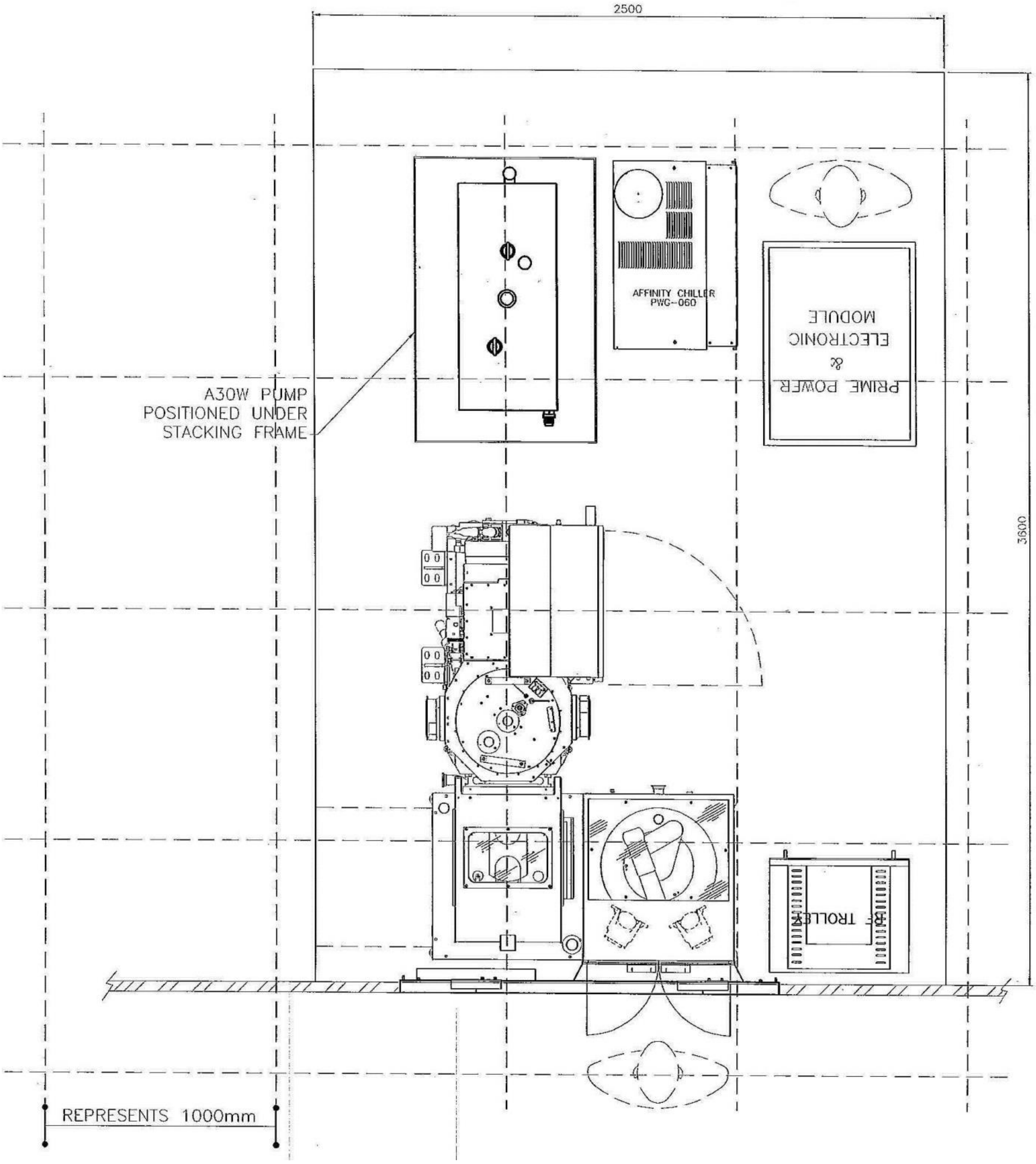
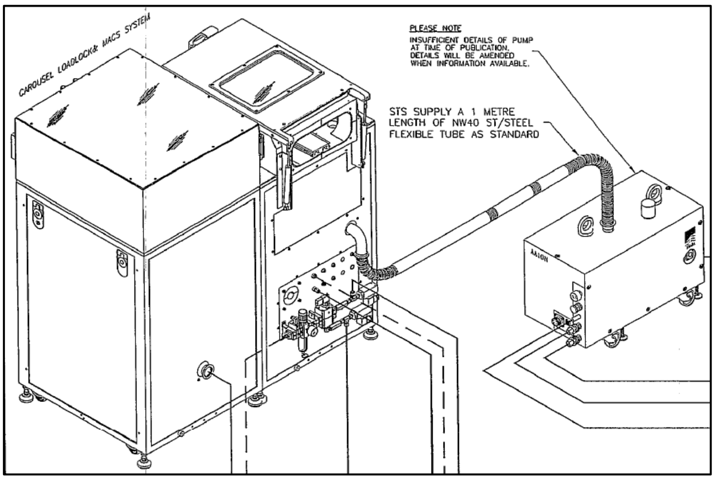
STS MACS ICP^{HR} Etch System

