

Electric Systems for Land and Sea - VS335



Features of the VS Series



Drop Weight Cummerbelt™ with Active Control Ballast

Multiple US and Foreign Patents have been awarded on this ballast management and hookah tow device. The DWC optionally carries a Mini-Scuba kit. The Depth Compensating and Expandable Waist feature accommodate divers ranging from 24 to 56 inch waist measurements. The Active Control Ballast removable contoured weight pockets allow use of traditional block, lead, soft weight bags or any custom or naturally occurring ballast. Both the removable weight pockets and the belt receiver pockets have "keyed" molded plates to prevent shifting of the ballast on the diver; the DWC with ACB is easily the most sophisticated and comfortable ballast system in the world; the DWC also includes a hose tow attachment point for use with most Hookah system and Kayak Diving Hose Kits as well. The more adventurous diver can instantly add our 6 or 13 cubic foot Mini-Scuba kit; another unique and patented invention from Brownie's; see following pages for more detail.



Boat Shaped Tube

Years of design and testing results in this unique shape; the interior is rectangular and the exterior is an oval. The shape stores better on most boat decks and tows nicely in the water. Constructed from very robust woven fabrics, every seam is overlapped by nylon webbing and double stitched. A solid "Delrin" YKK zipper is overlapped on the inside diameter to provide for increased pressure holding ability, easy service access. The higher pressure holding ability of the Brownie Tube insures a sag-free flotation device with over 300-lbs of surface support and absolute minimum drag. The RIB-type boat inflation/deflation valve makes setup/break-down considerably quicker and more reliable than off the shelf beach-toy or tractor tire tube valves. The molded handles, 2-inch side release attachment buckles and 1-1/2" hose holder straps are features that further demonstrate Brownie's unique attention to detail.



Travel Cover and Gear Bag

The light weight, super strong storage cover lid is half the weight of others due to intelligent structural design by high-density plastics engineering and advanced production methods. The Brownie base pan and travel cover are shorter in length, narrower in width and have a significantly lower center of gravity when mounted in our world class Brownie tube than other systems.



Breathing Air Compressor

Brownie's proprietary compressor design is the result of years of development based on a goal of perfecting a diving compressor for the marine environment. The totally oil-free design is accomplished by using sealed bearings with oxygen/breathing air compatible grease and a FDA compliant super-high temperature and oxygen compatible piston seal ring. All compressor housing, cylinder, head, connecting rod, fan cover, fasteners, valves and valve plates are constructed from marine grade stainless steel or hard coat anodized aluminum; ask and compare; no other product has these valuable features.



Peleton™ Hose System

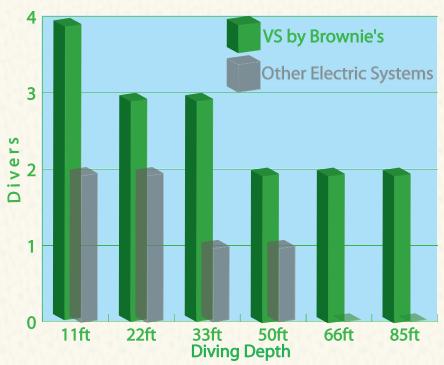
Borrowing from another great sport (cycling), the Peleton Hose configuration streamlines the setup and maximizes the use of the swimming energy invested by each dive. In a system with independent hoses from the surface; each diver is essentially in a in-direct tug-of-war with each other; not to mention adding excessive hose surface area to the overall equation. The Peleton's single main hose is 60 feet long and each diver has their own 20-foot hose; enabling adequate separation of up to 40-feet. Attached to the DWC, this configuration provides surprising easy "team towing" even in moderate current conditions. Back on the surface and in the boat, Peleton also provides the added benefit of considerably less hose to manage, store and carry. The quick-release-swivel (QRS) hose connectors allow instant, tool-free connection and true swivel under pressure to facilitate set-up and ensure a better dive experience.

Variable Speed Diving System



Why Brownie's Variable Speed Diving System?

"KEYED TO DIVER DEMAND"

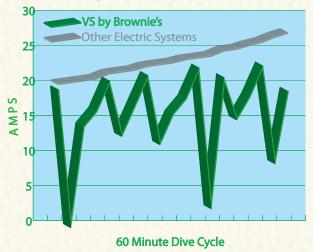


The diver performance chart speaks volumes; the data the VS is compared to is from the top competitive devices in the world.

