

|                      |                                                    |
|----------------------|----------------------------------------------------|
| 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)<br>6 hours (2 Qty Battery) |

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\*

\*Only available on RV200

iHope® RV Ventilator  
DATASHEET

RV200 / RV100



Physical Specifications

Specifications

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Dimensions(L*W*H) | 336mm * 330mm * 345mm<br>664mm * 600mm * 1310mm (with Trolley)          |
| Weight            | Approximately 9.9kg ( Main Unit ) , Approximately 29.5kg (with Trolley) |

Display

Specifications

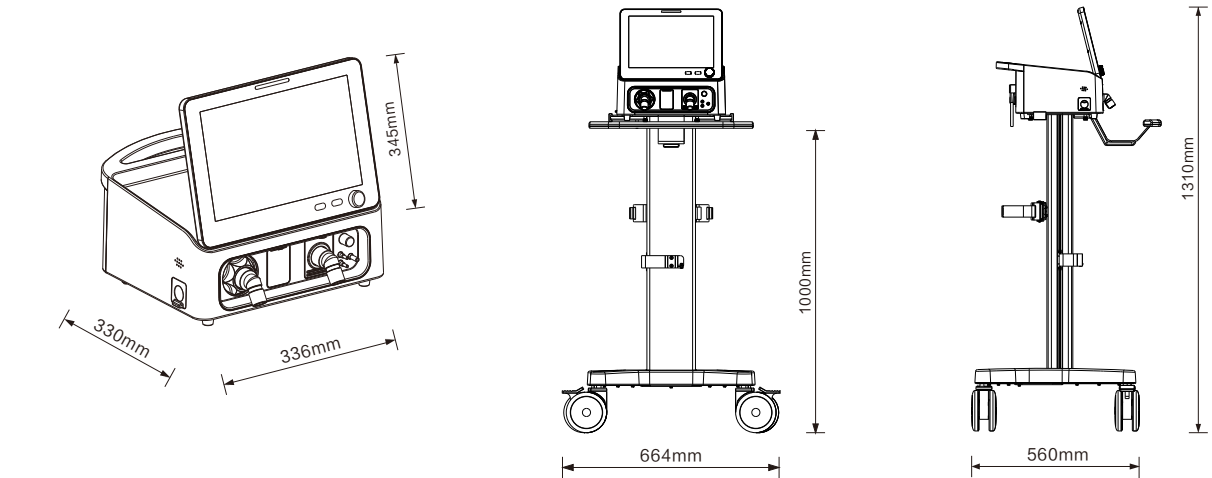
|                              |                           |
|------------------------------|---------------------------|
| Display Size                 | 12.1inch-TFT Touch Screen |
| Display Resolution (H) x (V) | 1280*800pixels            |
| Brightness                   | Adjustable                |

Ventilation Specifications

Specifications

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patient Type                  | Adult, Pediatric, Neonatal ( optional )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Invasive Ventilation Mode     | <ul style="list-style-type: none"><li>• VCV (Volume Control Ventilation)</li><li>• PCV (Pressure Control Ventilation)</li><li>• VSIMV (Volume Synchronized Intermittent Mandatory Ventilation)</li><li>• PSIMV (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>• V+SIMV (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>• PCV (Pressure Control Ventilation)</li><li>• CPAP/PSV (Continuous Positive Airway Pressure/Pressure Support Ventilation)</li><li>• BPAP *(Bilevel Positive Airway Pressure)</li><li>• APRV *(Airway Pressure Release Ventilation )</li><li>• PSIMV (Pressure Synchronized Intermittent Mandatory Ventilation)</li></ul>                                                                                                                                                                                                                                   |

\*Only available on RV200



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Controlled Parameters

| Specifications    | Adult, Pediatric                           | Neonatal                     |
|-------------------|--------------------------------------------|------------------------------|
| O <sub>2</sub> %  | 21–100%                                    | 21–100%                      |
| VT (Tidal Volume) | 100–2000mL (Adult)<br>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.          | 5–80cmH <sub>2</sub> O                     | 3–80cmH <sub>2</sub> O       |
| ΔP–supp.          | 0–80cmH <sub>2</sub> O                     | 0–80cmH <sub>2</sub> O       |
| P–high            | 0–80cmH <sub>2</sub> O                     | 0–80cmH <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                |

Apnea Ventilation

| Specifications |                                                               |
|----------------|---------------------------------------------------------------|
| VT–apnea       | Adult: 100–2000mL<br>Pediatric: 20–300mL<br>Neonatal: 2–300mL |
| ΔP–apnea       | 5–60cmH <sub>2</sub> O                                        |
| f–apnea        | 1–80bpm                                                       |
| Apnea T–insp.  | 0.2–10s                                                       |

Sigh

| Specifications |                                |
|----------------|--------------------------------|
| Sigh Switch    | On, Off                        |
| Interval       | 20s–180min                     |
| Cycles Sigh    | 1–20                           |
| Δ int.PEEP     | 0– 45 cmH <sub>2</sub> O , Off |

Synchronized Tube Resistance Compliance

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

Monitored Parameters

| Numeric |                  |         |
|---------|------------------|---------|
| Paw     | Vte              | Ri      |
| P–peak  | VTi              | C–dyn.  |
| P–plat. | VTe–spn.         | C–stat. |
| P–mean  | VTe/IBW          | RC–exp. |
| PEEP    | FiO <sub>2</sub> | WOB     |

|         |         |                                          |
|---------|---------|------------------------------------------|
| MV      | f–total | RSBI                                     |
| MV–leak | I:E     | Continuous Flow (O <sub>2</sub> Therapy) |
| MV–spn. | Re      |                                          |

| 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 | Off , 10–63cmH <sub>2</sub> O | Off , 10–63cmH <sub>2</sub> O |
| 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                         |

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) (BTPS) |

Trend & Record

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

Environmental Specifications

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

Gas Supply

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

Power & Battery Backup

| Specifications                         |          |
|----------------------------------------|----------|
| External AC Power Supply Input Voltage | 100–240V |
| Input Frequency                        | 50/60Hz  |
| Input Current                          | 2.5A Max |