

DETERMINATION OF SOUND RADIATION OF GÜNTNER-CONDENSERS/ DRYCOOLERS AND CALCULATION OF THE SOUND DISTRIBUTION

CLIENT Hans Güntner GmbH, Fürstenfeldbruck

CONTRACTOR ACCON GmbH

PROJECT DESCRIPTION

For an entire product range, the sound power levels of the air inlet and outlet and the directivity of the air outlet has been determined. With these emission parameters, the free field sound pressure level distribution was calculated according to ISO 9613-2 using the software CadnaA (www.datakustik.com). The results can be retrieved as coloured maps of sound pressure level distribution using a product selection software by Hans Güntner GmbH.

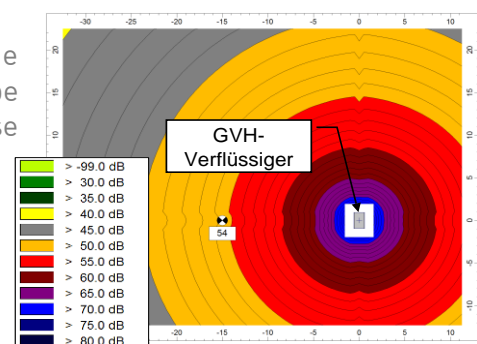


Determination of the sound power level in the reverberation room of ACCON GmbH in Greifenberg

Upon request, a GVH computer model can be adapted to the local situation and the corresponding CadnaA-file can be provided. The data can be implemented into an overall noise concept by an acoustic consultant. The calculations can be carried out for individual receiver points (e.g. distinct locations as defined by the local authorities) or for a calculation area.

The calculation of noise propagation for a GVH condenser/drycooler may form a part of the specifications for plants that require technical approval.

With the available GVH specific noise maps, Hans Güntner GmbH can advise their customers on the selection of suitable types of condensers or dry-coolers and their location of installation, considering permitted noise levels in the vicinity.



Sound propagation, calculated with the software CadnaA

SERVICES

- Determination of sound power (total and partial levels)
- Determination of directivity indices
- Development of a parameterised three-dimensional computer model
- Automated output of the calculated noise map