

Cryogenic vessels <2000 litres



PCC Gas in cage (LC200), PCC Gas in cage (CC230), LC200 Twin with cage doors open, PCC Gas in cage (3 x LC200)

Capacities, weights and dimensions

Equipment type	Gas	Max flowrate (Sm ³ /hr)	Liquid capacity (l)	Vessel plinth dimensions (m)			Reinforcement category
				W	D	T	
LC200 in Cage	O ₂ /N ₂ /AR	8	200	2.00	2.00	0.25	A
	CO ₂	2	200	2.00	2.00	0.25	A
CC230 in Cage	O ₂ /N ₂ /AR	8	230	2.00	2.00	0.25	A
	CO ₂	2	230	2.00	2.00	0.25	A
LC200 Twin in Cage	O ₂ /N ₂ /AR	16	400	2.00	2.00	0.25	A
	CO ₂	4	400	2.00	2.00	0.25	A
LC200 Cage Mix	AR and CO ₂	15	600	3.50	2.00	0.25	A
	N ₂ and CO ₂	7	600	3.50	2.00	0.25	A
	O ₂ and CO ₂	10	600	3.50	2.00	0.25	A
PCC Liquid – 950 MK3	N ₂	NB: 20 liquid litres/hr	950	3.50	2.80	0.25	A
PCC Liquid – 2000 MK3	N ₂	NB: 20 liquid litres/hr	1945	3.50	3.00	0.25	A

For more details see TD063

The PPC Liquid provides a maximum cryogenic liquid process flowrate of 15 to 20 liquid litres per hour, i.e. to a fixed pipework system.

NB: This is different to a liquid decant supply and flowrate.



PCC Liquid 2000 MK3, PCC Liquid 950 MK3



PCC Gas 2000 MK1, PCC Gas 2000 MK2, PCC Gas 2000 MK3, PCC Gas 1500, PCC Gas 950



PCC Laser 900, PCC Laser 1500, PCC Laser 2000 MK2, PCC Laser 2000 MK3

Capacities, weights and dimensions (continued)

Equipment type	Gas	Max flowrate (Sm ³ /hr)	Liquid capacity (l)	Vessel plinth dimensions (m)			Reinforcement category
				W	D	T	
PCC Gas – 950	O ₂ /N ₂ /Ar	25	950	3.50	2.80	0.25	A
PCC Gas – 950	CO ₂	6	950	3.50	2.80	0.25	A
PCC Gas – 1500	O ₂ /N ₂ /Ar	100	1420	3.50	3.00	0.25	A
PCC Gas – 2000 MK1	O ₂ /N ₂ /Ar	25	2000	3.50	2.80	0.25	A
PCC Gas – 2000 MK1	CO ₂	6	2000	3.50	2.80	0.25	A
PCC Gas – 2000 MK2/3	O ₂ /N ₂ /Ar	100	2000	3.50	3.00	0.25	A
PCC Laser 900	N ₂	25	900	3.50	2.80	0.25	A
PCC Laser 1500	N ₂	100	1420	3.50	3.00	0.25	A
PCC Laser 2000 MK2	N ₂	100	1845	3.50	3.00	0.25	A
PCC Laser 2000 MK3	N ₂	100	1845	3.50	3.00	0.25	A
VIE 10 SKID	O ₂ /N ₂ /Ar	50	1000	3.50	3.50	0.25	A
	CO ₂	13	1000	3.50	3.50	0.25	A
VIE 17 SKID	O ₂ /N ₂ /Ar	50	1600	3.50	3.50	0.25	A
	CO ₂	13	1600	3.50	3.50	0.25	A
VIE 18 SKID	O ₂ /N ₂ /Ar	50	1819	3.50	3.50	0.25	A

For more details see TD063



VIE Skid 10, VIE Skid 18, VIE Skid 17

Concrete plinths

The customer is responsible for the design and construction of the concrete plinth. BOC will provide details of the wind loads and fixings required to secure the vessel, using the standards generic data listed below. If the customers install requires for more specific loadings, this can be done at a cost.

The wind load calculations that are produced to determine the fixing category, are done in accordance with BS EN 1991-1-4:2005 Eurocode1: Actions on Structures

The calculations assume the following:

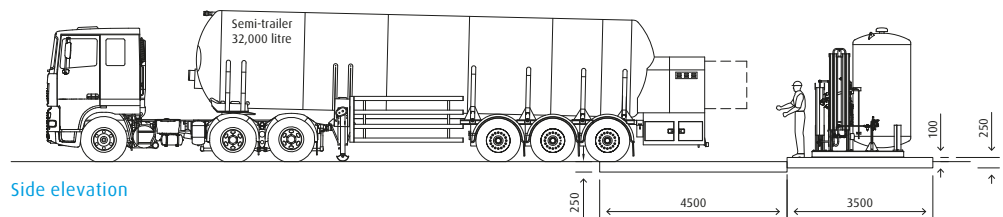
- maximum basic wind speed of 27 m/s
- site effective height of 100 m above sea level
- distance to the sea of 25 km
- terrain category II (Low vegetation such as grass and isolated obstacles (trees, buildings) with separations of at least 20 obstacle heights)

Bolting categories for the vessels are detailed on separate data sheets.

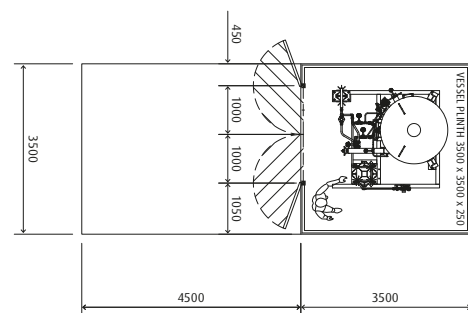
The concrete plinth should have a brush finish and have a maximum fall of 1:150 to allow surface water to run off and should be constructed on 200mm of consolidated hardcore. The minimum concrete grade should be C35/45 with an air entrainment admixture.

Hard standing requirements

- For all vessels
- 3.50 m (W) x 4.50 m (D) x 0.25 m (T)
- Reinforcement category as plinth
- Hydrocarbon based surfacing shall not be used for hard standings on oxygen installations



Side elevation



Plan view

Bolting requirements

- Not required for any vessel

Fencing

Fence type: 50 x 50 RSA 3 mm weld mesh panel and panels to be hot-dipped galvanised or roll round chain link with a medium grade industrial plastic coating. Gaps between the columns and posts are to be small enough as to not be able to reach through and to avoid contact with the cold pipe work. All fencing must be fabricated to the latest standards.

Fence height: 1.8m (min)

Posts: 50 x 50 RHS hot-dipped galvanised (as a minimum). To be fixed accordingly with suitable fixings to resist any wind load.

Gates: 50 x 50 RSA 3mm weld mesh. Gates to be hot- dipped galvanised. Gate posts should be set in pockets. Single gate width 800 mm (min) Double gate width 2010 mm. They are also to include doors which open to 180 degrees.

IMPORTANT NOTE: The plinth dimension information (including length, width, thickness and reinforcement details) given above is notional only as a preliminary indicative means for the Customer to seek quotes from structural or civil engineers to provide specific advice to the Customer in relation thereto. properly advise the Customer. Notwithstanding that BOC has provided notional plinth dimension information, the Customer is and shall at all times remain responsible for the design and construction of the concrete plinth and for the carrying out of all civil works in relation thereto and nothing stated herein shall imply any responsibility for the design and construction of the concrete plinth on the part of BOC.

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