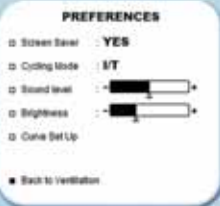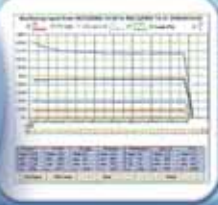## User-friendliness and ease of use

The **SUPPORTAIR®** combines the user-friendliness and ease of use of the AIROX HomeCare ventilators with the technical requirements that are made compulsory with taking care of patients in instable respiratory phase at hospital.

The **preference** and the **curve setup menus** that group together on a unique and same display all the adjustable components allow the user to set up its ventilator following its habits.

Communication software

The **AIROX COMMUNICATION** software is compatible with the **SUPPORTAIR®** but also with the others AIROX HomeCare ventilators.

Various thumbs are available allowing retrieval, edition and print:

- Of **patient compliance**
- Of **events memory** summarizing data stocked in the machine such as ventilation alarms, technical alarms or also events linked to the device use or settings.
- Of **monitoring** providing curves, loops, monitored values and alarms either in real-time or for 24 hours.
  - Of **maintenance** menu allowing the ventilator software update.

The **SUPPORTAIR®** is a hospital ventilator that benefits from AIROX HomeCare ventilation know-how regarding the ventilation comfort, ergonomics, reduced maintenance but overall in terms of user-friendliness and reliability

Maintenance

The **SUPPORTAIR®** benefits from the AIROX know-how in HomeCare ventilation, area that imposes development of ventilators with very high reliability, requiring minimum preventive maintenance and very short intervention times.

It is characterized by:

- Quick access to the different technical components
- Very few components
- Micro-turbine with no maintenance required for a period of 15.000 hours

- RS 232 port allowing event retrieval, monitoring as well as new software's download.
- Maintenance menu allowing the following:

1 Information restitution such as software version, machine hours meter, anomalies history,...

2 Measurements and direct controls (voltage, temperature,...) allowing making quick diagnostics,

3 Sensors calibration (flow, pressure, FiO₂).

Technical features

Dimensions (H,L,P)	H = 154 mm, W = 235 mm, D = 315 mm
Weight	4,9 kg
Power supply	115 / 230 V ± 10% − 50 / 60 Hz
Electric consumption	90 VA max
Battery (type, autonomy) hours depending on settings.	25,2 V − 4,4 Ah Lithium-Ion type with quick charge, autonomy up to 11
O_2 connexion	High pressure O_2 inlet: 280-600 kPa, (2,8 − 6 bars)
Class	II

Device and accessoires references

Reference	List of items
4096200 (Global) 4096200 (UK)	**SUPPORTAIR®** Supplied with 230 V power supply cable, O_2 supply tubing, FiO₂ measurement kit, user manual, single use patient circuit with valve, SpO₂ sensor with its extension.
Accessories	
2739200	O_2 supply tubing (3m length)
5092300	Reusable sensor for pulse oxymeter (SpO₂),
3816000	Extension cable for SpO₂ sensor
4096000	Remote alarm
3816500	Remote alarm cable
4096400	Trolley
4096500	Patient circuits holder
4095600	AIROX COMMUNICATION software pack
3809999	Reusable exhalation block
3823099	Single patient use exhalation stock
3814100	FiO₂ measurement kit (T adaptor, FiO₂ cell, connexion cable, deflector)
Disposable	
5092100	Single use, single branch patient circuit with exhalation valve
5092200	Single use, double branch patient circuit with exhalation valve
2963300	Air inlet combi filter, bag of 6 (foam + thin particle)
2964200	FiO₂ Cell

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AIROX

SpO₂ FiO₂

SUPPORTAIR®
Titration platform for HomeCare ventilation

Titration platform

The **SUPPORTAIR®** is a **titration platform** intended for hospitalized patients suffering from Chronic Respiratory Failures (CRF). Its polyvalence and numerous functions allow it to take care of those chronic patients as soon as they are admitted at hospital for acute exacerbation, all along their health state evolution, and until they are stabilized and ready to go back home.

Thus, the **SUPPORTAIR®** finds its place in all units like intensive care (ICU), respiratory assistance units, continuous care and observation units, pneumology department,...

Settings portability

Settings and parameters defined and validated step by step with the **SUPPORTAIR®** (**ventilation titration**) are directly "portable" onto the whole AIROX HomeCare ventilators range thanks to a pneumatic system and ergonomics voluntary common to all.

This **settings portability** feature, unique and specific to the **SUPPORTAIR®**, considerably makes easier the prescription phase.

