



Wharfedale
Pro

VS SERIES PROFESSIONAL SPEAKER USER MANUAL

VS-10 • VS-12 • VS-12M • VS-15 • VS-153
VS-15 B • VS-18B

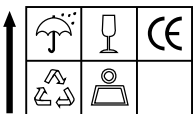


WARNING & SAFETY INSTRUCTIONS

- 1. READ INSTRUCTIONS** carefully before operating this product.
- 2. RETAIN** these instructions.
- 3. COMPLY WITH WARNINGS** - All warnings and instructions for this product should be adhered to.
- 4. USE WITH AMPLIFIERS** - In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off any sound system. With all system parts connected, turn on source equipment, tape decks, instruments, mixers, signal processors etc., BEFORE turning on your power amplifier. Many products output turn on and turn off transients that can damage speakers. By turning on your power amplifier LAST and making sure the amplifier's input controls are at minimum any transients "upstream" of the amplifier are not amplified and passed to the speaker. Wait until all system parts have stabilised, then bring up amplifier controls to operating level. This should take no more than a few seconds. Similarly when shutting systems down, always turn down amplifier input controls and then turn off your amplifier BEFORE shutting down other components. Professional amplifiers often feature delayed turn on/off circuits to perform these functions for you automatically.
- 5. CABLES** - Never use shielded or microphone cable for any speaker connection as this will not be heavy enough to handle the amplifier load and could cause damage to the complete system.
- 6. ⚠️ RIGGING • SUSPENDING • MOUNTING**
The rigging, suspension or mounting of this speaker system can expose members of the public to serious health risks and even death. UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT THIS SYSTEM UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE AND ASSISTANCE.
- 7. ⚠️ CAUTION:** These professional loudspeaker systems are capable of generating very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive levels that can cause permanent hearing damage.
- 8. SERVICING** - The user should not attempt to service this product.

Wharfedale Pro VS Series of Professional Sound Reinforcement Loudspeakers

- Reliable, Durable construction
- Proprietary designed, high efficiency, high power Wharfedale Professional drive units.
- Protective grills
- Integral High Frequency Driver Overload protection "PRO-TECH"™
- Elliptical Wave Guide, twin drive high frequency section gives smooth coverage and musical, low distortion and accurate sound quality.
- Compact, light weight trapezoidal enclosures, with stacking corners, handles and protective steel grills.
- Integral tripod stand adaptor
- Full range and complimentary Sub Bass systems
- Exceptional sound quality, with broad bandwidth and dynamic range
- High Power Handling
- High Efficiency



Unpacking

All Wharfedale Pro products are fully checked before leaving the factory. After unpacking please inspect cabinets for any physical damage. Please retain the shipping

carton if possible and internal packing material in case the unit needs to be returned. Please check as soon as possible the unit is functioning. In the event of any damage please contact your dealer immediately so that a written claim for damages can be made.

Wharfedale Pro Limited Warranty*

Wharfedale Pro VS Series loudspeaker systems are warranted to be clear of manufacturing or materials defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Professional dealer or distributor for information.

*Be aware that warranty details may differ from country to country. Contact your dealer or distributor for information. These terms do not infringe your statutory rights.

Operating/Use

- The VS Series accept cables with 1/4" jack connectors. The units feature two jack sockets type connectors situated at the rear of each cabinet. These are connected in parallel. You can connect The VS cabinets in parallel. Take care to avoid adding too many speaker systems in parallel. Each parallel connected speaker increases the load on the amplifier and can add up to a total load that may exceed the amplifier's capabilities, leading to possible damage. Two 8 loudspeakers in parallel make a 4 total load. Four 8 parallel connected loudspeakers make a total load of 2, which is too low for many amplifiers.
- Connect the speaker cable securely to your VS cabinet and power amplifier (the amplifier should be **off, power down mode**). Always use quality 1/4" jack connectors. Try to use the correct type of speaker cable according to the handling ability of your VS Series Cabinet. Use 2 conductor equal stranded insulated cable for speaker runs. It is always advisable to use heavier conductor cables on longer runs.
- Insert jack plug until secure.
- Power up amplifier with levels on zero. Confirm VS loudspeaker is working are operating.

