Vienna Instruments
Solo Download Instruments
Clarinet in Eb
Full Library

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Clarinet in Eb. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109-127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

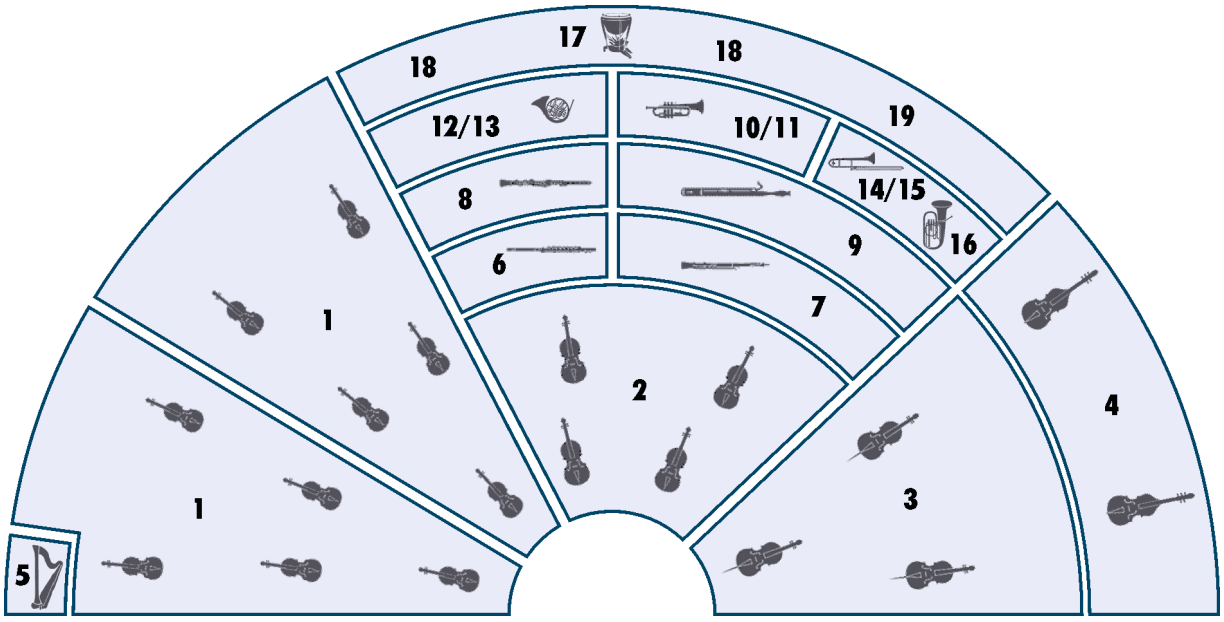
Abbreviation	Meaning	Abbreviation	Meaning
+	faster articulation (runs and arpeggios)	li	light
		lo	long
150, 160, …	150, 160, … BPM (beats per minute)	ma	major
1s, 2s, …	tone length 1 sec., 2 sec., …	me	medium
acc	accelerando	mi	minor
all	combination of all Patches of a category	mord	mordent
		nA	normal attack
arp	arpeggio	noVib	without vibrato
cre	crescendo	perf-rep	repetition performance
dim	diminuendo	por	portato
dm	diminished (arpeggios)	run	octave run
dyn	dynamics (crescendo and diminuendo)	sA	soft attack
		sl	slow
dyn5, dyn9	dynamics, 5/9 repetitions	sta, stac	staccato
fa	fast	str	strong
faT	fast triplets	sus	sustained
fA	fast attack	T	triplets
fA_auto	attack automation (normal/fast attack)	UB	upbeat
		UB-a1, -a2	1, 2 upbeats
fast-rep	fast repetitions	v1, v2 …	1st, 2nd, … variation
flatter	flutter tonguing	Vib	with (medium) vibrato
fx	effect – flute: tongue-ram staccato	Vib-progr	progressive vibrato
hA	hard attack	XF	cell crossfade Matrix
leg	legato		

