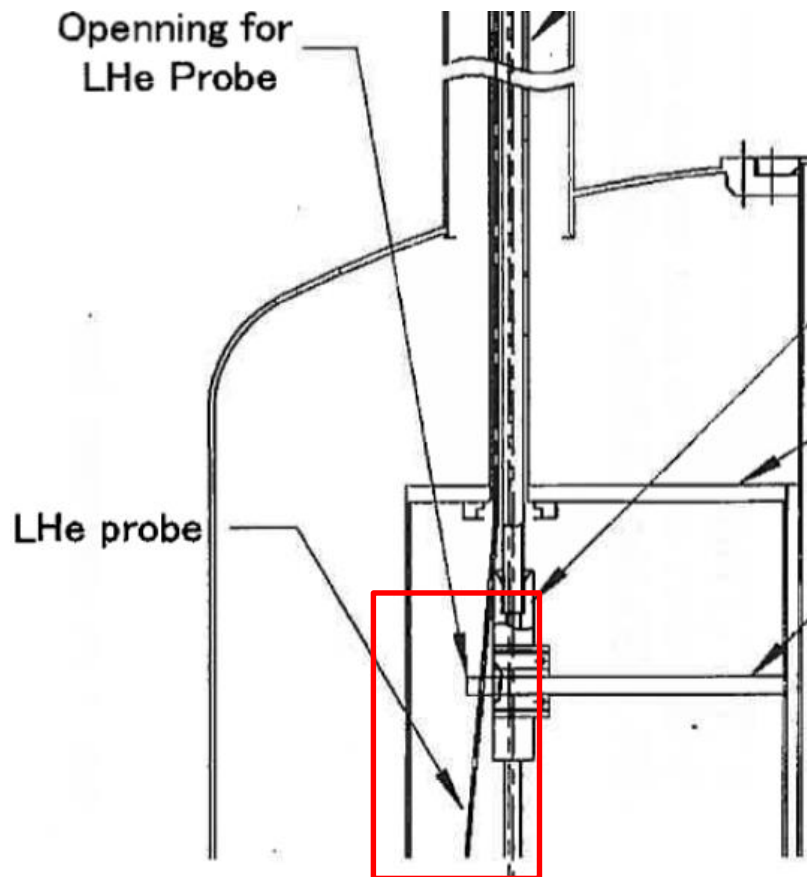


20181207 Meeting

Korea University
Lim. Eunhun

Insert He sensor



Operator Valve

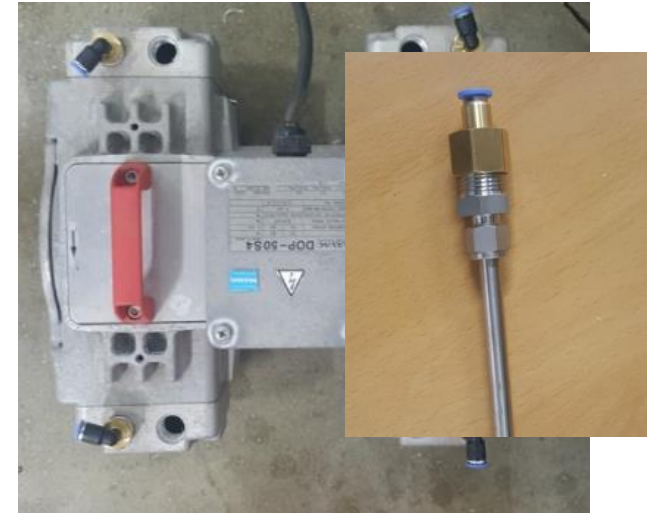
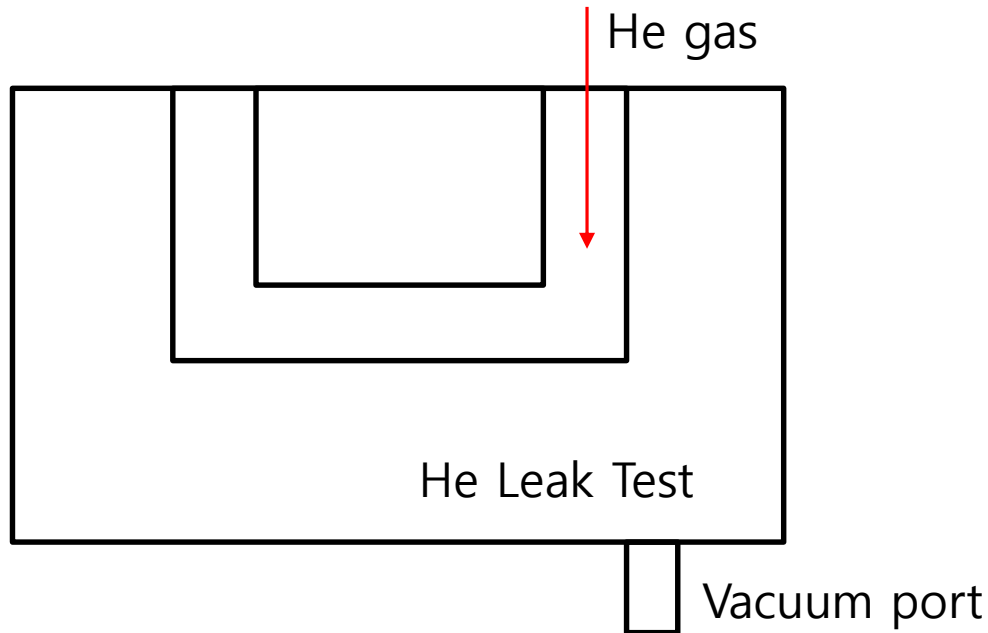


