



SAGICO CPAP NON-INVASIVE VENTILATION

HS CODE FOR EXPORT AND TARIFS: 9019200000

SAGICO CPAP Non-Invasive Ventilation Specifications



**Model: SAGICO CPAP
NON-INVASIVE VENTILATION
APPLICATIONS**

DIRECT FROM SAGICO USA

SAGICO CPAP NON-INVASIVE VENTILATION



The SAGICO V20 Ventilator was designed by engineers in the USA for today's ICU Specifications and ships direct from the USA

SPECIFICATIONS

For adult patients with ARDS, hypoventilation syndrome, for bi-level non-invasive ventilation in a hospital or at home.

Main Function

- Different treatment options can be provided according to patients' needs, from CPAP to S, T, S/T, VGPS five modes
- Adjustable trigger sensitivity
- Real-time monitoring and recording of blood oxygen saturation
- Alarm function
- Record function (SD card)
- Maximum leak compensation function. 60L/min
- Waveform display in screen: Time & pressure, time & flow
- Medical use separate humidifier, better humidification and heating
- With Trolley, easy to move the device



Key Technical Parameters

- Working mode: CPAP, S, T, ST, VGPS
- Ventilation parameters:
 - Inspiratory pressure: 4-30 cmH₂O (0.5 cmH₂O interval)
 - Expiratory pressure: 4-30 cmH₂O (0.5 cmH₂O interval)
 - Treatment pressure: 4-20 cmH₂O (in CPAP mode, 0.5 cmH₂O interval)
 - Delayed boost: 0-45 minutes (interval of 5 minutes)
 - Breathing frequency: 5-50 times/minute (interval 1 time/minute)
 - Breathing ratio: 10-70% (interval of 1%)
- VGPS (same with AVAPS, can set target tidal volume) mode: 3.1
 - Maximum IPAP value adjustable range: 4-30 cmH₂O
 - Adjustable range of minimum IPAP value: 4-30 cmH₂O
- Display range of monitoring setting parameters:
 - Respiratory waveform can be displayed
 - Current mode: CPAP, S, T, ST, VGPS
 - Inspiratory pressure: 4-30 cmH₂O
 - Expiratory pressure: 4-30 cmH₂O
 - Breathing frequency: 5-50 times/minute
 - Breathing ratio: 10-70%
 - Air leakage: 20-99.9lpm
 - Tidal volume: 50-1500ml
 - Minute ventilation: 0-50lpm
 - Blood oxygen saturation: 70-100%
 - Pulse rate: 25-250bpm
 - Delay boost: 0-45 minutes
- Rise time: 1-5 steps (1 step interval, 1 step rises fastest, 5 steps rises most slowly)
- Inhalation sensitivity: 1-5 steps (1 step interval, 1st step triggers fastest, 5th step 1st step triggers slowest)
- Exhalation sensitivity: 1-5 (1 interval, the 1st trigger is the fastest, 5th and 1st the slowest)
- Tidal volume: 50-1500ml (effective in VGPS mode, interval 50ml)
- EPAP value adjustable range: 4-30 cmH₂O
- Target Tidal Volume: 50-1500ml
- 5. Alarm items:
 - » High pressure sound prompt: Turn on/off sound prompt
 - » Low minute ventilation sound prompt: Turn on/off sound prompt, can be set to 1-10L (interval 1L)
 - » Air leakage sound prompt: On/off
 - » Power off sound prompt: On/off
 - » Choking voice prompt: On/off, choking time can be set to 10-40 seconds (interval of 5 seconds)
 - » Low Tidal Volume Sound Prompt: On/off, Set Tidal Volume Value Range 50-500ml (Interval 50ml)

