



Processor Settings
Model CPC1212

Crossover

	Frequency	Slope
LF - HPF w/o Subwoofer	45Hz	24dB Oct. (4th order) Butterworth
LF - HPF w/ Subwoofer	75Hz	24dB Oct (4th order) Linkwitz/Riley
LF - LPF	1,430Hz	24dB Oct. (4th order) Linkwitz/Riley
HF - HPF	7,540Hz	6dB Oct. (1st order) Butterworth

Equalization

	Frequency	BW*	Q	Level
LF	110Hz	Low Shelving		+2.5dB
	76Hz	.67	2.13	+2dB
	120Hz	.35	4.11	-2dB
	400Hz	.2	7.21	-3dB
	600Hz	.67	2.13	-4.5dB
	1,040Hz	.31	4.65	-3dB
HF	680Hz	.2	7.21	-10dB
	2,240Hz	.2	7.21	-4dB
	6,470Hz	.2	7.21	-2dB
	8,000Hz	.25	5.76	-1.5dB
	11,500Hz	.2	7.21	-4dB
	14,300Hz	.3	4.80	+3dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
HF	none	positive

Some DSP units will change the propagation delay for each output depending on how much processing is on that channel

Limiting

	RMS Voltage
LF	84 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 120 Volts or amp clipping)
HF	46 Volts, .5 msec attack, 8 msec release, 100:1 ratio (recommended predictive peak stop @ 95 Volts or amp clipping)

See Application Note "Setting System Limiters"

Gain

LF	0dB
HF	0dB

Assumes amplifiers have equal voltage gain

*** BW Disclaimer**

Different DSP processor manufactures are not consistent in their implementation of digital parametric EQs. **The SLS recommended filters will not be replicated by all DSP devices.** If the DSP device that is used continuously varies the Q value of the filter depending on the +/- dB level, the DSP will not match our settings. (Most of these devices do not allow filter Q to be shown at all.)