

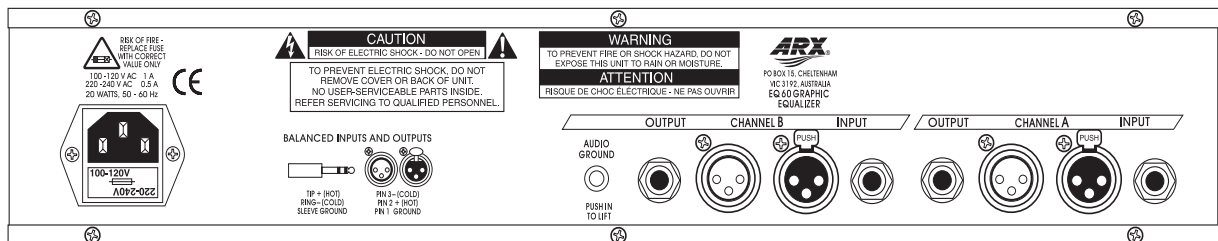
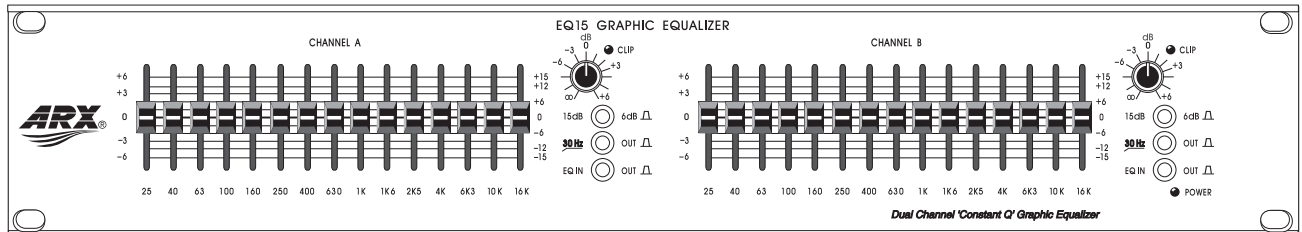
# EQ15

DUAL CHANNEL 15 BAND

'CONSTANT Q' GRAPHIC EQUALIZER



<http://www.arx.com.au>



The **ARX EQ15** is a dual channel 15 band graphic equalizer designed especially for installations where the program material is predominantly pre-recorded and pre-processed, such as Disco and Karaoke.

Delivering flawless professional performance, it takes up minimal rack space being neatly housed in a compact 2 RU all steel chassis.

On the rigid extruded aluminium front panel, each channel has 15 maximum throw, well damped, centre grounding sliders, switchable to either  $\pm 15$ dB, or  $\pm 6$ dB, for the ideal combination of high fader resolution and maximum cut and boost.

As well, there is a Gain recovery control with up to +6 dB of gain; a Clip LED to indicate circuit overload, a switchable 30Hz High Pass filter, and an IN/OUT hardware bypass switch which removes the **EQ15** completely from the signal path.

Internally, the **EQ15** features innovative Constant Q circuitry.

Why is this good? Well, it means that the graphical representation of the sliders on the front panel more accurately reflects the changes you make to the sound, compared to traditional EQ designs.

In other words, *'what you see is what you get.'*

Combined with the **EQ15's** ultra low noise circuitry, you have an equalizer that is unsurpassed for accuracy.

Additionally, at the 0dB slider position each filter is, in effect, removed from the circuit to further enhance the **EQ15's** low noise figures. All circuit boards are connected with flexible computer grade ribbon cables to stand up to the rigours of touring.

There is also an audio ground lift switch to isolate the audio ground from the chassis ground.

AC power range is a universal 100 to 120V or 220 to 240V AC, and is connected to the unit via a removable power lead and standard 3 pin IEC connector, with built-in fuse and voltage switch.

When you need uncompromising audio quality but can't justify the use of a dual 30 band EQ such as the **EQ60**, the **EQ15** is the graphic equalizer to choose.

Its compact High Density design, clean lines, and precision electronics make the **ARX EQ15** an attractive solution for all your installation equalization applications.

