



## STANDARD SPECIFICATION FOR LOX, LIN AND LAR TANKS

Revision: 02

### Model

Storage Medium		Liquid Oxygen, Liquid Nitrogen, Liquid Argon				
Type		CDL-50/0.8(1.6)	CDL-30/0.8(1.6)	CDL-20/0.8(1.6)	CDL-10/0.8(1.6)	CDL-5/0.8(1.6)
Configuration		Double Layer , Vertical/Horizontal				
Manufacturer		Zhuhai Evergrow Gas Equipment Co.Ltd.				

### Design Parameter

Gross Volume	m3	52.63	31.58	21.05	10.5	5.2
Net Capacity	m3	50	30	20	10	5
Design & Mfg. Code		GB/ASME/PED/GOST/or Customer Specified				
Design Temperature	o C	-196	-196	-196	-196	-196
Max.Operating Pressure	Mpa	0.8(1.6)	0.8(1.6)	0.8(1.6)	0.8(1.6)	0.8(1.6)
Vacuum pressure	Pa	0.05	0.05	0.05	0.05	0.05
Insulation type		Multilayer high Vacuum				

### Material and Construction

Material of Inner Vessel		Stainless Steel 304				
Material of Outer Vessel		Carbon Steel				
Pipe		Stainless Steel 304				
Valves and Instruments		as per Flow Chart and Valve Schedule				

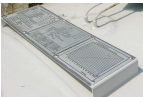
### Painting

Surface Treatment		Degreased for Oxygen service (inner vessel) Sandblasted (outer vessel)				
Primer		2 coats of Eopxy primer to a total of 80 micron				
Top paint & Color		2 coats of Polyurethane type to a total of 80 micron. Color: Glossy White				


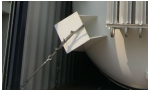

### Dimension

Height	m	13.52	11.96	10.06	8.32	5.86
Diameter	m	2.8	2.4	2.2	2	1.8

### Labelling and Name Plates

Valves Labelling		All valves shall be labeled with round aluminium plate below the handle according to the valves number and name as per attached Flow Chart
Name Plate		Three aluminium plates with black engraved letterings in English should be provided and installed on the front side of the tank under the level indicator: 1) Name Plate 2) Flow Chart 3) Conversion Chart

### Protection for Shipment

General		All tanks must be provided with sufficient seaworthy protection to avoid damage during land transportation, shipment, transshipment and loading and unloading.
Pipe Connection Ends		There shall not be any uncovered connection ends. All pipe ends must be covered with a heat shrink plastic covering or end caps
Inside the Container		5m3, 10m3 and 20m3 Tanks shall be loaded into a 20' or 40" HC (High Cube) Containers or Open Top Containers.
Fixing		The tank inside the container must be adequately secured using wire rope during to the container to prevent movement to any direction during shipment.
Loose Cargo Shipment		30m3 Tanks capacity or more that does not fit into standard containers are shipped as Flat Rack or loose cargo. The underside of the tank (or when placed sideways, shall be raised with wooden blocks connecting the two pair of side supports to protect the tank body from uneven surface.

### Other Requirement

Inner vessel treatment		To be filled with N2 gas 5psi during transportation.
Anchor Bolts		To be provided as per foundation at site if designed.