



Hydroelite™

Hydroelite™ is an integrated control and drive system for hydraulic elevators. This means that no separate control unit is required. All the decentralised functions in the system communicate via a common data bus. This gives simple interfaces and increased flexibility with regard to the surrounding systems. By that qualifications to appreciable reduced installation time is given! Hydroelite™ is also available for machine-roomless elevators.

Remote supervision

The Hydroelite™ system contains supervision of the elevator and can transmit error indications and service diagnostics via the telephone/GSM network, which can be distributed via the Internet. Options such as an emergency telephone are available.

Everyone gains

At both new installation and modernisation, the user has the advantages of shorter waiting times, shorter travelling times and considerably improved travel comfort. For the property owner the advantage is primarily lower energy use and greater reliability. The elevator company profits on the reduced installation time and the reduced requirements for training, and also the simple order handling by our B2B-system.

Facts in brief

- 10-50% shorter travel time by elimination of creeping time
- 20-40% less installed motor power
- 30-50% lower energy requirements
- Possibility of 50% greater down speed
- Greater traffic capacity without the need for oil cooling
- Improved travel comfort
- More rapid start, and travel not dependent on temperature or load thanks to "smart" electronics
- Exact landing installation by means of self-learning positioning system
- Built-in diagnostic system for effective maintenance and simple troubleshooting
- Flexible and modular to suit all types of buildings
- Remote-controlled fault reporting and service diagnostics
- Direct control, down or full collective and also duplex
- Up to 16 floors and 16 doors (2 entrances)
- Reduced installation time thanks to flexible construction
- System tested from the factory





Technical description Hydroelite™

Pump unit

A specially formed high-tech servo valve acts as an actuator for precise oil flow control. The system is completely self-learning and has no manual settings. The valve system is intended for speeds of up to 1 m/s.

Control system

The control system consists of decentralised functions which communicate via a data bus.

The control node, which is situated on the pump unit carries out the following functions:

- Main switch with motor protection
- Control of the servo valve
- Soft starter for the motor
- Communication to the car and to the floors
- 4 x 20 character digital display with push buttons for commissioning and diagnostics
- Traffic control

Available as options are for instance:

- Emergency telephone, either fixed telephone or GSM telephone
- Web interface for supervision via intranet or Internet

The car node and the floor nodes manage all occurring inputs and outputs and relay them to the control node via the data bus.

Position encoder

An absolute encoder which is connected to the car gives continual information to the control system of the position and speed of the elevator.

Hydroelite™ travel times

Use as required. The reduced time is not only positive for the passengers. It is also decisive for energy saving because of the shorter engaging time of the motor. Further energy saving is received thanks to reduced up speed with maintained total travelling time.



Control node



Car node



Floor node



Position encoder

