

# HEGEL DualAmp™

## **DualAmp™ Technology.**

All HEGEL audio amplifiers is using a new kind of distributed amplifier technology called DualAmp™ Technology. This technology is used in all integrated amplifiers and power amplifiers from HEGEL.

In normal audio amplifiers the voltage gain stages and current gain stages are combined in the same amplifier module.

DualAmp™ Technology from HEGEL separates the voltage gain stage and the current gain stage in two completely different stages.

First the music signal goes to the voltage gain stage, amplifying only the voltage level of the music signal. By doing only voltage gain in this first stage we can use amplifier building blocks that are specially designed to do voltage amplification.

After the separate voltage gain stage we have the current gain stage, doing only current gain and nothing else. In this way we can use amplifier blocks that are specially designed to do current gain. The current gain stage is needed to deliver a lot of current to the loudspeakers connected to the audio amplifier.

By separating these two stages we can keep the sensitive parts of the voltage gain stages away from the large speaker currents in the current output stage.

The output of the voltage gain stage is connected to the input of the current gain stage. There is no feedback from the current gain stage to the voltage gain stage.

The Hegel DualAmp™ technology gives lower total distortion and a higher dynamic range than normal audio amplifiers.

The Hegel DualAmp™ technology is developed in-house by HEGEL, and is only found in HEGEL products.