

CALIDUM-4

**ENSURE THE
CORRECT
TEMPERATURE**
OF THE MECHANICAL
VENTILATION

**NEONATAL
PEDIATRIC
ADULTS**



HEATED HUMIDIFIER

Inspiro CALIDUM-4, a heated humidifier designed to heat and humidify the ventilatory flow delivered to patients undergoing invasive, non-invasive, or high-flow oxygen therapy. With its intelligent modes, Inspiro CALIDUM-4 controls and ensure the appropriate temperature for each ventilatory treatment, caring for patients which are ranging from neonates to adults. Additionally, the temperature and humidity sensors, combined with the heating circuit, provide stability in temperature and humidity control near the patient, ensuring greater comfort and safety

INNOVATIVE AND RELIABLE

- ✓ High-flow oxygen therapy, invasive and non-invasive;
- ✓ Reusable heated trachea with proximal sensor;
- ✓ Intelligent control of patient's temperature;
- ✓ Monitor through the color touch screen;
- ✓ Robust panel with innovative jar attachment;
- ✓ Servo-controlled with direct adjustable temperature;
- ✓ Safe, Dual voltage, Redundant sensor and alarms.



AIR/O₂ BLENDER

Specification	Range
Oxygen percentage	21% to 100%
Inlet source pressure *Do not use on a patient or with a lung ventilator outside this range	50 psi (350 kPa)
Output pressure of the applied gas	1,55 psi (107,325 kPa)
Maximum Input Flow of each gas (Air and O ₂)	100 l/min (LPM)
Alarm trigger range for Air inlet failure	Inlet pressures less than 21,75 psi (150 kPa)
	Inlet pressures greater than 79,77 psi (550 kPa)
Alarm trigger range for O ₂ inlet failure	Inlet pressures less than 21,75 psi (150 kPa)
	Inlet pressures greater than 79,77 psi (550 kPa)
Alarm intensity	Greater than 2 dB above a 55 dB background white noise
Reverse gas flow	Maximum 10 ml/h according to ISO 11195:2018



CALIDUM 4

Parameter	Range
Operating modes	Invasive, Mask, High Flow
Servo controlled temperature	27 to 37 °C (25 to 39 °C in tolerance)
Gas exit temperature	0 to 60 °C
Water temperature in the chamber	30 to 80 °C
Invasive mode temperature (category 1)	37 °C
Non-invasive mode temperature (category 2)	27 to 37 °C (25 to 39 °C in tolerance)
Humidity in Invasive mode (category 1)	33 to 44 mg/l
Humidity in Mask mode (category 2)	12 to 32 mg/l
Humidity in High Flow (category 2)	12 to 44 mg/l
Standby mode control	Identifies the absence of flow
Over temperature protection	Alarm and cut-off the heating at 42°C
Water leakage	Detection and Low humidity alert
Plate thermal protection	Mechanical heating cut-off relay
Plate monitoring	Redundant temperature sensors
Heating inoperative	Detection and warning of technical failure
Drain overflow water	Around and inside the heating plate
Dual voltage power supply	Compensated heating across the entire range
Acceptable water level	50 ml to 250 ml
Average operating duration	2 hours at 37°C and continuous flow of 60 L/min
Limited maximum pressure of the humidifier and accessories	125 cmH ₂ O (125 hPa)
Maximum operating pressure	125 cmH ₂ O (125 hPa)
Leak limit according to ISO 5367 *Units in BTPS	Adult: 70 ml/min
	Pediatric: 40 ml/min
	Neonatal: 30 ml/min
Invasive mode flow range	Adult / pediatric: 5 to 80 L/min Neonatal: 0,5 to 45 L/min
non-invasive mode flow range	Adult / pediatric: 5 to 80 L/min Neonatal: 0,5 to 45 L/min
High flow mode flow range	Adult / pediatric: 5 to 80 L/min Neonatal: 0,5 to 45 L/min

HEATED CIRCUIT

Parameter	Specification
Dimension	1400 mm x 22 mm
Interface	Easy magnetic connection to heating and temperature
Lifespan	30 sterilization cycles
Power	30 W



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