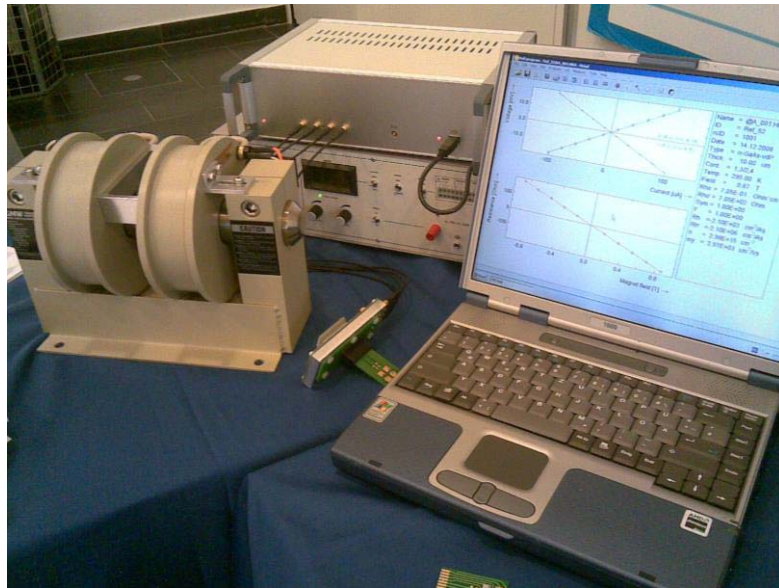


## 变温变磁场霍尔测试仪设计方案

最初始 RH2030 霍尔测试仪,只能变磁场,不能变温.



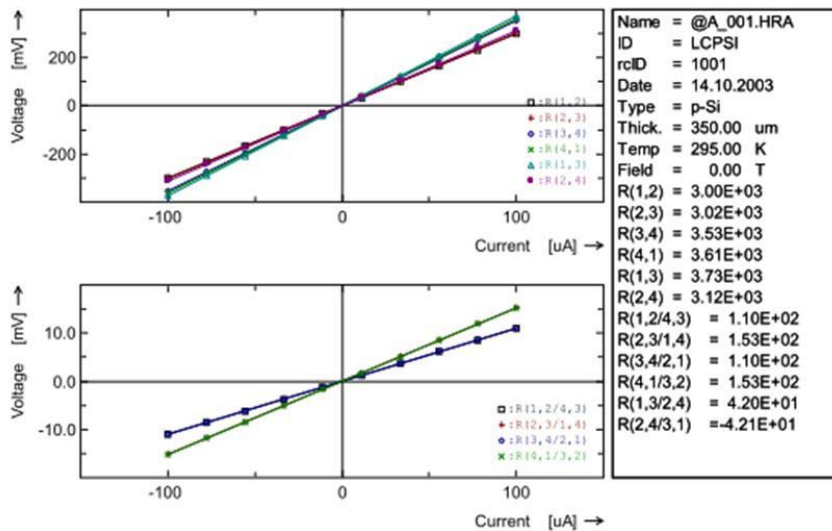
Typical Performance:

Resistance :  $1 \times 10^{-3}$  Ohm -  $1 \times 10^9$  Ohm

with 1 micrometer layer thickness:

Resistivity :  $1 \times 10^{-5}$  Ohm\*cm -  $1 \times 10^7$  Ohm\*cm

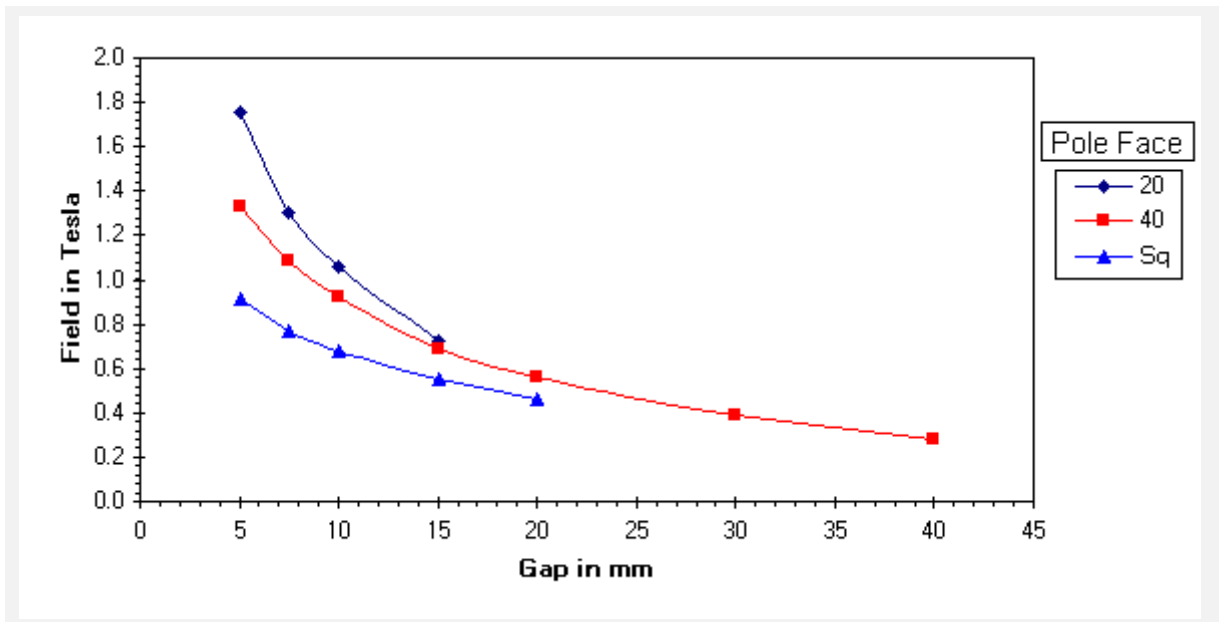
Concentration :  $10^7 \text{ cm}^{-3}$  -  $10^{21} \text{ cm}^{-3}$



