

Specifications: V8



SHENZHEN COMEN MEDICAL INSTRUMENTS CO.,LTD

Floor 10, Floor 11 and Section C of Floor 12 of Building 1A & Floor 1 to
Floor 5 of Building 2, FIYTA Timepiece Building, Nanhuan Avenue,
Matian Sub-district, Guangming District, Shenzhen, Guangdong,
518106,P.R. China

Tel: +86-755-26408879

Fax: +86-755-26431232

Email: info@szcomen.com

Web: www.comen.com

Ventilator

V8



Physical Characteristics

Overall Unit (main unit, blower, display and trolley)

Dimensions	731mm*529mm*1387mm (±5%)
Weight	With blower: ≤50kg Without blower: ≤45kg
Casters	4 pcs, each equipped with a brake pedal

Main Unit

Dimensions	With blower: 310mm*314mm*636mm (±5%) Without blower: 310mm*314mm*430mm (±5%)
Weight	With blower: ≤25kg Without blower: ≤20kg
Noise	≤45dB
Ingress protection	IP21

Screen

Size	18.5" TFT touch capacitive screen
Resolution	1920*1080 pixels
Adjustable angle	Horizontal: 270° Vertical: 45°

LED Light

External power supply indicator	1
Power switch indicator	1
Battery status indicator	1
Alarm indicator	1

Ports

HDMI	1
Network	1
Multi-function	1
USB	4

Ventilation Mode

Oxygen therapy

Invasive mode (13)

HFNC

V-A/C, P-A/C, PRVC, CPRV
V-SIMV, P-SIMV, PRVC-SIMV
CPAP/PSV
DuoVent, APRV
VS, PPS, AMV

Non-invasive mode (10)

P-A/C
P-SIMV
CPAP/PSV, PSV-S/T
DuoVent, APRV
PPS
NCPAP, NIPPV, SNIPPV

Ventilator Specification

Control Parameters Range

O2%	21~100vol.%
VT	Adult: 100~4000ml Pediatric: 20.0~300ml Neonate: 2.0~100ml
f	Dual tube: Adult/Pediatric: 1~100bpm Neonate: 1~150/min Single tube: 1~120bpm
fsimv	1~60bpm
Tinsp	0.10~10.00s
I:E	4:1~1:10
Tslope	0.00~2.00s
PEEP	Dual tube: 0~50cmH2O Single tube: 0.0~15.0cmH2O
Pinsp	Dual tube: High-pressure gas: 1~100cmH2O Turbine: 1~80cmH2O Single tube:

	2.0~25.0cmH ₂ O	R-Max	0~50cmH ₂ O/L/s
Psupp	High-pressure gas: 0~100cmH ₂ O Turbine: 0~80cmH ₂ O	PPV%	0%~100%
Phigh	High-pressure gas: 0~100cmH ₂ O Turbine: 0~80cmH ₂ O	Backup frequency	1~120bpm
Plow	0~50cmH ₂ O	ΔPmanInsp	Dual tube: 1~100cmH ₂ O Single tube: 2.0~25.0cmH ₂ O
Thigh	0.10~30.00s	Manual Tinsp	0.10~10.00s
Tlow	0.20~30.00s	Comp. f	90~130bpm
F-Trig	Adult/Pediatric: 0.5~20.0L/min Neonate: 0.1~5.0L/min.	Backups	OFF, 0~10
P-Trig	-20.0~-0.5cmH ₂ O	Flow type	Square wave Decelerating wave: 0%~75%
Insp%	OFF, 1~10	Monitoring Parameters Range	
Exp%	Auto, 5%~85%	O ₂ %	0 vol.%~100 vol.%
fapnea	Adult/Pediatric: 1~100bpm Neonate: 1~150bpm	VT	0.0~9999ml
Apnea Pinsp	Dual tube: High-pressure gas: 1~100cmH ₂ O Blower: 1~80cmH ₂ O Single tube: 2.0~25.0cmH ₂ O	MV	Adult/Pediatric: 0.0~100.0L/min Neonate: 0.0~30.0L/min
VTapnea	Adult: 100~4000ml Pediatric: 20.0~300ml Neonate: 2.0~100ml	f	0~200bpm
Apnea Ti	0.10~10.00s	I:E	150:1~1:150
△int.PEEP	OFF, 1~40cmH ₂ O	Tinsp	0.00~60.00s
Flow (O ₂ therapy)	Adult/Pediatric: 2.0~80.0L/min Neonate: 2.0~20.0L/min	Paw	60~120cmH ₂ O
Insp Flow	Adult: 5.0~180.0L/min Pediatric: 5.0~40.0L/min Neonate: 2.0~30.0L/min	PEEP	0.0~120cmH ₂ O
Tpause(%)	OFF, 5%~60%	Resistance	0~600cmH ₂ O/(L/s)
NCPAP	Dual tube: 0~50cmH ₂ O Single tube: 0.0~15.0cmH ₂ O	Compliance	0~300ml/cmH ₂ O
MV%	25%~350%	RSBI (Rapid Shallow Breathing Index)	0~9999 1/(l•min)
Neg Press Lmt (Negative Pressure Limit)	-30~0cmH ₂ O	NIF	-60~0.0cmH ₂ O
Nebulizer O ₂ %	21~100vol.%	P0.1	-60~0.0cmH ₂ O
Ti max	0.10~10.00s	PIF	Adult/Pediatric: 0.0~300L/min Neonate: 0.0~30.0L/min
VT-Max	Adult: 100~3500ml Pediatric: 100~300ml	PEF	Adult/Pediatric: 0.0~180L/min Neonate: 0.0~30.0L/min
P-Max	5~40cmH ₂ O	Stress Index	0.50~1.50
E-Max	0~100cmH ₂ O/L	C20/C	0.00~5.00
		VCO ₂ (carbon dioxide output during single breath)	0~200ml
		VO ₂ (oxygen consumption during single breath)	0~200ml
		RCexp	0.00~10.00s
		WOB	0.00~100.00J/min
		EEF	Adult/Pediatric: 0.0~180L/min Neonate: 0.0~30.0L/min
		Flow (O ₂ Therapy)	0.0~200.0L/min

Ptpl	-150~150cmH2O			0~2cmH2O: ±1cmH2O
PtpE	-150~150cmH2O			Other range: ± (2cmH2O + 4% of the set value)
ΔPtp	-150~150cmH2O			
ΔPes	-150~150cmH2O	Pinsp		Dual tube: 1~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
SpO2/FiO2	65~500			Single tube: 2cmH2O: ±0.5cmH2O Other range: ± (2cmH2O + 4% of the set value)
OSI	0.0~30.0cmH2O			
RSS	0.00~25.00cmH2O			
ROX Index	0.0~500.0			
Sigh Parameters Range				
Sigh	NO, OFF	Psupp		0~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
Interval	20s~180min			
Sigh times	1~20			
△int.PEEP	OFF, 1~40cmH2O	Phigh		0~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
TRC Parameters Range				
TRC tube type	OFF, ET (Endotracheal tube), Trach tube (Tracheostomy tube)	Plow		0~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
Tube I.D.	Adult: 5.0~12.0mm Pediatric: 2.5~8.0mm Neonate: 2.5~5.0mm	Thigh		0.20~30.00s: ±0.2s or ±10% of the set value, whichever is greater Other range: ±0.05s
Compensate	1%~100%			
Expiration	ON, OFF	Tlow		±0.2s or ±10% of the set value, whichever is greater
Control Parameter Accuracy				
O2%	±(3vol.% + 1% of the set value)	F-Trig		Adult/Pediatric: 0.5~20.0L/min: ± (1L/min + 10% of the set value) Neonate: 0.1~5.0L/min: ± (0.2L/min + 10% of the set value).
VT	Adult/Pediatric: 20~4000ml: ± (10ml + 8% of the set value) Neonate: 2.0~100ml: ± (1.5ml + 8% of the set value).	P-Trig		± (1cmH2O + 10% of the set value)
f	1~100bpm: ±1bpm Other range: ±2% of the set value	Insp%		Not defined
fsimv	±1bpm	Exp%		5%~85%: ±10% (absolute error) Other range: not defined.
Tinsp	0.20~10.00s: ±0.1s or ±10% of the set value, whichever is greater Other range: ±0.05s.	fapnea		1~100bpm: ±1bpm Other range: ±2% of set value.
I:E	2:1~1:4: ±10% of the set value Other range: ±15% of the set value	Apnea Pinsp		Dual tube: 1~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value) Single tube: 2cmH2O: ±0.5cmH2O Other range: ± (2cmH2O + 4% of the set value)
Tslope	0.00~0.10s: ±0.05s 0.10~0.20s: ±0.1s 0.20~2.00s: ±0.2s or ±15% of set value, whichever is greater.			
PEEP	Dual tube: 0~2cmH2O: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value) Single tube:	VTapnea		Adult/Pediatric: 20.0~4000ml: ± (10ml + 8% of the set value) Neonate:

