

# KÜTH USER'S MANUAL



# SPECS :

Please feed Küth with a 9V center negative power supply. Küth actually accepts tensions up to 15V if you need more headroom.

Küth will draw 20mA maximum.

Remember : Küth is always on.

# WHAT IS KÜTH ?

To explain the concept behind Küth, let's decompose the bass spectrum in three: the first part that comes to mind is what we actually call « the bass » and which would consist of the fundamental frequencies of the low strings of a bass guitar. The lower frequency of this part of the spectrum is around 50Hz. Then below 50Hz, we have « the sub », which goes down to 20Hz. It's these cool very low frequencies that shake your chest in an amplified concert. Then under 20Hz are frequencies that we can't hear neither feel. We will call these frequencies « wind ». Now, there's not always wind, a bass guitar plugged straight in an amp won't do that much wind. But then wind can arrive when you begin to stack fuzzes, overdrives, octavers and resonant filters. You can see the wind if you look at how the loudspeaker moves when you just put your hands on the strings of your instrument without actually playing it : if you can see your loudspeaker going back and forth slowly, then there's wind...

Küth is a small tool that helps to cut any unwanted « windy » frequency.

More precisely, Küth contains two high pass filters in serial. Both filters are 2nd order with no resonance. The first filter has a fixed cut off frequency at 20Hz. The second filter has a variable cut off frequency that can be set between 20Hz and 100Hz.

# WHY OR WHEN USE KÜTH ?

If you're a bass or guitar player who's stacking a lot of effects, Küth might help to lower the unwanted windy frequencies that are making your loudspeaker move back and forth. Küth will help the loudspeaker to focus on what's important : the bass and the sub. With Küth, your basses will be tighter, clearer and more precise. Also, this might result in less fatigue to the listener...

# WHAT IS THIS KNOB ?

The knob is used to set the 2nd filter's cut off frequency between 20Hz and 100Hz. People actually likes it the most in the center position.

## <CURVES :

These are the frequency responses of Küth. Green is with the knob set to 20Hz. Magenta is when Küth knob is in the middle, and blue is when the knob is set to 100Hz :