Articulations

39 Clarinet-Eb	
01 SHORT + LONG NOTES	Staccato Portato short and medium Portato long with normal, soft, and hard attack Sustained without vibrato
02 DYNAMICS	Light dynamics, 1.5 and 2 sec. Medium dynamics, 1.5, 2, 3, and 4 sec. Strong dynamics, 2, 3, 4, and 6 sec. pfp, 2, 3, 4, 6, 8 sec. Fortepiano, sforzato, sforzatissimo
03 FLATTER + TRILLS	Flutter tonguing normal and crescendo Trills, minor and major 2nd Trills accelerando, minor and major 2nd Dynamics for all trills
10 PERF INTERVAL	Legato Grace notes Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato, portato, staccato slow and fast Dynamics for all repetitions
14 FAST REPETITION	Staccato, 9 repetitions, 140 to 180 BPM Normal and dynamics
15 GRACE NOTES	Grace notes, minor 2nd to octave, up and down

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



1 1st and 2nd violin
2 Viola
3 Cello
4 Double bass
5 Harp
6 Concert flute, piccolo
7 Oboe, English horn
8 Clarinet, bass clarinet
9 Bassoon, contrabassoon
10/11 Trumpet
12/13 Horn
14/15 Trombone
16 Tuba
17 Timpani
18 Drums, cymbals
19 other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

39 Clarinet-Eb

Patches

01 SHORT + LONG NOTES — Range: F3–C7

01 KLEb_staccato — **Samples: 420** — **RAM: 26 MB**

Staccato
5 velocity layers
4 Alternations

02 KLEb_portato_short — **Samples: 420** — **RAM: 26 MB**

Portato, short
5 velocity layers
4 Alternations

03 KLEb_portato_medium — **Samples: 420** — **RAM: 26 MB**

Portato, medium
5 velocity layers
4 Alternations

04 KLEb_por_lo_nA — **Samples: 378** — **RAM: 23 MB**

Portato, long, normal attack
5 velocity layers
Release samples
2 Alternations

05 KLEb_por_lo_hA — **Samples: 84** — **RAM: 5 MB**

Portato, long, hard attack
1 velocity layer
Release samples
2 Alternations

06 KLEb_por_lo_sA — **Samples: 336** — **RAM: 21 MB**

Portato, long, soft attack
4 velocity layers
Release samples
2 Alternations

11 KLEb_sus_noVib — **Samples: 378** — **RAM: 23 MB**

Sustained, without vibrato
5 velocity layers
Release samples

02 DYNAMICS

Range: F3–C7

01 KLEb_dyn-li_1'5s **Samples: 252** **RAM: 15 MB**

Light crescendo and diminuendo, 1.5 sec.
3 velocity layers
AB switch: crescendo/diminuendo

02 KLEb_dyn-li_2s **Samples: 252** **RAM: 15 MB**

Light crescendo and diminuendo, 2 sec.
3 velocity layers
AB switch: crescendo/diminuendo

03 KLEb_dyn-me_1'5s **Samples: 168** **RAM: 10 MB**

Medium crescendo and diminuendo, 1.5 sec.
2 velocity layers
AB switch: crescendo/diminuendo

04 KLEb_dyn-me_2s **Samples: 168** **RAM: 10 MB**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

05 KLEb_dyn-me_3s **Samples: 168** **RAM: 10 MB**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

06 KLEb_dyn-me_4s **Samples: 168** **RAM: 10 MB**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

07 KLEb_dyn-str_2s **Samples: 84** **RAM: 5 MB**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

08 KLEb_dyn-str_3s **Samples: 84** **RAM: 5 MB**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

09 KLEb_dyn-str_4s **Samples: 84** **RAM: 5 MB**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

10 KLEb_dyn-str_6s **Samples: 84** **RAM: 5 MB**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 KLEb_pfp_2s **Range: F3–B6** **Samples: 42** **RAM: 2 MB**

