



KLEEMANN HYDRO VVVF Kit

The green solution
for modernisation



The KLEEMANN HYDRO VVVF Kit is the ideal solution for both modernisation projects and new installations. With a capacity of up to 90 trips per hour, it significantly enhances hydraulic lift performance, offering up to a 35% reduction in annual energy consumption, a longer equipment lifespan, and a smoother ride experience. It is compatible with all popular types of control panels and can be easily installed in just 2 hours.

How it's used

The KLEEMANN HYDRO VVVF Kit can be easily and quickly adapted to hydraulic lifts equipped with a BLAIN EV100 valve. It connects directly to the control panel, and special components are fitted to the valve block.

With the use of this kit, the motor now operates with an inverter. This results in a significant reduction in energy consumption and a noticeable improvement in the ride quality, which becomes smoother.



Advantages

Maximum performance	The number of cycles performed by a hydraulic lift can now reach levels comparable to those of a traction lift, increasing from 30 to up to 90 cycles per hour, making it an ideal choice for demanding applications.
Energy savings	The energy savings can reach up to 35% annually.
Extended elevator lifespan	With HYDRO VVVF, the operating temperature levels of the lift are reduced, thereby increasing the lifespan of the hydraulic oil. Simultaneously, there is less mechanical wear on components, contributing to the extension of the motor's lifespan.
Smoother ride quality	The movements are now smoother, resulting in significantly reduced mechanical wear on components.
Power factor improvement	Reactive power is reduced, while the power factor (PF) is improved.
Quick conversion	Installation is completed in just 2 hours, with only about 1 hour of downtime required for final adjustments.
Compatibility	It is compatible with all popular types of control panels, providing flexibility both during installation and lift maintenance.

- Existing heavily-used installations (Shopping Centers, Hotels, etc.)
- Buildings with energy-saving requirements
- Modernisation
- New installations

Ideal solution for

HYDRO VVVF Kit

Whether it's an existing installation or a complete solution, the KLEEMANN HYDRO VVVF Kit adapts perfectly to your needs.

Components in an existing installation

The KLEEMANN HYDRO VVVF Kit includes the cabinet with the inverter, as well as a range of special components for assembly on the valve.

1. Inverter KLEEMANN HYDRO VVVF



2. Valve Kit Components

For 3/4" valve



For 1 1/2" valve



Complete solution

The KLEEMANN HYDRO VVVF Kit offers a complete solution, including both the power unit and the GENIUS20 control panel.

