VINTAGE LOFI FX RACK

Ableton Live

20hz Pre/Post	80hz Pre/Post	150hz Pre/Post	300hz Pre/Post	Sampler Device ➡	Circuit ⬅ Noise	Vinyl ➡ Crackle	⬅Vinyl Ducking
0	0	0	0	0	0	0	0.00 dB

8Khz Pre/Post	12Khz Pre/Post	15Khz Pre/Post	18Khz Pre/Post	Vinyl 33RPM	Comp ➡	⬅ Att + Rel	⬅⬅Gain Limiter
0	0	0	0	0	1	0	0.00 dB

VINTAGE LOFI FX RACK

Introducing The Vintage LoFi FX Rack for Ableton Live Standard & Suite, This FX rack is designed to make the audio you put through it shine or not shine with classic thought-out vintage FX. The FX rack is split up into 4 colour coded sections, the sections are, EQ with pre and post-emulated curves from vintage popular devices, Classic Sampler emulations such as the ASR 10, SP-1200 and Emulator with added Circuit noise, Vinyl crackle and vinyl ducking which allows the incoming signal to be ducked, this allows for dynamic breathable vinyl crackling to the incoming signal, Vinyl motor wear and tear which is set to 33RPM, the last section is a Compressor which holds threshold and ratio, Attack and Release from quick to slow times and to finish off a limiter with gain control, allowing for the output to be -6dB to +3dB and a fixed ceiling of 0.10dB. Each section along with how the emulations of the sections will be explained in short detail.

The Vintage LoFi FX rack comes in two different versions, the first being a free version where you can utilise the EQ, Vinyl crackle, Ducking, Vinyl Motor and Limiter, this is to trail the device and if you like it you can then get the paid version which will only be £5.

I have always had a love for LoFi, I wanted to make a device which was easy, quick, affordable and has overall quality with using Ableton Live's stock plugins and my 12+ years of Ableton Live experience the device is one which can make a great tool in your productions and one I will be using for future to come.

20hz Pre/Post	80hz Pre/Post	150hz Pre/Post	300hz Pre/Post	Sampler Device ➡	Circuit ⬅ Noise
0	0	0	0	0	0

8Khz Pre/Post	12Khz Pre/Post	15Khz Pre/Post	18Khz Pre/Post	Vinyl ➡ Crackle	⬅Vinyl Ducking
0	0	0	0	0	0.00 dB

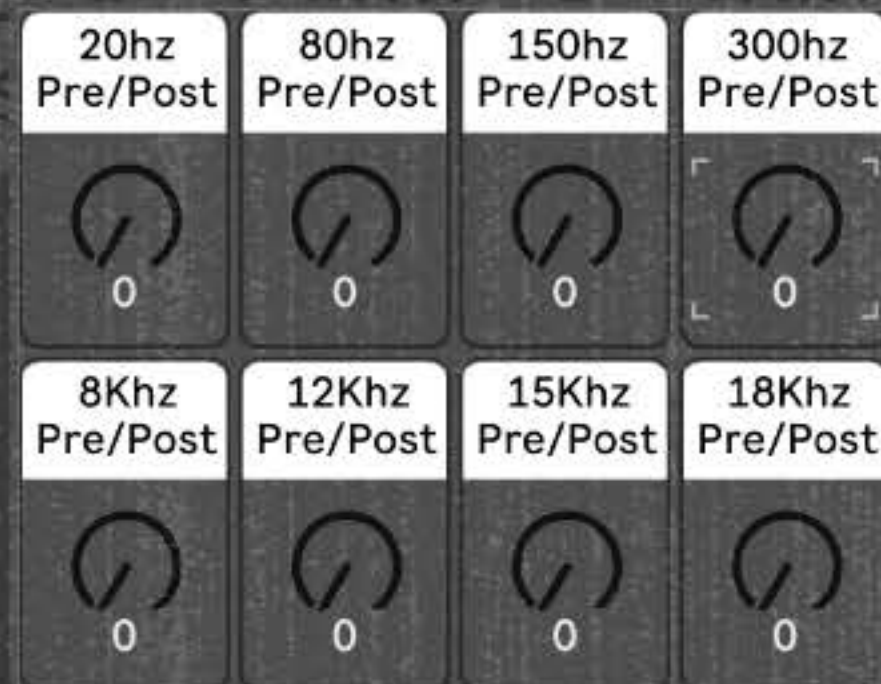| Vinyl 33RPM	Comp ➡	⬅ Att + Rel	⬅⬅Gain Limiter
0	1	0	0.00 dB