	2.0~100ml: $\pm (1.5\text{ml} + 8\% \text{ of the set value})$	Backups	Not defined
Apnea Ti	0.20~10.00s: $\pm 0.1\text{s}$ or $\pm 10\%$ of the set value, whichever is greater Other range: $\pm 0.05\text{s}$	Flow type	Not defined
$\Delta \text{int.PEEP}$	OFF 1~2cmH ₂ O: $\pm 1\text{cmH}_2\text{O}$ Other range: $\pm (2\text{cmH}_2\text{O} + 4\% \text{ of the set value})$	Monitoring Parameters Accuracy	
Flow (O ₂ therapy)	$\pm 1\text{L/min}$ or $\pm 10\%$ of the set value, whichever is greater.	O ₂ %	$\pm (2.5\text{vol.\%} + 2\% \text{ of the actual reading})$
Insp Flow	$\pm 1\text{L/min}$ or $\pm 15\%$ of the set value, whichever is greater.	VT	Adult/Pediatric: 0.0~100ml: $\pm (10\text{ml} + 2\% \text{ of the actual reading})$ 100~9999ml: $\pm (5\text{ml} + 7\% \text{ of the actual reading})$.
Tpause(%)	$\pm 5\%$ (absolute error, N/A when the inspiratory pause time is less than 0.1s)		Neonate: 0.0~9999ml: $\pm (2\text{ml} + 7\% \text{ of the actual reading})$.
NCPAP	Dual tube: 0~2cmH ₂ O: $\pm 1\text{ cmH}_2\text{O}$ Other range: $\pm (2\text{cmH}_2\text{O} + 4\% \text{ of the set value})$ Single tube: 0.0~2.0cmH ₂ O: $\pm 0.5\text{cmH}_2\text{O}$ Other range: $\pm (2\text{cmH}_2\text{O} + 4\% \text{ of the set value})$	MV	Adult/Pediatric: 0.00~100.0L/min: $\pm (0.2\text{L/min} + 8\% \text{ of the actual reading})$; Neonate: 0.00~30.0L/min: $\pm (0.15\text{L/min} + 7\% \text{ of the actual reading})$.
MV%	$\pm 10\%$ (absolute error) or $\pm 10\%$ of the set value, whichever is greater.	f	$\pm 1\text{bpm}$ or $\pm 4\%$ of the actual reading, whichever is greater.
Neg Press Lmt (Negative Pressure Limit)	$\pm (2\text{cmH}_2\text{O} + 4\% \text{ of the set value})$	I:E	$\pm 6\%$ (N/A when either inspiratory time or expiratory time is less than 50ms)
Nebulizer O ₂ %	$\pm (5\text{vol.\%} + 2.5\% \text{ of the set value})$	T _{insp}	$\pm 0.05\text{s}$
Ti max	Not defined	Paw	$\pm (2\text{cmH}_2\text{O} + 3\% \text{ of the actual reading})$
VT-Max	$\pm 15\%$ of the set value	PEEP	$\pm (2\text{cmH}_2\text{O} + 3\% \text{ of the actual reading})$
P-Max	$\pm (2\text{cmH}_2\text{O} + 4\% \text{ of the set value})$	Resistance	0~20cmH ₂ O/(l/s): $\pm 10\text{cmH}_2\text{O}/(\text{l/s})$ 20~500cmH ₂ O/(l/s): $\pm 50\%$ of the actual reading Other range: not defined.
E-Max	Not defined	Compliance	$\pm 10\text{ml/cmH}_2\text{O}$ or $\pm 20\%$ of the actual reading, whichever is greater.
R-Max	Not defined	RSBI (Rapid Shallow Breathing Index)	$\pm 20\text{ l}/(\text{l}\cdot\text{min})$ or $\pm 20\%$ of displayed value, whichever is greater.
PPV%	Not defined	NIF	$\pm (2\text{cmH}_2\text{O} + 3\% \text{ of the actual reading})$
Backup frequency	$\pm 1\text{bpm}$	P0.1	$\pm (2\text{cmH}_2\text{O} + 3\% \text{ of the actual reading})$
$\Delta \text{PmanInsp}$	Dual tube: 1~2cmH ₂ O: $\pm 1\text{cmH}_2\text{O}$; Other range: $\pm (2\text{ cmH}_2\text{O} + 4\% \text{ of the set value})$ Single tube: 2cmH ₂ O: $\pm 0.5\text{cmH}_2\text{O}$; Other range: $\pm (2\text{ cmH}_2\text{O} + 4\% \text{ of the set value})$	PIF	$\pm 1\text{L/min}$ or $\pm 15\%$ of the actual reading, whichever is greater.
Manual T _{insp}	0.20~10.00s: $\pm 0.1\text{s}$ or 10% of the set value, whichever is greater Other range: $\pm 0.05\text{s}$.	PEF	$\pm 1\text{L/min}$ or $\pm 15\%$ of the actual reading, whichever is greater.
Comp. f	$\pm 10\%$ of the set value	Stress Index	± 0.1
		C20/C	± 0.2 or $\pm 10\%$, whichever is greater.
		VCO ₂ (carbon dioxide output during single breath)	$\pm 15\%$ or $\pm 15\text{ml}$, whichever is greater.
		VO ₂ (oxygen consumption during single breath)	$\pm 15\%$ or $\pm 15\text{ml}$, whichever is greater.
		RCexp	$\pm (0.2\text{s} + 20\% \text{ of the actual reading})$