For decades Brownie's tested every viable compressor option available in an attempt to provide a floating battery powered alternative that would meet the Hookah market performance, logistics and ergonomic demands. Literally dozens of compressor/motor/battery combinations where tested. The result was generally the same; either tremendous inefficiency leading to enormous battery packs or disappointing performance.

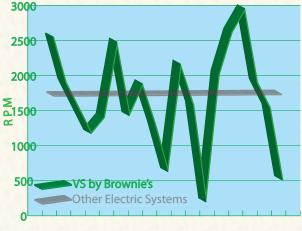
The VS invention overcomes these historical obstacles. The compressor speed instantly responds to diver demand accelerating from 0-2700 rpm's in a matter of seconds. The VS quickly mirrors most any breathing pattern comes to a full stop during diver exhalation or time on the surface and then re-accelerates to full performance upon demand.

"UNEQUALED PERFORMANCE"



The diver performance chart speaks volumes; the VS dominates the competition providing dramatically more air on demand when compared to every other system. Regardless of the depth or number of divers, the VS is clearly the NEW industry leader.

"SMART POWER USE"



60 Second Dive Cycle

Power consumption from fixed speed devices is fairly constant with a few minor exceptions.

The VS frugally manages the limited energy supply converting battery energy into compressed air at the precise rate/pressure the diver demands. The VS works only when needed maximizing battery efficiency and output..

THIRD LUNG DIVING SYSTEMS

Electric VS Floating Diving System

Our new Variable Speed technology has resulted in the world's first floating, battery-powered hookah systems capable of supporting multiple divers to recreational depths for over an hour! Divers and boaters who prefer not to store and handle gasoline now have a cleaner and greener option for hookah. Based on the same compressor principles as our world famous gas-powered systems, the VS Electric systems provide a smooth supply of air for up to 3 divers. Electric operation is cleaner and requires less service and maintenance than gasoline engines.

You can expect run times of 60-90 minutes on a fully charged battery set. You can easily extend your diving day with the purchase of a second set of batteries. The batteries are easily changed in just a few seconds - no tools required. Our unique patent pending technology adjusts the compressor's speed and output to the divers' need for air. When diving deep or working to fight a current, the compressor will run up to maximum speed. If breathing and demand decrease (with fewer divers or by diving at shallower depths), the compressor speed will automatically slow and may even temporarily stop; conserving battery power and extending dive time.







VS floating compressor in use with optional AC power supply.

Specifications and Packages

Model	Motor	Free Air Displacement	Air Delivery (scfm)	Avg. Run Time	Oil-less Compressor	Dimensions - Case (L x W x H)	Weight	# of Diver Setups Incl.	
VS265	.75 HP sealed DC motor with sealed switch and	6.0 CFM	3.5 CFM @ 50psi	60 - 90 min.	Single Head	24 x 18 x 20 in	36 lbs (without batteries)	2	
VS335	variable speed controller	170 LPM	99 LPM @ 345kPa	per battery set	Direct Drive	43 x 61 x 43 cm	88 lbs (with batteries)	3	

Best Value

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DIVING PACKAGES	VS265X	VS265XE	VS335X	VS335XE
Motor/Compressor in case	1	1	1	1
Odyssey quick change batteries	2	2	2	2
Battery Charger, 12a	1	1	1	1
Float tube & dive flag	1	1	1	1
5ft Heat transfer hose w/inline filter	1	1	1	1
60ft down line w/QRS fittings	1	1	1	1
QRS Y-Divider	1	1	2	2
20ft diver hoses w/QRS fittings	2	2	3	3
Brownie's hookah regulators	2	2	3	3
Brownie's drop weight cummerbelts™	2	2	3	3
Brownie's deluxe mesh gear bag	1	1	1	1
Online Hookah Training Certificates	2	2	3	3
Egressor™ mini-scuba set, 6 cuft	-	2	-	3
Price	\$ 3,600	\$4,200	\$3,950	\$4,850



Quick Change Battery
Batteries are easily
changed with no tools
required. Purchase a
spare set to extend your
diving day.



Scuba certification may be required to have Egressor™ tanks refilled at professional dive facilities.

Hassle-free Quick Change Batteries!







In the early phase of development of Brownie's VS, consideration to accommodate a wide range of battery brands also spurred the analysis of a "batteries not included" business model. While simpler and potentially advantageous in the beginning, the analysis clearly demonstrated the value of maintaining control of product quality by providing the batteries.

Our research led us directly to the premier military spec battery company; Odyssey "The Extreme Battery". Odyssey batteries provide predictable values, reliable quality and a broad range of other unique features, including a 100% life-span warranty making their selection an easy decision. They can even ship their batteries by air to our dealers around the world, fully charged and ready to go...

