Question

• I need to evaluate the size of the dewar needed for the magnet : What is the volume of He liquid needed to cool down the magnet ?
What is the volume of liquid to fill the magnet and do you know the daily consumption ?
-Total 500L required (and year monthly few 10L ?)

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**

Cooling + Filling up

Liquid helium cryogen details :-

Siphon leg diameter	:	**12.7** mm
Recommended minimum level of liquid during normal operation :-		
•reading on probe	:	**70** mm
•length of probe	:	**470** mm
Recommended refill volume during normal operation (nominal)	:	**96** L
Normal hold time	:	Greater than **90** days
Maximum liquid evaporation rate	:	**45** ml/h (expected)

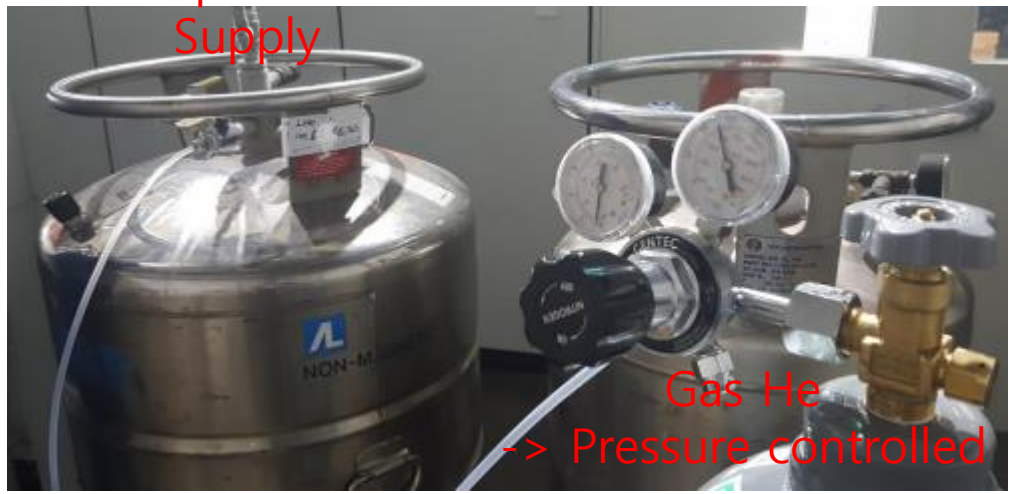
Required(maintain)
-> 96L/3month

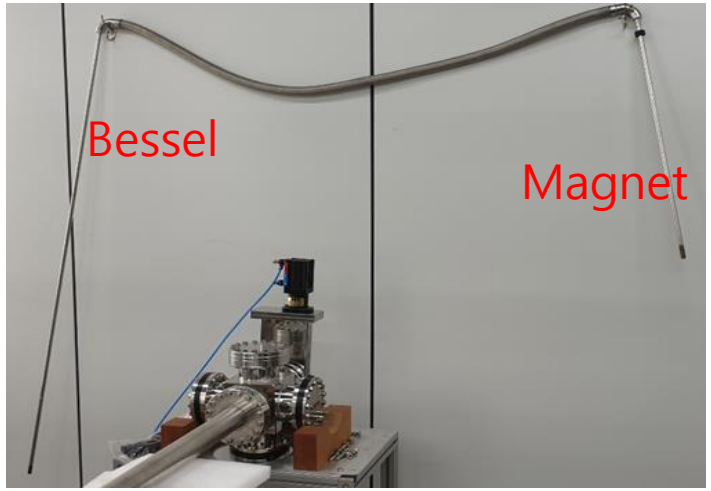
Consumption
1.08L/day

Question

- On helium supply part, what is the type of connection to supply the magnet in helium ??

Liquid He
Supply





Question

- What electrical power do you need : which voltage ? Three phase or single phase ? Power ?

