

AUTOMATED FREEZERS

SMARTFREEZER® EVO LAB

Model	SMARTFREEZER® EVO LAB	
	V 180.10	V 180.20
Storage capacity (n°)	21.300	12.700
Type of vial (ml)	0,5 / 1	2
Vial identification	Bar Code / Dot Code	
Speed to load and un-load (s/vial)	20	
External dimension (mm)	1460x890x1980 ⁽¹⁾	
Working temperature range (°C)	From -180 °C to -155 °C	
Dry System	Yes ⁽²⁾	
Refrigeration plant	Liquid nitrogen	
Supply voltage (V)	230Vac, 50Hz	
Absorbed power (VA)	500	
LN ₂ consumption (lt/day)	15 to 20 ⁽³⁾	
Temperature backup	Auto-backup ⁽⁴⁾	
Uninterruptible power supply	Yes	
Pneumatic backup system	Yes	
Remote alarm	Yes ⁽⁵⁾	
Ports	Ethernet RS485	

1) Cover on the top of the machine for external automation needed at installation. Height after installation is 2650 mm for v180.10, v180.20.

2) A device that produces dry air with a very low dew point.

3) This consumption value is related only to Smartfreezer® EVO LAB itself, this value doesn't take into consideration LN₂ losses due to customer pipeline or mobile cylinder sometimes used to refill Smartfreezer® EVO LAB.

4) Temperature can be kept for at least 48 hours without supplying liquid nitrogen.

5) Normally Closed/Normally Open dry contacts (230 Vac / 1A max).