



COVIDIEN

positive results for life

**Airox™ Supportair™
Ventilator**

A versatile hospital ventilator with a titration platform that enables a smooth transition to the patient's home care ventilator

TITRATION PLATFORM

The Supportair™ ventilator is designed for hospitalized patients suffering from chronic respiratory failure (CRF). Its versatility and numerous functions allow it to be used with patients from the time they are admitted at hospital for acute exacerbation until they are stabilized and ready to go back home.

The Supportair ventilator is an ideal choice for intensive care units (ICU), respiratory assistance units, continuous care and observation units, the pneumology department and other clinical areas.

SETTINGS PORTABILITY

Settings and parameters are defined and validated step by step with the Supportair ventilator. These settings can then be easily transferred onto any Airox™ home care ventilator, making the prescription phase easy and accurate.

VERSATILE FEATURES

The Supportair ventilator offers numerous features and functions, including:

- Noninvasive and invasive ventilation
- Leakage and valve ventilation
- Volumetric (CV / ACV / SIMV) and pressure support (CPAP / PSV-S / PSV-ST / PCV / PACV) ventilation
- For adult and pediatric patients weighing ≥ 5 kg
- Ventilation with single or double branch circuits
- Oxygen blender allows FiO_2 adjustment from 21% to 100%
- Complete monitoring: pressure, flow, curves, loops, SpO_2
- Comprehensive ventilatory functions: V_T Target, T_i min/max, 100% O_2 , etc.
- Internal battery provides up to 10 hours of operation

DATA PORTABILITY

Settings and parameters defined by the Supportair ventilator can be easily transferred onto any Airox home care ventilator.

HOSPITAL



SUPPORTAIR VENTILATOR

HOME



The Supportair ventilator offers a complete solution for patient management, particularly during periods of ventilation instability and during titration.

V_T TARGET FEATURE

The V_T Target feature allows you to set a volume target within pressure control mode, thanks to automatic pressure adjustment. As patients sleep and move about, V_T Target works to maintain the established tidal volume setting (when in pressure mode) to improve alveolar ventilation optimization, potentially reducing nocturnal hypoventilation.

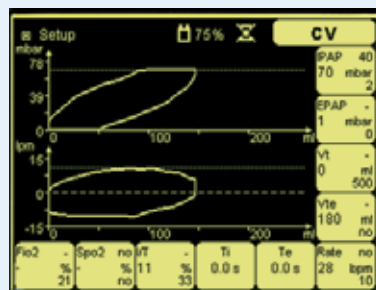
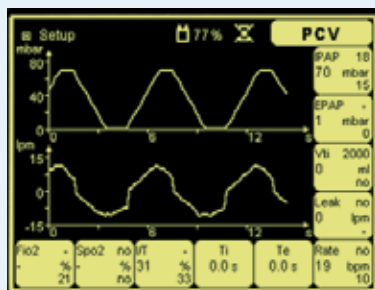
O₂ INTEGRATED BLENDER

The Supportair ventilator is equipped with a high pressure oxygen inlet (wall oxygen) and an integrated blender that allows FiO₂ to be adjusted from 21% to 100%. A specific button allows O₂ induction at 100% for two minutes (for suction, etc.). Moreover, FiO₂ monitoring and associated alarm configurations can be seen directly on the ventilator display.



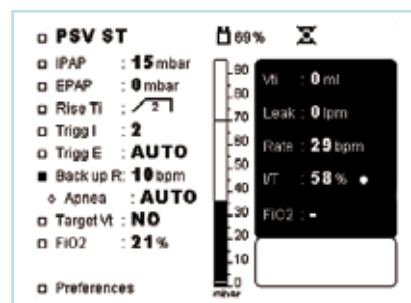
MONITORING DISPLAY

To optimize titration, especially during periods of ventilation instability, a specific monitoring display includes all the monitored parameters—in curves, loops or numeric values—thus providing a complete view of ongoing ventilation at a glance.



ADJUSTABLE VENTILATION PARAMETERS

To make ventilator setup more convenient, the Supportair ventilator has a parameter settings menu specific to each mode, whether it is active or not. The menu includes a list of adjustable parameters, a pressure bar graph and a monitoring window.



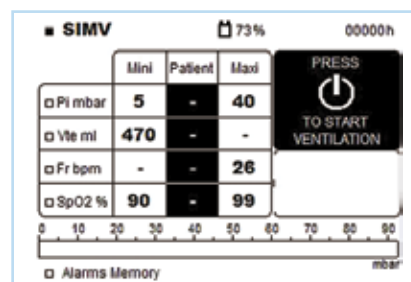
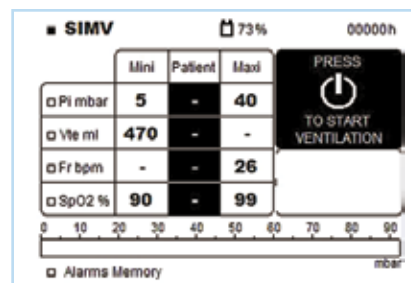
SUMMARY OF ADJUSTABLE VENTILATION PARAMETERS CHART

