



## G3 B30VT

G3 B30VT is a bi-level device with S/T mode and target tidal volume feature for patients with respiratory insufficiency.





## Clinical Results

The following recommendations pertain to adult and paediatric patients with ARDS who are treated with non-invasive or high-flow oxygen systems.

High-flow nasal oxygen (HFNO) should be used only in selected patients with hypoxemic respiratory failure.

Non-invasive ventilation (NIV) should be used only in selected patients with hypoxemic respiratory failure.

Patients treated with either HFNO or NIV should be closely monitored for clinical deterioration.

--Reference *Clinical management of severe acute respiratory infection (SARI) when COVID-19 disease is suspected*

Treatment of severe and critical cases:

a. Treatment principle:

Based on symptomatic treatment, actively prevent complications, treat basic diseases, prevent secondary infections, and provide organ function support in a timely manner

b. Respiratory support:

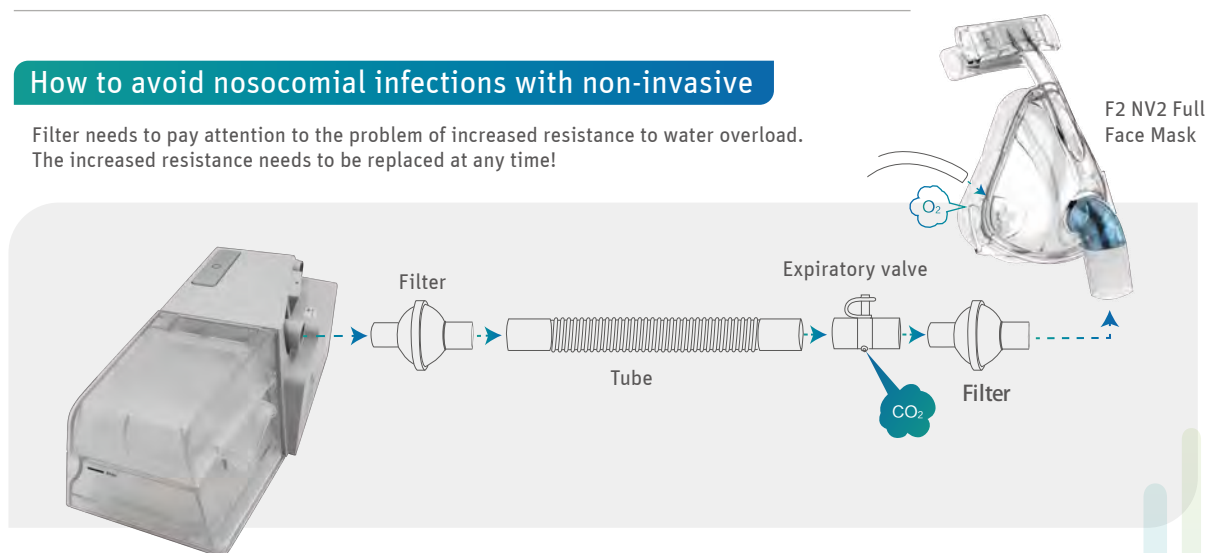
(a) Oxygen therapy: Severe patients should receive nasal cannula or mask to inhale oxygen and evaluate in time whether respiratory distress and / or hypoxemia is relieved.

(b) High-flow nasal cannula oxygen therapy or non -invasive mechanical ventilation: When patients have respiratory distress and / or hypoxemia cannot be relieved after receiving standard oxygen therapy, high -flow can be considered Nasal catheter oxygen therapy or non-invasive ventilation. If the condition does not improve or worsens within a short time (1 to 2 hours ), tracheal intubation and invasive mechanical ventilation should be performed in time.

-- Reference *Diagnosis and treatment of pneumonitis for a new coronavirus infection (Trial Version 7)*

### How to avoid nosocomial infections with non-invasive

Filter needs to pay attention to the problem of increased resistance to water overload.  
The increased resistance needs to be replaced at any time!



