

### Environmental Specifications

Specifications	Operating	Storage and transport
Temperature	5-40°C	-20 - 60°C , O <sub>2</sub> Sensor: -20 - 50°C
Relative Humidity	10-95%	10-95%
Barometric Pressure	62-106kPa	50-106kPa

### Communication interface

Specifications
Communication Interface

HDMI, RS232, USB, Nurse call, CO<sub>2</sub> Module Connector, SPO<sub>2</sub> Module Connector

### Value Added Functions

Specifications
100%O <sub>2</sub>
Suction
Nebulization
Manual Breath
Inspiratory Hold
Expiratory Hold
PEEPi
P0.1
NIF
PV Tool



## SH320

## Ventilator Datasheet



### Ventilation Specifications

Specifications	
Patient Type	Adult, Pediatric, Neonatal
Invasive Ventilation Mode	<ul style="list-style-type: none"> <li>VCV (Volume Control Ventilation)</li> <li>PCV (Pressure Control Ventilation)</li> <li>SIMV-V (Volume Synchronized Intermittent Mandatory Ventilation)</li> <li>SIMV-P (Pressure Synchronized Intermittent Mandatory Ventilation)</li> <li>CPAP/PSV (Continuous Positive Airway Pressure/Pressure Support Ventilation)</li> <li>PRVC (Pressure Regulated Volume Control)</li> <li>SIMV+PRVC (PRVC+SIMV)</li> <li>BPAP (Bilevel Positive Airway Pressure)</li> <li>APRV (Airway Pressure Release Ventilation)</li> <li>Apnea Ventilation</li> </ul>
Non-invasive Ventilation Mode	<ul style="list-style-type: none"> <li>CPAP (Continuous Positive Airway Pressure)</li> <li>PCV (Pressure Control Ventilator)</li> <li>PPS (Proportional Pressure Support)</li> <li>S/T (Spontaneous and Timed)</li> <li>VS (Volume Support)</li> </ul>

### Ventilation

VT-apnea	Adult: 100-2000mL Pediatric: 20-300mL Neonatal: 2-300mL
ΔP-apnea	5-60cmH <sub>2</sub> O
f-apnea	1-80bpm
Apnea T-insp.	0.2-10s
Δ int.PEEP	1- 45 cmH <sub>2</sub> O , Off
Sigh Switch	On, Off
Interval	20s-180min
Cycles Sigh	1-20

## Controlled Parameters



Specifications	Adult, Pediatric	Neonatal
O <sub>2</sub> %	21–100%	21–100%
VT (Tidal Volume)	100–2000mL (Adult) 20–300mL (Pediatric)	2–300mL
f	1–80bpm	1–150bpm
f–SIMV	1–80bpm	1–150bpm
I:E	1:10 –4:1	1:10 –4:1
T–insp.	0.2–10s	0.20–10s
T–slope	0–2s	0–2s
T–high	0.2–30s	0.2–3s
T–low	0.2–30s	0.2–30s
T–pause	5%–60% , Off	5%–60% , Off
ΔP–insp.	5–60cmH <sub>2</sub> O	3–60cmH <sub>2</sub> O
ΔP–supp.	0–60cmH <sub>2</sub> O	0–60cmH <sub>2</sub> O
P–high	0–60cmH <sub>2</sub> O	0–60cmH <sub>2</sub> O
P–low	0–45cmH <sub>2</sub> O	0–25cmH <sub>2</sub> O
PEEP	1–45cmH <sub>2</sub> O , Off	1–25cmH <sub>2</sub> O , Off
Flow Trigger	0.5–15L/min	0.1–5L/min
Pressure Trigger	–10 –(–0.5)cmH <sub>2</sub> O	/
Exp%	10–85% , Auto	10–85% , Auto
CPAP	4–25cmH <sub>2</sub> O	/
EPAP	4–25cmH <sub>2</sub> O	/
IPAP	4–20cmH <sub>2</sub> O	/
Rise time	1–5	/
Ramp time	5–45min , Off	/
P–min (VS minimum IPAP)	5–30cmH <sub>2</sub> O	/
P–max (VS maximum IPAP)	6–40cmH <sub>2</sub> O	/
P–max (PPV maximum pressure limit)	5–40cmH <sub>2</sub> O	/
V–max (PPV maximum volume limit)	200–3500mL	/
E–max	0–100cmH <sub>2</sub> O/L	/
R–max	0–50cmH <sub>2</sub> O/L/s	/
PPV%	0–100%	/

