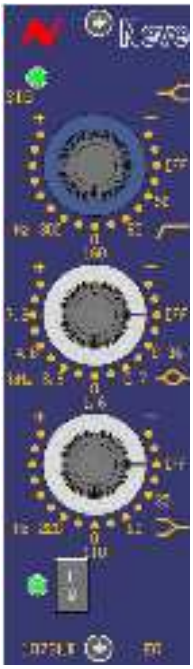
1073LB EQ
Rack Module



User Manual

527 - 400
Issue 3.1

The **1073LB EQ** is a rack module version of the classic **Neve 1073** EQ section, designed for use in the API Lunchbox.
For use either as a standalone EQ module, or as a true audio insert EQ in conjunction with a **1073LB Mic Pre**.

Health & Safety Notice

For your own safety and the protection of others, please observe the following safety instructions:

- Read these instructions.
- Keep these instructions.
- Follow all instructions.
- Only use attachments/accessories specified by the manufacturer.
- Heed all safety warnings.
- Do not use near water.
- Clean only with a dry cloth.
- Do not install near heat sources.
- Do not block ventilation openings.
- Unplug when unused for long periods of time.
- Refer all servicing to qualified personnel only.

AMS NEVE
Billington Road
Burnley
Lancs
BB11 5UB
England

Phone +44 (0)1282 457011
Fax: +44 (0)1282 417282

Email: info@ams-neve.com
Web: www.ams-neve.com
Support: http://www.ams-neve.com/support

The **1073LB EQ** module is designed for use in the API Lunchbox™.

Lunchbox™ is a trademark of Automated Processes, Inc.

© 2013 AMS Neve Ltd *own the copyright of all information and drawings contained in this manual which are not to be copied or reproduced by any means or disclosed in part or whole to any third party without written permission.*
As part of our policy of continual product improvement, we reserve the right to alter specifications without notice but with due regard to all current legislation.
Disclaimer*: The information in this manual has been carefully checked and is believed to be accurate at the time of publication. However, no responsibility is taken by us for inaccuracies, errors or omissions nor any liability assumed for any loss or damage resulting either directly or indirectly from use of the information contained within it.*
Trademarks*: All trademarks are the property of their respective owners and are hereby acknowledged.*

Table of Contents

Health & Safety Notice....2

1073LB EQ Module....4

Introduction....4

Housing....4

Installation....4

Power....4

Front Panel Controls....5
- Hi Freq Cut & Boost....5
- Hi Pass Filter....5
- Mid Freq Cut & Boost....5
- Mid Freq Selector....5
- Low Freq Cut & Boost....5
- Low Freq Selector....5
- EQ In / Out....5
- Sig led....5

Standalone Mode....6
- XLR Pinouts....6

1073LB Mic Pre Insert Mode....6
- Part I – EQ Module....6
- Part II – Mic Pre Module....7
- Part III - Cabling....7
- Signal Flow....7

Other Information....8

Physical Information....8

Audio Specifications....8

Lunchbox Rear Panel Connectors....8

Recall Sheet....9

In the unlikely event that the 1073LB EQ should malfunction or develop a fault, please report the fault on our website:

www.ams-neve.info/crm/fault_report.html

You will need the units serial number when you do this, so please have this to hand.
One of our support team will then be in touch via email.

For any other technical, operational or general enquiries about the unit not covered in this manual, please email info@ams-neve.com.

1073LB EQ Module

Introduction



Launched in 1970, the Neve 1073 module is perhaps the world's most famous and desirable microphone pre-amp and EQ for recording vocals and instruments of all types.

The first choice of countless leading producers and artists, the 1073 delivers the unique Neve sound featured on many of the most famous recordings of the past 40 years.

The big, punchy sound of the 1073 classic complements any musical genre, from rock to pop, hip hop to rap, thrash to classical.

And now the EQ section of that classic unit is available for your API Lunchbox.

Crafted in England by Neve engineers, the **1073LB EQ** mono EQ module retains the unique sonic characteristics of the original 1073 classic EQ by using the same EQ circuit architecture and matching components, plus it delivers it in a modern and portable form that professional producers and engineers demand.

With new features like a signal presence LED and Neve's clever **Audio Processing Insert** design, the 1073LB EQ takes your Lunchbox to the next level.

Simply install into your Lunchbox rack, connect your line level signals and inject the legendary Neve EQ sound into your audio creations.

It's also the perfect pairing for the incredible Neve 1073LB Mic Pre-amp module.
Using the supplied cable, the **1073LB EQ** module can be inserted between the input and output stages of **1073LB Mic Pre** module, creating a true 1073 classic audio path.
(Please see page 6 on how to configure both modules for this method of use).

Housing



The 1073LB EQ has been designed for use in the API Lunchbox unit, which can hold up to six modules in a single unit.

For more information on the API Lunchbox, please go to:

http://www.apiaudio.com/5006b.html

Installation

When inserting the module, ensure the module's 15-pin edge-connector mates securely with the Lunchbox backplane connector.

The modules are not designed to be hot-plugged, so always ensure the power is off before inserting or removing a module.

Power

The 1073LB EQ module does not have a separate power switch, it is switched on/off via the power switch on the Lunchbox housing.

Front Panel Controls



Hi Freq Cut & Boost

(Top control, Inner knob)
+/-16dB of smooth shelving with a fixed frequency of 12kHz.

