DBL 보유 장비 안내

메가테스트	부유미생물측정기	Sound Meter	온도분포 Validator
온·습도 측정기	Particle Counter	Decade Resistance Box	Velometer
Valometer	Vibration meter	3-Phase Energy Analyzer	DC V/A Standard
Clamp meter	Lightmeter	Mano meter	Multimeter
Tachometer	RTD Sensor Calibrator	Aerosol Photometer	DOP Generator

실험시설 유지관리 필수 항목

HVAC System & Commissioning

- Hydronic Balance Testing
- Sound Measurement Testing
- Vibration Testing
- Alarms and Interlocks Testing
- Air flow rate testing in duckwork
- Air Volume Supply and Return, testing and balancing
- Fan RPM and Amperage
- Temperature, humidity (coil duties) and static pressrue testing (duct leakage)
- Loop Checks

- Verification of the proper operation of air coils, air handling units, fans and air filters, Including test sequence, shut-down, and start-up
- P&ID walkdown, resulting in an "as-bult" P&ID
- Utilties Check
- Instrument Calibration
- Electrical Power Tests
- Lubrication checks
- Isometric Drawing checks
- Safety Checks

IQ (Incomming Quality)

1) Verification of critical Instrument calibration
2) TAB check
3) P & ID check
4) Critical instrument installation check
5) Equipment / Instrument check
6) Filter check
7) Material and lubricant check
8) Utilities check
9) Review of supporting engineering documentation
 - Mechanical / Electrical construction
 - Commissioning
 - Proper Labeling on facilities, equipment, instrument, valves and etc.
 - Engineering diagram or drawing
 - Manual for operation and preventive maintenance

OQ (Outgoing Quality)

1) Prerequisites for commencement of OQ execution
 - IQ report review
 - Cleaning
 - SOP's (operation, maintenance, etc.) draft
2) Verification of critical instrument calibration
3) Operational tests
 - Room air volume (supply & exhaust air volume) test or air exchange test
 - HEPA filter integrity test (DOP test)
 - Monitoring of room differential pressure
 - Monitoring of room temperature and RH
 - Power ; fail and recovery test
 - Unmanned airborne particle monitoring
 - Airborne particle removal test
 - Unmanned microbial level checks
 - Test completion verification