

### ARCHITECTS SPECIFICATIONS

#### GQX-3102

The graphic equalizer shall be stereo (2 channels). Each channel shall consist of 31 bands centered on standard ISO frequencies at intervals of 1/3 octave and covering a frequency range of 20Hz to 20kHz. Individual bands shall be activated by linear slide faders with a 45mm travel, metal actuator shafts and a tactile center detent. The range of equalization per band shall be either  $\pm 6$ dB or  $\pm 15$ dB selected via a 2-position switch. The equalizer shall have a gain of unity with all sliders centered, and shall have a maximum in/out level of  $+22$ dBu. Frequency response shall be  $\pm 25$ dB 10Hz to 20kHz. Hum and noise shall be at least  $-92$ dBu and SMPTE intermodulation distortion or THD shall be less than .01% at full output. Input impedance shall be 20k ohm balanced, 10k ohm unbalanced. Output impedance shall be 200 ohm. Inputs and outputs shall be active (transformerless) balanced type on both XLR, 1/4" phone jacks and barrier strip terminals. Individual filters shall be Wein-bridge type

and connected in a summing circuit optimized for minimum filter interaction and constant bandwidth at any slider setting. Boost and cut characteristics shall be fully symmetrical, with the filter being electrically removed from the circuit in the center (flat) position. Individual filters shall be accurate to within 3% of indicated center frequency and shall be non-adjustable to insure long term accuracy. The equalizer shall also include an 18dB per octave high pass filter tunable from 8Hz to 200Hz, equipped with a bypass switch. A 2 color bar-graph meter shall be employed to show overall output level and an LED indicator shall show overload conditions. Input gain shall be adjustable over  $-\infty$  to  $+6$ dB, and an overall EQ bypass switch shall be included. The equalizer shall weigh 13lbs net and mount in a standard 19" rack using 3 spaces (5.25" high). The power requirement shall be 110-115VAC, 50-60Hz, 20W. The unit shall be an Ashly Audio GQX-3102.

#### Features:

- Detented Metal-Shaft Fader
- Precision Wein-bridge Filters for Accurate Response and Low Distortion
- Constant "Q" Design with Low Ripple and Accurate Response Near the "Flat" Setting
- Selectable 15dB or 6dB range
- Switchable-Tunable Low-Cut Filter
- 10 Position, 2 Color LED Level Meter plus Peak LED Indicators
- Balanced XLR, 1/4", and Barrier Strip Inputs
- Servo-Balanced XLR, 1/4", and Barrier Strip Outputs
- Rider Friendly
- 5-Year Worry-Free Warranty

## General Specifications GQX-3102

### INPUT

Type: Active Balanced  
 Impedance: 20k ohm  
 Max. Level: +22dBu

### OUTPUT

Type: Servo-Balanced  
 Min. Load Impedance: 600 ohm  
 Max. Level: +22dBu

Frequency Response:  $\pm 0.25$ dB 20Hz-20kHz  
 IM Distortion (SMPTE): <0.01% @ +20dBu  
 THD (20Hz-20kHz): <0.01% @ +20dBu  
 Output Noise (20Hz-20kHz): -92dBu

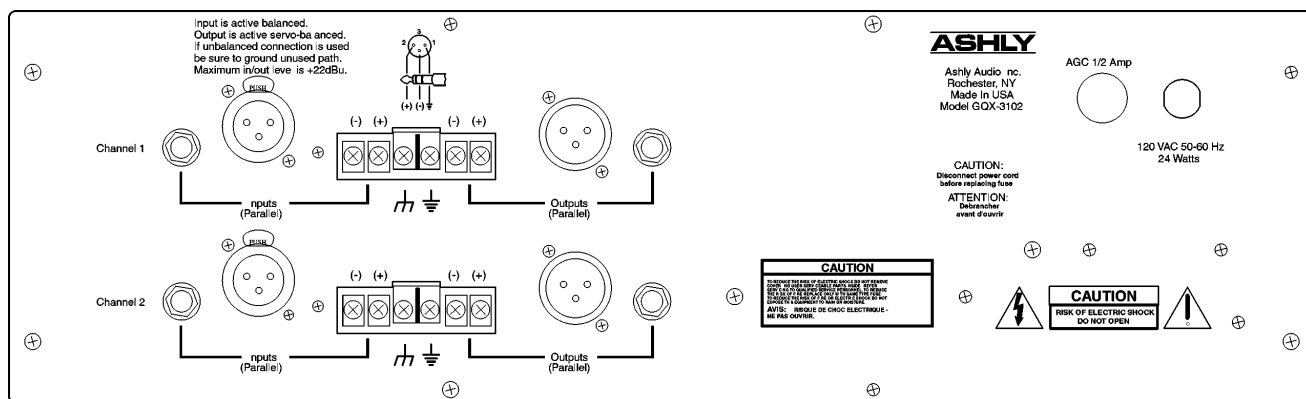
### FILTERS

Type: Constant Q/Wein-Bridge  
 Number: 2 X 31  
 Bandwidth: 1/3 Octave  
 Tolerance:  $\pm 3\%$   
 Range:  $\pm 6$  or 15dB  
 Subsonic Filter: 18dB/Octave, 8-200Hz

Power Requirements: 120VAC, 50-60Hz, 17W  
 Shipping Weight: 15 lbs  
 Dimensions: 19"L x 5.25"H x 6"D  
 I/O Connectors: XLR, 1/4", and Barrier Strip

Notes: 1. 0 dBu = .775 Vrms. 2. Servo-balanced output provides same level signal to either balanced or unbalanced termination.

## Rear Panel GQX-3102



## Applications:

Churches, Studios, Concerts, Dance/Night Clubs, PA Systems, Monitor Racks, Auditoriums, Lecture Halls, Sports Stadiums, Outdoor Festivals

Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers, Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

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