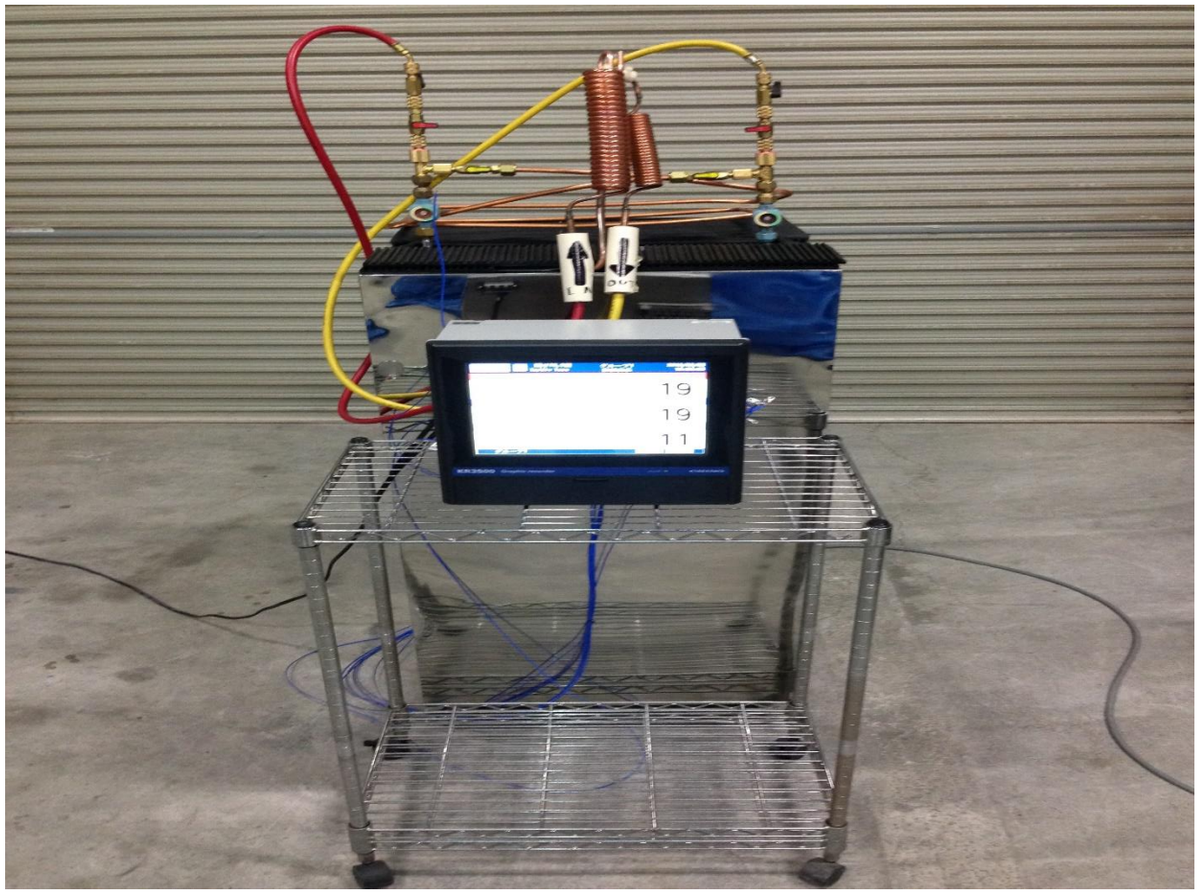


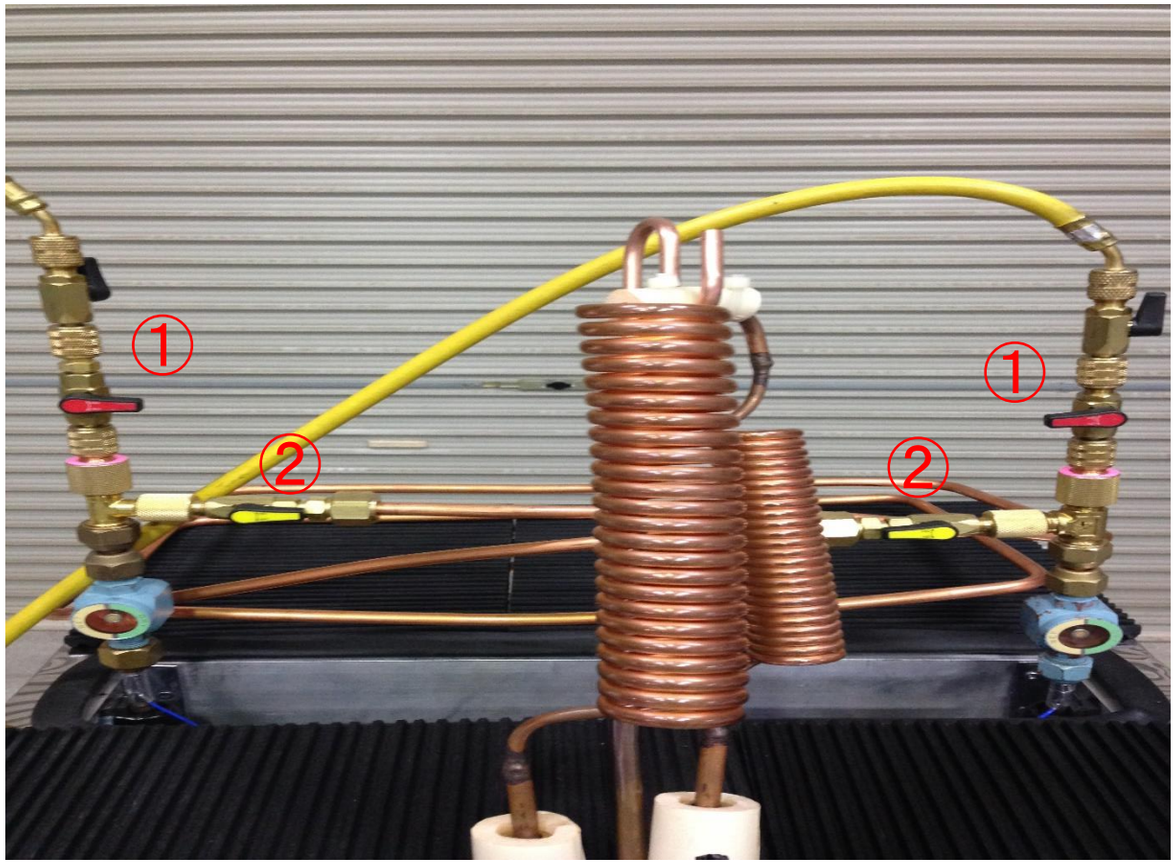
Whole view of test machines

