

3 Technical data

Description	Value
Instrument height	1140 mm; 44.9"
Instrument width	1290 mm; 50.8"
Instrument depth	580 mm; 22.9"
Instrument weight	approx. 170 kg; ~ 375 lbs
Required space	1290 x 580 mm; 50.8 x 22.9"
Power supply	187 - 253 V AC, 50/60 Hz Phase + Neutral + PE, the instrument is equipped with a CEE 32A plug.
Instrument power consumption	3.5 kVA
Instrument required line protection	30 – 32 A (inertial)
Sound pressure level	63 dBA
Protection class DIN 40050	IP20
Storage conditions	2 - 40°C; 36 - 104°F
Operating range (permissible ambient temperature)	15 - 30°C; 59 - 86°F
Recommended temperature range for reaching the specified performance	18–25°C; 64–77°F, maximum temperature gradient $\Delta T = 3^{\circ}\text{C/h}$ (5.4°F/h)
Atmospheric humidity	< 80% rel. (non-condensing)
Air quality	Free of corrosive components and high dust concentrations
Operation:	Max. 2000 m above mean sea level
Argon gas connection	
Inlet pressure during operation	6 - 8 bar (87 - 116 psi) (Data sheet) 7 bar (101 psi) recommended A maximum Ar inlet pressure of 8 bar (116 psi) must not be exceeded.
Quality	≥ 4.6 (99.996 %)
Consumption	≤ 25 L/min

Description	Value
Oxygen supply for auxiliary gas (optional; for organic applications only)	
Inlet pressure during operation	4.0 bar (58 psi)
Quality	≥ 4.5 (99.995 %)
Flow rate	The flow rate depends on the application.
Nitrogen for optical system (instead of argon, optional)	
Inlet pressure during operation	6–8 bar (87–116 psi) 7 bar (101 psi) recommended
Quality	≥ 5.0 (99.999 %)
Flow rate	0.5 L/min normal flushing rate 4 - 5 L/min, high flushing rate for rapid production of transparency in the UV range
Extraction (continuous)	
Plasma torch box (TI)	Depending on the ambient temperature 18 – 25 °C = 200 – 250 m ³ /h; 118 – 150 CFM > 25 °C = 250 – 300 m ³ /h; 150 – 177 CFM
Plasma torch box (SOP)	Depending on the ambient temperature 18 - 25°C = 120 - 200 m ³ /h; 71 - 118 CFM > 25°C = 150 - 230 m ³ /h; 88 - 136 CFM
Generator extraction or without extraction	200 - 250 m ³ /h; 118 - 150 CFM Or blowing into the room without obstruction