VENTILATION MODES	CPAP	PSV-S / PSV-ST	PCV / PACV	CV/ACV	SIMV
Tidal volume (V_T)	•	•	•	50 - 2000 mL	50 - 2000 mL
V_T TARGET	•	50 - 2000 mL	50 - 2000 mL	•	•
Maxi P	•	8 - 60 mbar	8 - 60 mbar	•	•
Sigh	•	•	•	yes/no	•
Sigh V_T	•	•	•	$(1.0 - 2.0) \times V_T$	•
Sigh rate	•	•	•	50-250 cycles	•
Inspiratory pressure (IPAP)	•	5 - 60 mbar	5 - 60 mbar	•	5 - 40 mbar
Expiratory pressure (EPAP)	•	0 - 20 mbar	0 - 20 mbar	0 - 20 mbar	0 - 20 mbar
CPAP	4 - 20 mbar	•	•	•	•
Rise Ti	•	1 - 4	1 - 4	•	•
Rate	•	4 - 40 bpm	5 - 60 bpm	5 - 60 bpm	5 - 40 bpm
I/E ratio	•	•	1.0 - 3.0	1.0 - 3.0	1.0 - 3.0
I/T ratio	•	•	25 - 50 %	25 - 50 %	25 - 50 %
Ti min	•	0.1 - 2.8 s	•	•	•
Ti max	•	0.8 - 3 s	•	•	•
Trigger I	•	1 - 5	1 - 5	1 - 5	1 - 5
Trigger E	•	(-5) - (-95) %	•	•	•
FiO ₂	21 - 100 %	21 - 100 %	21 - 100 %	21 - 100 %	21 - 100 %
Apnea	•	3 - 30 s	•	•	3 - 30 s
Ramp	•	•	•	R/D	•
SIMV rate	•	•	•	•	2 - 20 bpm

ADJUSTABLE ALARMS AND MONITORING CHART

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



The Supportair ventilator combines comfort, ergonomic design and low maintenance all in one reliable, user-friendly device.

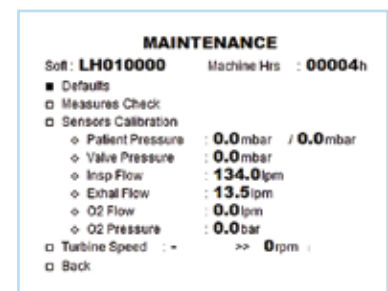
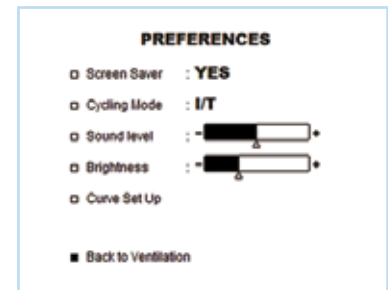
EASE OF USE

The Supportair ventilator combines the user-friendly operation of our home care ventilators with the sophistication needed to meet the requirements of critically ill hospital patients with ventilatory instability. Curve setup menus provide more options to view and change various curves and waveforms.

SIMPLE MAINTENANCE

The Supportair ventilator is highly reliable and requires minimal preventive maintenance.

- Very few parts; quick and easy access to all technical components
- Micro-turbine with no maintenance required for 15,000 hours
- RS 232 port allows event retrieval, monitoring and new software downloads
- Maintenance menu provides:
 - Information such as software version, machine hours meter and anomalies history
 - Measurements and direct controls such as voltage and temperature, for quick diagnostics
 - Sensor calibration (flow, pressure, FiO₂)



TECHNICAL FEATURES

Dimensions	H = 154 mm, W = 235 mm, D = 315 mm
Weight	4.9 kg
Power supply	115 / 230 V $\pm$ 10% – 50 / 60 Hz
Electric consumption	90 VA max
Battery (type, life)	25.2 V – 4.4 Ah Lithium-Ion type with quick charge, up to 11 hours operation depending on settings.
O ₂ connection	High pressure O ₂ inlet: 280-600 kPa, (2.8 – 6 bars)
Class	II

ACCESSORIES AND PRODUCT REFERENCES CHARTS

REFERENCES	DESCRIPTION
4096200	Supportair ventilator (Supplied with 230 V power supply cable, FiO ₂ measurement kit, user manual, single use patient circuit with valve.)
4096201 (UK)	Supportair ventilator (Supplied with 230 V power supply cable, FiO ₂ measurement kit, user manual, single use patient circuit with valve.)
ACCESSORIES	
2739200	O ₂ supply hose (3m length) Air Liq Fitting
2969900	O ₂ supply hose (3m length) BS5632 Fitting
2968000	O ₂ supply hose (3m length) DIN 13260 fitting
4096000	External remote alarm (5m)
2961900	Cable 9MF (RS232)
4096400	Trolley
4096500	Patient circuits holder
3823099	Single patient use exhalation block
3814100	FiO ₂ measurement kit (T adaptor, FiO ₂ cell, connexion cable, deflector)
CIRCUITS	
5092800	Adult single limb circuit with exhalation valve 180 cm – single use
5093300	Adult single limb circuit without valve 180 cm – single use
5093000	Adult double limb circuit with valve 180 cm – single use
5093400	Adult single limb circuit without valve 180 cm – reusable
5092700	Pediatric single limb circuit with valve 180 cm – single use
5093100	Pediatric single limb circuit without valve 180 cm - single use
5092900	Pediatric double limb circuit with valve 180 cm – single use
5093200	Pediatric single limb circuit without valve 180 cm – reusable
DISPOSABLE	
2963300	Air inlet combi filter (pack of 6)
2964200	FiO ₂ Cell

This product is available in many countries around the world; however it has not received FDA clearance for marketing the device and is not for sales in the US.



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COVIDIEN (UK)
COMMERCIAL
LIMITED

154 FAREHAM ROAD
GOSPORT HAMPSHIRE
PO13 0AS
UNITED KINGDOM (UK)

+44 (0) 1329 224226 [T]
+44 (0) 1329 224334 [F]

WWW.COVIDIEN.COM