EQ65 | FILTER SET

User Guide

Eventide®

Contents

Welcome PART 1

1.1   About This Product

EQ65 is a two-band notch/band pass filter set based on the circuit model of the Urei
565 filter set. It allows you to adeptly de-emphasize or completely eliminate selected
frequencies in an audio recording using its dual notch and band pass peak filters, which
can be precisely configured using the fine tuning control. Designated frequencies may
also be attenuated in gradations by using the notch filters in conjunction with the depth
controls. Whatever your audio application may be, the EQ65 will provide you with flex-
ible new options.

EQ65 Filter Set

Low Freq Cutoff Sets the 3 dB cutoff point of the low pass filter. The filter supports 18 dB/octave cutoffs and ranges 5 Hz to 1,000 Hz.

Notch/Peak Filters Sets the center frequency of either a notch or peak filter, displaying its 3 dB point. These filters range 20 Hz to 20 kHz.

Depth Control Sets the amount of attenuation or emphasis for the corresponding notch/peak filter. Depth can be set from a minimum of 0 dB to a maximum of approximately 150 dB.

Notch/Peak Selector Selects the filter type and width of the notch/peak. Each selector supports three widths: 5%, 10%, or 50% of the center frequency at the filter's 3 dB points.

Fine Frequency Accommodates high-sensitivity tuning to help locate the filter's center frequency.

IN/OUT SWITCH AND INDICATOR   Switches its corresponding filter on or off. The indicator will be lit when the notch/peak filter is active.

HIGH FREQ CUTOFF   Sets the 3 dB cutoff point of the high pass filter. The filter supports 18 dB/octave cutoffs and ranges 400 Hz to 20 kHz.

Using the Eventide EQ65 PART 3

The EQ65 is a valuable addition to the sound professional's toolkit. This section lists only a few of its many uses. As you become more familiar with its design and capabilities, you'll be sure to find numerous ways to utilize it that are not listed here.

3.1   Notching Narrow Band Coherent Noise

With its precision frequency selectivity and high Q, the EQ65's notch filter is extremely effective at eliminating undesirable coherent signals such as hums and whistles. To do this, set the center frequency to the fundamental of the unwanted signal using the coarse and fine controls. Use the notch/peak shape selector to select the most effective notch shape. It is often helpful to select the peak mode to help zero in on the target frequency. You can audition the filter's effect using the in/out switch. Signals with significant harmonic content can be attenuated by combining the pair of notch filters. Set one to the frequency of the fundamental and the other to the most prominent harmonic. If additional harmonics are present, you can gang additional instances of the EQ65 and tune the additional notch filters to the higher harmonics.

3.2   Eliminating Low or High Frequency Noise

The EQ65's low pass and high pass filters have sharp roll-offs and extreme stop-band attenuation. This optimized design facilitates eliminating low-frequency rumble and high-frequency hiss.

3.3   Timbre Shaping

The EQ65 can be used to subtly shape the tonality of vocal or instrumental pitches with rich harmonic content by tuning the notch/peak filters to the fundamental or any combination of the harmonics. By adjusting the relative levels of the harmonics, a wide palette of tonality is possible. As described above, multiple instances of the EQ65 can be chained to handle any number of harmonics.

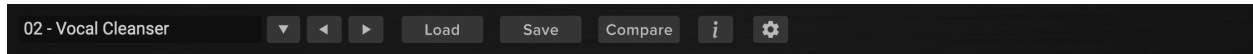## 3.4 Simulations/Special Effects

The precise frequency control and flexibility of the EQ65 can be used to simulate distorted phone lines, cell phones, etc.

3.5   Preset Bar

Located at the top of the EQ65 Plug-In, the Preset Bar lets you load and save presets, along with several other features.

When EQ65 is installed, a library of settings is placed into the **<user>/Music/Eventide/EQ65/Presets** folder (Mac) or the **<user>/Documents/Eventide/EQ65/Presets** folder (Windows). These presets have a **.tide** extension and can be saved or loaded from the EQ65 preset bar in any supported DAW.

In many DAWs there is an additional generic preset bar that saves DAW-specific presets to a separate location. We recommend saving your presets using the Eventide preset bar to ensure that your presets will be accessible from any DAW. You can also create sub-folders inside the preset folders, if you wish.

LOAD/SAVE   Use these buttons to load and save your presets in **.tide** format.

COMPARE   Click to toggle between two different settings for the plug-in. This is useful for making A/B comparisons.

INFO   Click this button to open this manual.

SETTINGS   Opens a drop-down menu with scaling settings for changing the overall size of the plugin.

Conclusion PART 4

We hope you enjoy the EQ65 plug-in and put it to good use in all of your mixes. Please be sure to check out Eventide's other native plug-in offerings for more unique and interesting effects.

For further questions or support, head over to the user forums.