Our second great invention incorporated into the VS is a novel Quick Change Battery system. The design focus was driven by weight feasibility, ergonomics and run-time dynamics. Since most divers prefer dives longer than 30 or 45-minutes we created a system that provides dive times over one hour and a quick and easy method for exchanging batteries for those who desire multiple dives per day. The Quick Change Battery system has even eliminated cable connectors.

The VS Quick Change Battery system makes swapping to a fresh set of batteries, literally instantaneous; simply open the battery door lid by means of a one-finger latch pull; snatch the batteries from the fitted tray and re-insert a fresh set; shut the lid and the VS is running again. The large brass spring-loaded contacts are ingeniously hidden in the base of the lid. A marine breaker/switch is connected in line to the VS with a time-delay program keeping the system completely ignition free. No tools or connectors are required to swap the VS/QC batteries.

When back at the dock, pool side or on a vessel with 110 or 220-240 volt AC power, the optional AC Power Supply fits directly in place of the batteries and will continuously supply power to the VS.

Brownie's Battery Gear Bags are great to carry multiple batteries.





Variable Speed AC Power Supply







Quick change from battery to AC Power!



When back at the dock. pool side or on a vessel with 110 or 220-240 volt power, the optional AC Power Supply fits directly into the battery tray and will continuously operate the system as a AC powered device.

VS-ACPS \$ 400

ODYSSEY® Ultimizer™ Charger

The ODYSSEY ULTIMIZER™ charging system is included with each Brownie VS. The 12-amp ULTIMIZER™ is designed to perfectly recharge the ODYSSEY battery set at the most efficient rate. The smart charger also provides a full range of battery condition and charging information during the charge cycle and is also a constant maintenance charger.



It is designed to be left in the on position permanently without damaging the batteries or charger.

Bulk charge Continuous float charge 4-hour absorption charge 14.7V (2.45 VPC) 13.6V (2.27 VPC) 0.4C₁₀

OMAX-12A-1B \$ 190

Brownie's optional "DC to DC Charging Station" is available for on-board charging directly from a boat's onboard battery bank. The Charging Station will securely store and charge a set of VS batteries from a 12 or 24-volt DC system. A voltage sensitive relay and ignition protected disconnect device are installed in the "DC-CS" making the process automatic and within marine electrical safety guidelines.

Charge current

This is a great option for most center console type boats wanting to continue diving throughout the day without the need to return to a power supply. Simply keep a set of Odysseys in the charging station and keep diving. Odyssey batteries are uniquely suited to handle rapid re-charge demands.

THIRD LUNG DIVING SYSTEMS

Electric Variable Speed Boat Diving System

VS0 Boat System

Our VS0 is our most compact hookah compressor option, occupying less than a single cubic foot of space. It includes no power source or reserve of its own, but is ready to connect to your boat's continuous 12 or 24vdc power supply. Performance on 12vdc is adequate for hull cleaning, underwater inspections and light maintenance. Performance on 24vdc will support multiple divers to recreational diving depths.

VSBDC0 Dimensions: 8.5"L x 13.0"D x 11.0"H Weight: 22 pounds.







VS1 Boat System

The perfect diving solution for small to mid sized boats, yacht tenders, sport fishing boats, etc. The VS1 configuration includes the motor/compressor with batteries on an easily mounted base. We added electronics to recharge the batteries automatically from your running engine(s). You can expect run times of 60-90 minutes on a fully charged battery set. The system recharges automatically as you run to your next dive site.

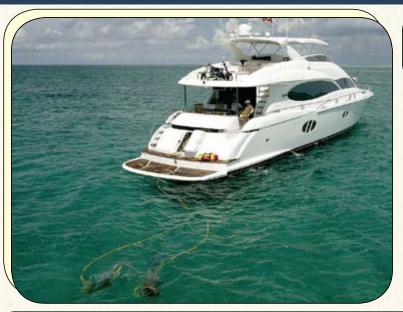
VSBDC1 Dimensions: 18.25"L x 15.75"D x 12.50"H Weight: 82 pounds.

VS2 Boat System

Variable Speed compressor performance – now with extended run times! The VSBDC2 configuration includes the motor/compressor with large batteries (Odyssey PC1500's) on an easily mounted base. The included electronics allow the batteries to be automatically recharged from your running engine(s). You can expect run times of 3 hours or more on a fully charged battery set. Since the power source for the hookah set is self contained, you won't need to worry about draining your engine or house batteries while you dive. The VS2 compressor provides a smooth supply of air for up to 3 divers.

