

AIRMATIC®

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OLI

INTERNAL ELECTRIC CONCRETE VIBRATORS VH & EWO HIGH FREQUENCY SERIES

AIRMATIC

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ELECTRIC HIGH FREQUENCY INTERNAL VIBRATORS

When pouring industrial floors, walls, columns, slabs, etc., Internal Vibrators that are easy-to-use and maintain are essential.

In many cases it's high-frequency immersion vibrators that are used. Also known as "poker" or "spud" or simply "vibrating needles", these Vibrators come into direct contact with the concrete.

HOW THE VH VIBRATORS WORK:

An eccentric weight, housed inside the vibrating head, is fixed to a shaft which is rotated by a three-phase asynchronous AC motor. When operating, the weight rotates causing the vibrator head to pulsate.

The ability to generate consistent centrifugal force and frequency (speed) the Vibrator is essential to proper consolidation of concrete because a drop in centrifugal force significantly reduces the quality of the finished product.

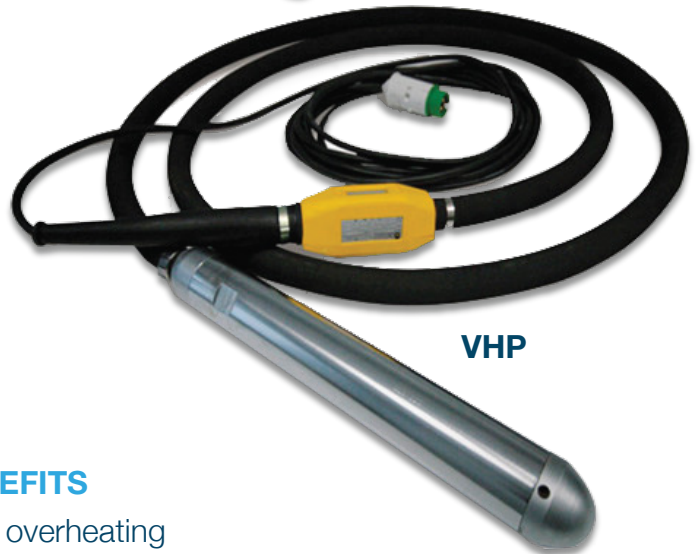
The VH Series is a heavy-duty, reliable product line which is not only ideal for consolidating concrete, but is also built for continuous operation.

Important:

The VH Series is powered by electronic converters that convert the 50/60 Hz standard frequency to the 200 Hz, required to have the vibrating head reach a speed of 12,000 VPM, the ideal speed for proper consolidation.



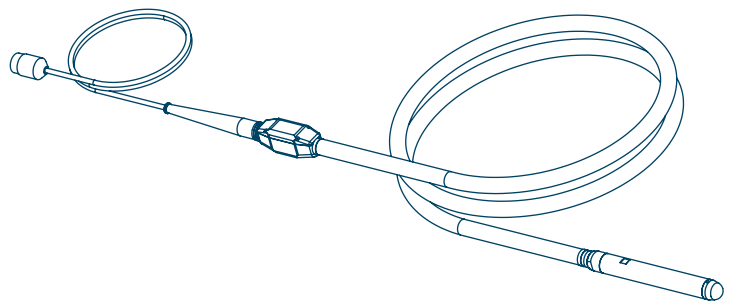
VHN



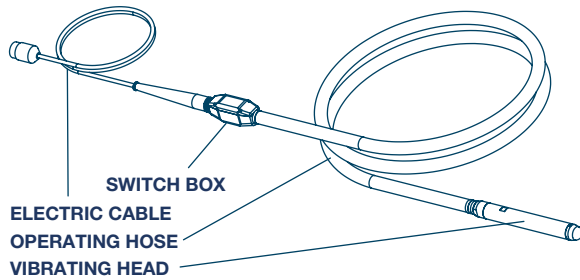
VHP

BENEFITS

- No overheating
- Easy maintenance
- Long life of the vibration head
- 100% Water Proof