Crescendo-diminuendo, 2 sec.
2 velocity layers

12 KLEb_pfp_3s **Range: F3–B6** **Samples: 42** **RAM: 2 MB**

Crescendo-diminuendo, 3 sec.
2 velocity layers

13 KLEb_pfp_4s **Range: F3–B6** **Samples: 42** **RAM: 2 MB**

Crescendo-diminuendo, 4 sec.
2 velocity layers

14 KLEb_pfp_6s **Range: F3–B6** **Samples: 42** **RAM: 2 MB**

Crescendo-diminuendo, 6 sec.
2 velocity layers

15 KLEb_pfp_8s **Samples: 42** **RAM: 2 MB**

Crescendo-diminuendo, 8 sec.
1 velocity layer

16 KLEb_fp **Samples: 42** **RAM: 2 MB**

Fortepiano
1 velocity layer
2 Alternations

17 KLEb_sfz **Samples: 42** **RAM: 2 MB**

Sforzato
1 velocity layer
2 Alternations

18 KLEb_sffz **Samples: 42** **RAM: 2 MB**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER + TRILLS — Range: F3–A6

01 KLEb_flatter — Range: F3–C7 — Samples: 84 — RAM: 5 MB

Flutter tonguing
1 velocity layer
Release samples

02 KLEb_flatter_cre — Range: F3–C7 — Samples: 42 — RAM: 2 MB

Flutter tonguing, crescendo
1 velocity layer

11 KLEb_trill_1 — Samples: 80 — RAM: 5 MB

Trills, minor 2nd
2 velocity layers
Release samples

12 KLEb_trill_2 — Samples: 80 — RAM: 5 MB

Trills, major 2nd
2 velocity layers
Release samples

13 KLEb_trill_1_dyn — Samples: 40 — RAM: 2 MB

Trills, crescendo and diminuendo, minor 2nd
1 velocity layer
AB switch: crescendo/diminuendo

14 KLEb_trill_2_dyn — Samples: 40 — RAM: 2 MB

Trills, crescendo and diminuendo, major 2nd
1 velocity layer
AB switch: crescendo/diminuendo

15 KLEb_trill_1_acc — Samples: 80 — RAM: 5 MB

Trills accelerando, minor 2nd
2 velocity layers
Release samples

16 KLEb_trill_2_acc — Samples: 80 — RAM: 5 MB

Trills accelerando, major 2nd
2 velocity layers
Release samples

17 KLEb_trill_1_acc-dyn — Samples: 40 — RAM: 2 MB

Trills accelerando, crescendo and diminuendo, minor 2nd
1 velocity layer
AB switch: crescendo/diminuendo

18 KLEb_trill_2_acc-dyn — Samples: 40 — RAM: 2 MB

Trills accelerando, crescendo and diminuendo, major 2nd
1 velocity layer
AB switch: crescendo/diminuendo

10 PERF INTERVAL

01 KLEb_perf-legato **Range: F3–A6** **Samples: 1032** **RAM: 64 MB**

Legato
2 velocity layers
Release samples

02 KLEb_perf-legato_grace **Range: F3–A6** **Samples: 954** **RAM: 59 MB**

Grace notes, legato, minor 2nd to octave
2 velocity layers
Release samples

03 KLEb_perf-marcato **Range: F3–A6** **Samples: 1030** **RAM: 64 MB**

Marcato
2 velocity layers
Release samples

11 PERF INTERVAL FAST **Range: F3–A6**

01 KLEb_perf-legato_fa **Samples: 1068** **RAM: 66 MB**

Legato, fast
2 velocity layers
Release samples

02 KLEb_perf-marcato_fa **Samples: 1106** **RAM: 69 MB**

Marcato, fast
2 velocity layers
Release samples

12 PERF TRILL **Range: F3–A6**

01 KLEb_perf-trill **Samples: 2458** **RAM: 153 MB**

Performance trills, legato, minor 2nd to major 3rd
2 velocity layers
Release samples

