

Date: 4. 8. 2012

**Measurement:**

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## ***01v2a – Noise level of Closed loop***

**Tested cooling unit:**

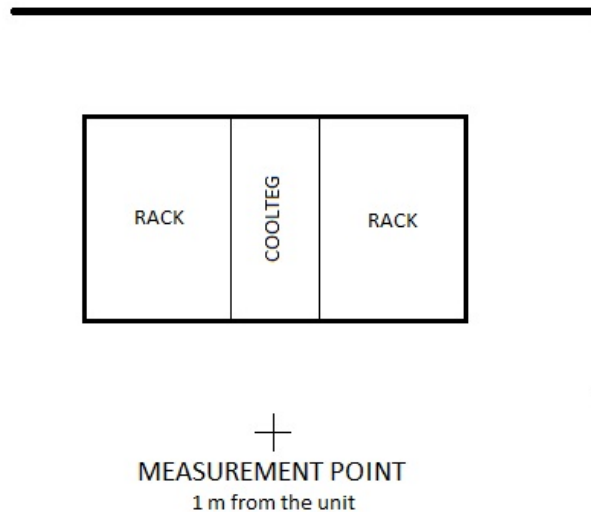
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- Closed loop (2 racks, 1 CoolTeg type AC-SM-CW/C4-42-30/120 with AC fans);
- DX unit has the same type of AC fans, so we assume the noise level to be the same.

**Method of measurement:**

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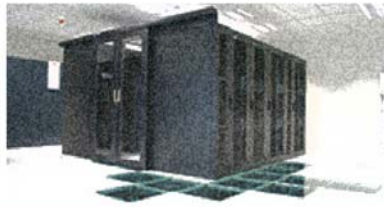
Measuring device: Real time octave band analyzer Extech 407790



Measurement parameter: maximum sound pressure level (frequency weighting A):  $L_{Amax}$  [dB(A)]

Measurement time: 1 min

Measurement point: measured at several different locations, the dB noted here was selected at the loudest point measured, in front of the unit;  
distance from the unit 1 m;  
height of microphone 1,5 m; direct at the unit

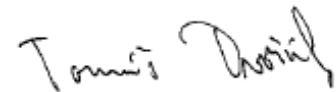


**Result:**

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Maximum sound pressure level weighting A in 1 m:  $L_{Amax} = 69,8 \text{ dB(A)}$

Note: both racks were empty at the time of measuring without any IT equipment;  
noise level was measured at two different fan speeds (80 and 100 %), the difference  
between 80 and 100 % is 0,5 dB(A)



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