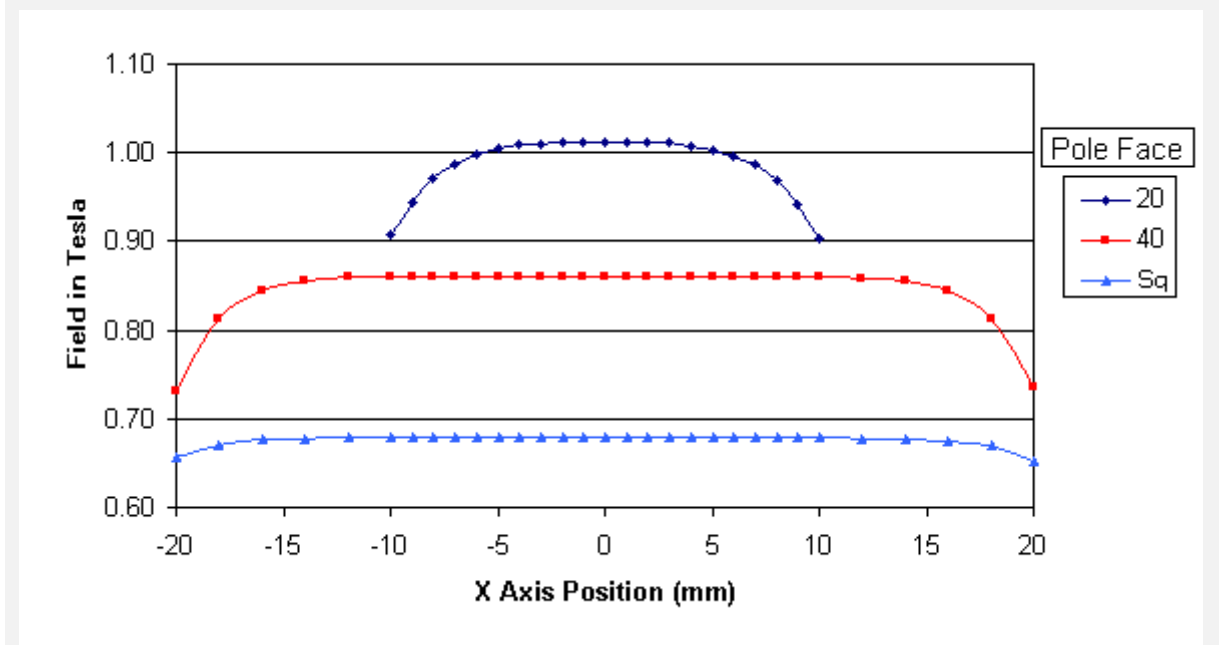
## 采用的美国GM W 公司的磁场指标

### SPECIFICATIONS-3470

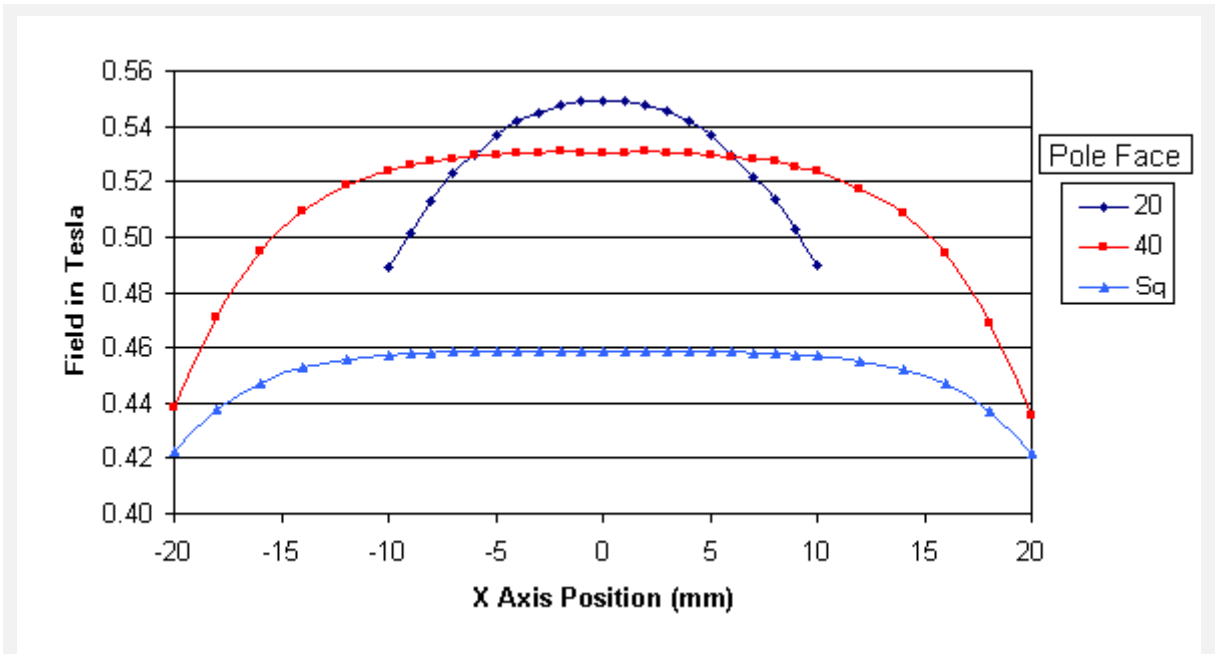
GENERAL	
POLE DIAMETER	45mm. Reversible, with pole face diameters of 20 and 40mm
POLE GAP	0 to 75mm
COIL SPACING	35 to 75mm
DIMENSIONS	377mm W x 233mm D x 217mm H
WEIGHT	27kg (60lbs)
COILS (SERIES CONNECTED)	
RESISTANCE (20° C)	7.3W
MAX RESISTANCE	8.8W
MAX CONTINUOUS POWER (AIR)	3.5A, 31V (0.11kW)
MAX PEAK POWER (AIR)	5A, 44V (0.221kW), cycled 2min max on, 4min off
