9 Technical data

9.1 Weight/dimensions

9.1.1 Device Dimensions
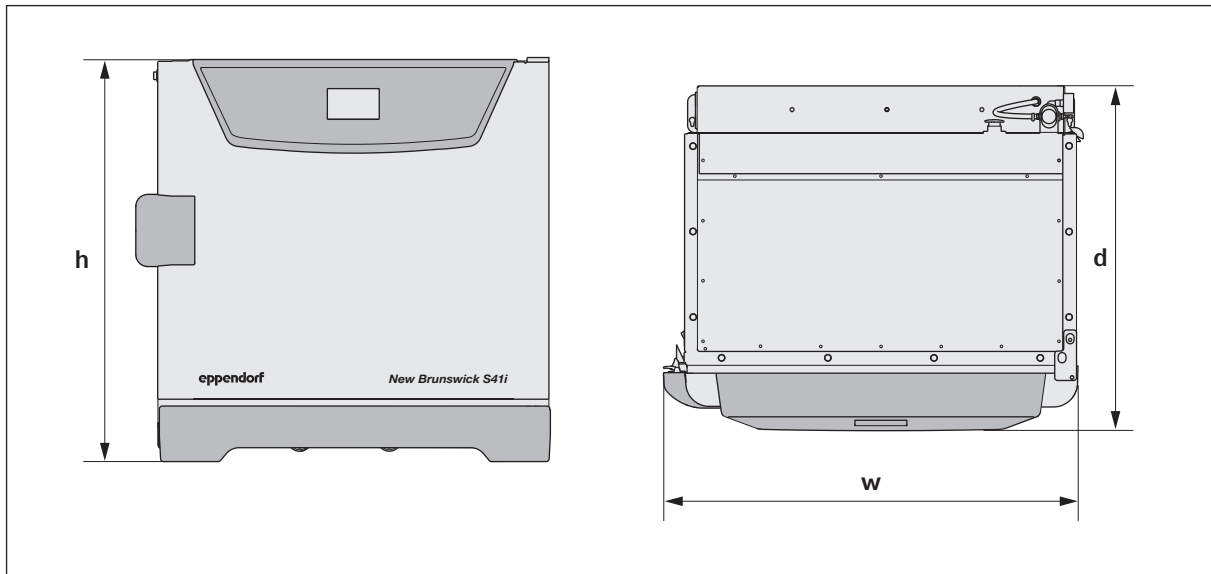
Height (h)	850 mm (33.5 in)
Width (w)	875 mm (34.4 in)
Depth (d)	730 mm (28.7 in)
Height (External, crated)	1185 mm (46.7 in)
Width (External, crated)	1000 mm (39.4 in)
Depth (External, crated)	875 mm (34.4 in), pallet included
Weight (crated)	192 kg (423 lb)
Weight (uncrated)	154 kg (340 lb), with standard features

9.1.2 Platform dimensions

Width	612 mm (24 in)
Depth	356 mm (14 in)

9.2   Power supply
9.2.1   Mains/electrical supply

Mains/power connection	120 V ±10 %, 50–60 Hz 220–240 V ±10 %, 50–60 Hz
Power consumption for 120 V	< 1800 VA
Power consumption for 220–240 V	< 1800 VA
Energy to maintain 37 °C	< 0.1 kWh
Overvoltage category	II (IEC 61010-1)
Protection class	I
Max. power consumption during normal application 120 V 220–240 V	 < 1300 VA < 1300 VA
Max. power consumption during high temperature disinfection 120 V 220–240 V	 < 1200 VA < 1200 VA

9.3   Ambient operating conditions

Ambient Temperature	15–28 °C
Storage Temperature	10–50 °C
Altitude limit	2000 m (2187 yd)
Relative humidity	20–80 %
Pollution degree	2

9.4   Application parameters
9.4.1   Speed

Speed (with 2.54 cm (1 in) orbit)	25–400 rpm
Speed (with two incubator shakers stacked)	25–250 rpm
Control accuracy	±1 % full scale

9.4.2 Temperature management

- Measurements of chamber and door temperature are taken by 6 RT (resistance temperature) curve-matched sensors with a sensitivity of 0.01 °C.
- The door heating element features an adjustable independent control.
- "Out of Limits" temperature protection system is independent of the microprocessor control.

Range	4 °C above ambient temperature to 50 °C
Control increment	0.1 °C
Accuracy	± 0.2 °C
Stability	± 0.1 °C at 37 °C
Uniformity	± 0.6 °C at ambient 20 °C – 25 °C
Uniformity in flask media	± 0.25 °C

If the ambient temperature is close to the programmed value, control settings may need adjusting. Consult Eppendorf Service for instructions.

9.4.3 CO$_2$ control

Solid-state infrared CO$_2$ sensor is operating independent of humidity. The device has a programmable, fully automatic zeroing function.

Range	0.2–20 %
Control increment	0.1 %
Stability	± 0.2 % at 5 % CO$_2$
Uniformity	± 0.1 %
Gas connections	inner diameter of 6.5 mm and outer diameter of 10 mm
Required gas pressure	0.05 MPa (0.5 bar/7.2 psi)

9.4.4 Relative humidity

The relative humidity is provided by evaporation of distilled water placed in 2 stainless steel trays at the bottom of the chamber.

Water tray capacity	2 × 250 mL
Humidity control	95 % at 37 °C

The relative humidity attained could vary in the range of 90 % ±5 % depending on ambient humidity level and other factors.