W H A R F E D A L E P R O V S S E R I E S

Model name	VS-10	VS-12	VS-12M	VS-15	VS-153	VS-15SB	VS-18SB
FREQUENCY RESPONSE	60 - 20k	50 - 20k	60 - 20k	50 - 20k	50 - 20k	50 - 400Hz	45 - 400Hz
SENSITIVITY 1W@1M	94dB	96dB	96dB	96dB	96dB	97dB	97dB
NOMINAL COVERAGE HOZ	60°	60°	60°	60°	60°	—	—
NOMINAL COVERAGE VERT	45°	45°	45°	45°	45°	—	—
INPUT POWER (watts)							
Continuous	70	125	125	150	180	200	220
Music	140	250	250	300	360	400	440
Peak	280	500	500	600	720	800	880
MAX SPL PEAK	117dB	121dB	121dB	123dB	123dB	123dB	124dB
NOMINAL IMPEDANCE	8	8	8	8	8	4	4
DIMENSIONS (mm)							
H	469	554	405	624	729	578	735
W	293	428	428	463	535	465	541
D	282	335	625	350	393	400	400
SHAPE	Trap	Trap	US mon	Trap	Trap	Rectangle	Rectangle
WEIGHT NET	7.25kg	12.5kg	11.5kg	16kg	23kg	21.5kg	30kg
WEIGHT GROSS	8.5kg	14kg	13kg	17.5kg	25kg	23.5kg	32kg
L F DRIVER SIZE (mm/ins)	200/10	250/12	250/12	380/15	380/15	380/15	440/18
H/F SECTION TYPE	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	—	—
MAGNET WEIGHT (g/oz)	475/16.8	475/16.8	475/16.8	1180/41.7	1180/41.7	1180/41.7	1362/48.1
COIL SIZE	38/1.5	38/1.5	38/1.5	38/1.5	38/1.5	65/2.5	75/3.0
FRAME MATERIAL	steel	steel	steel	steel	steel	steel	steel
MID DRIVER SIZE	—	—	—	—	6.5"	—	—
Magnet size					307g		
Coil size					25.5		
Frame material					steel		
SYSTEM BOX FREQUENCY	60Hz	50Hz	45Hz	40Hz	40Hz	40Hz	40Hz
PROTECT TYPE	Bulb	Bulb	Bulb	Bulb	Bulb	—	—
OPERATING BAND PASS	—	—	—	—	—	60-180Hz	50-160Hz
FINISH/COLOUR	Carpet/Black	Carpet/Black	Carpet/Black	Carpet/Black	Carpet/Black	Carpet/Black	Carpet/Black
CONSTRUCTION MATERIALS	Particle board	Particle board	Particle board	Particle board	Particle board	Particle board	Particle board
HANDLES QTY	2	2	2	2	2	2	2
GRILLE	Black full	Black full	Black full	Black full	Black full	Black full	Black full
STAND HI MOUNT	Yes	Yes	No	Yes	Yes	—	—
STAND BASS BOX	—	—	—	—	—	Yes	Yes
CONNECTORS IN	2 x 1/4" jack input	2 x 1/4" jack input	2 x 1/4" jack input	2 x 1/4" jack input	2 x 1/4" jack input	2 x 1/4" jack input	2 x 1/4" jack input

VS FULL RANGE SERIES

VS-10 • VS-12 • VS-12M • VS-15 • VS-153

The speakers in this series are a full range, high power handling, high efficiency cabinet designed for professional applications such as the reproduction and reinforcement of music, musical instrument, vocal and spoken voice.

VS SUB BASS RANGE SERIES

VS-15 B • VS-18B

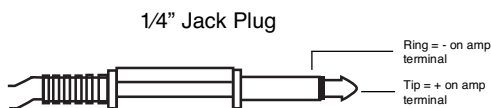
SUB WOOFER OPERATION: Where significant extension of low frequency output of your system is required, the addition of a VS Series SUB will provide well balanced, high output enhancement and power to the overall system.

Passive mode:

In the (standard) passive mode, the power amplifier can be connected to the EVP SUB system through the system's internal low pass filters. The VS Full Range Speaker is connected from the input/output connector panel and receives a full range signal via the sub cabinet. (See drawing) Alternatively the sub models can be connected directly to the amp as can the full range cabinets.

Active mode:

For high output and demanding applications the subs can be powered directly and exclusively from their own amplifier. For the recommended x-over point of the particular VS Sub Bass cabinet being used consult the specification table above under 'OPERATING BAND PASS'. It is possible to operate subwoofers at higher low pass frequencies than recommended however system sound quality and integrity are improved by the use of lower frequencies. Thus higher output levels can be used with human voice and instrument fundamentals maintained at more natural balance. If you have a variable low pass on your active crossover, we recommend experimenting for the ideal frequency for your application. Take care to re-adjust relative systems levels for any frequency changes made.



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