

## GAE EtaMax

### Extended Low-Frequency Horn with GAE WaveLine

#### **EtaMax**

Gain: adjust    Delay: adjust    Phase: +

HPF: 25Hz    Butterworth    18dB/oct. (3<sup>rd</sup> order)

LPF: 70Hz    Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)

For cleanest bass reinforcement use LPF at 70Hz.

For maximum bass power application shift LPF to 90Hz.

#### **LMF (10" speaker)**

Gain: 0,0dB                      Delay: 0,72ms    Phase: +

HPF: 70Hz    Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)

For cleanest bass reinforcement use HPF at 70Hz.

For maximum bass power application shift HPF to 90Hz.

LPF: 560Hz    Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)

Band-EQ1: 100Hz    Q=1,5    B/W=0,95    Gain: +1,5dB

Band-EQ2: 225Hz    Q=4,5    B/W=0,32    Gain: -2,5dB

Band-EQ3: 400Hz    Q=4,0    B/W=0,36    Gain: -3,0dB

Band-EQ4: 540Hz    Q=4,0    B/W=0,36    Gain: +2,0dB

Band-EQ5: 1300Hz    Q=3,0    B/W=0,48    Gain: -12,5dB

#### **MHF (2" speaker)**

Gain: 0,0dB (adjust)    Delay: 0ms    Phase: +

HPF: 675Hz    Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)

LPF: bypass

Band-EQ1: 900Hz    Q=5,5    B/W=0,26    Gain: -3,0dB

Band-EQ2: 1290Hz    Q=3,0    B/W=0,48    Gain: -2,5dB

Band-EQ3: 2550Hz    Q=1,3    B/W=1,08    Gain: -8,8dB

Band-EQ4: 12300Hz    Q=3,0    B/W=0,48    Gain: -2,5dB

Band-EQ5: 15000Hz    Q=0,6    B/W=2,19    Gain: +10,0dB

#### **Input EQs (Pre-EQs)**

PEQ1: 280Hz                      Q=3,5    B/W=0,41    Gain: +1,2dB

PEQ2: 700Hz                      Q=2,0    B/W=0,71    Gain: +2,0dB

PEQ3: 1880Hz                      Q=4,0    B/W=0,36    Gain: **0,0**...+3,0dB

## GAE EtaMax

### Extended Low-Frequency Horn with GAE Director Top

#### **EtaMax**

Gain: adjust    Delay: adjust    Phase: +

HPF: 25Hz    Butterworth    18dB/oct. (3<sup>rd</sup> order)

LPF: 110Hz    Linkwitz/Riley    24dB/oct. (4<sup>th</sup> order)

#### **Director Top Mid 2x12"**

Gain: 0dB    Delay: 0,0ms    Phase: +

HPF: 115Hz    Butterworth    24dB/oct. (4<sup>th</sup> order)

LPF: 1560Hz    Bessel    24dB/oct. (4<sup>th</sup> order)

Band-EQ1: 440Hz    Q=5,0    B/W=0,29    Gain: -3,0dB

Band-EQ2: 915Hz    Q=4,0    B/W=0,36    Gain: -3,0dB

Band-EQ3: 400Hz    LoSHF 2<sup>nd</sup> (Q=0,7)    Gain: 0...-3,0dB (Reduction Low-Mid coupling)

#### **Director Top High 1,4"**

Gain: adjust    Delay: 0,54ms    Phase: +

HPF: 1460Hz    Bessel    24dB/oct. (4<sup>th</sup> order)

LPF: bypass

Band-EQ1: 1120Hz    Q=2,0    B/W=0,71    Gain: -4,5dB

Band-EQ2: 3500Hz    Q=3,5    B/W=0,41    Gain: -4,0dB

Band-EQ3: 11500Hz    HiSHF 2<sup>nd</sup> (Q=0,7)    Gain: +3,0dB

#### **Input EQs (Pre-EQs)**

PEQ1: 105Hz    Q=3,0    B/W=0,48    Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 1700Hz    Q=2,0    B/W=0,71    Gain: 0...-3,0dB (Mid reduction)