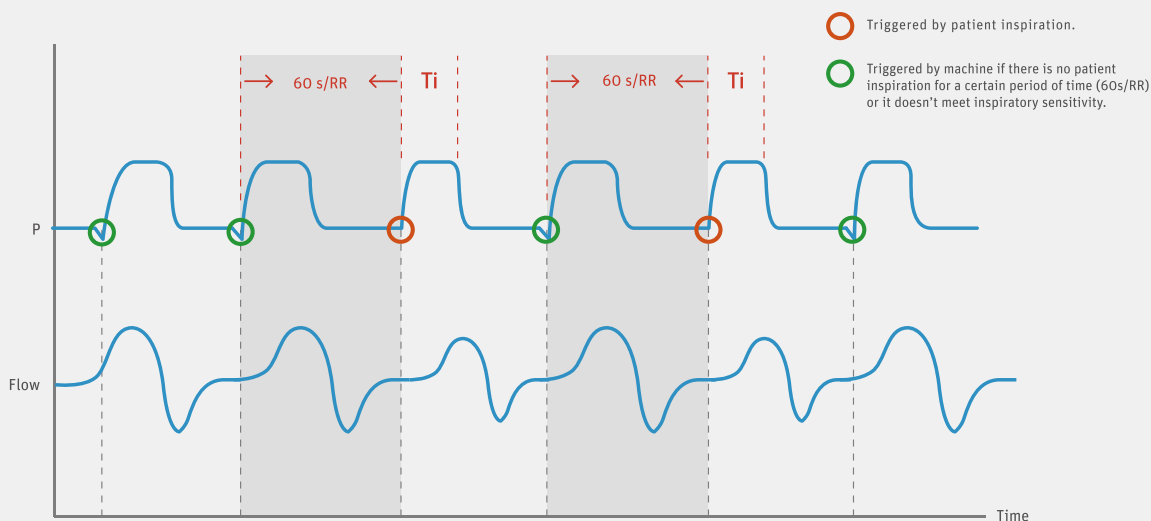
G3 B30VT Non-invasive ventilator with humidifier

-- Reference *Chinese Journal of Respiratory and Critical Care medicine, Feb. 2020, Vol. 19, No. 2*

# Efficiencies in Therapy

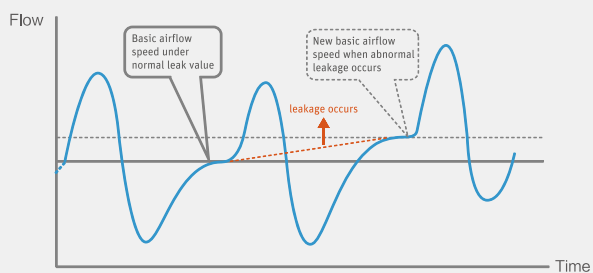
## S/T Mode

Machine complies with patient breathing. However, if there is no inhalation for a certain period of time, the machine will give a forced ventilation to ensure the minimum ventilation.



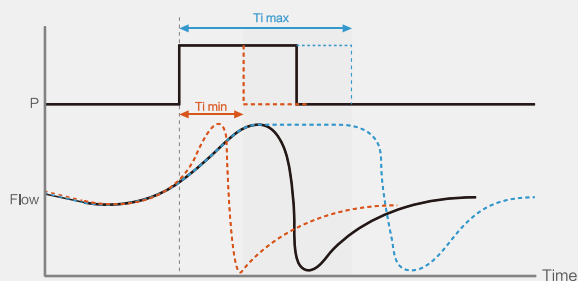
## Auto Leak Compensation

The machine detects the leaks during treatment in real time and adjusts the baseline to ensure correct triggering and related functions.



## Inspiratory time control

$T_{i \min}$  and  $T_{i \max}$  could be set independently, avoiding insufficient ventilation due to short inspiratory time. At the meantime, cases can be prevented where expiratory sensitivity is unable to meet due to large leaks.



