



Packaged Gas
TECHNICAL SPECIFICATION
EURO-CYL M12
24 & 37 bar Standard

1. General

Type of tank:	Transportable liquid cylinder
Gas service:	LIN, LOX, LAR, CO ₂ , N ₂ O
Volume tolerance:	± 4%
MIN./MAX. ambient temperature:	-30 °C / +50 °C
Design regulation:	TPED (EN 1251, ADR)
Notified body:	TÜV NORD

2. Pressure vessel

Design code:	ADR, EN 1251
Material:	Stainless steel 1.4301
MIN./MAX. allowable temperature:	-196 °C / +50 °C
Piping material:	Stainless steel

3. Outer jacket

Design code:	EN 1251
Material:	Stainless steel 1.4301
MIN./MAX. allowable temperature:	-196 °C / +50 °C

4. Insulation

Type of insulation:	Super insulation
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5. Plumbing

Safety relief valves:	2 off, each safety relief valve designed for 100 % capacity
Piping material:	Stainless steel, copper
Pressure build-up vaporizer:	Copper piping soldered on the outer jacket
Product vaporizer:	Copper piping soldered on the outer jacket

6. Connection

Bottom Liquid Withdrawal:	1/2" NPT Female
Vent/Trycock:	1/2" NPT Female
Gas Use:	1/2" NPT Female



Cooler By Design.™

<i>Top Fill (option):</i>	<i>½" NPT Female</i>
<i>Extra liquid withdrawal (option)</i>	<i>½" NPT Female</i>

7. Documentation

Data Dossier:	Tank dossier in English electronically
Operation Manual:	Operating manual electronically either in English or <u>on request</u> in language of final destination (may be subject of additional charges)
Paper Dossier & Operation Manual:	Optional

8. Miscellaneous

Final surface:	Stainless steel buffed surface
Pallet Frame:	Galvanized carbon steel

Model		600/24 M12	600/37 M12	800/24 M12	1000/24 M12
Capacity					
Liquid (gross)*	(liters)	601	601	801	997
Liquid (net)	(liters)	571	571	761	947
Gas (N ₂)**	(Nm ³)	369	369	492	612
Gas (O ₂)**	(Nm ³)	456	456	607	756
Gas (Ar) **	(Nm ³)	446	446	594	740
Gas (CO ₂) **	(Nm ³)	293	293	391	486
Gas (N ₂ O)**	(Nm ³)	304	304	405	504
Performance & general information					
NER *** (N ₂)	(% day)	1,6	1,6	1,5	1,5
Gas Flow (N ₂ , O ₂ , Ar) / with aux. vaporizer	(Nm ³ /hr)	21 / 30	21 / 28	25 / 35	27,5 / 42
Gas Flow (CO ₂ & N ₂ O) / with aux. vaporizer	(Nm ³ /hr)	7 / 10	7 / 10	8 / 11	9 / 12
Max. Relief Valve Setting	(bar)	24	37	24	
Code		TPED (EN1251)			
Dimensions & weight					
Tank Diameter	(mm)	900		1050	1100
Base Dimen! (LxW)	(mm)	1010 x 1010		1130 x 1130	1180 x 1180
Height	(mm)	2050		2100	2150
Tare Weight (approx.)****	(kg)	625	700	765	830
Max. full weight incl. product (approx.)****	(kg)				
LIN**		1083	1158	1376	1591
LOX**		1277	1352	1634	1911
LAR**		1421	1496	1825	2150
LCO ₂ **		1256	1331	1607	1878
LN ₂ O**		1237	1312	1581	1845

* Volume tolerance is ±4%

** At 0 barg pressure for N₂, O₂, Ar and 10 bar for CO₂, N₂O

*** NER: Nominal Evaporation Rate

**** Additional product vaporizer adds approx. 20 kg

Note: All models and specifications are conditional and subject to change without prior notice.