

FALCO 202 EVO TRANSPORT

Manufacturer: Siare Engineering
International Group S.p.A. (Italy)



Falco 202 EVO TRANSPORT is a reliable and versatile mechanical ventilator that delivers exceptional flexibility, user-friendly technology, and a wide range of operating modes with a clear and easily adaptable interface for respiratory therapy in adults, children, and neonates (weighing from and up to 500 grams!).

It has been specifically designed to withstand drops and severe mechanical impacts. The protective bumpers surrounding the housing absorb shocks from all sides, ensuring uninterrupted device functionality. All control elements, including the encoder, keypad, and even the sensors, are fully protected.

Thanks to the 10.4-inch color touchscreen display, precise and clear monitoring is ensured, along with instant feedback on the ventilation delivered to the patient. The pneumatic system of the ventilator features an advanced low-pressure generator with a separate cooling system, enabling autonomous air supply with low oxygen consumption, which is used to mix FiO_2 from 21% to 100%.



This makes the device an ideal solution for ventilation therapy in patients with tracheostomy, as well as for those receiving non-invasive ventilation (NIV) via oronasal masks in intensive care units, intermediate care units, pulmonology departments, emergency care, and during both intra-hospital and inter-hospital transport. A dedicated range of accessories has been designed and manufactured to ensure maximum mobility and convenience of the ventilator system.

High- and low-
pressure oxygen
inlet with built-in
blender from 21%
to 100%

Transport handle

NIV leak
compensation up
to 60 L/min

Transport
handle

Integrated
medication
nebulizer

Paramagnetic and
sterilizable flow
sensor

Shock-resistant
bumpers: full
protection for
encoder,
keyboard, and
sensors





Technical Specifications

Physical Data

- Dimensions: 355 × 305 × 190 mm
- Weight: 7.5 kg

Power Supply

- Mains Power: 100–240 V AC, 50–60 Hz, ≤ 60 VA
- External DC Input: 12 V, 7 A

Battery

- Type: Nickel-metal hydride battery, 12 V
- Operating Time: Up to 8 hours

Pneumatic Supply

- Low-pressure O₂: ≤ 15 L/min
- High-pressure O₂: 2.8 – 6 bar

Interfaces

- Communication Ports: RJ (O₂ / flow sensor),
- RS-232 (CO₂), USB-A × 2, LAN

Protection Rating

- IP Rating: IP21

Acoustics

- Noise Level During Operation: 48.7 dBA (at operator position)
- Alarm Threshold: 80 dBA; volume levels 1–10

Display & User Interface

- Screen: 10.4" TFT LED touchscreen (262 × 163 mm)
- Graphics: Pressure, volume, flow, loops, trends up to 72 hours

Ventilation Modes

- APCV, APCV-TV, PSV, PSV-TV (Auto Weaning)
- VC/VAC (adult/neonatal), V-SIMV+PS, P-SIMV+PS
- CPAP, APRV, HFNC (optional), SIGH, NEB
- Apnea BACK-UP, MAN

Ventilation Settings

- Respiratory Rate (VC/VAC): 4 – 150 breaths/min
- Respiratory Rate (SIMV): 1 – 60 breaths/min
- Tidal Volume (Adults): 100 – 3000 ml
- Tidal Volume (Pediatrics): 50 – 400 ml
- Tidal Volume (Neonatal): 2 – 100 ml
- PEEP: 2 – 50 cm H₂O (when NIV is disabled)
- FiO₂: 21 – 100% (electronic blender)
- Trigger: Pressure from 1 to -20 cm H₂O or flow 0.3 – 15 L/min

**Ventilator Falco 202 EVO TRANSPORT
(with Turbine Drive)**

- Advanced transport trolley for the ventilator, supplied with holders for cables, gas cylinder, and humidifier.
- Electronic humidifier VAPOUR with heating option (supplied with 1 water bottle).

Additional Services

- **Installation & Commissioning:**

Performed by the company's engineers, including installation, system start-up, and calibration.

- **Staff Training:**

On-site training on system operation at the installation location.

- **Warranty Period:**

12 months from the date of commissioning.

- **Documentation:**

The system undergoes full state certification and is supplied with an operating manual.