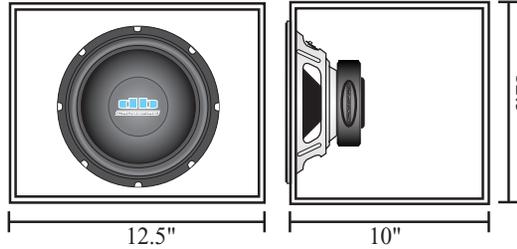


ENCLOSURE RECOMMENDATIONS

Optimum Sealed Volume

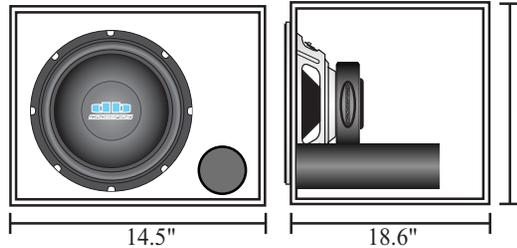
Internal volume: .59ft³ / 16.71L
 Enclosure "Q": .71
 -3dB response: 49Hz
 Efficiency: 86dB
 Maximum power handling: 250 watts



| Cu. feet/liters | "Q" | -3dB | Efficiency | PE |
|-------------------------------|-----|------|------------|-----------|
| small sealed volume: .28/7.93 | .95 | 61Hz | 86.9dB | 250 watts |
| large sealed volume: .6/16.99 | .6 | 50Hz | 86dB | 250 watts |

Optimum Vented Volume

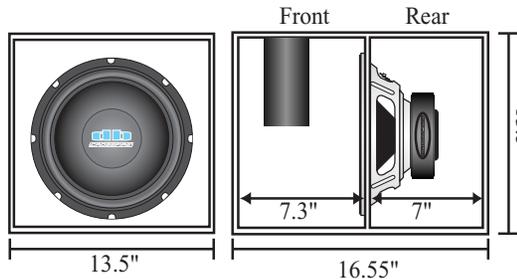
Internal volume: 1.5ft³ / 42.4L
 Tuning frequency: 29Hz
 Port (D x L): 4" x 23.43"***
 -3dB response: 27Hz
 Efficiency: 87dB
 Maximum power handling: 250 watts



| Cu. feet/liters | Tune to | Port | -3dB | Efficiency | PE |
|--------------------------------|---------|---------------|------|------------|-----------|
| small vented volume: 1.1/31.15 | 35Hz | 4" x 21.7"*** | 27Hz | 87dB | 250 watts |
| large vented volume: 1.8/50.97 | 25Hz | 3" x 14.4" | 25Hz | 86dB | 250 watts |

Optimum Bandpass Volume

Front volume: .61ft³ / 17.27L
 Rear volume: .34ft³ / 9.63L
 Tuning frequency: 63Hz
 Port (D x L): 5" x 17.6"***
 -3dB response: 44 - 90Hz
 Efficiency: 88dB
 Maximum power handling: 250 watts



| Front cu. ft/liters | Rear cu.ft/liters | Tune to | Port | -3dB | Efficiency | PE |
|---------------------|-------------------|---------|-------------|-----------|------------|-----------|
| .61/17.27 | .34/9.63 | 63Hz | 5"x17.6"*** | 44 - 90Hz | 88dB | 250 watts |
| .59/16.71 | .94/26.62 | 56.8Hz | 5"x23.5"*** | 39 - 62Hz | 87.7dB | 225 watts |

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

**Be sure to add in .050ft³ / 1.42L for driver displacement in all "Other" enclosures.

***WARNING: Due to long port length, slot porting will most likely be needed. Tube ports are for illustration purposes only.

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 | DBW10 |
| Driver description | 10" Subwoofer, Single Voice Coil |
| Mounting depth, in./mm | 4.625/117.54 |
| Cutout dimensions, in./mm | 9.1/231.26 |
| Impedance | 4 ohms per coil |
| Nominal power handling | 175 watts |
| Maximum power handling (PE) | 250 watts |
| Dynamic power handling | 800 watts |
| Voice coil - size | 2", 4 layer |
| Magnet weight | 38 oz. |
| Frequency response | 22Hz to 500Hz |
| Resonance frequency (fs) | 24Hz |
| QTS | .3588 |
| QMS | 10.498 |
| QES | .371 |
| VAS, ft./liter | 2/56.82 |
| X-max, in./mm | .315/8 |
| Efficiency (2.83V/1M) | 86.18dB |

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.