O₂ integrated blender

The **SUPPORTAIR®** is equipped with a high pressure oxygen inlet (wall oxygen) and an **integrated blender** that allows adjusting FiO₂ from 21 to 100%. A specific key allows ram O₂ induction at 100% for 2 minutes (suction,...).
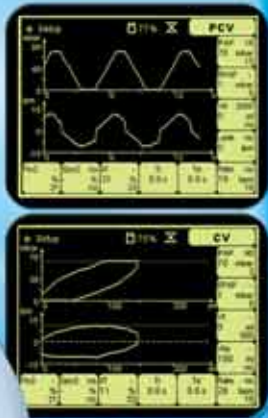
Moreover, FiO₂ monitoring and associated alarms configurations are available directly on the ventilator screen.

AIROX

Monitoring display

In order to optimize the **ventilation titration**, more particularly during the ventilation instability periods, a specific monitoring display includes all the monitored parameters, displayed either via curves, loops or numeric values. This display allows getting in a glance a complete view of the on going ventilation.

Adjustable ventilation parameters

The **SUPPORTAIR®** offers a parameters setting menu specific to each mode whether it is active or not, composed of list of adjustable parameters, a pressure bar graph and a monitoring window in order to set up the ventilator in the best conditions.

The adaptation ventilator/patient, the **ventilation titration** and at last the **prescription** step have never ever been made easier

H   🏠

A complete ventilation functions gear is loaded on the **SUPPORTAIR®** in order to make easier the patients management particularly during **ventilation instability periods** as well as during the **titration phase**

Polyvalency, exhaustive ventilatory functions and monitoring

The **SUPPORTAIR®** is a **mixed ventilator with large polyvalency.**

It offers the following functionalities:

- Non invasive and invasive ventilation
- Leakage and valve ventilation
- Volumetric (CV/ACV/SIMV) and pressure support (CPAP/PSV-S/PSV-ST/PCV/PACV) ventilation
- Adults and children (>5kg) ventilation
- Ventilation with single or double branch circuits
- Oxygen blender allowing FiO₂ adjustment from 21 to 100%
- Complete monitoring (pressure/flow curves, loops, SpO₂,...)
- Exhaustive ventilatory functions (Vt TARGET, Ti min/max, 100% O₂,...)
- Internal battery providing up to 11 hours autonomy

SpO₂ integrated monitoring

During **ventilation titration**, it is necessary to watch out oxygenation in a non invasive way. The FiO₂ setting and monitoring association together with the ventilator SpO₂ integrated surveillance allows optimization of the patients oxygenation management. The SpO₂ available in the **SUPPORTAIR®** makes possible instantaneous or recorded analysis and review of trends correlated with the others ventilation parameters.

Vt TARGET

The Vt TARGET function enables maintaining target volume (Vt) chosen by the clinician, thanks to pressure automatic adjustment into a predetermined margin even in case of nocturnal compliance variation (change of position or of sleep phase,...), or of resistance variation (secretions, aperture of the upper airways,...).

A better Vt and minute volume stability all along the night generating a better comfort, a better alveolar ventilation optimization and a potential reduction of the nocturnal hypoventilations are part of advantages provided by that function.

Summary of adjustable ventilation parameters

Ventilation modes	CPAP	PSV-S / PSV-ST	PCV / PACV	CV/ACV	SIMV
Tidal volume (Vt)	X	X	X	50 - 2000 ml	50 – 2000 ml
Vt TARGET	X	50 - 2000 ml	50 -2000 ml	X	X
Maxi P	X	8 - 60 mbar	8 - 60 mbar	X	X
Sigh	X	X	X	yes/no	X
Sigh Vt	X	X	X	(1.0 - 2.0) x Vt	X
Sigh rate	X	X	X	50–250 cycles	X
Inspiratory pressure (IPAP)	X	5 - 60 mbar	5 - 60 mbar	X	5 - 40 mbar
Expiratory pressure (EPAP)	X	0 - 20 mbar	0 - 20 mbar	X	0 - 20 mbar
CPAP	4 - 20 mbar	X	X	X	X
Rise Ti	X	1 - 4	1 - 4	X	X
Rate	X	4 - 40 bpm	5 - 60 bpm	5 – 60 bpm	5 - 40 bpm
I/E ratio	X	X	1.0 - 3.0	1.0 - 3.0	1.0 - 3.0
I/T ratio	X	X	25 - 50 %	25 - 50 %	25 - 50 %
Ti min	X	0.1 - 2,8 s	X	X	X
Ti max	X	0.8 - 3 s	X	X	X
Trigger I	X	1(Pedia) – 5	1(Pedia) – 5	1(Pedia) - 5	1(Pedia) - 5
Trigger E	X	(-5) - (-95) %	X	X	X
FiO₂	21 - 100 %	21 - 100 %	21 - 100 %	21 - 100 %	21 - 100 %
Apnea	X	3 - 30 s	X	X	3 - 30 s
Ramp	X	X	X	R/D	X
SIMV rate	X	X	X	X	2 - 20 bpm

Adjustable alarms and monitoring

Each mode presents a specific monitoring and alarm menu providing:

- Display of patient values monitored during the cycle
- Setting of high and low alarm parameters
- Additional window of monitoring and alarm message(s) display
- Alarms memory