KU Magnet

part	Value
Plug length	Need check
Plug width	23.8mm
Plug volt	M6
Coupling	NW25
Valve width	26mm

Jung-min
production
planned

Magnet Vacuum



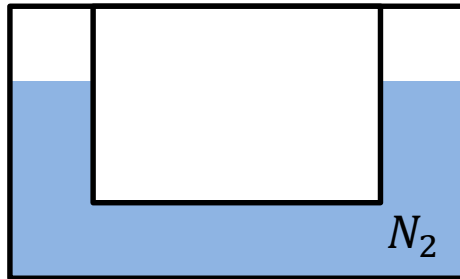
Pump for dry

품명	규격	수량	단위	단가	공급가액	납기
WY3P42-1KUL 1KVA	3P/UL인증	1	EA	292,000	292,000	주문 후 10일
VCTF 1.5SQ*4C	전선	100	M	900	90,000	재고유
**** 이하여백 ****						

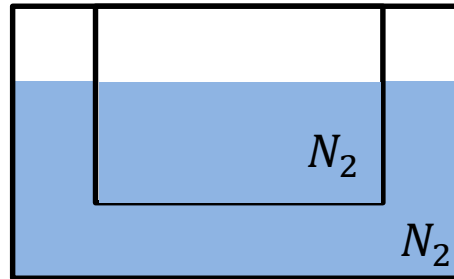
3phase 200V

Cooling Magnet

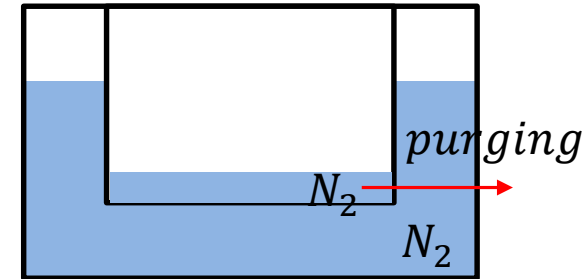
1)



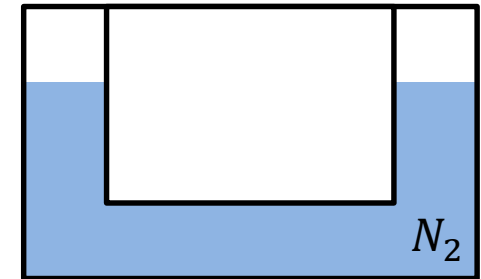
2)



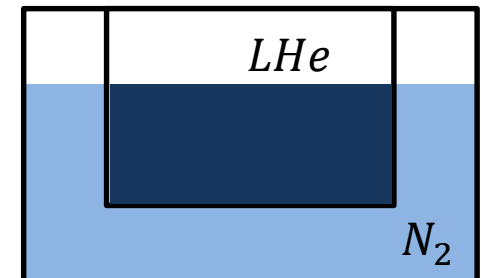
3)



4)



5)



2) Schedule

- Day 1 Travel (from Japan to Korea)
- Day 2 Vacuum leak check
Pre-cooling with using L. N₂
- Day 3 L. N₂ discharge
Pump & Flash
- Day 4 L. He cooling
- Day 5 Main coil excitation
* Shim coil excitation is not carried out
- Day 6 Travel (from Korea to Japan)