## Features

- Ultra low noise 'Constant Q' circuitry
- Balanced Inputs and Outputs on XLR and Jack connectors
- Switchable 6dB or 15dB cut and boost
- Strong extruded aluminium front panel
- Switchable High Pass filter
- Audio Ground lift switch on rear
- 'Industry Standard' controls
- Intuitive, 'user friendly' layout
- Flawless performance in any audio environment
- Security cover available

# EQ15™ Specifications

## Input Impedance

Balanced 20 Kohms  
Unbalanced 10 Kohms

## Input Headroom

+23 dB

## CMRR

>55 dB, 20 Hz—20 KHz

## Output Impedance

Balanced 300 ohms  
Unbalanced 150 ohms

## Output Level (Max)

+23 dB

## Frequency Response

10Hz-20KHz±0.25dB

## Signal to Noise ratio

>-93 dB Unweighted  
>-98 dB 'A' weighted

## Distortion

.0035% THD, 0dB, 1KHz

## Dynamic Range

116 dB

## High Pass Filter

30 Hz

## Input Connector type

XLR, Balanced Jack

## Output Connector type

XLR, Balanced Jack

## Power Requirements

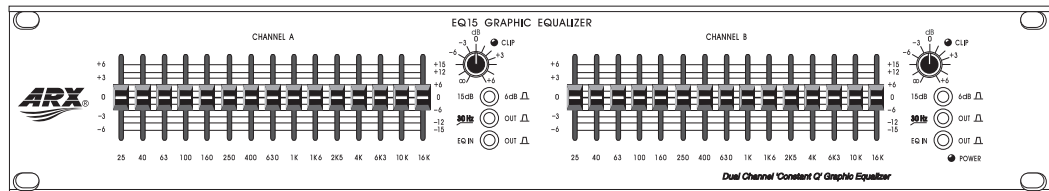
100/120 V AC  
220/240 V AC

## Weight

10lbs/4.5Kg

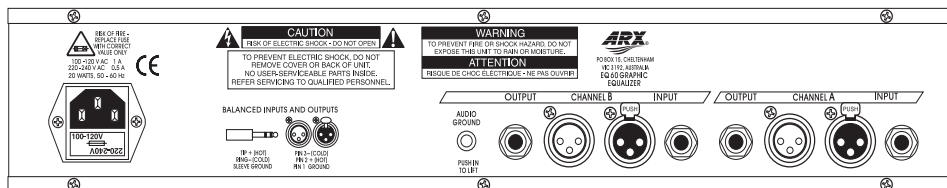
## Dimensions

19"W x 3 1/2"H x 9"D  
482 x 89 x 230mm



## FRONT PANEL

- 15 maximum throw, well damped, centre grounding sliders per channel, on ISO standard frequencies, 25 Hz to 16 KHz
- Infinity through to +6dB Gain control
- LED clipping indicator
- 30 Hz High Pass filter switch
- 15 or 6 dB EQ Cut/Boost range switch
- Hardwire bypass EQ IN/OUT switch



## REAR PANEL

- Balanced Inputs and Outputs, on both XLR and TRS jack connectors
- Audio Ground Lift switch
- AC input connector, with voltage switch and fuse

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The Graphic Equalizer shall be a dual channel unit in a steel chassis nine inches deep and two rack units high, with an extruded aluminium front panel.

Each channel shall have 15 maximum travel, well damped centre grounding sliders on standard ISO frequencies, from 25 Hz to 16KHz.

At the 0 point each slider shall effectively be off, and removed from the circuit.

Each channel shall also have a hardwire Bypass switch on the front panel, 30 Hz High Pass filter switch, and a range switch to change the maximum cut or boost between ±15dB and ±6dB.

There shall also be an LED to indicate the onset of clipping. In addition, each channel shall have a rotary Gain control, from infinity through 0dB to +6dB gain.

The equalizer shall have electronically Balanced inputs and outputs, on both TRS jack and XLR type connectors, with passive RFI filters and an Input impedance of 20 Kohms (10 Kohms unbalanced).

The Input headroom shall be +23dB, with a CMRR of better than 52dB, and the frequency response shall be 10 Hz to 20 KHz, ±0.25dB.

The Output impedance shall be 300 ohms (150 unbalanced), and the maximum Output level shall be +23dB, with a Signal to Noise ratio of better than -101dB 'A' weighted (-93dB unweighted).

Total Harmonic Distortion shall be .0035% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 116dB. On the rear panel there shall also be an audio ground lift switch.

AC Power shall be supplied via a removable mains cable, connecting to an IEC connector with an integral fuse and voltage change switch on the unit's rear panel.

The Graphic Equalizer shall be the ARX EQ15.

Specifications available on disk 

YOUR ARX DEALER IS:

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www.arx.com.au

Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

