## CRYO-CYL 230 MP & LP MEDIUM & LOW PRESSURE CRYOGENIC STORAGE SYSTEM

Chart's VRV Cryo-Cyl<sup>®</sup> 230 MP & LP Liquid Cylinder is a vacuum sealed, super-insulated, transportable liquid cylinder that permits a low evaporation rate, grants several years of efficient performance, and provides the lowest life cycle costs.

The optimized, ergonomic design with complete stainless steel construction, seamless pipes and world-class components guarantee years of care-free operations.

Available in 230 litre capacity in 1.5 bar, 4 bar and 24 bar pressures, VRV Cryo-Cyl 230 MP & LP is designed for LIN, LOX, LAR,  $LCO_2$  and  $LN_2O$  to meet most industrial and medical applications and is suitable for both liquid withdrawal and gas use.

The Cryo-Cyl 230 MP & LP cylinder is designed according to EN1251-2:2000 and is approved for TPED standards.







## **PRODUCT HIGHLIGHTS**

- **Modular, robust construction** full welded stainless steel construction, super insulated, seamless stainless steel piping to ensure a long, leak-free and maintenance-free life.
- **100% seamless pipe -** seamless stainless steel 304 for all inner vessel piping to ensure a long, leak-free and maintenance-free life.
- **High quality components** selected for their reliability, high grade bronze valves and level gauge.
- **Ergonomic design** pipework layout with few connections eliminates potential leaks and ease of operation and maintenance.
- Vacuum quality guarantee innovative vacuum and multi-layer insulation process guarantees an extremely long life with superior holding times, backed up by an extended warranty.
- **Ultra clean** inner vessel and piping are pickled, passivated and hydraulically tested, certified and degreased for oxygen service.
- **User friendly** perfect height with ease of access, excellent center of gravity for movement on any surface.





## CRYO-CYL 230 MP & LP MEDIUM & LOW PRESSURE CRYOGENIC STORAGE SYSTEM

CITI	O-CYL 230 LTR General Sp	Jecifications		
Model (Volume/Pressure)	230/24 MP	230/24 MP	230/24 MP	
MAWP (bar)	24	4	1.5	
Capacity				
Liq. gross (ltr.)	234			
Liq. useful (ltr.)		222		
Gas-useful (Sm³)				
N <sub>2</sub>	159.5			
O <sub>2</sub>	196			
Ar		192.1		
CO <sub>2</sub> , N <sub>2</sub> O	146.8			
Performances	÷			
	NER (evaporation %/da	у)		
N <sub>2</sub>	1.6			
O <sub>2</sub> - Ar	1.1			
CO <sub>2</sub> - N <sub>2</sub> O		0.6		
<del>_</del>	Gas flow (Nm³/hr.)			
N <sub>2</sub>	11			
O <sub>2</sub>	10			
Ar	12			
CO <sub>2</sub> , N <sub>2</sub> O	3			
Application	Transportable			
Design Code	EN1251-2:2000			
Approval	PESO, Gas Cylinder Rules-2005			
Dimensions (mm)				
Vessel diameter		670		
Overall dimensions	685 x 715 x 1500			
Theoretical weight (kg)				
Empty vessel on pallet		208		
Trolley weight		70		
	Filled vessel on pallet <sup>3</sup>			
N <sub>2</sub>		388		
0 <sub>2</sub>		462		
Ar		518		
CO <sub>2</sub> , N <sub>2</sub> O		470		
Material				
Inner vessel		X5CrNi18-10 EN10028-7		
Outer vessel		X5CrNi18-10 EN10028-7		
Wheeled Trolley in CS		Standard		
Wheeled Trolley in SS		Option		
Liquid measurement		орион		
Floating Level Gauge		Standard		
Digital Level Gauge *weight without trolley		Option		

Chart Inc. U.S. : 1-800-400-4683 Worldwide: 1-952-243-8800





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