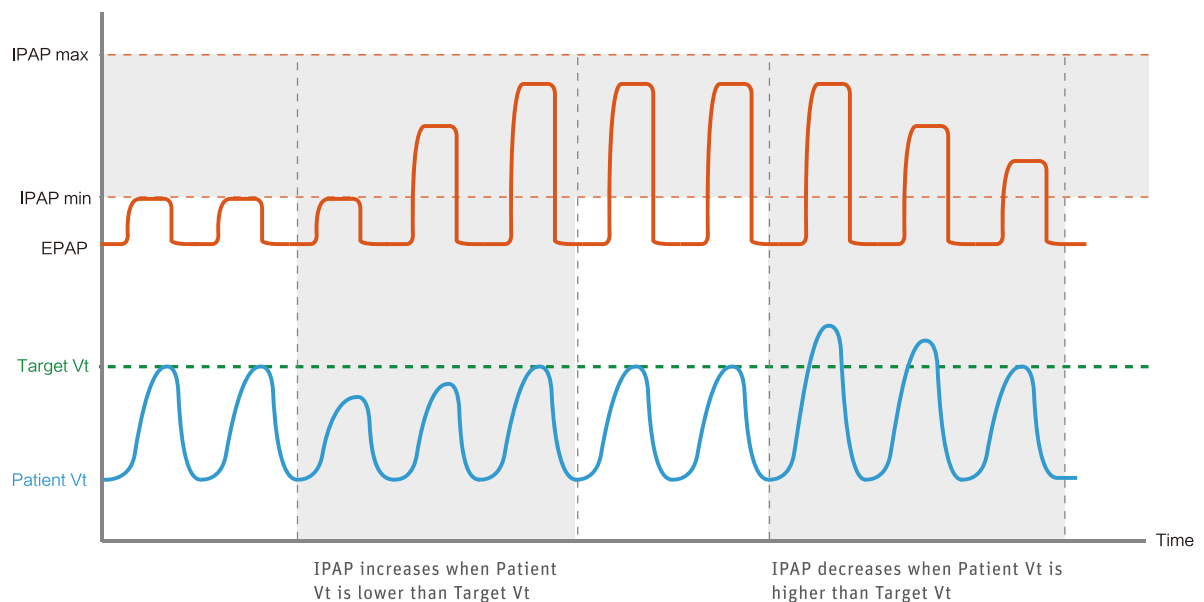


## Target Tidal Volume Function

Optimize IPAP according to mean Vt of last 5 breathings and prescribed Target Vt. Larger difference between mean Vt and target Vt takes more evident adjustment in IPAP.

- Inspiratory pressure is between IPAP min and IPAP max.
- Larger difference between mean Vt and target Vt takes more evident adjustment in IPAP.
- Patient Vt is the mean of Vt values from patient's last 5 breathings.

Height (m)	Ideal Weight (kg) (BMI=20)	Target Vt (mL) (8 mL/kg)	Target Vt (mL) (10 mL/kg)
1.50	45	360	450
1.55	48	380	480
1.60	51	410	510
1.65	54	440	540
1.70	58	460	580
1.75	61	490	610
1.80	65	520	650
1.85	68	550	690
1.90	72	580	720