With JH engineering

3-2 Volume of Cryogen Required for Installation

Volume of liquid helium required for initial installation (includes magnet cool-down from 77K to 4.2K and volume required to completely fill helium vessel after magnet energization). : 500 L

Volume of liquid nitrogen required for initial installation (includes magnet pre-cool of magnet to 77K and volume required to completely fill nitrogen vessel). : 400 L



[Issue] 헬륨(He), 공급파동보다 헬륨 자체의 존재 걱정해야 2018.11.23,

최근 헬륨 공급파동의 심각한 징조로 일부 병원에서는 MRI용 액체헬륨의 공급중단사태도 이미 벌어진 상태로 전해졌다. 그동안 우려해 왔던 헬륨 공급불안정이...
i가스저널 (www.igasnet.com, blog.naver.com/igasnet/221404601381)



헬륨 파동은 진행중? | 아랍... 단교 | 국내 헬륨공급 차질... 2017.07.31,

국내 헬륨가격이 다시 한 번 들쭉이고 있다. 4년 전 헬륨파동이 일어났을 때는 가격이 천정부지로 올라 용접, 레이저가공업체 등 공업용 헬륨의 경우 가격인상도...
Easy Gas Tech blog.naver.com/rookie1005/22106392284,...

1) 월드 에너지스

1월 말/2월 초 -> 250L / 250L 협의중

2) 월드 에너지스 + 세보 에너지 + @
500L 문의 중

Products	NMR			Fluxmeter FDI2056	Hall / Fluxgate		
	PT2026	PT2025	MFC3045		THM1176	TFM1186	MV2
Technical Criteria							
Precision, Accuracy	★★★	★★★	★★★	★★	★	★	★ (1)
Speed	★	★	★	★★★	★★	★★	★★
3-axis					✓	✓	✓
Range Maximum	22,8T	13,7T	7T	(2)	14T	100μT	3T (3)
Requires Uniform Field	✓	✓	✓				
3D Positioning			✓	✓			
Usability Criteria							
Flexibility	★	★	★	★★★	★★	★★	★★★
Simplicity	★★	★★	★★	★	★★★	★★★	★
Portability	★★	★★	★★	★	★★★	★★★	(4)
Accessories and Options	★★	★★★	★★	★	★★	★★	★
Typical System Price (5)	B	B	C	B	A	A	A

1) High Uniform (1ppm)

-> NMR + Sim coil(need power supply)

2) Low Uniform(1000ppm)

-> Hall Probe + Main Coil(no using sim coil)

Baverage(T)	7.005497	
Z(cm)	B(T)	Hom(ppm)
-6.0	7.005420	-11.02
-5.5	7.005460	-5.31
-5.0	7.005483	-2.02
-4.5	7.005490	-1.02
-4.0	7.005494	-0.45

Field data

Magnet type	: Actively compensa
Central field	: 7.0 T
Central field homogeneity	
Homogeneity on Z-axis	: $\leq \pm 3.75$ ppm (X:
Central Field Homogeneity	: $\leq \pm 10$ ppm (ϕ 50
Operating current	: 89.9 A (Nominal)
Field stability (drift)	: < 0.05 ppm/h

Switch resistance (nominal)	: 7 Ω
Switch heater resistance (nominal)	: 100 Ω
Switch heater current (nominal)	: 60 mA



주식회사 에스 크
APPLIED SCIENCE KOREA CORPORATION

1 F71 multi-axis teslameter

1

₩10,130,000

-LakeShroe Model : F71

2 3-axis probes for F71

1

₩2,370,000

-LakeShroe Model : FP-2X-250-ZS15-6

-Stem length : 15cm

-Cable length : 6m

* 2019년 1월 21부로 3% 가격 인상되었습니다.

전 적 조 건

1. 납 기 : 발주후 12주 이내
2. 결 제 : 현금결제
3. 유효기간 : 견적후 7 일

소 계 : ₩12,500,000

부 가 계 : ₩1,250,000

합 계 : ₩13,750,000

* 견적 담당자 : 박인길 차장 (010-2510-7907 / igpark@askcorp.co.kr)

METROLab
Magnetic precision has a name



Pricing : 7'955 CHF
THM1176-HF-PC
(High Field)

Pricing : 9'300 CHF
THM1176-HFC-PC
(High Field Compact)

Pricing : + 1'695 CHF
THM1176 - x - PDA
Handheld kit

Pricing : + 75 CHF
Version with 6 m cable
(prices are indicative)

Thank You