

Thermal RE

Main operation.



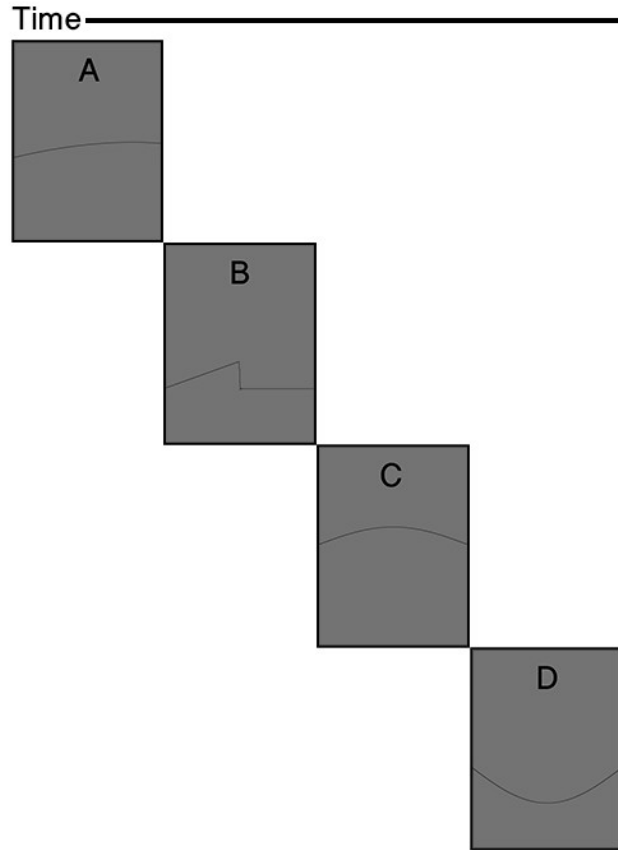
WAVEFORMS:

In Thermal, a single waveform is constructed from a combination of four different wave sections.

Each section (ABCD) outputs a quarter of the final waveform. In the example below, the waves from A-1, B-2, C-3, and D-4 (img1.), play in sequence to form the end waveform (img.2). Number 1 to 8 in each section represents a different quarter wave.

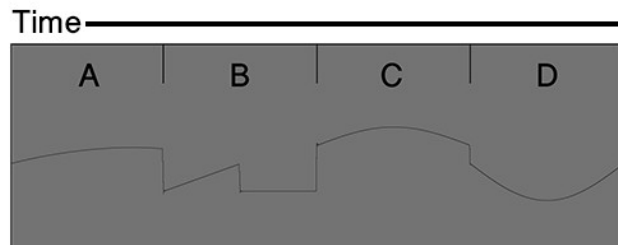
W-A	W-B	W-C	W-D
<input checked="" type="checkbox"/> A-1	<input type="checkbox"/> B-1	<input type="checkbox"/> C-1	<input type="checkbox"/> D-1
<input type="checkbox"/> A-2	<input checked="" type="checkbox"/> B-2	<input type="checkbox"/> C-2	<input type="checkbox"/> D-2
<input type="checkbox"/> A-3	<input type="checkbox"/> B-3	<input checked="" type="checkbox"/> C-3	<input type="checkbox"/> D-3
<input type="checkbox"/> A-4	<input type="checkbox"/> B-4	<input type="checkbox"/> C-4	<input checked="" type="checkbox"/> D-4
<input type="checkbox"/> A-5	<input type="checkbox"/> B-5	<input type="checkbox"/> C-5	<input type="checkbox"/> D-5
<input type="checkbox"/> A-6	<input type="checkbox"/> B-6	<input type="checkbox"/> C-6	<input type="checkbox"/> D-6
<input type="checkbox"/> A-7	<input type="checkbox"/> B-7	<input type="checkbox"/> C-7	<input type="checkbox"/> D-7
<input type="checkbox"/> A-8	<input type="checkbox"/> B-8	<input type="checkbox"/> C-8	<input type="checkbox"/> D-8

1.



2.

W-A	W-B	W-C	W-D
<input checked="" type="checkbox"/> A-1	<input type="checkbox"/> B-1	<input type="checkbox"/> C-1	<input type="checkbox"/> D-1
<input type="checkbox"/> A-2	<input checked="" type="checkbox"/> B-2	<input type="checkbox"/> C-2	<input type="checkbox"/> D-2
<input type="checkbox"/> A-3	<input type="checkbox"/> B-3	<input checked="" type="checkbox"/> C-3	<input type="checkbox"/> D-3
<input type="checkbox"/> A-4	<input type="checkbox"/> B-4	<input type="checkbox"/> C-4	<input checked="" type="checkbox"/> D-4
<input type="checkbox"/> A-5	<input type="checkbox"/> B-5	<input type="checkbox"/> C-5	<input type="checkbox"/> D-5
<input type="checkbox"/> A-6	<input type="checkbox"/> B-6	<input type="checkbox"/> C-6	<input type="checkbox"/> D-6
<input type="checkbox"/> A-7	<input type="checkbox"/> B-7	<input type="checkbox"/> C-7	<input type="checkbox"/> D-7
<input type="checkbox"/> A-8	<input type="checkbox"/> B-8	<input type="checkbox"/> C-8	<input type="checkbox"/> D-8



(ABCD) CONTROLS:

All sections (ABCD) have their own controls for Amp, Pan, Semi, Cent. This enables the user to further modify the final waveform. For example, detune just a part of a waveform, or turning off one section completely by turning down it's amplitude.



MODULTIONS AND SETTINGS:

Thermal also features a control panel for settings and modulations. Polyphony can be enabled/disabled, as can filter key tracking.

Here we also find two modulation ADSR envelopes, and two modulation LFOs. These can be routed to:

Global Pitch

A, B, C or D Pitch

Global Volume

A, B, C or D Volume

Global Panning

A, B, C or D Panning

Global Filter Cutoff

A, B, C or D Filter Cutoff

SETTINGS		ENVs	ATK	DEC	SUS	REL	AMT	DEST.	LFOs	RTE	WF	PHA	RTG	AMT	DEST.
POLYPHONY	OFF	E 1	0	40	0	30	0	-	L 1	50	SIN	0	OFF	0	-
FILTER KEY	OFF	E 2	0	40	0	30	0	-	L 2	50	SIN	0	OFF	0	-