone

Set 2 - Sniffing Sticks for panel training on odour characters in accordance with ISO 12219-7; annex D

This set of sniffing sticks is used to train a panel for odour characters.

The olfactory perception is characterized by poles which are represented by one or several odorous chemical molecules. These poles and corresponding molecules typical of automotive products are described in the ISO 12219-7.

This set contains 22 sniffing sticks:

- | | |
|---------------------|--------------------------------|
| • Trimethylamine | • Ethyl maltol |
| • Dimethylsulfide | • Cedryl acetate |
| • Butanoic acid | • Geosmin |
| • Decadienal | • Isobutylquinolein (IBQ) |
| • Undecanal | • Skatole |
| • Acetic acid | • Methylcyclopentenolone (MCP) |
| • Ethyl acetate | • Acetyl pyrazine |
| • Styrene | • Benzothiazole |
| • Ethyl isobutyrate | • Guajacol |
| • Benzaldehyde | • Phenol |
| • Delta-decalactone | • 2,4,6-Trichlorophenol |

Set 3 - Sniffing Sticks for panel training on odour intensity according to the Olfasense in-house standard

To have a homogenous and representative panel, Olfasense has developed an odour intensity test using sniffing sticks.

For odour intensity evaluation the idea is that panelists are trained to detect different concentrations and the corresponding intensity levels.

The ability of each panelist to judge the correct intensity levels for unknown concentrations will be checked in a performance test.

This set contains 6 sniffing sticks with different intensity levels.

Customized sniffing sticks sets

Choose the set of sniffing sticks that suits your requirements best!

[Download an overview of sniffing sticks that have already been used in individual applications.](#)

If your compound/substance is not listed, or you need a targeted scaling/calibration, please get in touch and we'll be happy to discuss your requirements.

READY-TO-USE MODULES:

- Timeline
- Notifications
- Statistics
- Points of interest
- Dispersion modelling
- Process management
- Sensor integration
- Citizen involvement
- Mobile sensing

SUPPORTED SECTORS:

- Composting
- Public services
- Smart Cities & City Management
- Industry parks
- Biogas
- Waste & Waste water
- Airports & Ports
- Oil & Gas

SOFTWARE PRODUCTS

Ortelium

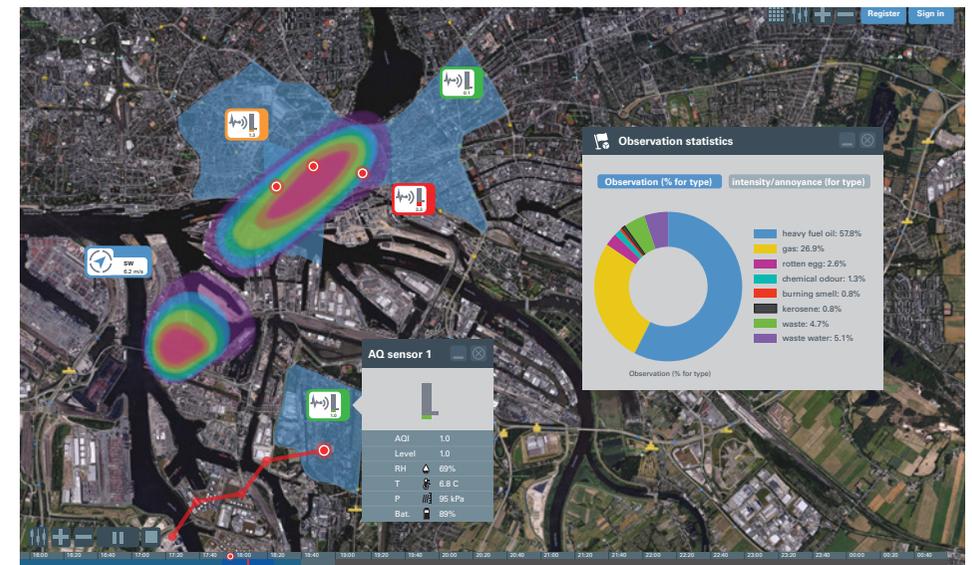
Create your dynamic atlas

Ortelium is a dynamic cloud-based atlas that provides data intelligence on the impact of events in past, current and future situations. It collects, maps and analyzes data from IoT and human sources.

With Ortelium you identify trends and patterns early to facilitate decision making and take necessary actions in time.

Based on your specific goals you can select from a set of ready-to-use modules, or develop your own dynamic atlas with us.

In the world of odours, Ortelium is already used to facilitate and enrich odour measurement procedures, as well as for odour control and odour complaint management.



Ortelium - it doesn't stop here



Ortelium - case studies

Vopak Terminal Europoort is one of the biggest petroleum storage and trans-shipment facilities in the heavily populated Port of Rotterdam area. Oil gets loaded from the tankers to the storage tanks or vice versa, which results in the emission of high concentrations of odour that disperse into the surrounding residential areas.

Better grip on this dispersion is needed to avoid complaints, as these may result in temporary working restrictions, fines or in the worst case permit withdrawal.

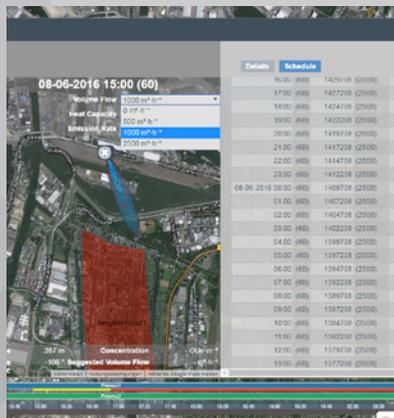
By inserting process parameters of the operations into Ortelium, the system provides data intelligence on how the odour disperses into the environment. In case concentrations in residential areas are too high, Ortelium provides recommendations on how to adapt pumping speeds to reduce or even prevent the alert situation. Not only for the current point of time but also for the hours to come.