13 PERF REPETITION — Range: F3–A6

01 KLEb_perf-rep_leg-sl — Samples: 300 — RAM: 18 MB

Legato, slow
3 velocity layers

02 KLEb_perf-rep_leg-fa — Samples: 300 — RAM: 18 MB

Legato, fast
3 velocity layers

03 KLEb_perf-rep_por-sl — Samples: 300 — RAM: 18 MB

Portato, slow
3 velocity layers

04 KLEb_perf-rep_por-fa — Samples: 540 — RAM: 33 MB

Portato, fast
3 velocity layers

05 KLEb_perf-rep_sta-sl — Range: F3–B6 — Samples: 567 — RAM: 35 MB

Staccato, slow
3 velocity layers

06 KLEb_perf-rep_sta-fa — Samples: 540 — RAM: 33 MB

Staccato, fast
3 velocity layers

21 KLEb_perf-rep_dyn5_leg-sl — Samples: 200 — RAM: 12 MB

Legato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 KLEb_perf-rep_dyn5_leg-fa — Samples: 200 — RAM: 12 MB

Legato dynamics, fast, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 KLEb_perf-rep_dyn5_por-sl — Samples: 200 — RAM: 12 MB

Portato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 KLEb_perf-rep_dyn9_por-fa — Samples: 360 — RAM: 22 MB

Portato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

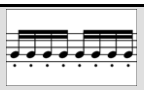
25 KLEb_perf-rep_dyn9_sta-sl — Range: F3–B6 — Samples: 378 — RAM: 23 MB

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

26 KLEb_perf-rep_dyn9_sta-fa **Samples: 360** **RAM: 22 MB**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 FAST REPETITION

Range: F3–B6

01 KLEb_fast-rep_140 (150/160/170/180) **Samples: 126** **RAM: 7 MB**

Staccato, 9 repetitions, 140–180 BPM
3 velocity layers
Release samples

11 KLEb_fast-rep_140_dyn (150/160/170/180) **Samples: 42** **RAM: 2 MB**

Staccato, 9 repetitions, 140–180 BPM, crescendo and diminuendo
1 velocity layer
AB switch: crescendo/diminuendo

15 GRACE NOTES

The samples are mapped to their target note.

01 KLEb_grace-1 **Range: F3–G#6** **Samples: 160** **RAM: 10 MB**

Grace notes, minor 2nd
2 velocity layers
Release samples
AB switch: up/down

02 KLEb_grace-2 **Range: F3–A6** **Samples: 160** **RAM: 10 MB**

Grace notes, major 2nd
2 velocity layers
Release samples
AB switch: up/down

03 KLEb_grace-3 **Range: F3–G#6** **Samples: 156** **RAM: 9 MB**

Grace notes, minor 3rd
2 velocity layers
Release samples
AB switch: up/down

04 KLEb_grace-4 **Range: F3–A6** **Samples: 156** **RAM: 9 MB**

Grace notes, major 3rd
2 velocity layers
Release samples
AB switch: up/down

05 KLEb_grace-5 **Range: F3–G#6** **Samples: 152** **RAM: 9 MB**

Grace notes, 4th
2 velocity layers
Release samples
AB switch: up/down

06 KLEb_grace-6 **Range: F3–A6** **Samples: 152** **RAM: 9 MB**

Grace notes, diminished 5th
2 velocity layers
Release samples
AB switch: up/down

07 KLEb_grace-7 **Range: F3–G#6** **Samples: 148** **RAM: 9 MB**

Grace notes, 5th
2 velocity layers
Release samples
AB switch: up/down

08 KLEb_grace-8 **Range: F3–A6** **Samples: 148** **RAM: 9 MB**

Grace notes, minor 6th
2 velocity layers
Release samples
AB switch: up/down

09 KLEb_grace-9 **Range: F3–G#6** **Samples: 144** **RAM: 9 MB**

Grace notes, major 6th
2 velocity layers
Release samples
AB switch: up/down

10 KLEb_grace-10 **Range: F3–A6** **Samples: 144** **RAM: 9 MB**

Grace notes, minor 7th
2 velocity layers
Release samples
AB switch: up/down

11 KLEb_grace-11 **Range: F3–G#6** **Samples: 140** **RAM: 8 MB**

Grace notes, major 7th
2 velocity layers
Release samples
AB switch: up/down

12 KLEb_grace-12 **Range: F3–A6** **Samples: 140** **RAM: 8 MB**

Grace notes, octave
2 velocity layers
Release samples
AB switch: up/down

98 RESOURCES

Isolated dynamics repetitions: Legato slow and fast, portato, staccato
Single layer long notes
Performance Legato with sustain crossfading