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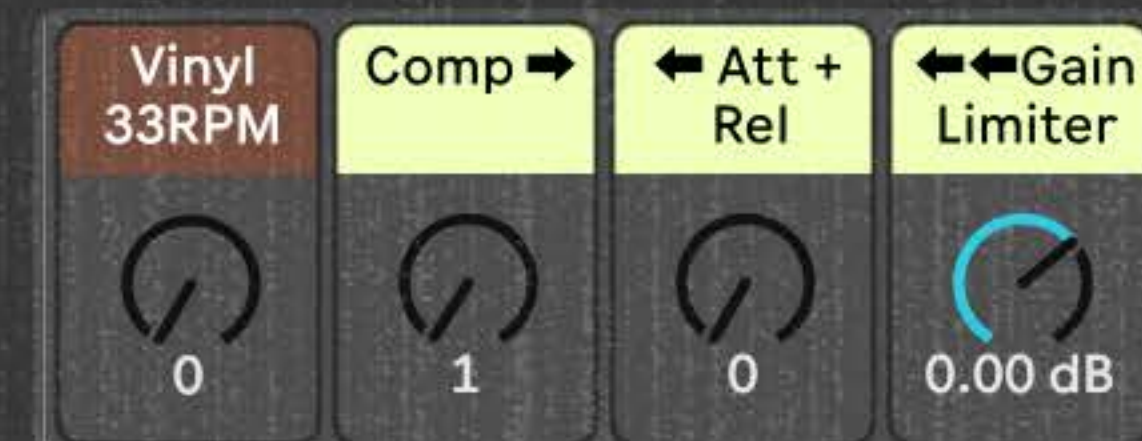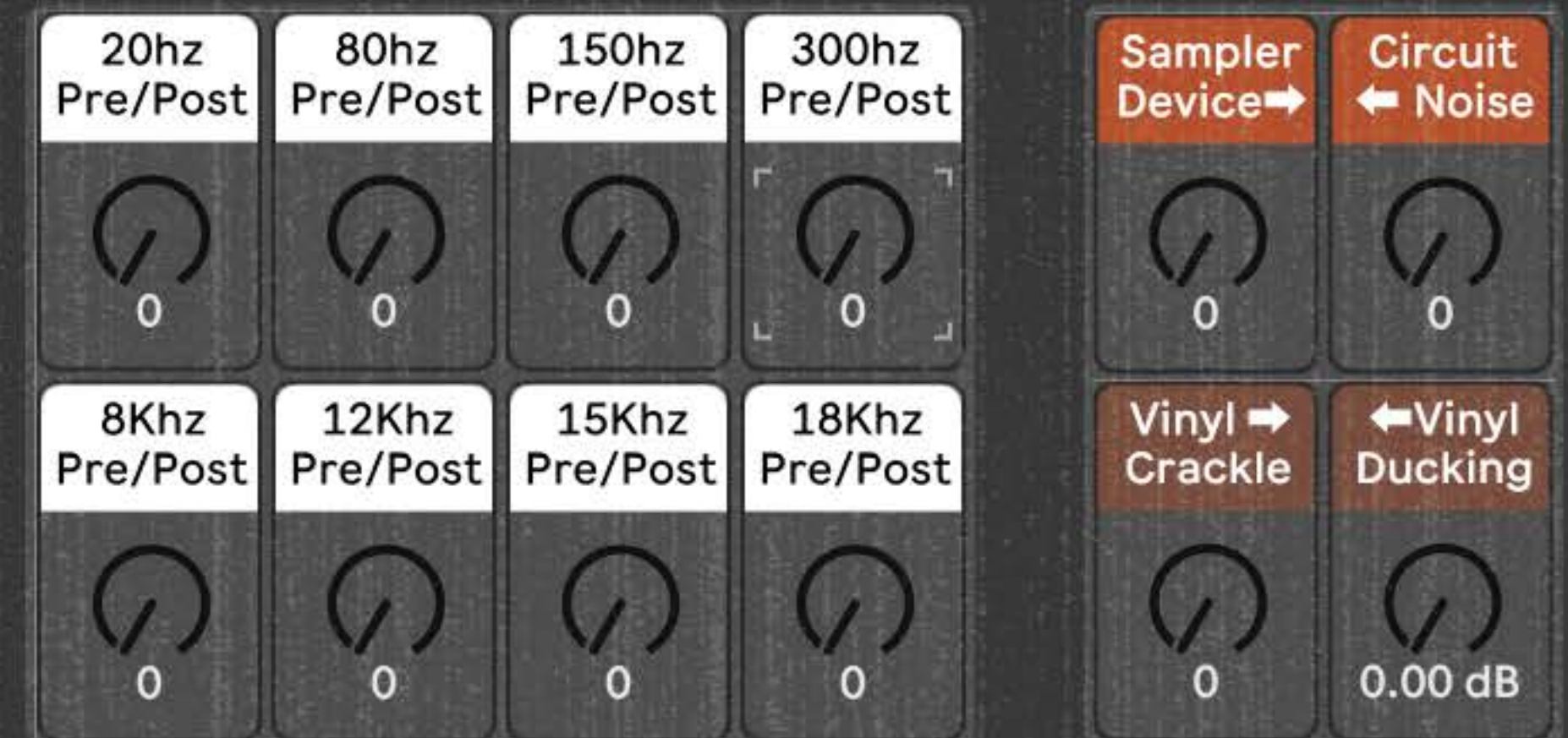
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THE SECTIONS

