



Design Summary		
	Inner Vessel	Outer Vessel
Design Code	P.E.D. 97 / 23 / EC - EN 13458	P.E.D. Not Applicable/EN13458
Marking	CE Marked	-
Maximum Working Pressure	0.5 bar g	-1.0 Bar
Design Pressure	1.52 bar abs, in acc. with EN 13458	-1.0 Bar
Test Pressure	2.15 bar abs	-1.0 Bar
Note	Inner vessel to be tested to 2.15 bar abs (1.15 bar g) with confirmed simultaneous vacuum in jacket space. The test fluid is liquid nitrogen	
Contents	Liquid Helium	Vacuum Insulated
Lowest Temperature	-269 °C	+50 / -20 °C
Capacity (Litres) Gross	74	-
Capacity (Litres) Net 95%	70.3	-
Pressure * Volume (p * v)	37	-
Hazard Category	III	-
Fluid Group	2	-
P.E.D Assessment Module	Excluded from the scope of PED	-
Corrosion Allowance	None	-
Post Weld Heat Treatment	None	-
Weld Procedures & Welder Qualifications	BS EN 287 Pt 1, BS EN ISO 15614 Pt 1	-
NDT Radiography	2% - Long & Circ 10% Test's in accordance with EN 13458	None
Visual	100% BS EN 17637	-
Inspection, Testing & Design Approval	Wessington Cryogenics Ltd / Lloyds Register	
Notified Body		

Revisions			
Rev.	Description	Sign.	Date
1	Vacuum gauge location included	Mark Armstrong	08/05/2014
2	x2 Additional KF fittings included	Mark Armstrong	20/05/2014

Cryostat - CERN IRRAD Zone

Title	Created	Mark Armstrong
Approved	27/03/2014	
Date Drawn	27/03/2014	
Design Review No.	9918-3003	
Weight	152.67kg	
Rev.	2	

Houghton le Spring, Tyne & Wear
 DH4 5NL
 Tel: +44 (0)191 512 0677
 Fax: +44 (0)191 512 0745

Drawing No. **9918-3003**