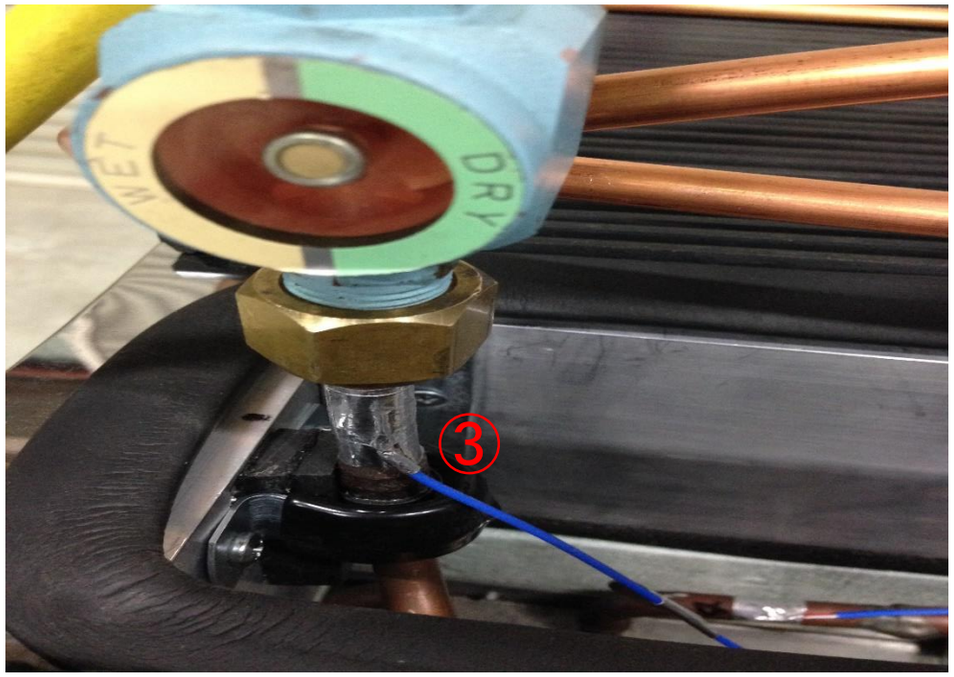
Compressor
Manufacturer: SANYO co.
Output: 750W(1HP)

