

DATA SHEET
BASE UNITS

FreeLox



Features that make the difference

> Maximum ease of use

- Easy to read electronic level indicator
- Easy to adjust flow control valve
- Easy to remove condensation collector

> Simplified maintenance

- Safety valves calibrated in factory, no required adjustment
- Limited spare parts

> Enhanced safety

- Innovative filling connector:
 - To limit humidity and the risk of freezing
 - To avoid accidental liquid spray
 - To improve filling time

- 360° hand rail and handles

> Compatibility

- Cover with a universal shape to fit all portable units on the market*
- Universal cap for both CE and US connectors



Universal compatibility for all liquid oxygen portable units*

> Device presentation

- Trolley base available in option
- Designed to store liquid oxygen at -183°C
- Volumes of 20, 32 or 44L
- Pressurized tank (operating pressure of 1,35 bar)
- Flow ranges : 0,25/0,5/0,75/1/1,5/2/2,5/3/4/5/6
- Autonomy : 11 days for a 44L tank at 2L/min
- Evaporation rate <0,7L/day
- Vacuum 5 years warranty
- Medical Device 93/42/CEE
- Electronic level indicator with capacitive gauge
- Stainless steel, double-walled container with vacuum interspace

Vacuum interspace limits heating and therefore prevents excessive evaporation of oxygen from the liquid. FREELOX RESERVE units are equipped with an economizer that regulates the internal pressure and feeds excess evaporated gaseous oxygen back into the tank

* With compatible filling connector. US or CE

Used materials

- Polycarbonate
- Aluminium alloys
- PTFE
- Silicone
- Stainless steel
- Brass
- PCTFE

Storage conditions

- Ambient temperature : from -40°C to 70°C
- Relative humidity : from 0 to 95% without any Condensation
- Atmospheric pressure : from 700 to 1060 hPa

Operating conditions

- Ambient temperature : from +10°C to 40°C
- Relative humidity : from 30% to 75%
- Atmospheric pressure : from 700 to 1060 hPa

Liquid capacity	US Connexion	CE Connexion
20L	LF122701	LF109401*
32L	LF107201	LF105102*
44L	LF107300	LF105201*

*For some country only :
LF105102 : LF135200 or LF135700 or LF135101
LF105201 : LF135300 or LF135800 or LF105200

Technical characteristics	Unit	20L	32L	44L
Liquid capacity	L	19,8	31,3	43,3
Gaseous capacity	L	17000	27200	37400
Height	mm	677	817	957
Lenght	mm	430		
Width	mm	363		
Weight, empty	Kg	17,2	20,8	24,4
Weight, full	Kg	39,6	56,6	73,6
Operating pressure	bar	1,35		
Maximal pressure	bar	2		
Evaporation rate (liquid)	SLPD	<0,7		
Evaporation rate (gas)	SPLD	0,55	0,62	0,71
Normal Evaporation Rate (NER)	kg/Day	0,63	0,71	0,81
Average fill time (20°C)	min	<5	<8	<11
Flow control range	SLPM	0 to 6 ± 10%		
Flow settings	SLPM	0,25/0,5/0,75/1/1,5/2/2,5/3/4/5/6		
Primay valve	PSI	22		
Safety valve	PSI	30		

Primary valve ensures the working optimum pressure of the device and, the safety one prevents sudden pressure rises in addition to the primary, especially to ensure safety measures during the filling of the base unit.

Quality System
 Certified ISO 13485

MD 93/42/CEE
 GMED CE 0459

TPED 2010/35/UE
 APRAGAZ π 0029



Autonomy			
Flows (SLPM) +/- 10%	20L	32L	44L
0,25	25	40	50
0,5	19	30	38
0,75	12	22	28
1	10	15	20
1,5	7	10	14
2	5	7	11
2,5	4	6,5	8
3	3	5,5	7
4	2,5	4	5,5
5	2	3	4,5
6	1,5	2,5	3,5

100% MANUFACTURED
 IN FRANCE