

수소액화용 콜드박스 사양서

항 목			단 위	사 양
Outside Diameter of Cryostat			mm	1100
Total Height of Cryostat(Vacuum Vessel)			mm	1500
Diameter of Top flange			mm	1150
Weight of Cryostat			kg	약 1000
Vacuum Rate off Cryostat			torr	< ~5x10 ⁻⁵
Leak Rate of Cryostat			cc.atm/sec	< ~9x10 ⁻⁹
Radiation Thermal Shield		Material		A1050
		Outside Diameter	mm	1000
		Height	mm	1000
Cryocooler	1단 *	Cooling Capacity @ 70K	W	120 ~ 150*
		Cooling Capacity @ 50K	W	90 ~ 120*
	2단	Cooling Capacity @ 4.2K	W	< 3
		Cooling Capacity @ 10K	W	< 32
Heat exchanger	#1	Precooler @ 77K	W	1540
		0.5 g/s @ 10 Ma		
	#2	80.0 → 65.0	K	고압측:10 MPa 저압측:0.2 MPa Cu 동심관
		73.3 ← 51.9	K	
	#3	56.9 → 41.9	K	
		61.9 ← 31.3	K	
	#4	38.2 → 30.0	K	
		31.3 ← 22.9	K	
LH2 Level meter			mm	0 ~ 300

비고 * : 2단 부하의 크기에 따라 바뀜