Monitor
Manufacturer: Chino co.
Model: KR3S00 Graphic recorder

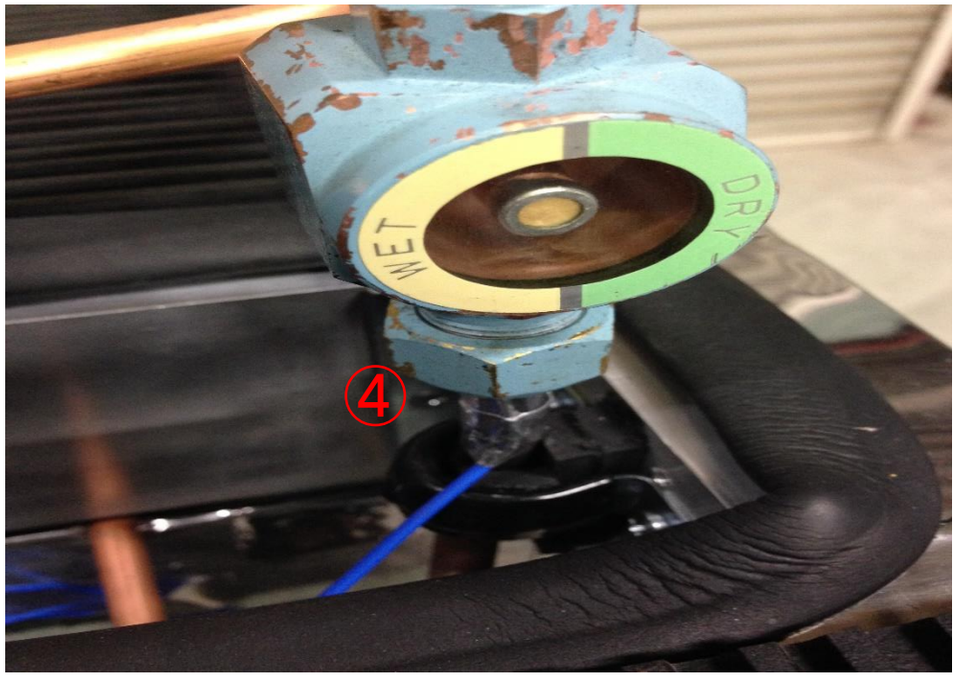
①・・・Isolation valve
for the coil piping

②・・・Isolation valve
for the normal piping

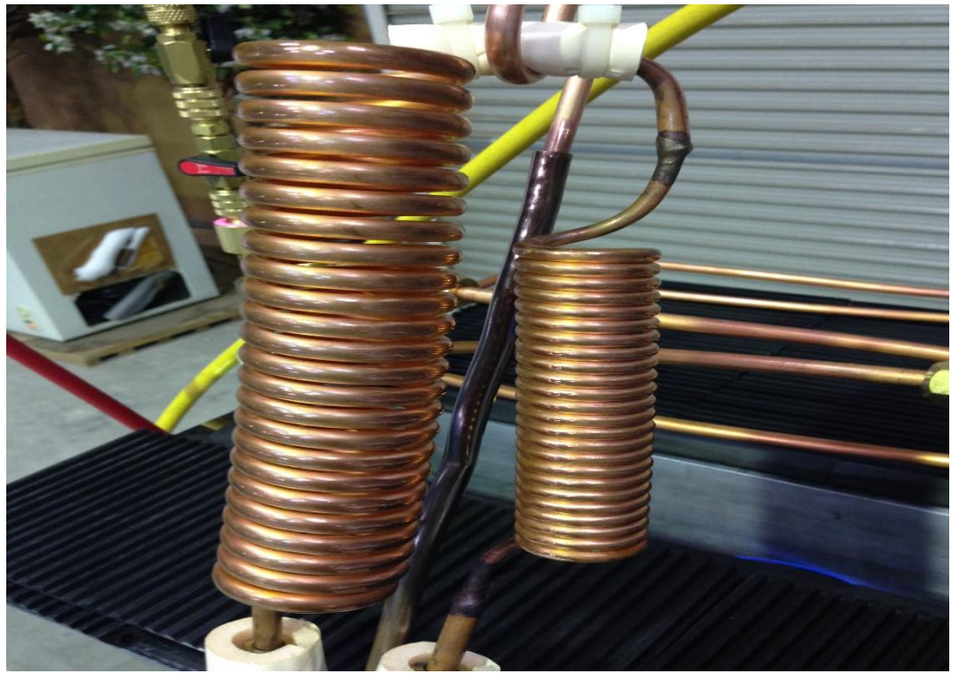