TECHNICAL SPECIFICATIONS		
Items	Specifies	
Power	Power by adapter (Model: BJE1M-0080-N608) Input: 100-240VAC($\pm 100\%$), 50/60Hz, 1.8Amax Output: 24V DC, 3.33A	
Environment conditions	Operating Temperature	Operate: $+5^{\circ}\text{C}\sim 35^{\circ}\text{C}$ ($+41^{\circ}\text{F}\sim 95^{\circ}\text{F}$), (non-condensation) Transport: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$ ($+4^{\circ}\text{F}\sim 158^{\circ}\text{F}$) Storage: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$ ($+4^{\circ}\text{F}\sim 158^{\circ}\text{F}$) Deliver: $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$ ($+4^{\circ}\text{F}\sim 158^{\circ}\text{F}$) Atmospheric pressure range: 700hPa~1060hPa Altitude: $\leq 3000\text{m}$
	Operating Humidity	Operate: Relative humidity 15%-90% Transport: Relative humidity 15%-90% Storage: Relative humidity 15%-90%
Protection class	IP21, Class II, type BF applied part (mask)	
Mode operation	Continuous operation	
Maximum single fault steady pressure	Device will shut down in the presence of a single fault if the steady state pressure exceeds: 40 cmH ₂ O	
Sound	Sound Pressure Level	Sound pressure level measured according to ISO 80601-2-70:2015 (CPAP mode) BreathCare PAP $\leq 35\text{dB}$ (A)
	Sound Power Level	Sound power level measured according to ISO 80601-2-70:2015 (CPAP mode) BreathCare PAP $\leq 43\text{dB}$ (A)
Physical properties	Dimensions (length x width x height)	285mm x 155mm x 125mm (12.2" x 6.1" x 4.9")
	Weight	About 1500 g
	Air tube	Plastic hose, 1.8m
	Maximum volume of water tank	260 \pm 10mL
	Material of water tank	PC, Injection molded plastic, stainless steel and silicone seal
	Air outlet	22mm (complies with ISO 5356-1:2015)
Temperature	Maximum temperature of heater plate	55 $^{\circ}\text{C}$ (131 $^{\circ}\text{F}$) ($\pm 4^{\circ}\text{C}$)
	Cut-out	110 $^{\circ}\text{C}$ (if it damage, return to manufacture)
	Maximum gas temperature	$\leq 41^{\circ}\text{C}$
Air filter	Material: Polyester non-woven fiber	Average arrestance: $\geq 85\%$ for~2.5 micron dust
IPAP (S, T, ST, VGPS)	4-20 cmH ₂ O (suit for YH-820), $\pm(2\%$ of the full scale reading +4% of the actual reading) 4-25 cmH ₂ O (suit for YH-825), $\pm(2\%$ of the full scale reading +4% of the actual reading) 4-30 cmH ₂ O (suit for YH-830), $\pm(2\%$ of the full scale reading +4% of the actual reading)	
EPAP (S, T, ST, VGPS)	4-20 cmH ₂ O (suit for YH-820), $\pm(2\%$ of the full scale reading +4% of the actual reading) 4-25 cmH ₂ O (suit for YH-825), $\pm(2\%$ of the full scale reading +4% of the actual reading) 4-30 cmH ₂ O (suit for YH-830), $\pm(2\%$ of the full scale reading +4% of the actual reading)	
Therapy setting (CPAP)	4-20 cmH ₂ O (suit for YH-820), $\pm(2\%$ of the full scale reading +4% of the actual reading)	
Mode	CPAP, S, ST, T, VGPS, (suit for YH-830, YH-825, YH-830)	
BPM	5-50bpm adjustable, step is 1bpm	
Slope	1-5 level adjustable	



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Trigger	1-5 level adjustable					
Cycle	1-5 level adjustable					
IE ratio	10-70% adjustable					
Ramp	0-45min					
Tidal volume	50-150ml (only for VGPS mode)					
Maximum flow	150 LPM					
The BreathCare PAP performance at set pressure is shown below:						
Output flow		Test pressures				
		4	10	17	24	30
	Measured pressure at the PATIENT-CONNECTION PORT (Pa)	2.76	8.81	16.05	23.20	29.25
	Average flow at the PATIENT-CONNECTION PORT (l/min)	70	80	85	85	80
Humidification system	Pressure drop	Flowrate (l/min)			Pressure drop (cmH ₂ O)	
		30			0.18	
		60			1.02	
		90			2.34	
	Gas leakage at the maximum operating pressure	<1 l/min				
Pneumatic flow path						
<pre> graph LR Atmosphere --> Filter Filter --> Blower Blower --> Air_tube[Air tube] Air_tube --> Mask Pressure_sensor[Pressure sensor] --- Air_tube Leak[Leak] --- Air_tube </pre>						
General	The patient is an intended operator. The operator needs to be adult who have basic education to operate this PAP.					
Displayed values	Value	Range	Accuracy			
	Tidal volume (VT)	50-1500ml	±50ml or ±25% of reading whichever is greater			
	Leak volume	20~99.9l/mim	±50ml or ±25% of reading whichever is greater			
	Minute volume (MV)	0~50l/mim	±20%			
	Respiratory Ratio (I/E)	10~70%	±20%			
	Respiratory Rate (BPM)	5~50bpm	±2bpm			
Pressure accuracy	Maximum static pressure variation at 10 cmH ₂ O according to ISO 80601-270:2015 ±(2% of the full scale reading +4% of the actual reading)					
	Maximum dynamic pressure variation according to ISO 80601-270:2015 (CPAP mode)					
	Pressure (cmH ₂ O)	10bpm	15bpm	20bpm		
	4	0.6	0.9	1.1		
	8	1.0	1.2	1.4		
	12	1.2	1.4	1.6		
	16	1.4	1.6	1.8		
	20	1.6	2.0	2.3		

