TRACTION
POWER
SYSTEMS

Sécheron

ELECTRICAL HOUSES

E-House



GENERAL INFORMATION

Depending on the customer specification, Sécheron can propose different versions of container construction.

CONCRETE CONTAINER



A concrete prefabricated container can be an efficient integration solution in cities and along railway lines. Concrete containers can withstand severe weather conditions and can be provided in different architectural configurations.

Features are available in order to fit the substation in the surrounding landscape. The installation of the concrete container is possible with minimum ground treatment.

Different paintings are available in standard RAL colors.

METAL CONTAINER



Sécheron metal containers have a self-supporting rigid base frame with welded metallic walls fitted with insulation. A raised floor is used as standard to provide space for power cables.

The thickness of the pre-treatment surface and painting is optimised and adjusted to resist corrosion in the long-term depending on the environment.

External and internal painting is possible in standard RAL colors.



Moving a container



E-House equipped with MBS





EQUIPMENT

AC MV equipment & traction transformers

Sécheron is able to propose multiple standard solutions for traction application from different European partners who are key players on the world traction market. Having great experience and skilled calculation and simulation team, Sécheron proposes turnkey solutions starting from traction substation design proposal and up to commissioning complete substation on site.

Rectifiers

With several standard solutions and with possibility to design any custom rectifier, Sécheron uses perfectly the internal space of the container, providing at the same time the highest security conditions to the operating personnel. Traction rectifiers from Sécheron are with natural cooling, fixed or withdrawable, 6 or 12-pulse design and with different duty classes. Additional cubicle incorporating two-pole disconnect switch providing isolation of the rectifier from the DC switchgear can be supplied.

DC equipment

Being a worldwide leader on producing DC switchgear, Sécheron proposes a complete range of DC traction products.

DC switchgear

Producing DC switchgear for many years, Sécheron applies very compact cubicle design in container solutions. Sécheron DC switchgear products cover all possible applications required for the traction market utilizing most modern design and technologies. Except standard solutions for breaker cubicles, Sécheron manufactures custom designed cubicles for negative return lines, disconnecting switches, overvoltage protection, etc. Sécheron breaker cubicles have a withdrawable trolley to fit the breaker, which provides top level of safety for maintenance and operation.

Control command

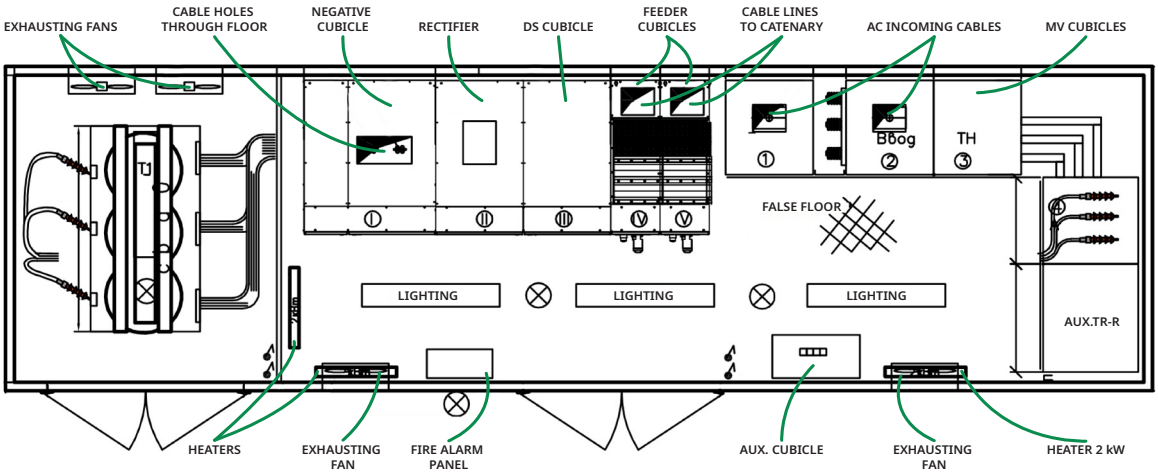
Having great experience in designing and manufacturing control command systems, Sécheron proposes complete solutions for local and remote control, and system monitoring.

Control command systems are built based on a PLC certified for traction applications, also providing communication with external SCADA system by using the most modern industrial protocols such as: IEC 60870-5-104 (-5-101), DNP 3.0, IEC 61850, etc.

Additional equipment

Container traction substations can be equipped with different additional systems as fire alarm, intruder alarm, air conditioning, ventilation, auxiliary transformers and/or battery chargers. All necessary studies and calculations, including detailed design, are made by Sécheron in order to provide the customer with a fully integrated solution.

EXAMPLE OF AN EQUIPPED CONTAINER SUBSTATION



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