



HISTREAM BM120 is a Continuous Positive Airway Pressure (CPAP) device, providing breathing aid to patients with Acute Respiratory Distress Syndrome (ARDS), exhibited by many Covid-19 patients. It increases blood oxygen levels by pushing oxygen enriched air at a continuous pressure. Patients with early signs can benefit with this breathing aid reducing dependency on invasive mechanical Ventilation.

Biorad Medisys, a renowned Indian medical device company has manufactured this device at its ISO 13485 approved facility under strict quality controls.

Application

- Breathing aid to Patients with early stage respiratory distress due to Covid-19 infection.
- Breathing support device in treating hypoxaemia – snake bites, COPD, bronchitis, etc.

Features

- Can provide oxygen concentration of 30-95% over a range of flow rates.
- Range of flow rate from 10 LPM to 120 LPM is possible.
- Oxygen pressure is dictated by PEEP valve on the patient's mask.
- Separate knobs to control Flow and Oxygen levels.

Benefits

- Attend patients in pre-ICU setup requiring respiratory assistance
- Non Invasive, Easy to assemble and operate
- Designed to optimize oxygen consumption and maximize savings in operating cost
- Portable Mechanical Device with negligible maintenance requirements
- Reduce IVM dependency in treating patients
- Limited training and expertise required for operating the device

Under the licensing agreement with University College London and Mercedes AMG High Performance Powertrains Ltd, in the UK.

Technical Specifications

Risk classification

Category **Class B**

Operating range

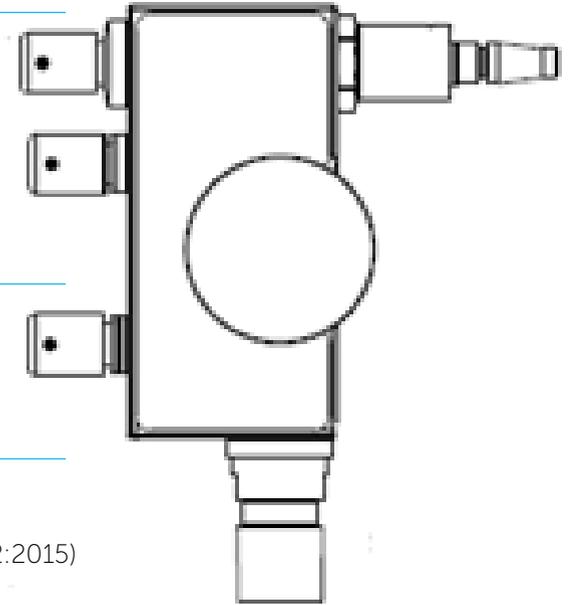
Ambient temperature	0-40 °C
Humidity	0-95% (RH)
Oxygen Fraction,	FiO2 % 30-95%
Patient flow rate	5-60-120 LPM
CPAP (PEEP valve)	5-20cmH2O

Dimension (without packing)

H x W x D	158 x 141 x 48mm (Approx.)
Weight	495gm (Approx.)

Connections

Oxygen inlet connection	DISS 1240 Male probe (BS 5682:2015)
Oxygen supply pressure	4 +/- 0.25 bars
Oxygen outlet connection	22mm male taper (BS 4356:2015)



Warning



- To be installed and operated by physicians or trained medical personnel only.
 - To be used with the supplied patient circuit only
 - Do not use this device on confirmed or suspected COVID-19 patients without appropriate protection (PPE).
 - All hospitals must ensure that input oxygen pressure is maintained as per specifications.
 - Switch off the device, if not in use to avoid wasting oxygen.
 - Altering the CPAP is done by changing the mask outlet PEEP valve (Not by changing flow).
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Suggested Initial CPAP setting :

PEEP 5/10 cmH2O + 60% oxygen (FiO2) targeting SpO2 of 88-92% via pulse-oximeter. After the CPAP is applied, the patient should be reviewed over 30-60 minutes. If the patient responds positively, close observation and monitoring must continue for a further six hours to ensure no decline occurs, with careful monitoring continuing thereafter.

HiStream BM120 CPAP Flow Generator

Patient Circuit: Upper System (Provided as kit)	Patient Circuit: Lower System (Provided as kit)
T-piece connector, 22F-22M/15F-22F (2nos)	Breathing circuit tube, smooth bore 1.8m, 22M
Bacterial and viral filter, 22F-22M (Gas Supply Filter)	Twin ported mask, medium-large
Straight connector, 22F-22F	Mask harness, medium-large
Straight connector, 22M-30M	Patient PEEP valve, 10 cmH ₂ O, 30F-30M
Safety PEEP valve, 20 cmH ₂ O, 30F-30M	Flow flag indicator, 30F-22F
	Bacterial and viral filter, 22F-22M (Exhalation Filter)
Spare Accessories (Optional)	
Bacterial and viral filter, 22F-22M	Patient PEEP valve, 5 cmH ₂ O, 30F-30M
Safety PEEP valve, 15 cmH ₂ O, 30F-30M	Flow Generator Holder
Twin ported mask, small	IV pole clamp + wing screw
Mask harness, small	Oxygen Analyzer mounting bracket
Oxygen Analyzer	

Patient flow circuit