WOB	± (1L/min + 15% of the actual reading)		1~100cmH2O, OFF
EEF	±1L/min or ±15% of the actual reading, whichever is greater	f	High limit: 2~160bpm, OFF
Flow (O2 Therapy)	±1L/min or ±8% of the actual reading, whichever is greater		Low limit: 1~159bpm, OFF
PtpI	± (2cmH2O + 3% of the actual reading)	Apnea alarm	5~60s
PtpE	± (2cmH2O + 3% of the actual reading)		In NCPAP mode, apnea alarm can be set to OFF.
ΔPtp	± (2cmH2O + 3% of the actual reading)		
ΔPes	± (2cmH2O + 3% of the actual reading)		
SpO2/FiO2	±65		
OSI	± (0.5cmH2O + 10% of the actual reading)		
RSS	±0.8cmH2O		
ROX Index	Not defined		
Ventilator Alarm			
VT	High limit: Adult: 110~9999ml, OFF Pediatric: 15~650ml, OFF Neonate: 3~600ml, OFF Low limit: Adult: 50~9995ml, OFF Pediatric: 5~645ml, OFF Neonate: 1~595ml, OFF	Endotracheal cuff pressure control range	0~50cmH2O
		Endotracheal cuff pressure control accuracy	0~2cmH2O range: ±1cmH2O Other range: ± (2cmH2O + 4% of the set value)
		Endotracheal cuff pressure monitoring range	0~120cmH2O
		Endotracheal cuff pressure monitoring accuracy	± (2cmH2O + 3% of the set value)
CO2 Module			
		Sidestream	
		CO2 range	Comen sidestream: 0~150mmHg Respironics CapnoTrak sidestream: 0~99mmHg Masimo ISA Capno sidestream: 0~190mmHg
		CO2 accuracy	Comen sidestream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Respironics CapnoTrak sidestream: 0~38mmHg: ±2mmHg; 38.01~99mmHg: ±10% of the reading. Masimo ISA Capno sidestream: 0~114mmHg: ± (1.52mmHg + 2% of the reading) 114~190mmHg: not defined.
		EtCO2 alarm limit	Comen CO2 module: High alarm limit: (low limit + 2) ~150mmHg Low alarm limit: 0~ (high limit - 2) mmHg Respironics CO2 module: High alarm limit: (low limit + 2) ~150mmHg
MV	High limit: Adult: 0.20 l/min~100.0 l/min Pediatric: 0.20 l/min~60.0 l/min Neonate: 0.02 l/min~30.0 l/min In NCPAP mode, high alarm limit can be set to OFF. Low limit: Adult: 0.10~50.0L/min; Pediatric: 0.10~30.0L/min; Neonate: 0.01~15.0L/min In non-invasive ventilation, low alarm limit can be set to OFF.		
FiO2	High limit: min (the set value of oxygen concentration + max (7vol.%, the set value of oxygen concentration × 10%) , 100vol.%) (rounded) Low limit: max (18vol.%, the set value of oxygen concentration - max (7vol.%, the set value of oxygen concentration × 10%)) (rounded)		
Paw	High limit: 10~105cmH2O Low limit:		