As a result, pumping processes keep running efficiently while complaints are avoided.

The council of Kelsterbach and the operator of the potential source – the local municipal wastewater treatment plant (Stadtentwässerung Frankfurt am Main) – received around 130 complaints in six weeks.

The Ortelium application has helped to identify the odour source by integrating the citizens directly into the odour management process.

Odours can now be communicated directly online and via Smartphone. All complaints are verified and answered by Olfasense experts.



OTHER IMAGINABLE ATLASES:

- Renewable energy monitoring
- Hospital hygiene monitoring
- Allergy mapping
- Air quality monitoring
- Mapping of parking spaces and eCar charging stations
- and many more

Discover Ortelium's existing client solutions and modules on www.ortelium.com and get in contact with us right now to schedule your customized web demo.

FACTS:

- Online planning of inspection points, routes and grids
- Management of odours and odour sources
- Creation of pre-defined and customised inspection schedules
- Assessor management and time-scheduling featuring appointment confirmation and reminder e-mails
- Digital data collection via user-friendly smartphone app
- GPS logging for exact assessor positioning
- Exact time recording
- Instant availability of results
- Automated calculation
- Detailed data views
- Customer access to validated results for easy reporting
- Excel export function

OPTIONAL DATA FEED INTO ORTELIUM:

OFIM data can be automatically fed into the environmental data intelligence application Ortelium, which allows to combine your results with other relevant data channels, such as odour complaints from citizens, meteo station readings, sensors, location of potential odour sources, etc. - so that a more complete picture of the odour situation can be established.

SOFTWARE PRODUCTS

OFIM according to EN 16841-1

Online tool for field inspections according to EN 16841-1

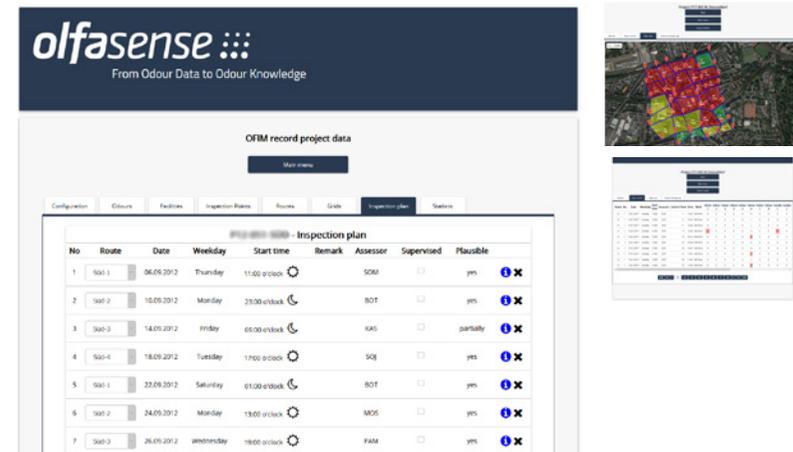
The Online Field Inspection Manager (OFIM) was developed especially for the needs of odour laboratories performing field inspection projects.

management of inspection projects and a user-friendly smartphone application for digital data collection, it ensures up-to-date and instantly available inspection results – without the need for a paper-based protocol.

So you'll be pleased to know that it's fully compliant with the EN 16841-1 guideline and serves as a central platform for your field inspection projects.

And, better still, GPS location checks and exact time recording inspections make sure that your assessors are at the right location at the right time.

Combining an online web application for



FACTS:

- Extremely sensitive
- Fast acquisition of analytical results
- Economical pricing

AVAILABLE PRODUCTS

- FlavourSpec® - GC-IMS for the Detection of Volatile Organic Compounds in Food and Beverages
- BreathSpec® - Sensitive Analyser for Metabolic Marker Substances in human Breath
- Analytical - Ion Mobility Spectrometer - sensitive detection of gaseous VOCs
- Gas Chromatograph Ion Mobility Spectrometer - VOC Trace Detection in complex matrices

[Go to Product Index](#)

IMS INSTRUMENTS FOR GAS ANALYSES

G.A.S instruments

Extremely sensitive and fast molecular analysis

Olfasense is Certified Sales Partner of the GC-IMS specialist G.A.S.:

G.A.S.'s instruments are known for their extremely sensitive (lower ppbv-range), fast acquisition of analytical results (few seconds) and an economical pricing.

G.A.S.'s product developments address various application fields, including Food

& Flavour, Industry & Process-Control as well as Medical Research.

On the next page you will find an overview of the G.A.S. product portfolio.

For more information contact us directly.



GAS





G.A.S instruments

Application Data



FlavourSpec®

GC-IMS for the detection of volatile organic compounds in food and beverages

- Control of storage conditions
- Food freshness
- Control of production process
- Process optimisation
- Flavour evaluation and flavour stability
- Test of raw materials
- Product authentication



BreathSpec®

Sensitive analyser for metabolic marker substances in human breath

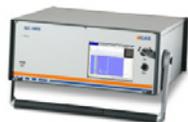
- Monitoring of work related exposures to hazardous substances
- Detection and/or monitoring of diseases
- Control of drug decomposition (pharmaceuticals)



Analytical - Ion Mobility Spectrometer

Sensitive detection of gaseous VOCs

- Quality control
- Residual solvents
- Authentication
- Alternative GC detector



Gas Chromatograph Ion Mobility Spectrometer - VOC trace detection in complex matrices

> **GC-IMS-ODOR**
odorant detection in natural gas

> **GC-IMS-Silox**
siloxane detection in alternative energy recovery plants (biogas, sewage)

- Quality control
- Process control
- Residual solvents
- Product or ingredients authentication
- Research & development



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