

COVIDAIR

Bi-level PAP device intended to provide non-invasive ventilation for patient with COVID_19

Specification



WARNING

- The COVIDAIR device must always be used under the supervision of a doctor or a member of the medical profession trained in ventilation.

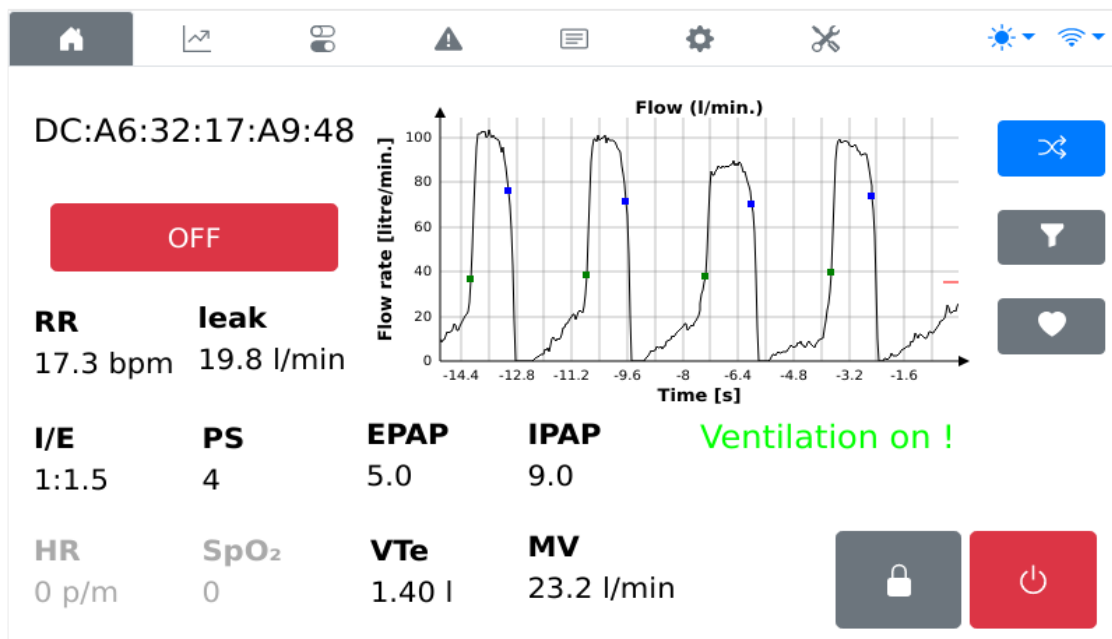
1. Components



Description

1. Handle.
2. Patient Inspiratory port.
3. On/off button.
4. Color touchscreens.
5. Humidification system (Option)
6. Humidification output port.
7. Humidification input port.
8. SpO2 sensor connector.
9. USB connectors (maintenance service only).
10. Ground connector.
11. Power connector.
12. Low flow oxygen inlet and inlet filter.

User main color touchscreen



2. Main specifications

Settings.

- Two pressure (Paw) levels (EPAP/IPAP) adjustable between 2 and 50 cmH₂O
- Control of rise and fall times between 0.1 and 1sec.
- Maximum inspiratory time (max. 3 sec.)
- Breathing cycle (adjustable between 10% and 90% of peak flow)
- Inspiratory trigger compressing for leaks (adjustable sensitivity from 1 to 6)
- Breathing frequency (between 3 and 30 cycles /min)
- Minimum respiratory frequency (from 3 to 30 cycles/minute)

Patient data (available on color touchscreen).

- Breathing frequency (RR)
- Pulse and O₂sat.
- Total expired volume (VTe)
- Leak
- Pressure support (PS)
- Ratio Inspiration/Expiration (I/E)
- Graphic curves for pressure and flow

(Selection of a secondary color touchscreen for historic of events)

Humidifier (optional)

- Humidifier with heated cannister. 5 heat levels. Raise of humidity from 20 to 25%.