	Low alarm limit: 0~ (high limit - 2) mmHg		reading)
	Masimo CO2 module:		114~190mmHg: not defined.
	High alarm limit: (low limit +2) ~190mmHg	EtCO2 alarm limit	Comen CO2 module:
	Low alarm limit: 0~ (high limit - 2) mmHg		High alarm limit: (low limit + 2) ~150mmHg
Sampling rate and accuracy	50ml/min (±10ml/min.)		Low alarm limit: 0~ (high limit - 2) mmHg
Total system response time	Masimo ISA Capno sidestream: <3s (use a 2m sampling line) Respironics CapnoTrak and Comen sidestream: <4s, including the transport time and rise time of water filter component and airway adapter.		Respironics CO2 module: High alarm limit: (low limit + 2) ~150mmHg Low alarm limit: 0~ (high limit - 2) mmHg
Preheat time	Masimo ISA Capno sidestream: <10s Respironics CapnoTrak/Comen sidestream: Obtain the waveform: <10s Reach the full accuracy specification: ≤3min.	Sampling rate and accuracy	Masimo CO2 module: High alarm limit: (low limit +2) ~190mmHg Low alarm limit: 0~ (high limit - 2) mmHg
10% to 90% rise time	Masimo Nomoline ISA sidestream: ≤200ms Respironics CapnoTrak sidestream: ≤410ms Comen sidestream: ≤410ms	Total system response time	Masimo IRMA mainstream: sample rate 20Hz/channel Comen/Respironics mainstream: 100Hz
Respiratory Rate	0~150bpm (±1bpm)	Preheat time	<1.0s
Mainstream			Comen/Respironics mainstream: Obtain the waveform: <15s Reach the full accuracy specification: ≤2min
CO2 range	Comen mainstream: 0~150mmHg Respironics CAPNOSTAT 5: 0~150 mmHg Masimo IRMA mainstream: 0~190mmHg.		Masimo IRMA mainstream: <10s
CO2 accuracy	Comen mainstream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Respironics CAPNOSTAT 5 mainstream: 0~40mmHg: ±2mmHg 41~70mmHg: ±5% of the reading 71~100mmHg: ±8% of the reading 101~150mmHg: ±10% of the reading. Masimo IRMA mainstream: 0~114mmHg: ± (1.52mmHg + 2% of the	Respiratory rate	0~150bpm (±1bpm)
		CO2 Derived Function	
		VDaw	0~999ml
		VDaw/VTe	0~100%
		ViCO2	0~999ml
		VeCO2	0~999ml
		MVCO2	0~9999 ml/min
		slopeCO2	0~9.99%/l
		Vtalv	0~9999ml
		Mvalv	0 ~ 20 l/min
		RQ	0.0~10.0
		VDalv	0~999 ml
		VDphy	0~999 ml
		VDphy/VTe	0~100%
		OI	0.0~200.0
		P/F	0.0~800.0 ml
		kcal/d	0.0~10000.0
		VDalv/VTe	0~100%