VSBDC2 Dimensions: 23.0"L x 13.0"D x 12.5"H Weight: 136 pounds.







VS AC Boat System

This is the true electrical VS Third Lung Diving System for the yacht. Powered by the boat via the AC power pack (115/230 vac compatible) the system will support one, two or three divers for hours of diving around the boat. The diver supply hose can be routed out a door or hatch, or plumbed out a thru-hull fitting. VSBAC Dimensions: 18.25"L x 15.75"D x 13"H Weight: 44 pounds.

Specifications and Packages

	V3	30	V3	S1	VS	S2		VS	AC	
DIVING PACKAGES	VSBDC0 2X	VSBDC0 2XE	VSBDC1 2X	VSBDC1 2XE	VSBDC2 3X	VSBDC2 3XE	VSBAC 2X	VSBAC 2XE	VSBAC 3X	VSBAC 3XE
Diver sets	2	2	2	2	3	3	2	2	3	3
Motor/Compressor assembly	1	1	1	1	1	1	1	1	1	1
Compatible Power	12/24vdc	12/24vdc	12/24vdc	12/24vdc	12/24vdc	12/24vdc	110-230vac	110-230vac	110-230vac	110-230vac
5ft Heat transfer hose w/inline filter	5ft	5ft	5ft	5ft	5ft	5ft	5ft	5ft	5ft	5ft
Batteries, PC925	-	-	2	2	-	-	-	-	-	-
Batteries, PC1500	-	-	-	-	2	2	-	-	-	-
AC Power Supply, 115/230vac	-	-	-	-	-	-	√	√	√	√
Auto recharge system	-	-		√	√	√	-	-	-	-
Common supply hose, w/QRS fittings	100ft	100ft	100ft	100ft	100ft	100ft	100ft	100ft	100ft	100ft
QRS Y-Divider	1	1	1	1	2	2	1	1	2	2
20ft diver hoses w/QRS fittings	2	2	2	2	3	3	2	2	3	3
Brownie's hookah regulators	2	2	2	2	3	3	2	2	3	3
Brownie's drop weight cummerbelts™	2	2	2	2	3	3	2	2	3	3
Brownie's deluxe mesh gear bag	1	1	1	1	1	1	1	1	1	1
Online Hookah Training Certificates	2	2	2	2	3	3	2	2	3	3
Egressor™ mini-scuba set, 6 cuft	-	2	-	2	-	3	-	2	-	3
Price	\$2,550	\$3,150	\$3,740	\$4,340	\$4,390	\$5,290	\$3,150	\$3,750	\$3,500	\$4,400

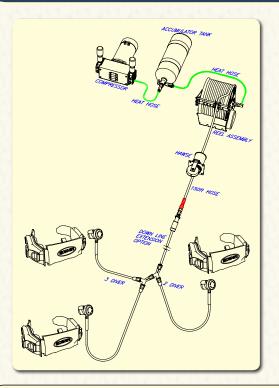
BIAS™ - BROWNIE'S INTEGRATED AIR SYSTEMS

High or Low Pressure Compressors Drive All Ship's Air Needs

Compressed air can have many uses on a boat. Brownie's is the largest supplier of compressed air systems for diving purposes – but why stop there? The compressor that supplies air to divers can also inflate fenders, open doors, blow air horns, flush toilets and more...

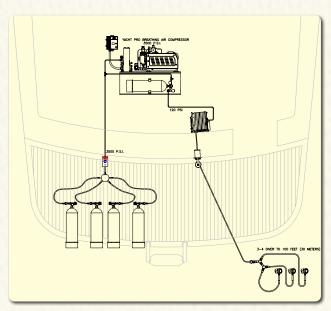
Efficient use of compressed air starts with the boat's plans. Our engineering department will work with your boat builder to design the most efficient use of your machinery; providing the most performance while saving valuable space.

Proper integration involves an assessment of the entire boat's air needs – above and below the water's surface. We design each system specifically to the unique requirements of each customer.