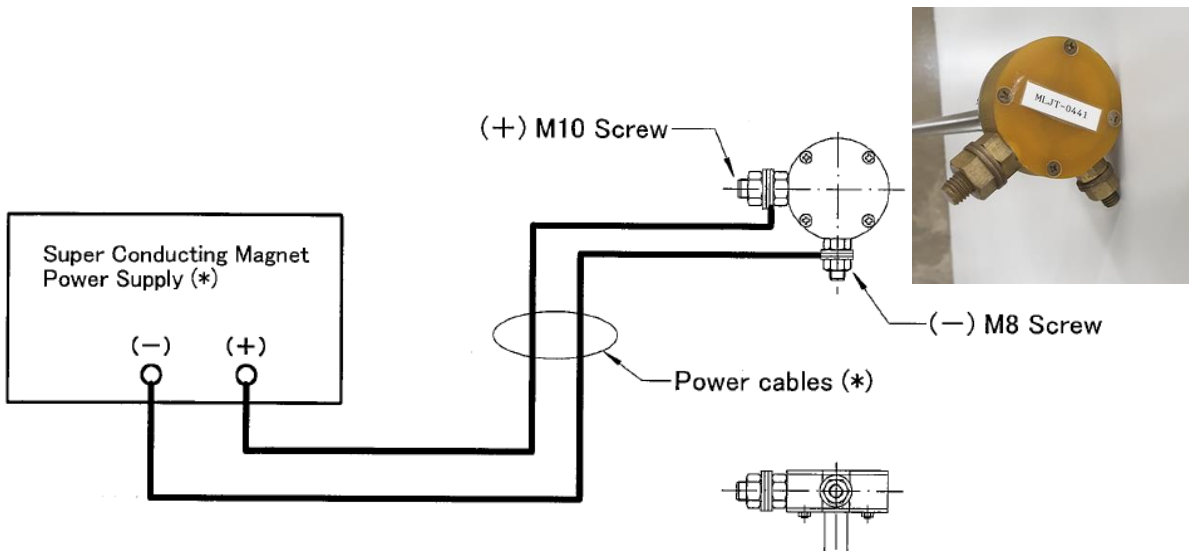
Magnet power supply

3.6 AC SOURCE REQUIREMENTS

The Genesys™ series can be operated from a nominal 100V to 240V, single phase, 47~63Hz. The input voltage range and current required for each model is specified in Chapter 2. Ensure that under heavy load, the AC voltage supplied to the power supply does not fall below the specifications described in Chapter 2.

3.7.1 AC Input Connector, 1500W models

The AC input connector is a 3-Terminal wire clamp located on the rear panel:
Phoenix Contact P/N: FRONT4-H-7.62/3
Use suitable wires and tightening torque as follows:
1. Wire diameter: 12AWG or 10AWG.
2. Tightening torque: 4.4-5.3Lb-inch. (0.5-0.6Nm).



< Requirement for Power Supply >
(1) Outout Current ≧ 90 (A)
(2) Output Voltage ≧ ± 4 (V)
(3) Sweep Rate : 0.2 ~ 12 (A/min)

Note)
(*) Power supply and power cables are prepared by the customer.

Power Supply

NDT1470

4 Ch Reversible 8 kV/3 mA (8 W) NIM/Desktop HV Power Supply Module (USB/Ethernet/T.screen)

Request a quote

Manual | Downloads

Features

- 4 channels in 2U NIM module
- 220 V/110 V AC plug for desktop operation
- 8 kV / 3mA output ranges
- Max output power:
  - 9 W (<3 kV output)
  - 8 W (>3 kV output)
- Channels with individually selectable positive or negative polarity
- SHV coaxial output connectors
- Common floating return
- Max Ripple smaller than < 30mVpp

안녕하세요. 박사님

CAEN의 한국 대리점인 ㈜피에스케이테크놀로지 강태욱 입니다.
CAEN의 제품에 관심을 가져 주신 점 대단히 감사합니다.
ND1470의 가격은 EUR4,610이며, 납기는 6~12주 사이 입니다.

오전에 연락 드리겠습니다.

감사합니다.
강태욱 드림

유럽연합 EUR
4610
4,610 유로

=

대한민국 KRW
5,877,242.90
587만 7,242.90 원

SHR 40 60r_SHV 4 channel Desk-Top HV PS SHR STANDARD Vnom, Inom and Polarity switchable electronically Mode 1: Vnom= 6 kV; Inom= 2 mA Mode 2: Vnom= 4 kV; Inom= 3 mA Mode 3: Vnom= 2 kV; Inom= 4 mA Front panel control, 4.3" TFT, capacitive touch display USB and Ethernet interfaces Resolution of voltage setting/measurement: 12 mV Resolution of current setting/measurement: 8 nA Ripple & noise: < 10 mV (f > 10 Hz) HV output: SHV connector HV cable with SHV connector one-sided, 5m / 4EA	14,000,000	1	14,000,000
THQ 2-channel basic unit DPS with EPU AC/DC converter (100 up to 240 V-AC) for two HV modules DPS with EPU series (without DPSmini) polarity switchable with front panel switch at Vout= 0 voltage and current control with potentiometer, analog I/O (0 to 5V) or USB interface voltage and current display (LCD / 4 digit) HV-output with SHV on the rear DPr 60 155 24 5_SHV-THQ (Vout = 0 to 6 kV / Ioutnom = 1,5 mA) HV cable with SHV connector one-sided, 5m / 2EA	6,500,000	1	6,500,000