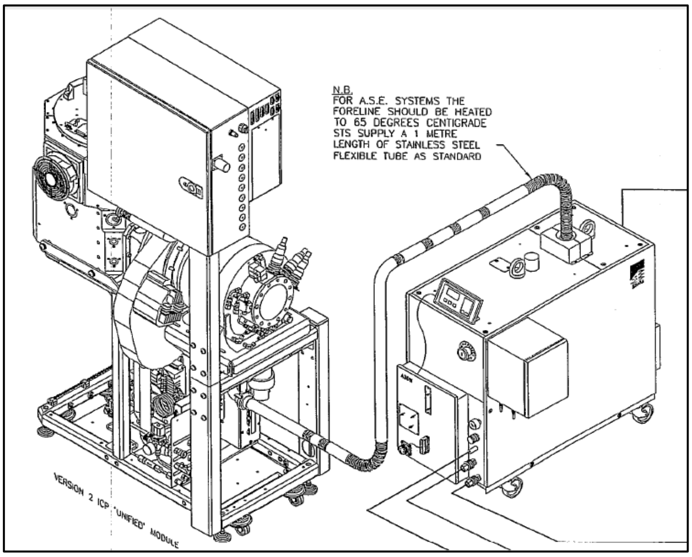


FOOTPRINT LAYOUT OF MACS ICP (HR)

Item List	Description
Manufacturer:	**STS**
Model:	**MACS ICP^{HR}**
Wafer Size:	**150/200mm. The current status is mainly 200mm.**
Tool Condition:	**Used**
Chamber Quantity:	**1 Chamber**
Volts / Hz/Ph:	**380 Volts / 60 Hz ,40 Amps/phase**
Vintage:	**2003**

- **System General View :**





- System Components and Configuration
- Advanced Silicon Etch (ASE) with Bosch process
- HR Chamber for High Rate Etch
- Set up for 200mm wafer (150mm-200mm capable)
- MACs Loader for Cassette to Cassette operation (2 load stations)
- Carousel vacuum load lock
- Helium Backside Cooling (HBC)
- HBC Assy: ICP V2
- Clamp Type: Standard WTC
- Lower Electrode: ICP WTC Tripod Lift
- Chamber Insulation Jackets: None
- **RF Generators:**

1. Coil RF Power : ENI GHW-50Z 5kw
2. Platen RF Power : ENI ACG-3B 13.56MHZ, 300W

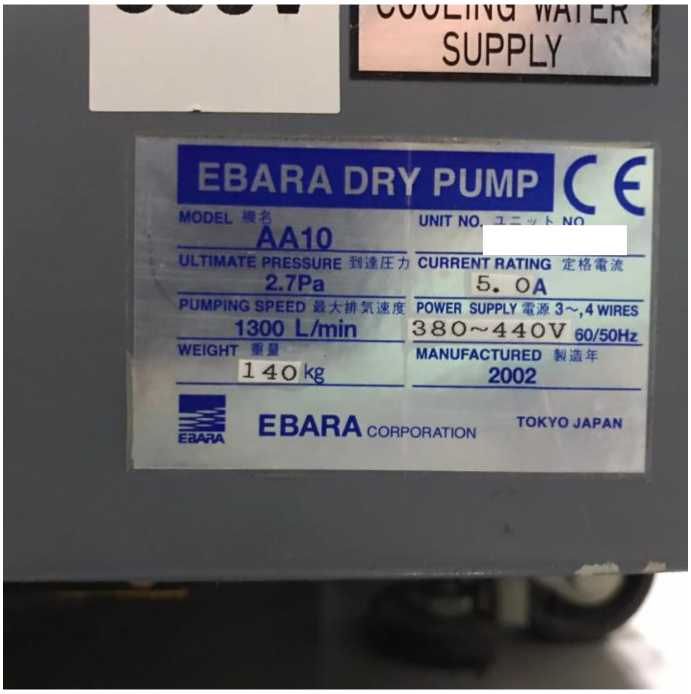
- Gases: C_4F_8(200 sccm)、SF_6(1000 sccm)、O_2(2000 sccm)、N_2 (500 sccm)