EQ

The EQ section comprises of 4 low and high pass filters, the filters have been designed to emulate classic EQ curves which will give you the feel of classic EQ hardware, A video explanation can be found on my YouTube channel labelled EQ Curve Matching Ableton Live.

The 4 Low Pass and High Pass filters are either Pre FX or Post FX, this gives you the option to either cut away the frequencies before they reach the FX rack or after. You can also use all the EQ curves together or for example you could cut away some high before the FX this could be 18Khz pre, and then cut away again after the FX chain but using a different Frequency band let's say 15Khz.
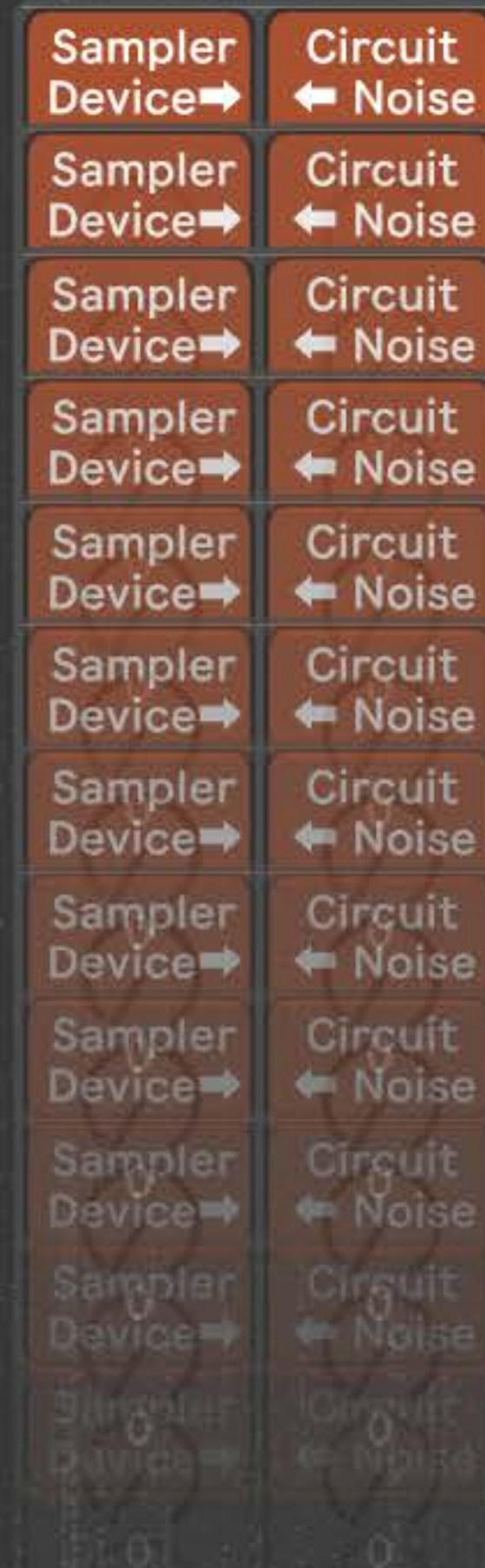
Using different EQ curves can give you unique sounds from emulated hardware curves, this will bring the vintage lofi effortlessly.v

