Design of cooling system for equipment installed in RACK's 42U 19"
Presentation Plan

1. Purpose and scope of the work
2. Components of the cooling system
3. Assembly of the construction
4. Influence of liquid cooling media
5. Conclusions and final observations
Purpose and scope of the work

• The designed system is a closed system operating with liquid and air cooling medium

• Adaptation of the designed structures for existing RACK’s dimensions

• Easy to assemble

• Airflow control

• Possibility of emergency cooling

*Floor-standing RACK cabinet 19" 42U*
Components of the cooling system

1. Element constituting a connection of the enclosure interior with the cooling system, called casing
2. Emergency carrier profile
3. Servo drive housing
4. Carrier transport profile
5. Ventilation panel PWD-4W
6. Liquid cooler module

*RACK 47U 19" without side walls*
Assembly of the construction
The operation of the entire cooling system

RACK 42U 19" with directions of air flow
Influence of liquid cooling media

A group of 4 RACK’s with an installed cooling system
Influence of liquid cooling media
A cooling system must be provided not only to prevent damage to the vital parts of the electronic devices (due to high temperature), but the temperature of these components must be maintained within certain limits in order to obtain maximum performance from the electronic devices.

Right solution is to precisely plan the cooling from the very beginning as an important component to ensure trouble-free operation of the system.
Thank you for your attention

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