MAX CONTINUOUS POWER (WATER)	5.0A, 44V (0.22kW)
MAX PEAK POWER (WATER)	7A, 62V (0.43kW), cycled 1min max on, 2min off
SELF INDUCTANCE	Approx 50mH
WATER COOLING	1 liters/min, 0.3 bar (0.26 US GPM, 5 psid)
INTERLOCKS	
OVERTEMPERATURE	Elmwood 3450G thermostat, mounted onto each cooling plate, wired in series. Contacts closed below 40°C
PERFORMANCE	
FIELDS AT MAXIMUM CURRENT OF 5 AMPS	



## FIELD UNIFORMITY



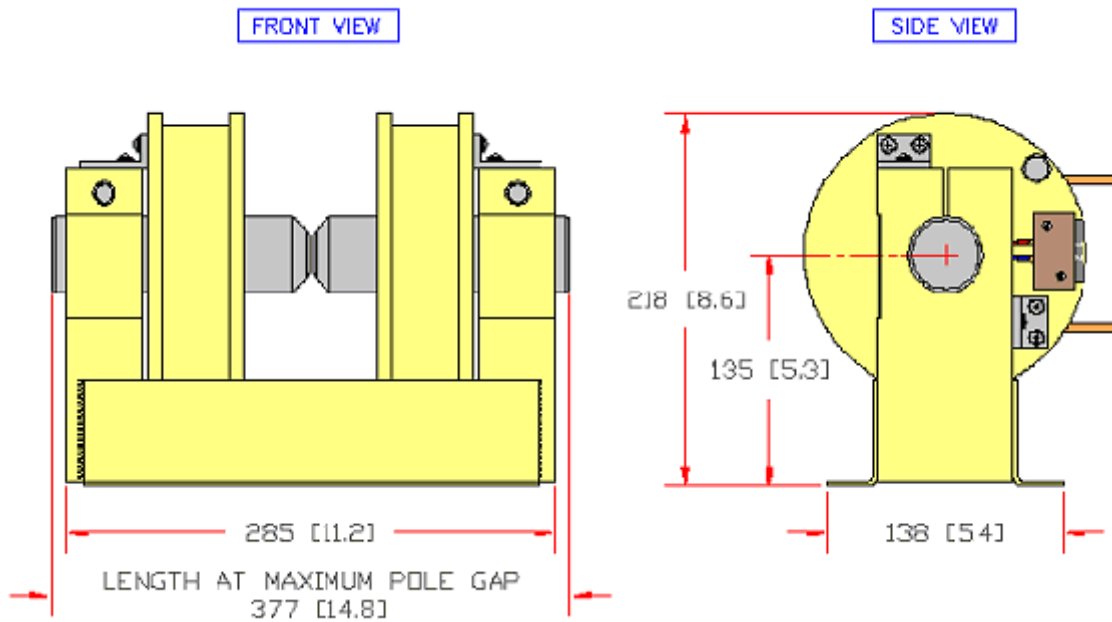
10MM POLE GAP, 5 AMP S EXCITATION CURRENT



