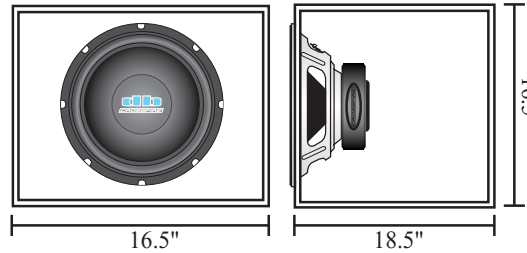


ENCLOSURE RECOMMENDATIONS

Optimum Sealed Volume

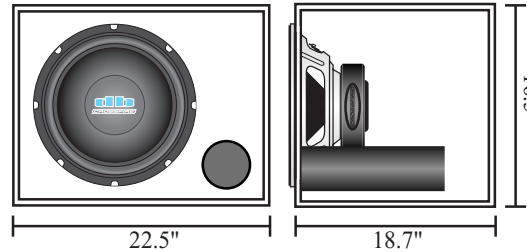
Internal volume: 2.1ft³ / 59.47L
 Enclosure "Q": .95
 -3dB response: 43.3Hz
 Efficiency: 92.1dB
 Maximum power handling: 400 watts



Cu. feet/liters	"Q"	-3dB	Efficiency	PE
small sealed volume: 1.49/42.19	1.1	47.2Hz	93dB	400 watts
large sealed volume: 3.2/90.61	.8	39.8Hz	91.4dB	400 watts

Optimum Vented Volume

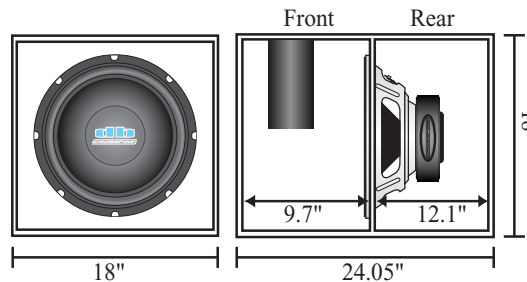
Internal volume: 3.3ft³ / 93.45L
 Tuning frequency: 32Hz
 Port (D x L): (2)4" x 16.5"***
 -3dB response: 36.4Hz
 Efficiency: 94dB
 Maximum power handling: 400 watts



Cu. feet/liters	Tune to	Port	-3dB	Efficiency	PE
small vented volume: 2.7/76.46	35Hz	(2)4" x 17"	41Hz	94.7dB	400 watts
large vented volume: 4.0/113.27	28Hz	(2)4" x 18.1"	28Hz	92.8dB	400 watts

Optimum Bandpass Volume

Front volume: 1.43ft³ / 43.33L
 Rear volume: 1.8ft³ / 40.49L
 Tuning frequency: 67.73Hz
 Port (D x L): (2)5" x 10.7"
 -3dB response: 39 - 110Hz
 Efficiency: 97dB
 Maximum power handling: 400 watts



Front cu. ft/liters	Rear cu.ft/liters	Tune to	Port	-3dB	Efficiency	PE
1.43/40.49	2.07/58.62	67.56Hz	(2)5"x 11.8"	38 - 107Hz	97.3dB	400 watts
1.5/42.48	2.0/56.63	60.58Hz	(2)5"x 11"	33 - 91Hz	96.1dB	400 watts

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

**Be sure to add in .109ft³ / 3.09L 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	DBW15
Driver description	15" Subwoofer, Single Voice Coil
Mounting depth, in./mm	6.5/165.1
Cutout dimensions, in./mm	13.85/13.85
Impedance	4 ohms
Nominal power handling	250watts
Maximum power handling (PE)	500 watts
Dynamic power handling	1000 watts
Voice coil – size	2", 4 layer
Magnet weight	54 oz.
Frequency response	18Hz to 500Hz
Resonance frequency (fs)	21.8Hz
QTS	.377
QMS	10.447
QES	.523
VAS, ft./liter	11.209/317.41
X-max, in./mm	.308/7.82
Efficiency (2.83V/1M)	80.6dB

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.