Controls and Value States
0 = OFF
1 - 62 = EQ PRE FX ON
63 = OFF (Leading to Post)
64 - 127 = EQ POST FX ON

20hz Pre/Post	80hz Pre/Post	150hz Pre/Post	300hz Pre/Post
0	0	0	0

8Khz Pre/Post	12Khz Pre/Post	15Khz Pre/Post	18Khz Pre/Post
0	0	0	0

SAMPLER + NOISE CIRCUIT

Sampler Device➡	⬅ Circuit Noise
Sampler Device➡	⬅ Circuit Noise
Sampler Device➡	⬅ Circuit Noise
Sampler Device➡	⬅ Circuit Noise
Sampler Device➡	⬅ Circuit Noise
Sampler Device➡	⬅ Circuit Noise
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Sampler Device➡	⬅ Circuit Noise
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Sampler Device➡	⬅ Circuit Noise

SAMPLER DEVICES recreate 3 classic sampler devices which add sample rate and bit reduction. The three devices start from the cleanest to the dirtyest. When the Macro is turned this switches between the devices, values are shown below to show each sampler and the macro states.

CIRCUIT NOISE add circuit noise to the audio, Bass frequencies have modulating noise via the incoming signal this frequency is set around 544HZ. The High Noise generated noise for the left and right speaker this creates stereo enhancement and is set around 10.4Khz. *note the circuit noise is only active when the Sampler Device macro is set to a value of >1.

Controls and Value states.

Sampler
0 = OFF
1-42 = ASR10 30Khz 16bit
43-86 = SP-1200 26.04 Khz 12bit
87-127 = Emulator 27Khz 8bit

Circuit Noise
0 = OFF
1-127 = Noise level increases

VINYL

The Vinyl section gives you the ability to add vinyl effects to the fx chain, Vinyl Crackle gives you the classic vinyl blips and crackles which you find on a vinyl record when played, you can increase the volume and density via the Vinyl Crackle macro and with the unique feature of allowing you to duck the incoming audio signal to make sidechaining the vinyl crackle easy, this gives you the ability to give the crackling rhythm to what audio is being played through it, there is also a gate in place so when the audio is stopped the vinyl crackle slowly stops, this has been added so if you have multiple Lofi rack loaded the vinyl crackle doesn't mount up and become overused.

The Vinyl RPM is set at 33rpm / 0.55Hz which affects pitch of the incoming signal, this rate is a subtle pitch rate which gives the effect of the vinyl motor variation speeds this goes from 1-127 or clean to need to replace the motor.

Controls and Value States

Vinyl Crackle - 0 = OFF, 1 - 127 = Adds Vinyl Crackle and Blips

Vinyl Ducking - Threshold is 0dB to - 40dB

(Sidechain compressor is set to Att - 0.1ms, Release - 0.8ms, Ratio - 10:1, compressor sidechain HP set to 80Hz

Vinyl 33RPM - 0 = OFF, 1 - 127 = Clean To Replace Motor

COMPRESSOR + LIMITER

The Compressor + Limiter section is the final part of the FX rack, Initially, the device is turned on by default this is really to protect your speakers on the initial start.

The compressor is set to an RMS setting and allows from strong airy room sound to a more leve-led-out audio signal, when the macro is turned the values of the compressor change, values can be seen below.

Attack and Release are also set from fast to slow, the values can be also seen below.

The end of the chain is the Gain Limiter, this device will not work unless the compressor is turned on, the compressor's value should be 1-2 to turn the device on. with the limiter you can effectively bypass the compressor when at a 1 to 2 value and only have the limiter acting, the output value is set to -0.1dB, it has the auto release function and allows you to change the value from -6dB to + 3dB adding that bit more crunch if you choose to do so.

Controls and Value States

Compressor - 0 = OFF, 1-2 = On *, 1-2 - 127 = strength of the compressor 1-2 = Threshold 0dB, Ratio 2:1, 127 = Threshold -40dB, 8:1 Ratio.

Attack & Release = 0 = OFF, 1 = Att - 1.50ms, Rel - 30ms, 127 = Att - 70ms, Rel - 375ms.

Limiter - Only Active if Compressor macro is set to 1-2, Gain Adjustment from 0dB initial state to -6dB and +3db, output ceiling is set to -0.01.

* setting the value to 1to2 activates the compressor, under testing sometimes when the macro was set to 1 the compressor didnt activate but when set to 2 it did.

* * The Gain limiter only works if the Compressor is ON (Macro value set to 1or2)