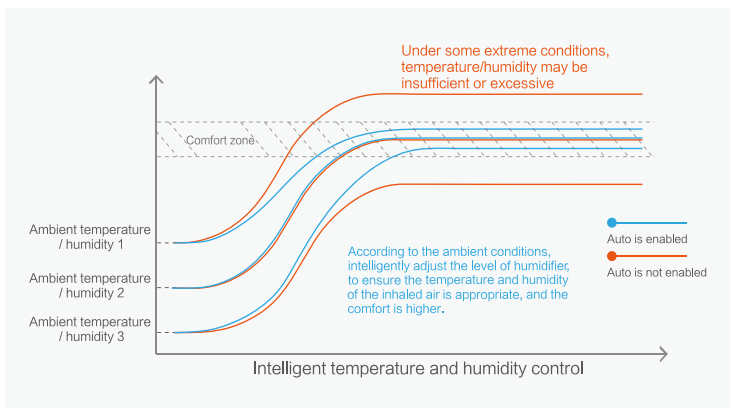
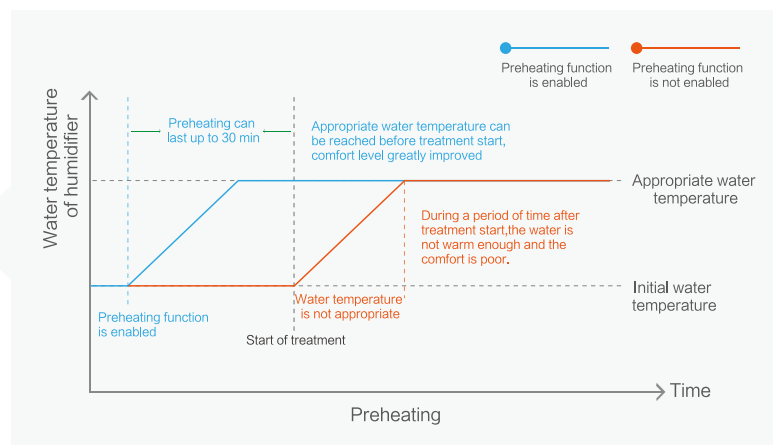




# Intelligent comfort features

## Pre-heat

G3 B30VT has a pre-heat feature, to warm your humidifier water up for ultimate comfort during cold, dry weather.



## Intelligent Auto Humidity control

Intelligent Auto Humidity control allows G3 B30VT maximum moisture while ensuring rain out in the tubing is not an issue.

## Inspiratory / Expiratory sensitivity

8 grades of I Sens and E Sens optimize the compliance of the device with the patient.



# Ultra modern design with a user friendly interface



All new humidifier design keeps the G3 B30VT compact and attractive.

Innovative PUSH water chamber is simple to use.

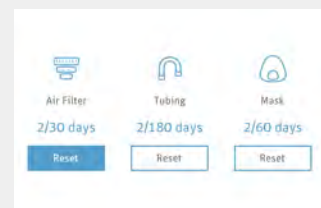


## Humanized UI Design



## Accessories replacement reminder

Accessories replacement reminder and reminder cycle can be set for mask, air tubing and air filter, so that the consumables can be replaced regularly in time to ensure a better therapy effect.



Therapy	Comfort	Alarm	Maintenance
Alert Log			
Low Pressure	4.0 cmH <sub>2</sub> O		
High Pressure	30.0 cmH <sub>2</sub> O		
Low RR	6 bpm		

Alarms to make therapy reliable Various visual and auditory alarming - Leak, High/Low RR, High/Low Pressure, Low Minute Ventilation, Power Failure, etc.

# Specifications

## Model Comparison

G3 B30VT	IPAP: 4 - 30 hPa EPAP: 4 - 25 hPa CPAP mode: 4 - 20 hPa	3.5-inch	CPAP, S, T, S/T
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### Device Size

Dimensions (L x W x H): 265 mm × 145 mm × 114 mm

Weight: 1.7 kg

Water capacity: To maximum fill line 360 mL

### Heated Humidifier

Humidifier Settings: Off, 1 to 5, Auto (95°F to 154.4°F / 35°C to 68°C)

Humidifier Output: No less than 15 mg H<sub>2</sub>O/L

### Sound Pressure Level

< 26 dB, when the device is working at the pressure of 10 hPa.

### Data Storage

On board: Summary data, all the time;

Detailed airflow data, 1 day.

SD card: Summary data, all the time;

Detailed airflow data, 546 hours.

### Key Parameters

Target Vt: On / Off

150~1500 mL

I Sens.: 1~8

E Sens.: 1~8

Rise Time: 1~4

Res Rate:

3~40 BPM

Ti: 0.3-3.0s