Hi Pass Filter

(Top, Outer blue dial)
18dB per octave slope with a selectable threshold of 50Hz, 80Hz, 160Hz or 300Hz.

This control is a different colour to the other outer controls to indicate it bears no direct relationship to its centre control.

Mid Freq Cut & Boost

(Middle, Inner knob)
+/-18dB of smooth control with a fixed Q and selectable centre.

Mid Freq Selector

(Middle, Outer dial)
Select from 0.36kHz, 0.7kHz, 1.6kHz, 3.2kHz, 4.8kHz or 7.2kHz.

Low Freq Cut & Boost

(Bottom, Inner knob)
+/-16dB of smooth shelving control with a fixed Q and selectable centre.

Low Freq Selector

(Bottom, Outer dial)
Select from 35Hz, 60Hz, 110Hz or 220Hz.

EQ In / Out

The adjacent led will light green when the **EQ** button is pressed and in circuit, and unlit when deselected and bypassed.

Sig led

A three-state led gives an indication of the outgoing signal level:

- Off below -26dB
- Lights green between -25dB and +23dB
- Lights red at +24dB or higher

*Operation of the front panel is identical, regardless of whether the unit is configured to work in **Standalone Mode** or **1073LB Mic Pre Insert Mode**.*

Standalone Mode

All 1073LB EQ modules leave the factory configured to work in Standalone mode.

▶ Ensure that the Lunchbox power is off, and then insert the module into the Lunchbox housing.

▶ Make sure the module backplane mates securely into the Lunchbox backplane connector, and the faceplate is flush with the front of the Lunchbox before securing into place.

▶ Connect the Line-level Input and Output to the XLR connectors on the rear of the Lunchbox.

In **Standalone** mode, the audio signals will pass through the electronically balanced Input and Output of the 1073LB EQ module.



Shown above, the 1073LB EQ switch block set to Standalone mode. All modules are set to this mode when they leave the factory - Switch 1 (left) On, switch 2 (right) Off.

XLR Pinouts

Hot	2
Cold	3
Ground	1

1073LB Mic Pre Insert Mode

This configuration is where the EQ module acts as a true audio insert on an adjacent **1073LB Mic Pre** module.

This involves connecting both of the units together with the supplied cable, and setting both of the **1073LB EQ** and **1073LB Mic Pre** modules to work in Insert mode.

Part I – EQ Module

On the rear of the **1073LB EQ**, there are two switches inside the unit, next to the edge connector (see pic, above).

▶ When using the module as an Insert with an adjacent **1073LB Mic Pre** module, the **1073LB EQ** switches should be set to:

Switch 1 (left)	Off
Switch 2 (right)	On

Please use a non-metallic plunger for setting these switches.

Part II – Mic Pre Module

On the rear of the **1073LB Mic Pre** module, there may be a similar pair of switches.

▶ Switch 2 (right), should be set to **Off** for Insert mode.

If you have an older version of the module that does not have this switch block, please refer to the **1073LB Mic Pre** User Manual that tells you how to put the module into Insert mode.

Part III - Cabling

▶ Connect the supplied 3-pin cable to the **INS LINK** connector on the rear of one of the modules, then secure this module into the Lunchbox leaving the other end of the cable free.

▶ Plug the other end of the link cable into the other module and secure into the Lunchbox in the adjacent slot (the order of modules is not important).

With the modules fitted, the cable loop is designed to fit in the space underneath the Lunchbox backplane (right).





*The **INS LINK** cable has part number **NN 5749**.*

Signal Flow

With the **1073LB Mic Pre** and **1073LB EQ** modules linked in this way:

- The Input XLR on the 1073LB EQ is ignored as the source of input into the EQ circuitry, even if there is an XLR connected and carrying a signal.
- The input into the 1073LB EQ circuitry will be taken from the **INS LINK** cable and therefore from the adjacent 1073LB Mic Pre.

The Output XLR however, will still carry the same Output signal as is provided to the link cable and into the 1073LB Mic Pre, providing a parallel output signal post-EQ.

This output will be electronically balanced.

Other Information

Physical Information

Height mm (inches)	Width mm (inches)	Depth cm (inches) [1]	Weight kg (lbs)
132 (5¼)	38 (1½)	145 (5¾)	0.6 (1¼)

[1] *Excludes clearance for front panel controls and rear connectors.*

Audio Specifications

High Freq	Smooth +/-16dB of fixed frequency shelving at 12kHz
Mid Freq	Smooth +/-18dB of peaking, fixed Q, selectable centre 0.36kHz / 0.7kHz / 1.6kHz / 3.2kHz / 4.8kHz / 7.2kHz
Low Freq	Smooth +/-16dB shelving 35Hz / 60Hz / 110Hz / 220Hz
High Pass Filter	18dB per octave slope 50Hz / 80Hz / 160Hz / 300Hz
EQ button	Switches the Equaliser in/out of circuit
Signal LED	Off below -26dB Green between -25dB and +23dB Red at +24dB or higher

Lunchbox Rear Panel Connectors



Output
Male XLR.

Input
Female XLR.
Maximum input level of +26dBu and input impedance of 20kohms.

Power
Standard 3-pin earthed IEC connector.

D-sub connector
Newer models of the Lunchbox also have two 25-pin D-sub connectors, one each for inputs and outputs [Tascam wiring convention].

For more information on the API Lunchbox, please go to:
http://www.apiaudio.com/5006b.html

Recall Sheet