MAXIMUM DURABILITY HIGH PERFORMANCE



MODEL	HEAD DIAMETER	HEAD LENGTH	HEAD WEIGHT	TOTAL WEIGHT*	CF	RATED CURRENT**	RATED POWER (42V)	ACTION DIAMETER***	AMPLITUDE	NOISE LEVEL	COMPACTION POWER***
	in	in	Lb	Lb	Lbf	A	kW	in	in	dB A	CFM
VHN 38	1.49	15.90	5.29	23.36	382.17	8	0.5	17.72	0.07	70	11.77
VHN 50	1.96	15.86	9.70	32.62	692.41	11	0.6	23.62	0.07	76	14.71
VHN 59	2.32	16.53	14.99	38.36	1025.12	12	0.9	31.49	0.09	76	20.60
VHP 50	1.96	18.42	11.90	36.15	845.28	15	0.9	27.55	0.08	76	23.54
VHP 59	2.32	19.25	18.07	43.21	1267.92	17	1.1	35.43	0.09	79	26.48
VHP 65	2.55	19.05	20.72	49.38	1647.85	24	1.3	43.30	0.10	79	29.42

* Packaging included ** Refer to centrifugal force for amperage assessment *** Measurements vary according to concrete quality and thickness

VH - ELECTRIC HIGH FREQUENCY INTERNAL VIBRATORS

APPLICATION	Concrete Consolidation
DESCRIPTION	High frequency internal electric vibrators for concrete consolidation characterised by high performance consistent speeds, and remarkable resistance to abrasion

FEATURES

DUTY CYCLE	Continuous S1
INPUT	42V/3Ph/200Hz
NOMINAL FREQUENCY	12,000 VPM
INSULATION CLASS F	(max = 311°F)
THERMAL SWITCHES	Inside the Stator. Max T °F = 302 °F
WORKING TEMPERATURE	-4°F to 104°F
VIBRATOR HEAD	Equipped with ball bearings greased for life. 2 bearings (VHN 50 & VHN 59); 4 bearings (VHN 38 & complete VHP series) Protection class IP68 Hardening treatment for VHN Series; chrome plating for VHP
SWITCH BOX	Polyamide (nylon +30% fiber glass) with gasket; cable protection; yellow color IP66 protection Designed for continuous use and resistance to wear and tear
OPERATING HOSE	15ft SBR rubber hose inner textile reinforcement
SUPPLY CABLE	20 ' neoprene electric cable HO7RN-F with 3 pin plug (42V - 3 phase; IP44)
FINISH	Vibrating Head: painted yellow Ral 1007 (VHN), chromed (VHP); Switch Box: color yellow Ral 1007
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC - 2006/95/EC Conformity verified according to the standard documents: IEC 60745-1, IEC 60745-2-12, IEC 60034-1
OPTIONS	Cast aluminum switch box Rubber cap

ELECTRIC HIGH FREQUENCY INTERNAL VIBRATORS w/ BUILT IN CONVERTERS

When consolidating concrete, precast plants need light, flexible and easy-to-use tools which can be connected directly to the readily available, single-phase power (230 or 110 Volt, 50/60 Hz).

To meet this need, the EWO series of vibrators have been developed: High-frequency immersion vibrators equipped with an integrated electronic frequency converter capable of transforming single-phase input voltage (230V or 110V, 50/60 Hz) into the three-phase voltage (230V, 200 Hz) necessary to obtain 12,000 vpm.



EWO 50C
EWO 59C
EWO 65C



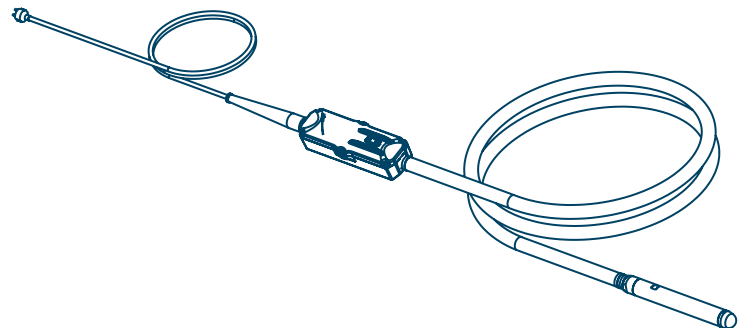
EWO 38C

Compared to the other vibrating needle type internals powered by electromechanical converters, the EWO series has several advantages:

- They are light and flexible;
- The constant output frequency maintains the maximum centrifugal force and thus a high and consistent performance;
- There is protection against short circuits, excessive temperature, voltage and current above or below the nominal values.