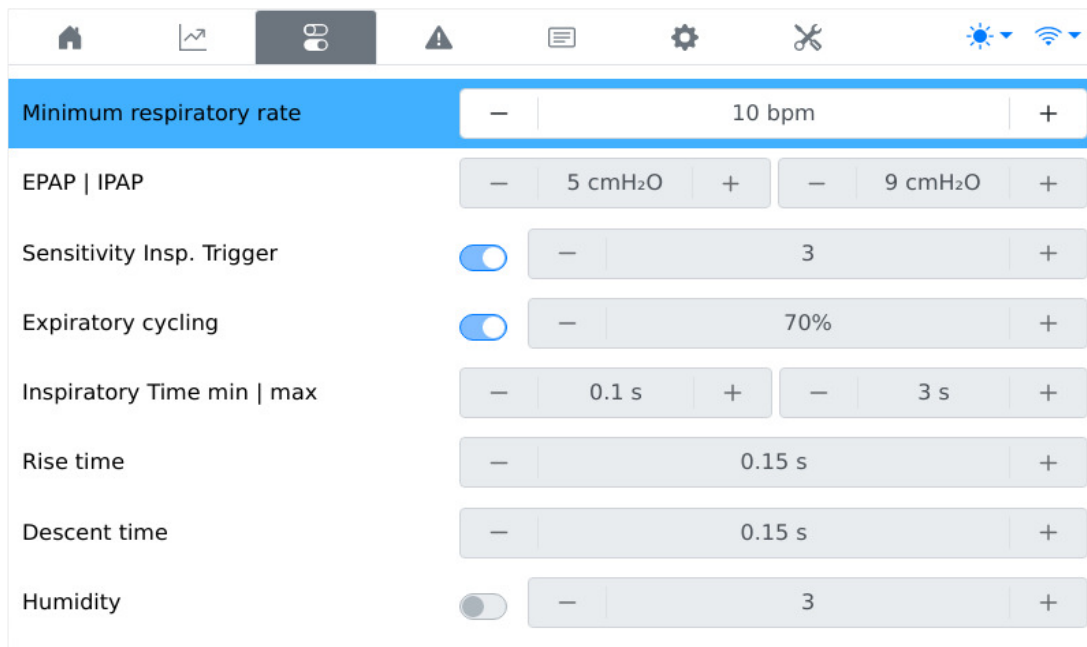
FIO₂

Leakproof inlet permitting to reach 100% FIO₂

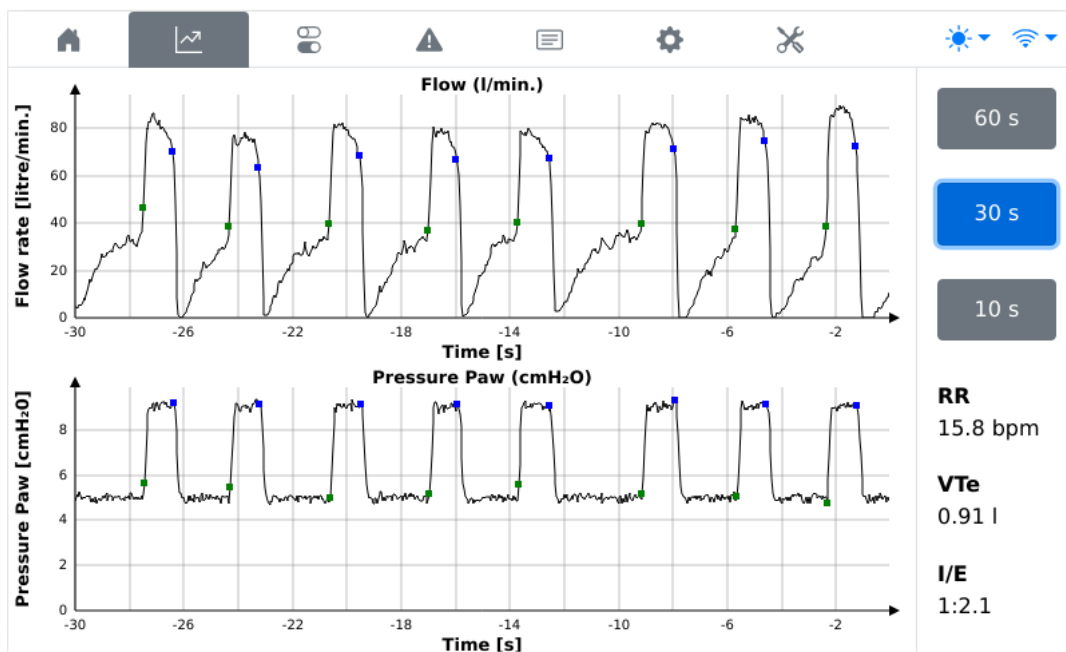
Pulse Oximeter

SaO₂ and pulse with finger sensor

Ventilation color touchscreen display



Graphic curves color touchscreen display



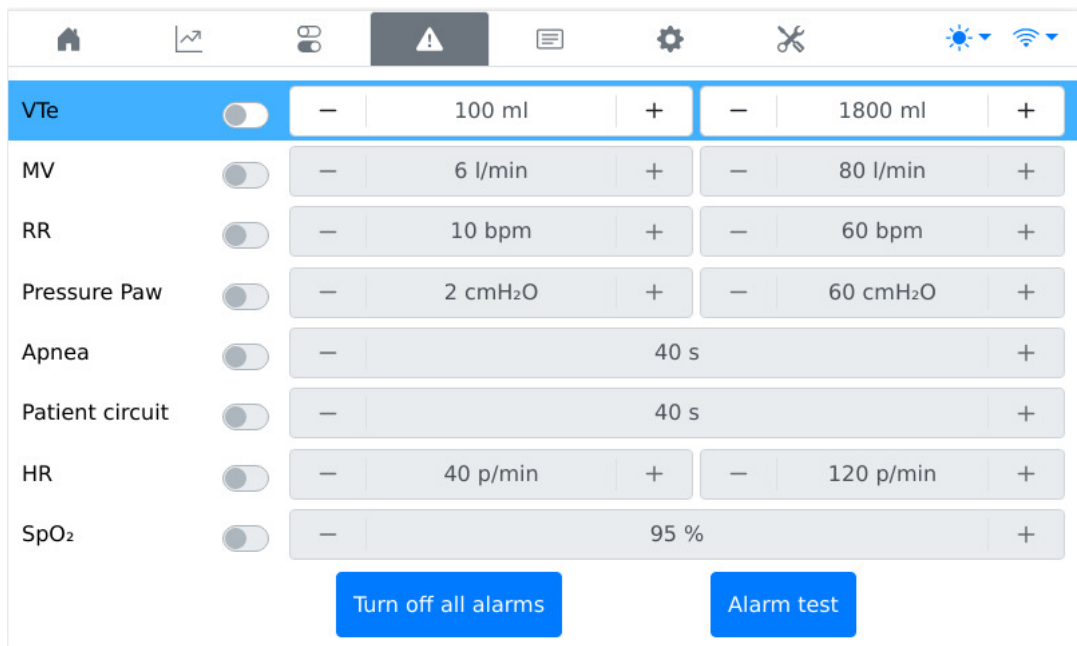
1. Alarms

Device Alarms are visual and audible. All alarm can be set separately.

Alarms list:

- Leak
- Volume too low.
- Volume too high.
- Minute Volume minute too low.
- Respiratory Frequency too low.
- Respiratory Frequency too high.
- Apnea
- Circuit disconnect
- Heart Frequency too low.
- Heart Frequency too high.
- Low Oxygenation.

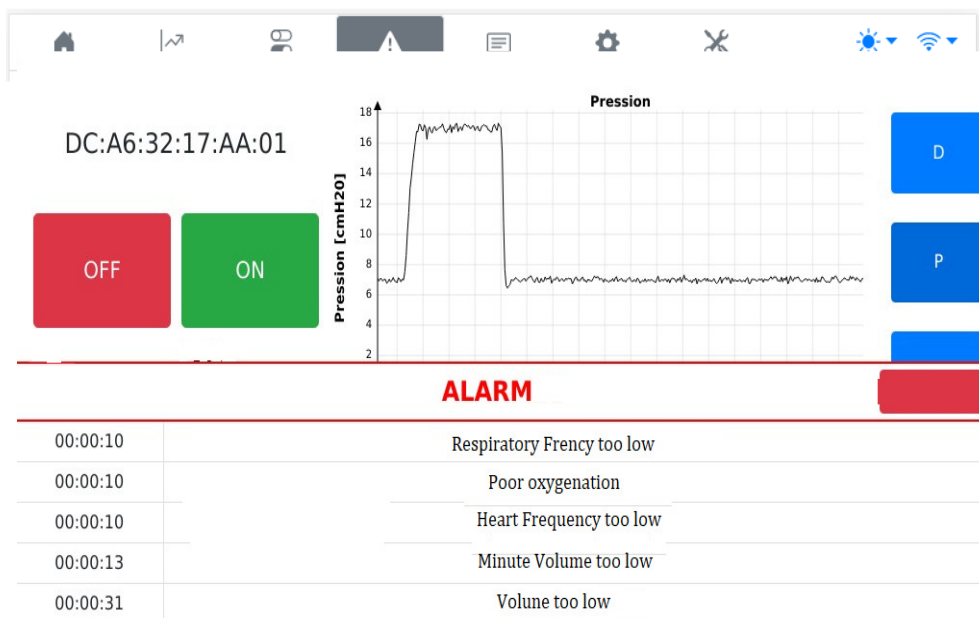
Alarms color touchscreen setting display



Parameter	Enabled	Low Limit	High Limit
VTe	<input checked="" type="checkbox"/>	100 ml	1800 ml
MV	<input type="checkbox"/>	6 l/min	80 l/min
RR	<input type="checkbox"/>	10 bpm	60 bpm
Pressure Paw	<input type="checkbox"/>	2 cmH ₂ O	60 cmH ₂ O
Apnea	<input type="checkbox"/>	40 s	
Patient circuit	<input type="checkbox"/>	40 s	
HR	<input type="checkbox"/>	40 p/min	120 p/min
SpO ₂	<input type="checkbox"/>	95 %	

Turn off all alarms
Alarm test

Alarms color touchscreen setting display with “Confirm”



2. Supervising server

The device can be connected by WiFi with a server. (Database Mongo DB, source code is available to customers or used by our own server). The number of connections is unlimited.