Maximum limited pressure	Maximum dynamic pressure variation according to ISO 80601-270:2015 (S mode) $\pm(2\%$ of the full scale reading +4% of the actual reading)	
	The maximum limited pressure, 30 cmH ₂ O under normal use, 40 cmH ₂ O under single fault condition	
Expected service life	Device (excluding accessories)	5 years
	Water tank	90 days
	Air tube	90 days
Number of Cycles	2000	

SYMBOLS

The following symbols may appear on the product or packaging:

Symbol	Meaning	Symbol	Meaning
	Follow instructions for use		Press to start/stop therapy
	Caution		Temperature limitation for storage and transport
	Manufacturer		Type BF applied part
	Date manufacture		Class II equipment
	Serial number		Maximum water level
	Prescription only		Minimum water level
	Warning: Hot surface		European Authorized Representative
	Environmental information (EU directive 2012/19/EE Waste Electrical and Electronic Equipment(WEEE))		Protected against finger sized objects and against dripping water on the surface of the device





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TECHNICAL DESCRIPTION

1. Disposal statement

Emission test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/flicker emissions IEC61000-3-3	Complies

2. Compliance information for immunity test

Immunity test	Compliance level
Electrostatic discharge (ESD) IEC61000-4-2	±8kV contact ±15kV air
Electrical fast transient/burst IEC61000-4-4	±2kV for power supply lines
Surge IEC61000-4-5	±1kV differential mode
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	<5% UT (>95 dip in UT) for 0.5 cycle 40% UT (60 dip in UT) for 5 cycle 70% UT (30 dip in UT) for 25 cycle <5% UT (>95 dip in UT) for 5 sec
Power frequency (50 Hz) magnetic field IEC61000-4-8	30A/m
Radiated RF EM fields	10 V/m 80 MHz-2,7 GHz 80% AM at 1 kHz
Conducted disturbances induced by RF fields	3 V 0, 15 MHz-80MHz 6 V in ISM and amateur radio bands between 0, 15 MHz and 80 MHz 80% AM at 1 kHz

NOTE: UT is the a.c mains voltage prior to application of the test level.

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band ^{a)}	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380-390	TETRA 400	Pulse modulation ^{b)} 18 Hz	1,8	0,3	27
450	430-470	GMRS 4 46060, FRS	FM ^{c)} ■ 5 kHz deviation 1 kHz sine	2	0,3	28
710	704-787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	2	0,3	28
870						
930						
1 720	1 700-1 990	GSM 1800, CDMA 1900 GM 1900, DECT, LTE Band 1, 3, 4, 25, UMTS	Pulse modulation ^{b)} 217 Hz	2	0,3	28
1 845						
1 970						

Test frequency (MHz)	Band ^{a)}	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	Immunity test level (V/m)
2 450	2 400-2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0,3	28
5 240	5 100-5 800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
5 500						
5 785						

NOTE: If necessary to achieve the Immunity Test Level, the distance between the transmitting antenna and the Me Equipment or Me System may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

^{a)} For some services, only the uplink frequencies are included.

^{b)} The carrier shall be modulated using a 50% duty cycle square wave signal.

^{c)} As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.





About SAGICO

At SAGICO, we promote the efficiency needed to bridge the divide between cost containment and achieving the primary focus of clinicians. Because patient care should be at the forefront of clinical and medical professionals, not procurement of supplies. Often times, at different stages in the supply chain flow many departments tend to be focused on their own goal. Providers may want to use a specific product because they were trained with it, whereas hospital executives aim to purchase the most affordable quality items. The hospital and facilities procurement services offered at SAGICO begins with getting all hospital departments on the same page. This is a key strategy for optimizing healthcare supply chain management. In the era of value-based care, healthcare organizations are focused on reducing redundancies and eliminating waste, but providers also need to work together to effectively reduce costs and boost performance. The team from SAGICO promotes efficiency in the healthcare supply chain, so facilities can create substantial cost-reducing opportunities across their organization. At SAGICO we strive to ensure all products meet or exceed all regulatory controls. SAGICO was founded by special operations capable veterans of the United States Marine Corps (USMC) and is a US Department of Veteran's Affairs (VA) verified Service Disabled Veteran Owned Small Business (SDVOSB) company. On the USA Government side of the business, we currently sell to the USA VA Hospitals, Military, Department of Defense and many other governmental agencies.

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