01 Perf Rep dyn — Range: F3–A6

01 KLEb_rep_cre5_leg-sl-1 (2/3/4/5) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Legato slow, cres, 1st to 5th note
1 velocity layer

01 KLEb_rep_dim5_leg-sl-1 (2/3/4/5) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Legato slow, dim, 1st to 5th note
1 velocity layer

02 KLEb_rep_cre5_leg-fa-1 (2/3/4/5) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Legato fast, cres, 1st to 5th note
1 velocity layer

02 KLEb_rep_dim5_leg-fa-1 (2/3/4/5) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Legato fast, dim, 1st to 5th note
1 velocity layer

03 KLEb_rep_cre9_por-1 (2/3/4/5/6/7/8/9 — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Portato, cres, 1st to 9th note
1 velocity layer

03 KLEb_rep_dim9_por-1 (2/3/4/5/6/7/8/9 — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Portato, dim, 1st to 9th note
1 velocity layer

04 KLEb_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Staccato, cres, 1st to 9th note
1 velocity layer

04 KLEb_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) — **Samples: 20** — **RAM: 1 MB**

Extracted repetition
Staccato, dim, 1st to 9th note
1 velocity layer

02 Long Notes - Single Layer — Range: F3–C7

01 KLEb_sus_pp — Samples: 84 — RAM: 5 MB

Sustained, pianissimo
1 velocity layer
Release samples

02 KLEb_sus_mp — Samples: 84 — RAM: 5 MB

Sustained, mezzopiano
1 velocity layer
Release samples

03 KLEb_sus_mf — Samples: 84 — RAM: 5 MB

Sustained, mezzoforte
1 velocity layer
Release samples

04 KLEb_sus_f — Samples: 84 — RAM: 5 MB

Sustained, forte
1 velocity layer
Release samples

05 KLEb_sus_ff — Samples: 84 — RAM: 5 MB

Sustained, fortissimo
1 velocity layer
Release samples

03 Perf Speed variation — Range: F3–A6

01 KLEb_perf-leg_sustain — Samples: 1071 — RAM: 66 MB

Legato with sustain crossfading
2 velocity layers
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 KLEb Articulation Combi — Samples: 1714 RAM: 107 MB

Single note articulations
Staccato, portato short, sustained without vibrato, portato long with hard attack, crescendo-diminuendo 2 and 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	H1	H2	H3	H4	H5	H6
V1	stac	sus no vib.	pfp 2s.	fp	flutter	trill half
V2	port. short	port.long hard attack	pfp 4s.	sfz	flutter cres.	trill whole

L1 KLEb Perf-Legato Speed — Samples: 1337 RAM: 83 MB

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
Legato	sustain XF	normal	fast

L1 KLEb Perf-Repetitions Combi — Samples: 1380 RAM: 86 MB

Repetition performances
Legato slow
Portato fast
Staccato fast

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato fast
V3	staccato fast

Matrix - LEVEL 2 A - Advanced

01 KLEb Perf-Universal — Samples: 2587 RAM: 161 MB

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	sustain	normal	fast
marcato	normal	normal	fast

02 KLEb Perf-Trill Speed

Samples: 2871 RAM: 179 MB

Multi interval performances
Legato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 KLEb Short+Long notes - All

Samples: 1848 RAM: 115 MB

Single notes
Staccato, portato short and medium
Sustained without vibrato, portato long with hard and soft attack

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	portato short	port. medium	sus. no vib.
V2	%	%	%	port.long hard attack
V3	%	%	%	port.long soft attack

Matrix - LEVEL 2 B - Standard

11 KLEb Perf-Legato Speed

Samples: 1337 RAM: 83 MB

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
Legato	sustain XF	normal	fast

12 KLEb Perf-Marcato Speed

Samples: 1412 RAM: 88 MB

Interval performances^mMarcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
Marcato	normal	fast

13 KLEb Short notes - All

Samples: 1848 RAM: 115 MB

Single notes
Staccato, portato short and medium, portato long with normal, hard, and soft attack

