



Cooler By Design.™

Packaged Gas

STANDARD

TECHNICAL SPECIFICATION

Euro-Cyl 50 – 230 litres
Maximal Working Pressure (MAWP) 1,5 – 24 bar

50/1,5



230/4SB



180/24



230/4RB



230/22

180/4

120/4

* EC 230/22 shown with optional casters and pull handle kit



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1. General

Type of tank:	Transportable liquid cylinder (only LFT and MOD models are suitable for permanent transport)
Gas service	
MAWP 1,5 bar:	LIN
MAWP 4 bar:	LIN, LAR, LOX
MAWP 22 – 24bar:	LIN, LAR, LOX, CO ₂ , N ₂ O
MIN./MAX. ambient temperature:	-30 °C / +50 °C
Design regulation:	TPED (EN 1251, ADR)
Notified body:	Apragaz

2. Pressure vessel

Design code:	ADR, EN 1251
Material:	Stainless steel
MIN./MAX. Allowable temperature:	-196 °C / +50 °C
Piping material:	Stainless steel

3. Outer jacket

Design code:	EN 1251
Material:	Stainless steel
MIN./MAX. Allowable temperature:	-196 °C / +50 °C

4. Insulation

Type of insulation:	Super insulation
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5. Plumbing

Safety relief devices:	Rupture disk and relief valve
Piping material:	Stainless steel, copper
Pressure build-up vaporizer:	Copper piping soldered on the outer jacket
Product vaporizer:	
Up to MAWP 4 bar:	none
MAWP 22 – 24 bar:	Copper piping soldered on the outer jacket

6. Connection

Bottom Fill/Liquid Withdrawal:	3/8" NPT Female
Vent/Trycock:	3/8" NPT Female
Gas use:	
Up to MAWP 4 bar:	none
MAWP 22 – 24 bar:	3/8" NPT Female



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7. Documentation

Data Dossier:

Tank dossier in English electronically

Operation Manual:

Operating manual electronically either in English or on request in language of final destination (may be subject of additional charges)

Paper Dossier & Operation Manual:

Optional

8. Miscellaneous

Final surface:

Stainless steel buffed surface

Type		50/1,5	120/4	180/4	230/4 RB● (SB □) [MOD ✕]	
Capacity						
Liquid (gross)	(liters)	50	120	196	240	
Liquid (net)	(liters)	47	114	186	228	
Gas (N ₂)	(Nm ₃)	N/A	N/A	N/A	N/A	
Gas (O ₂)	(Nm ₃)	N/A	N/A	N/A	N/A	
Gas (Ar)	(Nm ₃)	N/A	N/A	N/A	N/A	
Gas (CO ₂)	(Nm ₃)	N/A	N/A	N/A	N/A	
Gas (N ₂ O)	(Nm ₃)	N/A	N/A	N/A	N/A	
Performance						
NER ♪ (N ₂)	(%/day)	4	2	1,9	1,8 [2,9]	
NER ♪(O ₂ or Ar)	(%/day)	N/A	1,4	1,3	1,2	
NER (CO ₂ or N ₂ O)	(%/day)	N/A	N/A	N/A	N/A	
Gas Flow (N ₂ or O ₂)	(Nm ₃ /hour)	N/A	N/A	N/A	N/A	
Gas Flow (CO ₂ or N ₂ O)	(Nm ₃ /hour)	N/A	N/A	N/A	N/A	
Type of safety protection ♦		RV & RD	RV & RD	RV & RD	RV & RD	
Safety Devices Setting	(bar)	1,5 RV /6 RD	4 RV / 6 RD	4 RV / 6 RD	4 RV / 6 RD	
Code ♥		TPED (EN1251)	TPED (EN1251)	TPED (EN1251)	TPED (EN1251)	
Dimensions						
Tank Diameter	(mm)	406	508	508	660	
Base Type		Round	Square	Footring	Round (Square) [Round]	
Base Size	(mm)	406	650x675	508	660 (715x715)	
Height	(mm)	1035	1290	1613	1391	
Empty Weight	(kg)	48	100	109	135 (155)	
Maximum Full Weight ♠	N ₂	(kg)	86	186	259	309(327)
	O ₂	(kg)	N/A	224	321	385(403)
	Ar	(kg)	N/A	253	369	443(461)
	CO ₂	(kg)	N/A	N/A	N/A	N/A
	N ₂ O	(kg)	N/A	N/A	N/A	N/A

Type		180/24 [LFT ⚡]	230/22 SB □
Capacity			
Liquid (gross)	(liters)	196	240
Liquid (net)	(liters)	186	228
Gas (N ₂)	(Nm ₃)	120	147
Gas (O ₂)	(Nm ₃)	146	179
Gas (Ar)	(Nm ₃)	145	178
Gas (CO ₂)	(Nm ₃)	104	128
Gas (N ₂ O)	(Nm ₃)	96	118
Performance			
NER ♪ (N ₂)	(%/day)	1,9 [2,9]	1,8
NER ♪ (O ₂ or Ar)	(%/day)	1,3 [1,8]	1,2
Gas (CO ₂ or N ₂ O)	(%/day)	0,5	0,5
Gas Flow (N ₂ or O ₂)	(Nm ₃ /hour)	9,2	10,5
Gas Flow (CO ₂ or N ₂ O)	(Nm ₃ /hour)	2,9	2,9
Type of safety protection ♦		RV & RD	RV & RD
Safety Devices Setting	(bar)	24 RV / 32,5 RD	22 RV / 32,5 RD
Code♥		TPED (EN1251)	TPED (EN1251)
Dimensions			
Tank Diameter	(mm)	508	660
Base Type		Footring	Square base without casters*
Base Size	(mm)	508	715x715
Height	(mm)	1622	1389
Empty Weight	(kg)	150	205
Maximum Full Weight ♠	N ₂	(kg)	285
	O ₂	(kg)	347
	Ar	(kg)	394
	CO ₂	(kg)	354
	N ₂ O	(kg)	331

- Round Base
- Square Base
- ⚡ Tank with modified support system, suitable for permanent transport, reduced vacuum warranty (3 years)
- ♪ Nominal Evaporation Rate; ISO 21014
- ♦ All tanks are equipped by two safety relief devices. RV means relief valves, RD rupture disk
- ♠ Tank plus product at saturated pressure 0 bar for O₂, N₂ and Ar.
- ♥ Pressure Equipment Code: Although basic pressure equipment codes may be common, local authorities may set additional standards for operating, testing, inspecting, etceteras in order to qualify a vessel for use in their locale, especially if the Euro-Cyl is to be used as stationary vessel and/or filled on-site. Please check with the local authorities to verify local criteria before ordering, installing or operating any Chart pressure vessel
- * Casters available as option including handle.