



PRODUCT ADAPTATIONS AND UL CERTIFICATION FOR A SPA CONTROL SYSTEM

Condair is a global leader in supplying equipment for humidification, dehumidification, and evaporative cooling solutions. The company identified a significant market potential for a successfully established European spa control system in North America. Targeted product requirements for successful market entry were identified including adaptations for American mains voltage and UL certification.

From preliminary analysis to industrialization - a seamless process

Condair performed a preliminary evaluation of UL conformity for the existing product to determine the required effort. Using this solid foundation, konplan specifically targeted the electronic and mechanical differences and adapted the device for operation with American mains voltage. With a clear commitment to holistic project implementation, konplan involved all relevant stakeholders early on and established effective communication structures – consistent with konplan’s philosophy of “developing together”.

This collaborative approach provided solutions built directly on existing processes and established suppliers. In addition, communication channels remained streamlined and efficient. Also, konplan assisted with industrialization by developing product manuals, synchronizing system data, and more, to ensure seamless project handover.

Fast, compliant, market-ready – targeted support with added value

Their long-term collaboration with konplan allowed Condair to benefit from a minimal time-to-market for a UL-compliant, production-ready product. Hence, Condair was able to successfully and resource-efficiently fill a gap in the US spa market.

Result

- Faster market entry
- Compatible with US mains voltages
- UL Compliant Product

Methodology & Technologies

- UL 60730-1 / Yellow Card
- Reverse Charge Protection
- Electric class separation
- Electrical safety testing

Scope of Services

- Analysis & Implementation
- Prototype construction
- Industrialization (product manuals)



7 months



2 employees – konplan
3 employees – customer



Development, production

Customer