- **Vacuum System**

1. Turbo Pump: LEYBOLD MAG 2000
2. Load Lock Pump: EBARA AA10
3. Chamber Pump: EBARA A30W

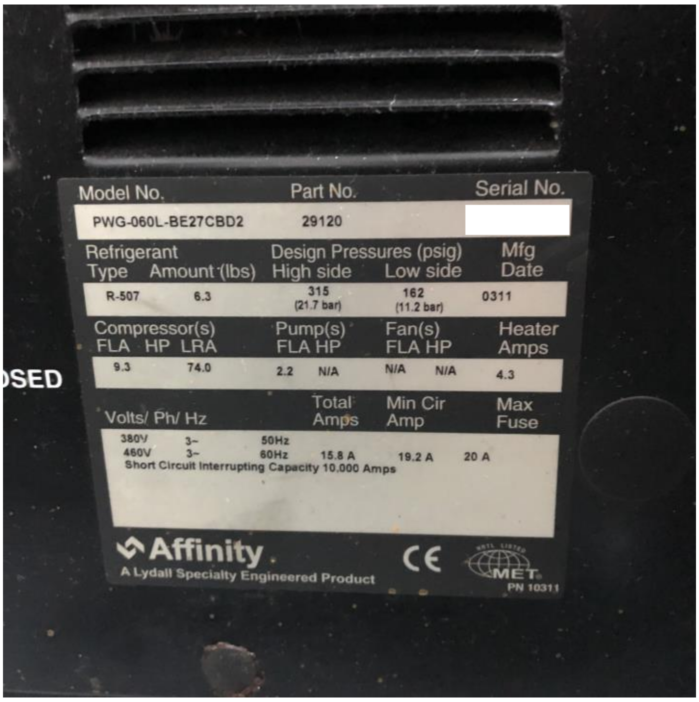
- **Chiller: Affinity PWG-060L-BE27CBD2**

Photos:



EBARA DRY PUMP CE
MODEL 機名 AA10
UNIT NO. ユニット NO. [redacted]
ULTIMATE PRESSURE 到達圧力 2.7Pa
CURRENT RATING 定格電流 5.0A
PUMPING SPEED 最大排気速度 1300 L/min
POWER SUPPLY 電源 3~,4 WIRES 380~440V 60/50Hz
WEIGHT 重量 140 kg
MANUFACTURED 製造年 2002
EBARA CORPORATION TOKYO JAPAN

EBARA DRY PUMP
機名 MODEL A30W
ユニット番号 UNIT NO. [redacted]
到達圧力 ULTIMATE PRESSURE 0.27/0.4 Pa
概略質量 APPROX.WEIGHT 330 kg
最大排気速度 PUMPING SPEED 3600/3000 L/min
定格電流 CURRENT RATING 18.5/19.7 A
電源 POWER SUPPLY 3Ph 200-220V/200V 60/50Hz
EBARA CORPORATION Please read the instruction manual TOKYO JAPAN



Model No.	Part No.	Serial No.
PWG-060L-BE27CBD2	29120	[redacted]

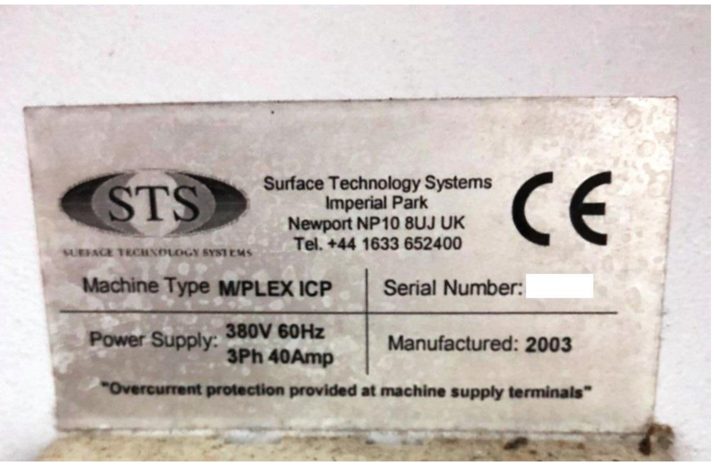
Refrigerant Type	Refrigerant Amount (lbs)	Design Pressures (psig) High side	Design Pressures (psig) Low side	Mfg Date
R-507	6.3	315 (21.7 bar)	162 (11.2 bar)	0311

Compressor(s) FLA	Compressor(s) HP	Compressor(s) LRA	Pump(s) FLA	Pump(s) HP	Fan(s) FLA	Fan(s) HP	Heater Amps
9.3		74.0	2.2	N/A	N/A	N/A	4.3

Volts/ Ph/ Hz			Total Amps	Min Cir Amp	Max Fuse
380V	3~	50Hz			
460V	3~	60Hz	15.8 A	19.2 A	20 A

Short Circuit Interrupting Capacity 10.000 Amps

Affinity
A Lydall Specialty Engineered Product
MET
PN 10311



STS
SURFACE TECHNOLOGY SYSTEMS

Surface Technology Systems
Imperial Park
Newport NP10 8UJ UK
Tel. +44 1633 652400

Machine Type M/PLEX ICP

Serial Number: [redacted]

Power Supply: 380V 60Hz
3Ph 40Amp

Manufactured: 2003

"Overcurrent protection provided at machine supply terminals"