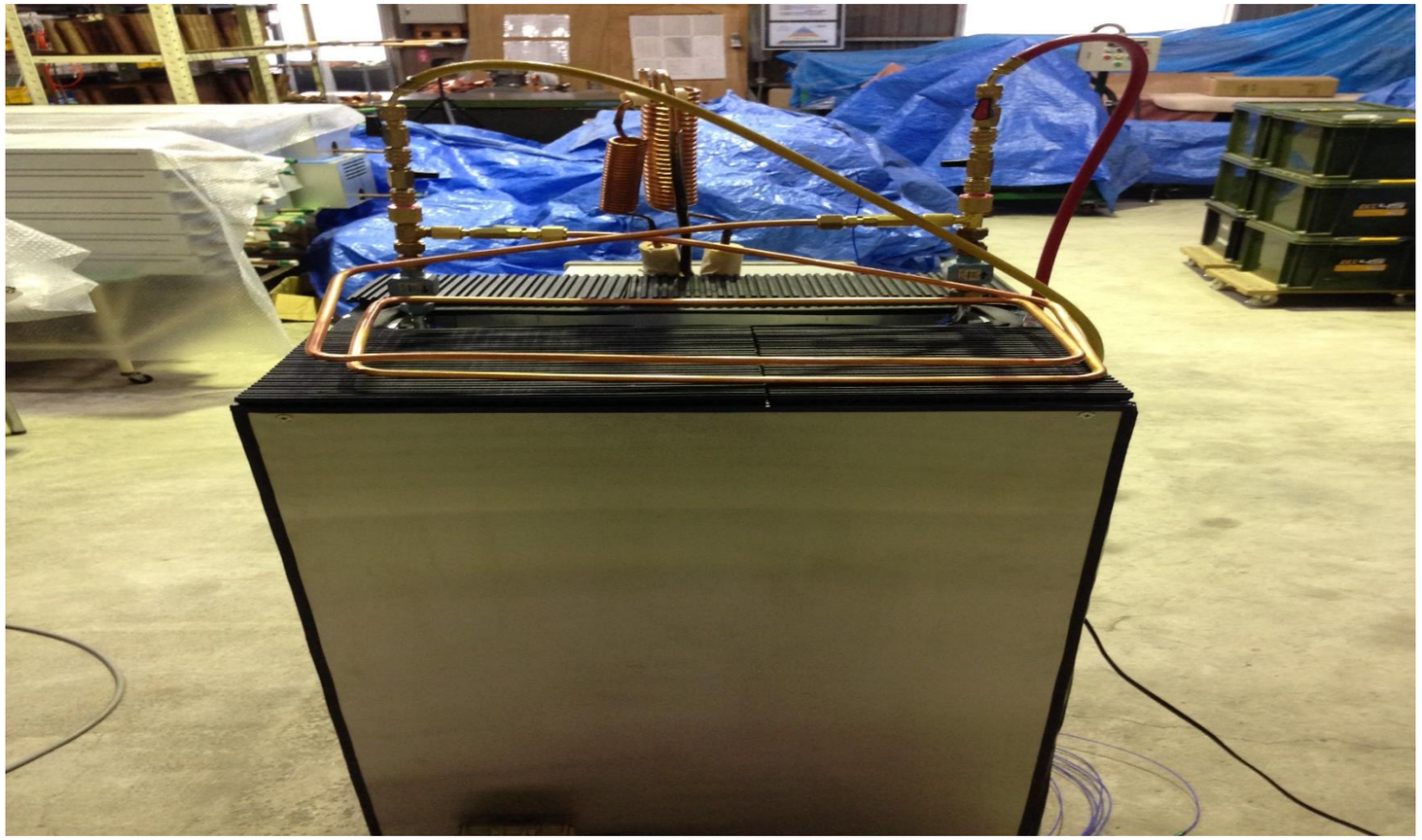
③・・・Thermo sensor for inlet point

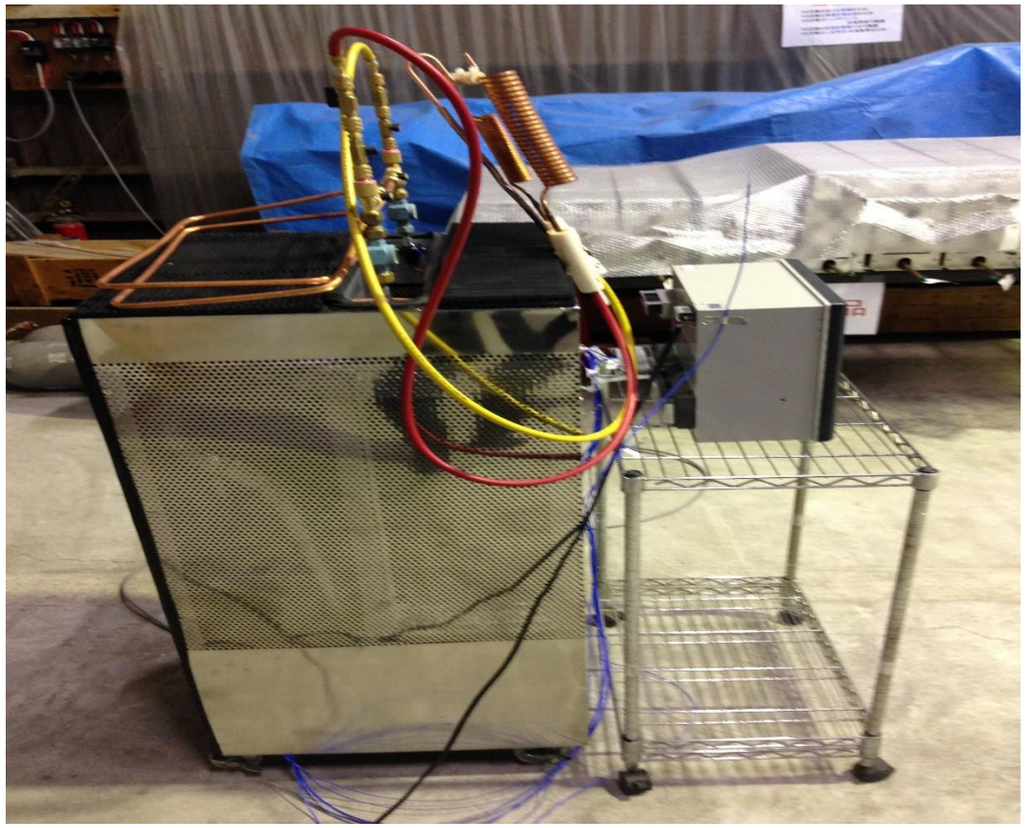


④・・・Thermo senor for outlet point



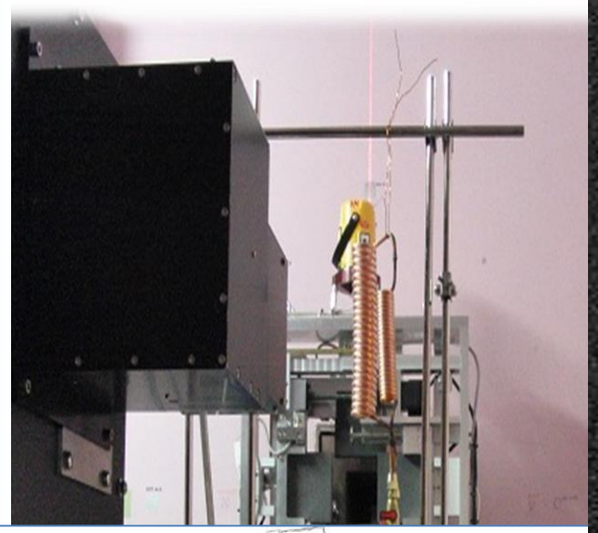
※To demonstrate that the increase of the heat exchange area is not the reason of the temperature drop, the surface areas of the copper tubes through which the refrigerant passes are made same between the normal piping and the coil piping.

