

AEHV

Insulating-oil treatment equipment



Nine models from 200 to 12 000 litres per hour

AEHV

Vacuum oil-purifier series

amperis

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Dehydration, degasification and filtering of insulating oil by high vacuum.

Product overview



Open-side container mounting

Degasification in a single pass

The AEHV introduces the oil into a vacuum chamber where water, dissolved gases and volatile contaminants are removed. Chemically inert accelerator cartridges coalesce free water before it evaporates, expose a thin oil film to the vacuum across millions of 3-10 μm glass fibres, release gases quickly and retain solid particles — one pass replaces the several passes of older spray-and-baffle designs.

Performance

From 27 °C of oil temperature, water content falls from 50 ppm to below 5 ppm and dissolved air from about 12 % of saturation to below 0.25 %; the standard after-filter retains particles down to 0.5 μm . Optional Fullers Earth filters also remove oxidation products, dissolved varnishes, paints and acids.

Main features

- Unattended operation, suitable for work on energized equipment.
- Complete monitoring equipment available.
- Disposable accelerator cartridges, replaced in minutes.
- Nine models from 200 to 12 000 l/h, with Roots booster options.
- Skid, cargo-trailer, container or semi-trailer mounting up to 16 m.



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Applications and configurations

Applications

- Degasification of transformer oil in extra-high-voltage transmission.
- Manufacture of electrical apparatus.
- Cable oils, including polybutenes.
- Oils for radar and electronic equipment, vacuum-pump sealing oils, brake fluids and refrigeration oils, including phosphate esters and silicones.

Built to order

Each unit is configured to the job: extra heater capacity or an outlet heater, diesel or gas boiler, on-board generator, Fullers Earth system (E575A series), inline dielectric tester or RGA, touchscreen MMI, remote monitoring with wireless emergency dial-out, TOLMS oil-level monitoring, explosion-proof EEx or NEMA 7 execution and a full stainless steel option, among others.



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AEHV – TECHNICAL SPECIFICATIONS

Model	Dimensions L × W × H (mm)	Oil flow (l/h)	Weight (kg)	Power (kW)	Vacuum pump (m ³ /h)
AEHV 200	1120 × 960 × 1580	200	685	6	25
AEHV 500	2030 × 1220 × 1780	500	700	15	40
AEHV 1000	2030 × 1220 × 1780	1000	750	21	65
AEHV 2000	2080 × 1320 × 1780	2000	1200	40	100
AEHV 4000	2310 × 1570 × 1980	4000	2270	75	200
AEHV 6000	2590 × 1830 × 1980	6000	3000	110	300
AEHV 8000	3000 × 1830 × 2200	8000	3700	146	400
AEHV 10000	3000 × 1830 × 2200	10 000	4250	185	500
AEHV 12000	4000 × 2000 × 2200	12 000	5000	225	600

With the 'VB' Roots booster option, vacuum pump capacity rises to between 150 and 4 500 m³/h depending on the model.

Suggested oil treatment mass from 850 to 60 000 kg; inlet/outlet connections from 19/12 to 50/50 mm.

Performance: water from 50 ppm to below 5 ppm and dissolved air from 12 % to below 0.25 % at oil temperatures of 27 °C or more; 0.5 µm after-filter.



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