BENEFITS

- Reliable
- Safe & easy to handle
- No overheating
- Easy to maintain



MAXIMUM DURABILITY HIGH PERFORMANCE



MODEL	HEAD DIA	HEAD LENGTH	HEAD WEIGHT	TOTAL WEIGHT*	CF	RATED CURRENT**	RATED POWER (230V)	ACTION DIA***	AMPLITUDE	NOISE LEVEL****	COMPACTION POWER***
	in	in	Lb	Lb	Lbf-ft	A	kW	29.42	in	dBA	CFM
EWO 38C	1.49	15.90	5.29	31.96	382.17	1.5	0.5	17.71	0.07	70	11.77
EWO 50C	1.96	18.42	11.64	44.09	845.28	2.7	0.9	27.55	0.08	76	23.54
EWO 59C	2.32	19.64	18.07	50.26	1267.92	3.0	1.1	35.41	0.09	79	26.48
EWO 65C	2.55	19.05	20.72	54.67	1647.85	4.5	1.3	43.30	0.10	79	29.42

* Packaging included ** Refer to centrifugal force for amperage assessment
 *** Measurements vary according to concrete quality and thickness **** Measured at 1 mt distance

	Input Voltage	Input Frequency	Input Amperage
Converter	230V +10% -15% 1ph	50/60Hz ± 5%	5.5 A
Converter	115V +10% -15% 1ph	50/60Hz ± 5%	11.0 A

EWO-HIGH FREQUENCY INTERNAL VIBRATORS WITH BUILT-IN CONVERTER

APPLICATION	Concrete Consolidating
DESCRIPTION	Equipped with compact electronic frequency converters integrated into the supply cable, providing high centrifugal forces, constant speeds and high wear resistance

FEATURES

DUTY CYCLE	Continuous S1
INPUT	230V + 10% - 15% 50/60 Hz -1 Ph
NOMINAL FREQUENCY	12.000-vpm
INSULATION	Class F (Max = 311°F)
PROTECTION CLASS	Head Protection IP68 Converter protection IP66 The inverter is protected against overload, overvoltage, excess temperature and short circuit. An LED light shows the presence of a fault
WORKING TEMPERATURE	-4°F to 104°F
VIBRATING HEAD	Equipped with 4 ball bearings greased for life Hardening Treatment (EWO 38C), Chrome Plating (EWO 50C, EWO 59C, EWO 65C)
SWITCH BUILT-IN	Complete with reinforced gasket
HOSE PROTECTION	15' SBR rubber hose with textile reinforcement
SUPPLY CABLE	30 ' neoprene electric cable HO7RN-F with SCHUKO 220V 2P+1T 16A plug
CONVERTER	Sturdy cast aluminum box Ergonomic and lightweight (< 7lbs)
INVERTER	Tropicalized and protected against vibration, moisture and shocks with a special resin
FINISHING	Painted yellow RAL 1007 (EWO 38C), and chrome plating (EWO 50C - EWO 59C - EWO 65C)
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC, 2014/30/EU, 2006/95/EC Conformed according to the standard documents IEC 60745-1, IEC 60745-2-12, UNI EN ISO 12100
OPTIONS	Rubber cap

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AIRMATIC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications.

Our Customers tell us that by choosing AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.



OLI is the international leader in industrial vibration technology, providing clients around the world with industrial vibrators, electric vibrators, concrete consolidation, frequency converters and a vast range of products designed to adapt to multiple applications in the widest range of industrial sectors. OLI Was acquired by **WAM** Group in 1997.

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