

Temperature building 6:

**In the comparison lab (dissemination la)**

- One plug for the water triple point maintenance bath

**In the fixed point lab (primary lab)**

- One plug for the water triple point maintenance bath
- One plug for the air bath for the resistors
- One plug for the pressure regulator
- **6X** plugs one for each furnaces for metal fixed point cell realization

In total **10** plugs for uninterrupted power supply.

Mbuso building 7:

To run our two main machines we would need:

- Power: **60 – 80 kVA (67 kVA Nominal)**
- Minimum current: **100 A (three-phase)**
- Minimum voltage: **400 V**
- Power factor **0.96**
- UPS backup duration **30 mins**

Riaan building 7:

The primary and secondary microphone calibration system last year:

- 4,5 kW Pure sinewave dual online conversion with 2-hour backup capacity

The important things are (from what I can recall):

1. Capacity 4,5 kW
2. Pure sine wave
3. Dual online conversion
4. Protection on supply and load side (voltage, current, frequency, harmonics)
5. Backup time
6. Monitoring feature, health status of UPS incl. batteries