## Synchronized Tube Resistance Compliance

Specifications	
Tube Type	ET Tube, Trach Tube, Disable STRC
Tube I.D.	Adult: 5.0–12.0mm Pediatric: 2.5–8.0mm
Compensate	0–100%
Expiration Compensation Switch	On, Off

## Monitored Parameters

Numeric		
Paw	Vte	C–dyn.
P–peak	VTi	C–stat.
P–plat.	VTe–spn.	RC–exp.
P–mean	VTe/IBW	WOB
PEEP	FiO <sub>2</sub>	RSBI
PIP	f	Pt.–trig.
EPAP	f–total	Pt.–leak
MV	I:E	Tot.–leak
MV–leak	Re	Continuous Flow (O <sub>2</sub> Therapy)
MV–spn.	Ri	

Real Time Graphics	
Pressure–time Waveform	Pressure–volume Loop
Flow–time Waveform	Flow–time Loop
Volume–time Waveform	Pressure–flow Loop

## Alarm Settings



Specifications	Type	Adult	Pediatric	Neonatal
Tidal Volume	High	110–4000mL, Off	25–600mL, Off	4–600mL, Off
	Low	50–4000ml, Off	10–600mL, Off	1–590mL, Off
Minute Volume	High	0.2–100.0L/min	0.2–60.0L/min	0.12–50.0L/min
	Low	0.1–50.0L/min	0.1–30.0L/min	0.02–30.0L/min
Airway Pressure	High	10–65cmH <sub>2</sub> O	10–65cmH <sub>2</sub> O	10–65cmH <sub>2</sub> O
	Low	10–63cmH <sub>2</sub> O , Off	10–63cmH <sub>2</sub> O , Off	10–63cmH <sub>2</sub> O , Off
Frequency	High	1– 90bpm , Off	1– 90bpm , Off	1~160bpm , Off
	Low	1– 88bpm , Off	1– 88bpm , Off	1~158bpm , Off
O <sub>2</sub> Concentration	High	20–100%	20–100%	20–100%
	Low	18–98%	18–98%	18–98%
Apnea Alarm Time	Low	5–60s	5–60s	5–60s

## Power & Battery Backup

Specifications	
External AC Power Supply Input Voltage	100–240V
Input Frequency	50/60Hz
Input Current	2.5A Max
Fuse	T3.15AH/250V
Number of Batteries	One or Two (Optional)
Battery Type	Build–in Lithium–ion Battery, 14.4VDC, 6900mAh
Battery Running Time	3 hours (1 Qty Battery)
	6 hours (2 Qty Battery)

## Physical Specifications

Specifications	
Dimensions(L*W*H)	310mm * 327mm* 493mm ( main unit )
	664mm * 600mm * 1520mm (with trolley )
Weight	Approximately 12.5kg ( main unit ) , Approximately 34.5kg (with trolley )

## Display

Specifications	
Display Size	15 inch–TFT Touch Screen
Display Resolution (H) x (V)	1080 * 1920pixels
Brightness	Adjustable

## O<sub>2</sub> Therapy

Specifications	O <sub>2</sub> %	Flow
Controlled Parameters	21–100% (Increments of 1%)	4–60L/min
Controlled Accuracy	± (3vol.% +1% of Setting)	± (2L/min+10% of Setting) (BTSP)

## Trend & Record

Specifications	
Type	Tabular, Graphic
Length	72 hours
Content	Monitor Parameters
Max Log	20000
Screen Capture	500

## Gas Supply

Specifications	
Gas Supply	Medical–grade Oxygen
Pipe Connector	NIST or DISS
Gas Supply Pressure	280–600kPa