

Flight 60 Tech Specs

Intended Use

Ventilator designed to provide Invasive and Non-Invasive ventilation for the critical care management of adult and pediatric patients greater than 5 kg

Modes of Ventilation

- Spont (CPAP/BiPAP/BiPAP ST/PSV)
- ACMV (Pressure control/Volume control/PRVC)
- SIMV (Pressure control/Volume control/PRVC)
- B-Lev (Bi-Level, APRV, Bi-Phasic, Duo-PAP)
- Volume Guarantee VtG & MVG (VG PS/ AVAPS)
- NIV with leak compensation up to 60 lpm (F60 T)

Operating Environment

- Temperature -18 °C to 50 °C / -0.4 °F to 122 °F
- Humidity 15% to 95% at 31 °C/88 °F
- Altitude: 70kPa to 110kPa
- Storage T° -20 °C to 71 °C / -4 °F to 160 °F
- Water/Dust Resistance IP34 (Splash Proof)

Dimensions

- Width 29 cm /11.4"
- Height 25 cm /9.8"
- Depth 28 cm /11.0"

Weight (including batteries)

- Turbine 5.5 kg / 6 kg with integrated mixer
- Piston 6.3 / 6.9 kg with integrated mixer

User Interface

- 7" easy to use color LCD touchscreen
- Languages: English, German, French, Italian, Spanish, Portuguese, Russian, Polish, Hungarian, Greek, Turkish, Japanese, Chinese
- Buzzer Level: Low/High
- 5 preset customizable settings
- Lockable keypad buttons

Power Sources

- AC 100 to 240V, 50-60Hz
- DC 12 to 15V
- Hot swappable 8 to 12 hours lithium-ion batteries
- Power Save On/Off/Night

Controls

- Flow F60T: 2 to 220 lpm; F60: 2 to 100 lpm
- Tidal Volume 30 to 2,200 ml
- Breath Rate 1 to 99 bpm
- Manual Breath 0 to 3 sec
- Pressure Control 5 to 80 cmH₂O
- Volume Control Time/Flow
- Pressure Support 0 to 60 cmH₂O
- PSV flow termination 10% to 90%
- PEEP/CPAP 0 to 40 cmH₂O
- Pressure Trigger -20 to -0.1 cmH₂O
- Flow Trigger 1 to 20 lpm
- Rise Profile 5 levels
- Inspiratory Time (Ti) 0.1 to 3 sec
- FiO₂ 21% to 100%
- 2 min 100%O₂ delivery

- Sigh On/Off
- Synchronized nebulizer 5 to 60 min
- Hold Breath 1 to 6 sec (F60 only)
- Maneuvers Inspiratory/Expiratory hold (F60 only)
- Altitude compensation Off, 500 to 4,500 m
- Automatic Purge circuit 60 to 300 sec
- Customizable Apnea Ventilation

B-Lev Controls (APRV)

- T high (Inspiratory Time) 1 to 15 sec
- T low (Expiratory Time) 0.5 to 5 sec
- P high (Inspiratory Pressure) 3 to 60 cmH₂O
- P low (Expiratory Pressure) 0 to 40 cmH₂O
- Inverse I:E 30:1

Alarms

- Alarm prioritization 3 levels - Caution/Medium/High
- Apnea 10 to 60 sec
- Battery Low/Empty/Disconnection
- Low/High Minute Volume
- Low/High Pressure
- Low/High FiO₂
- Low Vti/Vte
- Check patient circuit
- O₂ sensor defective
- O₂ supply failed
- Low/High Breath Rate

Monitors

- Airway pressure LED Gauge -10 to 120 cmH₂O
- Peak Inspiratory Pressure (PIP) 0 to 120 cmH₂O
- Exhaled / Inhaled Tidal Volume 0 to 10 L
- Inhaled / Exhaled Minute Volume 0 to 99 lpm
- Base / Mean Pressure 0 to 99 cmH₂O
- Actual breath rate 0 to 99 bpm
- FiO₂ 21% to 100%
- I:E Ratio 1:99 to 3:1
- RSBI 0 to 200
- Waveforms Pressure, Flow, Volume
- Loops Pressure vs Volume, Flow vs Volume
- Trends Breath rate, PIP, Vte (up to 72 hours)
- Lung mechanics: Static & Dynamic compliance - Resistance, P Plateau, Auto PEEP (F60 only)

