

InterActive™ Respiratory Humidifier

Specification sheet



Intended use

The InterActive respiratory humidifier is intended to heat and humidify respiratory gases in a hospital environment.

Available modes	Invasive	Nasal High Flow	Non-invasive	Manual
Chamber side temperature range	Pre-set to 37°C	Pre-set to 35°C	Pre-set to 31°C	31°C – 42°C Increments of 1°C
Patient side temperature range	Pre-set to 40°C	Pre-set to 38°C	Pre-set to 34°C	31°C – 40°C Increments of 1°C
Gas temperature display	Est. temperature at interface	Est. temp at interface	Est. temperature at interface	Patient probe temperature

Environmental	
Operating temperature	18°C to 26°C
Operating Relative Humidity	0% to 80%
Atmospheric pressure	0 to 2,000 m
Storage temperature	-18°C to 50°C
Storage Relative Humidity	0% to 80%

Electrical rating	
Supply voltage	220V AC—240V AC / 100V AC—120V AC (Variant dependant. Refer to product label).
Supply frequency	50-60 Hz
Power rating	350 VA
Heated wire power rating	100W
Fuse rating	4A

Dimensions	
Size	(h) 103 mm x (w) 153 mm x (d) 221 mm
Weight	2.8 kg

Classifications	
Protection class, electrical hazard	IEC 60601-1 Class II Medical Electrical Equipment.
IP classification	IPX1
Mode of operation	Continuous use
Sterilisation	Do not sterilise
Applied Parts	This Device uses Type BF Applied Parts. (Temperature Probes and Heated Wire Adapters)

Standards applied
InterActive complies with the following relevant standards: ISO 80601-2-74 ISO 60601-1

Performance	
Warm up period	45 minutes
Invasive mode	> 33mg/L @ flows between 2 and 70 L/min
Nasal High Flow	> 16mg/L @ flows between 2 and 70 L/min
Non-invasive mode	> 12mg/L @ flows between 2 and 120 L/min

Temperature measurement	
Display	°C
Range	25 to 45°C
Resolution	0.1°C
Accuracy	±1°C

Alarm	
Alarm volume	> 50 dbA

SD Card	
Type	Micro SD
Size	<32gb
Read speed	>10MB/s
Class	4





EMC compliance

Emission tests compliance levels

Mains terminal: CISPR16-2-1+A1
230 Vac at 50Hz
115 Vac at 60Hz

Harmonic Current Emissions: IEC61000-3-2
230 Vac at 50Hz
115 Vac at 60Hz

Electromagnetic radiation disturbances – Electric Field:
CISPR16-2-3

30 MHz to 1 GHz – Vertical – 230Vac 50Hz
30 MHz to 1 GHz – Horizontal – 230Vac 50Hz
30 MHz to 1 GHz – Vertical – 115Vac 60Hz
30 MHz to 1 GHz – Horizontal – 115Vac 60Hz

Voltage fluctuations and flicker: IEC61000-3-3
230 Vac at 50Hz

Immunity tests compliance levels

Electrostatic Discharge: IEC61000-4-2
Air discharge at 2kV, 4kV, 8kV and 15kV
Contact discharge at 8kV
Indirect discharge at 8kV

Surges: IEC61000-4-5
AC input 230Vac 50Hz and 115Vac 60Hz

Radiated RF Electromagnetic Fields: IEC61000-4-3
80 – 2700MHz in all planes

Conducted disturbances induced by RF fields: IEC61000-4-6
3 Vrms 230Vac 50Hz and 115Vac 60Hz

Proximity Fields from RF Wireless Equipment: IEC61000-4-3
230Vac 50Hz and 115 Vac 60Hz
TETRA 400 (380-390MHz)
GMRS 460 and FRS460 (430-470MHz)
LTE bands 13 and 17 (704-787 MHz)
GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE
Band 5 (800-960 MHz)
GSM 1800, CDMA 1900, DECT, LTE Bands 1, 3, 4 & 15,
UMTS (1700-1990 MHz)
Bluetooth, WLAN 802.11b/g/n, RFID 2450, LTE Band 7
(2400-2570MHz)
WLAN 802.11a/n (5100-5700 MHz)

Voltage dips and short interruptions: IEC61000-4-11
AC input 240Vac 50Hz
AC input 115Vac 60Hz

Electrical fast Transients and Bursts:
IEC61000-4-4
2kV AC input 230Vac 50Hz and 115Vac 60Hz

Power Frequency Magnetic Fields:
IEC61000-4-8
30 A/m 230Vac and 115Vac 50/60Hz

Interact with us



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The manufacturer Intersurgical Ltd is certified
to ISO 14001:2015, ISO 9001:2015,
ISO 13485:2016 and MDSAP

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