

8 Technical specifications for the medical device

8.1 Identification

Manufacturer	SATELEC®
Name of the medical device	NEWTRON® P5 Newtron® P5 B.LED

8.2 Control unit

Width (in mm)	156
Height (in mm)	102
Depth (in mm)	186
Weight (in g)	1 650 (with mains cord)
Ingress protection rating	IPX0

8.3 Ultrasonic generator

Supply voltage	100 VAC - 240 VAC
Power consumption	60 VA
Voltage supplied to handpiece	150 VAC
Output frequency	Minimum 28 kHz
Power setting range	1 to 20
Operating mode	Intermittent: 10 minutes ON / 5 minutes OFF
Type of leakage currents	BF
Electrical rating	1
Internal fuse not accessible to the user	Ref: FU1 / 1.5 AT - 125 V - SMD - Breaking capacity: 50 A
Fuse (mains connector)	2 x 1 AT / 230 VAC fuses - 5mm x 20mm - Breaking capacity: 35 A

8.4 Length of cords

Scaler handpiece cord (in mm)	>2 040
Control pedal cord (in mm)	>2 000

8.5 Irrigation

Water pressure at inlet	1 to 5 bars
Maximum water output flow at the end of the handpiece	80 ml/min to 100 ml/min at 5 input bars

8.6 Control pedal

Width (in mm)	70
Height (in mm)	30
Depth (in mm)	95
Weight (in g)	150

Ingress protection rating: IPX1

8.7 Environmental characteristics

Operating temperature	+10°C to +30°C
Storage temperature	-0°C to +60°C
Operating humidity	30 % to 75 %
Storage humidity	10 % to 70 %, including condensation
Atmospheric pressure	Between 800 hPa and 1060 hPa
Altitude	Less than or equal to 2000 metres

8.8 Environmental restrictions

Usage premises	Can be used at all medical premises. The medical device must not be used in an operating theatre, or outside.
Use in gas-filled atmosphere	The medical device is not designed for use in a type AP or APG gas-filled atmosphere or in the presence of anaesthetic gases.
Immersion	The must not be immersed.

8.9 Main performance characteristics

Ultrasonic vibrations of the tip or file fitted to the end of the conventional dental ultrasonic handpiece.

- Vibration frequency ≥ 28 kHz.
- Tip amplitude ≤ 200 μm .