SpO2 Module

Data update period	≤1s
Display interval	1%
SpO2 range	Masimo SpO2 module: 1%~100% Nellcor SpO2 module: 0%~100%;
SpO2 accuracy	Masimo SpO2 module: 70%~100%: ±2% (not during movement) or ±3% (during movement) in Adult/Pediatric mode, or ±3% in Neonate mode (whether or not during movement) 1%~69%: not defined. Nellcor SpO2 module: 70%~100%: ±2% in Adult/Pediatric mode (not during movement), or ±3% in Neonate mode (not during movement) 0%~69%: not defined.
SpO2 alarm limit	Masimo SpO2: High alarm limit: (low limit + 2%) ~100% Low alarm limit: 1%~ (high limit -2%) Nellcor SpO2: High alarm limit : (low limit +2%) ~100% Low alarm limit: 20%~ (high limit -2%)
Pulse rate range	Masimo SpO2: 25~240bpm Nellcor SpO2: 20~300bpm
Pulse rate accuracy	Masimo SpO2: ±3bpm (not during movement) ±5bpm (during movement) Nellcor SpO2: 20~250bpm: ±3bpm 251~300bpm: not defined
Pulse rate alarm	High alarm limit: (low limit + step length) ~350bpm; Low alarm limit: 15bpm~ (high limit – step length); Step length: In 15~40bpm range: 1bpm; in 41~350bpm range: 5 bpm; Set the high alarm limit to be greater than the low alarm limit.
PI range	Masimo SpO2 module: 0.02%~20.0% Nellcor SpO2 module: No PI

PI accuracy

Masimo SpO2 module:

0.02%~9.99%: 0.01%

10.0%~20.0%: 0.1%

Nellcor SpO2 module:

No PI

Signal IQ indication function

Masimo SpO2 module should be equipped with Signal IQ indication function

O2 Sensor

Drift of chemical O2 sensor

After 1 year: typical value <5%

O2 range

0%-100%

FiO2 accuracy

± (2kPa + 2% of reading)

Data Review

Screenshot

≥40 screenshots

Loop

≥10 loops

Trend graph

≥168h

Trend table

≥168h

Event Log

≥6000 event logs

Circuit Specification

High-pressure O2/AIR supply

Gas type

O2, Air

Pressure range

276~650kPa

Rated flow rate requirement

180L/min

Input connector

NIST or DISS

Average weighted flow rate

O2: 30.5L/min
AIR: 31.5L/min

Peak flow rate

O2: 97.8L/min
AIR: 115.4L/min

Turbine

Maximum output pressure

≥85cmH2O

Maximum output flow

≥210L/min

Inspiratory module

Safety pressure of respiration

≤12.5kPa

Peak flow rate

≥180 l/min

Nebulizer port flow rate

7~10L/min

Inspiratory-side external connector

Coaxial 22mm/15mm conical connector

Removable

Yes

Expiratory module

Expiratory-side

Coaxial 22mm/15mm conical

external connector connector

Removable Yes

System compliance and resistance

Compliance

Adult disposable circuit: $\leq 4\text{ml/cmH}_2\text{O}$
 Adult reusable circuit: $\leq 2\text{ml/cmH}_2\text{O}$
 Pediatric disposable circuit:
 $\leq 2\text{ml/cmH}_2\text{O}$
 Pediatric reusable circuit: $\leq 2\text{ml/cmH}_2\text{O}$
 Neonatal disposable circuit:
 $\leq 1\text{ml/cmH}_2\text{O}$
 Neonatal reusable circuit: $\leq 1\text{ml/cmH}_2\text{O}$

Resistance

Adult: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of
 60L/min
 Pediatric: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of
 30L/min
 Neonate: $\leq 6\text{cmH}_2\text{O}$ at the flow rate of
 5L/min

Biofilter

Dead space volume $\leq 65\text{ml}$

Filtration efficiency 99.99%

Power Supply

External AC power supply

Input voltage 100-240V~

Input frequency 50/60Hz

Input current 2.8~1.2A

Power consumption T5.0AH/250V

Internal battery

Number Main unit: 1 or 2

Turbine: 1

Type Lithium-ion battery

Voltage 14.4V DC

Capacity **Main unit:**

Single: 6700mAh

Dual: 13400mAh

Turbine:

Single: 6700mAh

Working time Single: 150min

Dual: 300min

Operation Environment

Temperature 5~40°C

Relative humidity 5%~95% (non-condensing)

Atmospheric pressure 62~106kPa

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