20MM POLE GAP, 5 AMP S EXCITATION CURRENT

## DRAWINGS

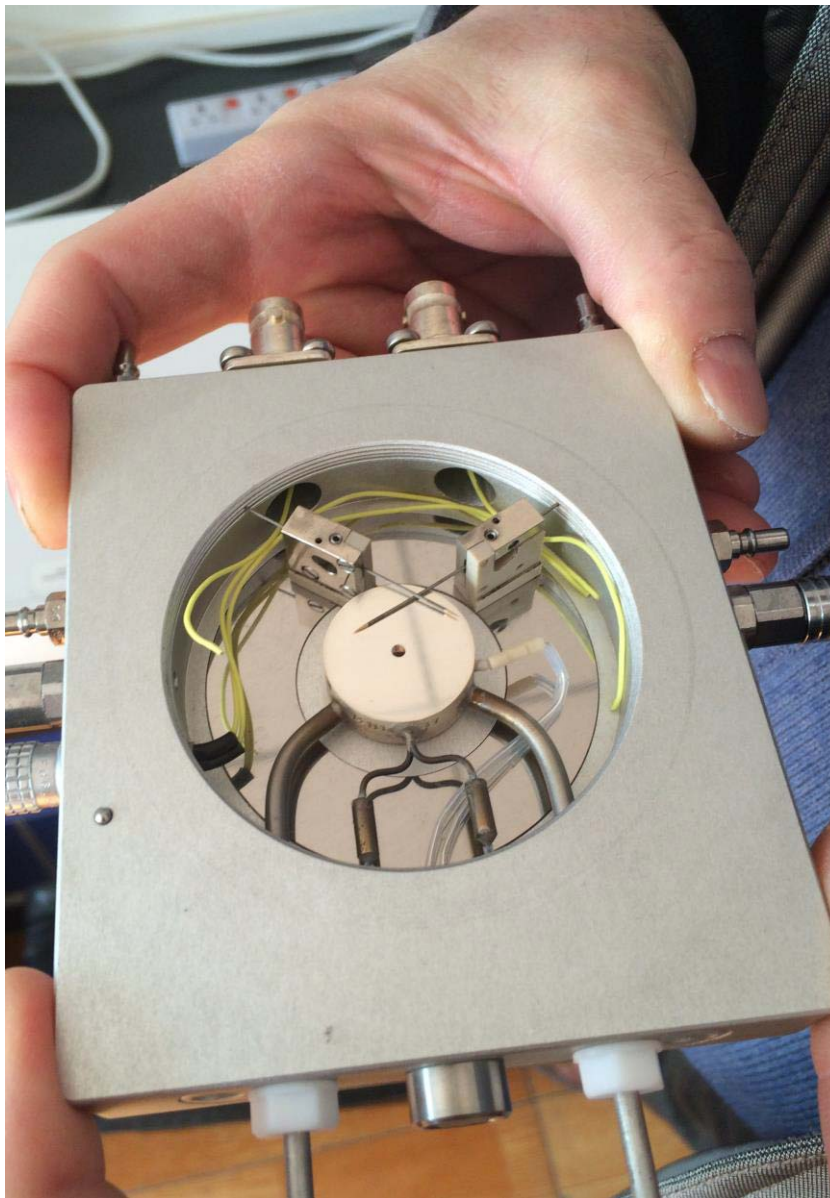
### GENERAL ASSEMBLY



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## 可以选择的两款LN2 变温系统,

1. 英国 Linkam 系统,设计精巧,整个系统采用 compact design,做工精致. 温度范围-196° 到 室温,200° ,400° 和 600° 不等





Linkam 全套系统



## 2. 美国 Instec 变温系统

