Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

THERMAL SOLUTIONS FOR EV-Charging

Electric vehicle chargers need effective and improved thermal management, because of the required power level and to avoid overheating. Especially during a fast charge, the temperatures can increase tremendously.

The most common way to remove the heat from the charging equipment cabinet and to cool the station is through passive air cooling using **Pfannenberg PF filterfans and PFA exhaust filters**. Due to their powerful airflow they provide a stable air volume to avoid malfunction. Slim versions of the filterfans ideally meet the customers' requirements for limited spaces while the black version of those components meet the design wishes. The **Pfannenberg fluted filter mats** are easily replaceable, offer extended service and increase operational safety. Combined with our filterfans they achieve IP 55 protection and longer product life.

Next to excess heat, too low temperatures or excess humidity can damage electrical components, too.
To prevent this, Pfannenberg recommends **compact fan heaters** (PFH / PFH-T Series) or **heaters with integrated thermostat** (FLH-T Series). Separate control devices like **thermostats or hygrostats** control the thermal management and complete the application.

Chillers can be used in the energy storage infrastructure of the EV-charging station for transformer stations, power cabinets and battery packs.

For more information and technical data regarding the Pfannenberg product portfolio, please visit our websites for thermal management and liquid cooling.



Pfannenberg Solutions

Product Benefits



Filterfans

Easy installation	Patented „click and fit“ mechanism without screws
Design focus	Available in RAL 7035 and also in black
Flexible application	SL (slim) versions for limited spaces



Exhaust filters

System solution	Same design options as for filterfans
Fast mounting	Available in 14 piece packaging for easy assembly
High protection	IP 54, IP 55, NEMA type 12



Fluted filter mats

Even in tough conditions	Best dust filtration efficiency
Protection class IP 55	Increased UV protection
Long service life	Saves time & cost during maintenance



Compact fan heaters

Wide range of capacities	200-1200 W in one housing
High power to size ratio	Small, compact design



Heaters with integrated thermostat

Easy mounting	At the bottom
High airflow	Good heat distribution



Thermostats and hygrostats

Operational safety	Condensate and frost prevention
Control variants	Thermostats and hygrostats also as combination



Chillers

Liquid cooling	For power cabinets and transformer stations
Energy efficient	The best cooling way for battery packs
No conversion needed	The 800 V DC unit connects directly to the BESS

Service and Contacts



Global technical Service

24/7 worldwide presence | commissioning, repair and maintenance | spare part kits | service trainings | PSS - Pfannenberg Sizing Software

Simply scan the QR code and find the nearest Pfannenberg branch office