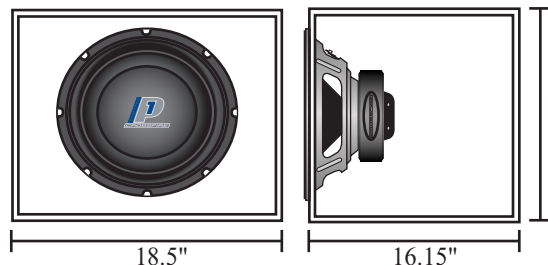


## Enclosure Recommendations

### Optimum Sealed Volume

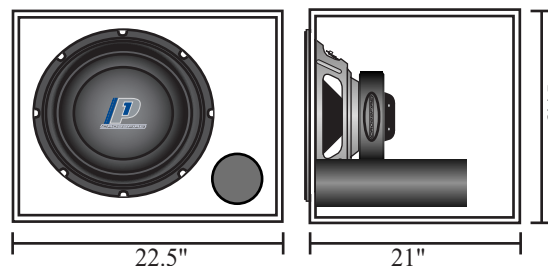
Internal volume: 2.2ft<sup>3</sup> / 62.3L  
 Enclosure "Q": 1.31  
 -3dB response: 33Hz  
 Efficiency: 91.1dB  
 Maximum power handling: 500 watts



Cu. feet/liters	"Q"	-3dB	Efficiency	PE
small sealed volume: 1.6/45.31	1.5	37Hz	92.2dB	500 watts
large sealed volume: 3.1/87.78	1.1	30Hz	90.2dB	400 watts

### Optimum Vented Volume

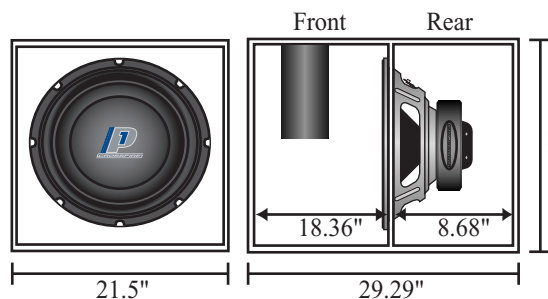
Internal volume: 3.7ft<sup>3</sup> / 104.77L  
 Tuning frequency: 27Hz  
 Port (D x L): (2) 3" x 11.5"  
 -3dB response: 30Hz  
 Efficiency: 93.6dB  
 Maximum power handling: 500watts



Cu. feet/liters	Tune to	Port	-3dB	Efficiency	PE
small vented volume: 3.1/87.78	28Hz	(2)3" x 13"	33Hz	93.9dB	500watts
large vented volume: 4.3/121.76	25Hz	(2)3" x 11.5"	28Hz	92.9dB	500watts

### Optimum Bandpass Volume

Front volume: 3.4ft<sup>3</sup> / 96.28L  
 Rear volume: 1.5ft<sup>3</sup> / 42.48L  
 Tuning frequency: 65Hz  
 Port (D x L): (2)6" x 4.4"  
 -3dB response: 39 - 93Hz  
 Efficiency: 99dB  
 Maximum power handling: 500w



Front cu. ft/liters	Rear cu.ft/liters	Tune to	Port	-3dB	Efficiency	PE
3/84.95	1.3/36.81	68Hz	(2)6" x 4.75"	40 - 98Hz	99.1dB	500watts
4.1/116.1	1.6/45.3	60Hz	(2)6" x 3.9"	36 - 83Hz	98.7dB	500watts

\*Note: Dimensions given require the use of 0.75" (19mm) board.

\*\*Be sure to add in .102ft<sup>3</sup> / 2.89L for driver displacement in all "Other"

## Damping Material

The most common damping materials used are Dacron and Polyfill. Reclaimed fiber underlay has been discovered to be an excellent substitute especially when glued directly to the walls of the enclosure. Fiberglass may be used, but please limit usage to sealed enclosures only. When used in vented/bandpass enclosures, fiberglass fibers escaping through the port may be hazardous to your health.

**SEALED ENCLOSURE**  
**VENTED ENCLOSURE**  
**BANDPASS (sealed chamber)**  
**BANDPASS (vented chamber)**

**DACRON/POLYFILL**  
*loosely fill the enclosure*  
*line 3-5 walls*  
*line 3 walls*  
*line 1 wall (optional)*

**UNDERLAY**  
*line 5 walls*  
*line 1-3 wall*  
*line 1-3 wall*  
*line 1 wall (optional)*

**FIBERGLASS**  
*line 5 walls*  
*Please limit the use of fiberglass to sealed enclosures only*

## Specifications

Model	P115D
Driver description	15" Subwoofer, Dual Voice Coil
Mounting depth, in./mm	7.52/191.11
Cutout dimensions, in./mm	13.95/354.51
Impedance	4 ohms per coil
Nominal power handling	250 watts
Maximum power handling (PE)	500 watts
Dynamic power handling	1000 watts
Voice coil – size	2.25", 4 layer
Magnet weight	60 oz.
Frequency response	18Hz to 250Hz
Resonance frequency (fs)	19.5Hz
QTS	.553
QMS	6.478
QES	.605
VAS, ft./liter	10.46/296.11
X-max, in./mm	.374/9.5
Peak to peak, in./mm	1.4/35.6
Efficiency (2.83V/1M)	89dB

## Power Ratings

Rating the power handling of subwoofers is not a difficult task. However, understanding power ratings is often confusing. Many times the Maximum Power Ratings are viewed as the RMS power handling of the driver, when in actuality Maximum is generally the break point of the driver. This has lead Crossfire to come up with a system to rating the power necessary to drive our subwoofers. Please read the following cautiously before choosing your amplifier.

### Nominal power handling

-Nominal power handling is the power rating given by Crossfire at which the subwoofer will experience minimal mechanical degradation over time when using a recommended enclosure. In other words, this is the recommended power to be used per woofer to assure long life.

### Maximum power handling (PE)

-Maximum power handling is the power rating given by Crossfire at which the subwoofer could experience a high amount of mechanical degradation that may lead to possible failure over time when using a recommended enclosure. In other words, do not exceed this power level for extended periods of time.

### Dynamic power handling

-Dynamic power handling is the power rating given by Crossfire for peak transients and short bursts. Continuous playing at or above this level will cause mechanical failure and/or thermal failure. In other words, this power level should never be attained with the exceptions of approved SPL competition vehicles. This could possibly void your warranty.