Oxygen

- Optional O₂ mixer internal electronically controlled
- High Pressure/Low Flow Port 35 to 90 psi / 0 to 15lpm
- Compatible with oxygen tanks and concentrator

Communication

- 2 USB ports Download logs, SW upgrade
- 2 external RS232 connectors: Remote Alarm and Monitoring
- RJ 45 connector

Standards

- IEC 60601-1, IEC 60601-1-2, IEC 60601-2-12, ASTM 1246F, ISO 10651-2/3, RTCA DO-160F

Your Partner in Ventilation



Flight 60[®]

Reliable Ventilation
Across the Spectrum of Care



Flight Medical Innovations Ltd. manufactures, develops and markets life supporting respiratory ventilators for Critical Care and Emergency environments, Long Term Acute Care facilities, Homecare, transport, military, mass casualty and emergency preparedness.

Flight 60®

The flight 60 is a fully independent ventilator, Piston- driven or Turbine-based (F60T)

The worldwide deployed Flight 60 is both a volume-control and pressure-control ventilator for invasive and noninvasive ventilation.

Cost effective, value driven solution for reliable ventilation, across the spectrum of care



Provides high quality mechanical ventilation in all clinical situations

- Adults and infants down to 5 kg
- Pressure and volume ventilation types
- Basic and advanced modes
- Volume Guarantee modes
- Non-invasive and invasive ventilation

A versatile ventilator with ICU – Level expectations

- ICU modes: B-Lev, PRVC, Volume Guarantee
- Continuous monitoring of breathing parameters
- Flow or Pressure Trigger for optimum patient-machine synchrony
- Internal Mixer: Low Flow and High Pressure O₂, 100% O₂ preset
- Customized Apnea backup ventilation to keep patients' parameters
- Extensive alarms system
- Does not require connection to air inlet
- Lung Mechanics (Piston only)

LTAC and Homecare

- Invasive and Non Invasive Ventilation
- The Flight 60 provides the tools needed to effectively ventilate your patients in any care environment
- The Flight 60 offers advanced weaning modes, Preset quick ventilation options.
- The Flight 60's portability, along with long battery life is the perfect solution when it comes to provide powerful ventilation
- Low flow oxygen inlet, no need to have high pressure oxygen source
- Splash Proof: allows the patient to leave the ventilator nearby the shower
- Lockable screen to avoid any unattended action
- Oxygen is delivered during inspiration phase only leading to lower O₂ consumption and reduced operation costs
- Ability to dim visual screen for night time patient comfort
- Mouthpiece ventilation capabilities

When it is time for NIV, clinicians no longer need to switch devices

- Automatic leak compensation allows for effective and comfortable mask ventilation in a wide range of modes
- Pressure support in CPAP and BiPAP modes to provide ideal assistance
- Both Flow and Pressure Trigger options
- When moving between invasive and non-invasive therapies utilize the same equipment and same patient circuit
- Integrated and compensated nebulizer (Not Available in USA)

Transport and EMS

- Whether it is critical care transport outside the hospital, emergency preparedness or mass casualty response, the Flight 60 provides a sturdy and reliable solution for all levels of required ventilation. Its autonomous platform allows caregivers to treat patients in any environment, while conserving oxygen and power.
- Move the patient on all ventilation modes
- Autonomous: eight to twelve hours of independent ventilation plus hot swappable battery
- Any power source, in flight certification
- Five Preset modes: Allows clinicians to focus their attention on the patient and reduces time to make right clinical decision

Ease of Operation

- 7" color touch screen clearly visible even outside in bright daylight or with fluorescent lighting
- All parameters and alarms displayed on one screen
- Intuitive user interface require minimum training
- Curves and loops
- 72 hours of trends
- Adjustable alarms
- Downloadable event logs
- Customizable configurations