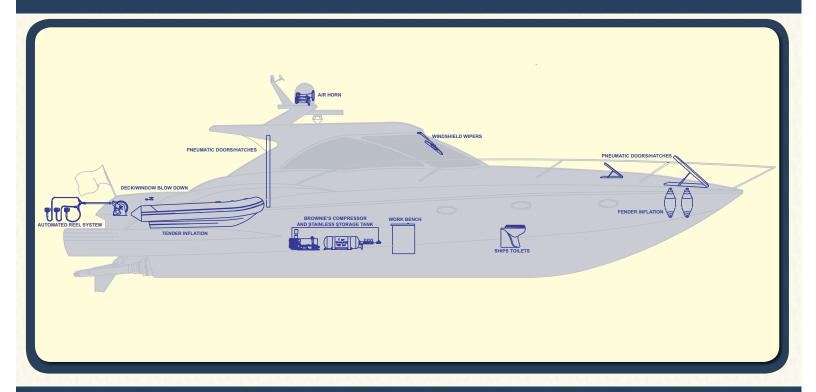








High Pressure Option-tank fills, diving and ship's air all from a single system



E-Reel System™ and Upgrade



E-Reel System Upgrade your vessel

Built-in reel in a variety of power options. Includes sealed through-hull Hawse fitting with integrated hose guide and switch.





E-Reel Cube Portable reel system

Portable reel in a durable case. Accepts hookah or scuba air sources. Bring it out only when you need it. Onboard power supply & switch.



Electric VS Portable Diving Systems

VS Hand Carry

This little gem has all the function and performance of our other Variable Speed Hookah systems in a compact, durable case. It takes up very little space, so it's easy to carry and stow.

The VS HC system does not have an onboard power source or reserve, but is ready to connect to your 12 or 24vdc power supply. The power cord features a secure twist-lock connector. An adapter with "Alligator clips" is also included to allow connection to most common battery terminals.

With capacity to support 1-3 divers, the VSHCDC system is an excellent choice for the private boat owner who wants an efficient way to inspect the hull or perform underwater maintenance that can also be moved from boat to boat.



Specifications and Packages

Model	Motor	Battery Set	Air Delivery	Ava Riin lime		Dimensions - Case (L x W x H)	Weight
VSHCDC	.75 HP sealed DC motor with sealed switch and variable speed controller	n/a	12vdc: 1 cfm @ 30psi (1 diver @ 45ft, 2 @ 20ft) 24vdc: 3 cfm @ 45psi (2 divers @ 65ft)	dependent on power source	Single Head Direct Drive	15 x 12.25 x 9.75 in 38 x 31 x 25 cm	26 lbs

DIVING PACKAGES	VSHCDC 1B	VSHCDC 1X	VSHCDC 1XE	
Motor/Compressor in case	1	1	1	
5 ft heat transfer hose w/inline filter	1	1	1	
40ft down line w/QRS fittings	1	1	1	
QRS Y-Divider	-	-	-	
20ft diver hoses w/QRS fittings	1	1	1	
Brownie's hookah regulators	1	1	1	
Brownie's drop weight cummerbelts™	-	1	1	
Basic towbelts	1	-	-	
Brownie's mesh backpack	1	1	1	
Online Hookah Training Certificates	1	1	1	
Egressor™ mini-scuba set, 6 cuft	-	-	1	
Price	\$ 1,400	\$ 1,500	\$ 1,800	



Egressor Mini-Scuba Systems

Our patented Egressor™ systems were developed to provide a secondary air source in case of an emergency while diving. We recommend that all divers (hookah or scuba) carry enough air to make a safe ascent at any time.

As it has turned out, our Egressor™ systems are so convenient and comfortable, boaters and divers have found all kinds of uses for them. Light and small, they can be stowed almost anywhere and can be donned in seconds - much less time and effort than donning a full set of scuba. These systems are perfect for a quick response to items dropped over-board, verifying anchor location, hull inspection, prop clearing, pool maintenance, and much more!

Not some tiny bottle that only provides a false sense of security, our systems feature a scuba pony bottle with valve and regulators. The tank rides along in a handy sleeve, out of the way in the small of your back, yet is always convenient. Available in two sizes - 6 cu. ft. for the average diver or a full 13 cu. ft. for the serious explorer.

Add-on package to retrofit Egressor™ capability onto any existing Cummerbelt; including tank,

valve/regulators, pressure gauge, sleeve, necklace

DWC-EGS6-WS \$450 DWC-EGS13-WS \$470

Complete package including Cummerbelt, tank, valve/regulators, pressure gauge, sleeve, necklace

DWC-EGS6-PKG \$520 DWC-EGS13-PKG \$540





Best Value – Egressor packages are included in the price of all "XE" model hookah sets.

Scuba certification may be required to have Egressor™ tanks refilled at professional dive facilities



More Brownie's Products...



Not your big box economy gear – only professional high grade silicone used in masks and snorkels. Fins with adjustable straps can be worn with or without booties.

See the full variety of styles and colors at www.browniesmarinegroup.com



WWW.BROWNIESMARINEGROUP.COM

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