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	port. short	port. medium	port.long norm. attack	port.long hard attack	port.long soft attack

14 KLEb Dynamics - Small

Samples: 630 **RAM: 39 MB**

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dynamics	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

15 KLEb Dynamics - Large

Samples: 1512 **RAM: 94 MB**

Dynamics
Crescendo and diminuendo light, medium, and strong
Crescendo-diminuendo with vibrato 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
V1	dyn.light 1.5 sec.	dyn.light 2 sec.	dyn.light 2 sec.
V2	dyn.med. 2 sec.	dyn.med. 3 sec.	dyn.med. 4 sec.
V3	dyn.str. 2 sec.	dyn.str. 3 sec.	dyn.str. 4 sec.
V4	pfp 2 sec.	pfp 3 sec.	pfp 4 sec.
V5	fp	sfz	sffz

16 KLEb Flatter

Samples: 126 **RAM: 7 MB**

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

17 KLEb Trills - normal

Samples: 240 **RAM: 15 MB**

Trills
Normal and dynamics
Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

18 KLEb Trills - accelerando

Samples: 240 **RAM: 15 MB**

Trills accelerando
Normal and dynamics
Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

19 KLEb Trills - All

Samples: 480 **RAM: 30 MB**

Trills constant speed and accelerando
Normal and dynamics
Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

Matrix - LEVEL 2 C - Repetitions

31 KLEb Perf-Repetitions - Combi

Samples: 2247 **RAM: 140 MB**

Repetition performances
Slow and fast legato, fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato fast	staccato slow	staccato fast

32 KLEb Perf-Repetitions - Speed

Samples: 1947 **RAM: 121 MB**

Repetition performances
Slow legato, fast portato, slow and fast staccato
Speed controller

	H1	H2	H3	H4
V1	legato slow	portato fast	staccato slow	staccato fast

33 KLEb Fast-Repetitions

Samples: 378 **RAM: 23 MB**

Fast repetitions
140, 150, 160, 170, 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

Matrix - LEVEL 2 D - Scale+Phrase

51 KLEb Grace notes - All

Samples: 876 **RAM: 54 MB**

Grace notes, minor 2nd to octave
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
interval	min. 2nd	maj. 2nd	min. 3rd	maj. 3rd	4th	dim. 5th	5th	min. 6th	maj. 6th	min. 7th	maj. 7th	octave

Matrix - LEVEL 2 E - Keyswitch Vel

71 KLEb Legato slow - cre5 — Samples: 100 — RAM: 6 MB

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 KLEb Legato fast - cre5 — Samples: 100 — RAM: 6 MB

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 KLEb Portato - cre9 — Samples: 180 — RAM: 11 MB

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 KLEb Staccato - cre9 — Samples: 180 — RAM: 11 MB

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 KLEb Combi - cre5 — Samples: 200 — RAM: 12 MB

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 KLEb Combi - cre9 — Samples: 360 — RAM: 22 MB

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 KLEb Legato slow - dim5

Samples: 100 **RAM: 6 MB**

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 KLEb Legato fast - dim5

Samples: 100 **RAM: 6 MB**

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 KLEb Portato - dim9

Samples: 180 **RAM: 11 MB**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 KLEb Staccato - dim9

Samples: 180 **RAM: 11 MB**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 KLEb Combi - dim5

Samples: 200 **RAM: 12 MB**

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 KLEb Combi - dim9

Samples: 360 **RAM: 22 MB**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

KLEb VSL Preset Level 1 **Samples: 4269 RAM: 266 MB**

L1 KLEb Perf-Legato Speed
L1 KLEb Articulation Combi
L1 KLEb Perf-Repetitions Combi
Preset keyswitches: C2–D2

KLEb VSL Preset Level 2 **Samples: 8546 RAM: 534 MB**

01 KLEb Perf-Universal
02 KLEb Perf-Trill Speed
L1 KLEb Articulation Combi
31 KLEb Perf-Repetitions - Combi
76 KLEb Combi - cre9
Preset keyswitches: C2–E2