

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[®]



Provides high quality mechanical ventilation in all clinical situations

A versatile ventilator with ICU – level expectations

LTAC and homecare

- Adults and pediatric patients greater than 5 kg
- Pressure and volume control ventilation
- Basic and advanced modes
- Non-invasive and invasive ventilation

- 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

- 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 providing powerful ventilation
- Low flow oxygen inlet, no need to have high pressure oxygen source
- Splash-proof: Allows the patient to leave the ventilator near the shower
- Lockable screen to avoid any unattended action
- Ability to dim visual screen for night time patient comfort
- Mouthpiece ventilation capabilities

The Flight 60 is a fully independent, Piston- driven, ventilator.

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.



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: 12 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 the 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 requires minimum training
- Curves and loops
- 72 hours of trends
- Adjustable alarms
- Downloadable event logs
- Customizable configurations

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	

Operating Environment

• Temperature	-20 °C to 50 °C / -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	6.3 kg / 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
• Adjustable buzzer level
• 5 preset customizable settings
• Lockable keypad buttons

Power Sources

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

Controls

• Flow	Up to 100 l/min
• Tidal Volume	30 to 2,200 ml
• Breath Rate	1 to 99 BPM
• Manual Breath	0 to 3 sec
• Pressure Control	5 to 80 cmH ₂ O
• Volume Control	Time/Flow
• Pressure Support	0 to 60 cmH ₂ O
• PSV flow termination	10% to 90%
• PEEP/CPAP	0 to 40 cmH ₂ O
• Pressure Trigger	-20 to -0.1 cmH ₂ O
• Flow Trigger	1 to 20 l/min
• Rise Profile	5 levels
• Inspiratory Time (Ti)	0.1 to 3 sec
• FiO ₂	21% to 100%
• 2 min 100% O ₂ delivery	
• Sigh	On/Off

• Synchronized nebulizer	5 to 60 min
• Maneuvers	
• Altitude compensation	Off, 500 to 4,500 m
• Automatic Purge circuit	60 to 300 sec
• Customizable Apnea Ventilation	

B-Lev Controls (APRV)

• T high	1 to 15 sec
• T low	0.5 to 5 sec
• P high	3 to 60 cmH ₂ O
• P low	0 to 40 cmH ₂ O
• 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 FiO ₂	
• Low Vti/Vte	
• Check patient circuit	
• O ₂ sensor defective	
• O ₂ supply failed	
• Low/High Breath Rate	

Monitors

• Airway pressure LED Gauge	-10 to 120 cmH ₂ O
• Peak Inspiratory Pressure (PIP)	0 to 120 cmH ₂ O
• Inhaled/ Exhaled Tidal Volume	0 to 10 L
• Inhaled/ Exhaled Minute Volume	0 to 99 l/min
• Base / Mean Pressure	0 to 99 cmH ₂ O
• Actual breath rate	0 to 99 BPM
• FiO ₂	21% to 100%
• I:E Ratio	1:99 to 3:1
• RSBI	0 to 200 l/min x l
• 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	

Oxygen

• Optional O ₂ mixer	Internal electronically controlled
• Optional external mixer	
• High Pressure/Low Flow Port	35 to 90 psi / 0 to 15 l/min
• 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, ISO 80601-2-12, ISO 10651-2/3, RTCA DO-160F