1. Inverter KLEEMANN HYDRO VVVF



2. GENIUS20 control panel



3. Power unit (from 2.2 kW up to 55 kW)

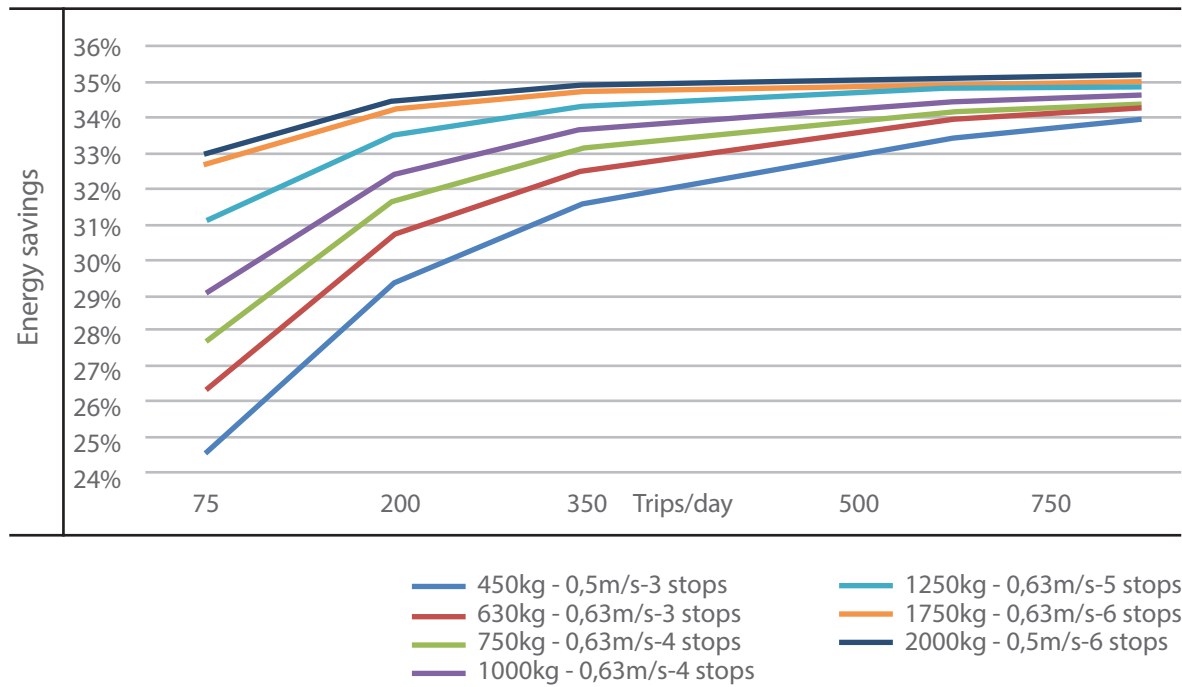


Case Study

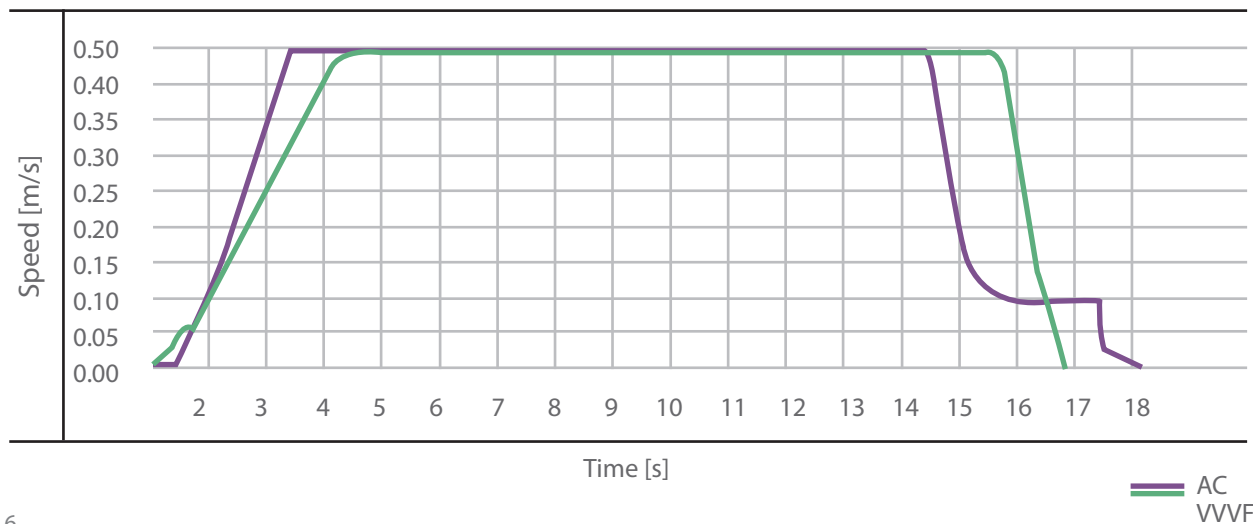
Existing installation of a hydraulic passenger-freight lift with the following characteristics:

- Year of initial installation: 1995 (refurbishment of the power unit and control panel in 2017)
- Number of stops: 3
- Travel distance: 6.2 meters
- Rated load: 450 kg
- Speed: 0.5 m/s

Energy savings from the use of VVVF (according to ISO 25745-2)



Speed profile chart



KLEEMANN has a worldwide presence in over 100 countries with local presence in key market points. It stands out for its product range, high quality and control standards, world class design and for its expertise in custom made solutions. Constantly monitoring the global market trends, the company continues to innovate, grow, develop, and improve while consistently remaining in tune with its global character.



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