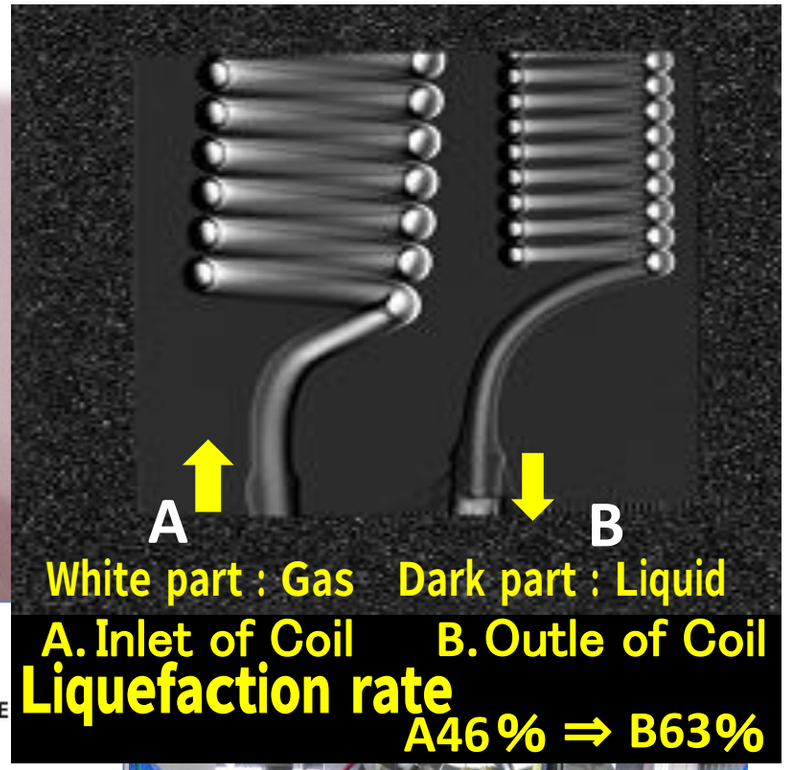


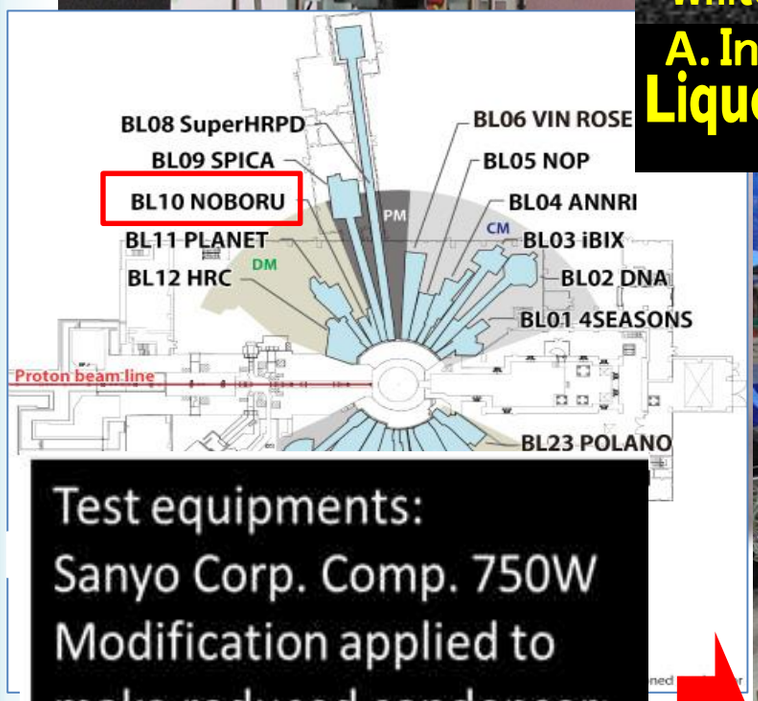


By introduction of Spiral Coil, subcooling is achieved in refrigerators and cooling systems.

Experiments of neutron irradiations to the coil were tried at BL10 NOBORU in J-PARC (Japan Proton Accelerator Research Complex) Materials and Life Science Experimental Facility (MLF)







Test equipments:
Sanyo Corp. Comp. 750W
Modification applied to make reduced condenser: evaporator=1:1