CERTIFICATE

Environmental Statement

Erbe Elektromedizin GmbH commits itself on the basis of DIN EN ISO 14001 to maintain, constantly perform and to improve the following environmental actions:

- *Waste management and recycling*
- *Water protection*
- *Emission protection/monitoring of VOC values*
- *Resource management*
- *Process documentation*
- *Energy efficient lighting*
- *Heat recovery and adiabatic cooling*
- *Use of renewable energy*
- *Roof greening and cisterns*
- *Energy management and controlling including DIN 16247-1*

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IN-HOUSE ENVIRONMENTAL PROTECTION MEASURES AT ERBE ELEKTROMEDIZIN GMBH

General environmental protection measures

Topic	Description
Corporate mission	Environmental responsibility has been incorporated into our entrepreneurial philosophy: We take environmental aspects into account by saving raw materials and reducing greenhouse gas emissions.
Waste management and recycling	Sustainable recycling of production waste into secondary raw materials whose use replaces valuable primary raw materials, thus helping to avoid CO^2 emissions. Every year, Erbe receives a certificate from the ALBA Group which informs the company on the amount of saved emissions and resources (steel, aluminum, copper, mixed plastics, wood, waste electrical and electronic equipment and glass) The amount of raw materials saved per year is approx. 500 t; this corresponds to a 75t reduction of CO^2 equivalents annually.
Water protection	Grease separators for the canteen as well as oil separators placed on company grounds help protect the water. Oil drain pans and filter units are employed for this.
Emission protection / monitoring of VOC values	Use of volatile organic compounds and other emissions is monitored and reduced whenever possible.
Energy management and controlling, energy reporting	Continuous monitoring of all parameters for limiting energy consumption of the building is carried out by facility management. All consumption is metrologically recorded so that savings potential can be identified. The enterprise executes routine energy audits in accordance with Para. 8 of the German Energy Services Act (EDL-G) (DIN EN 16247-1). Transparent depiction of energy flows in the company makes it possible to identify, evaluate and prepare for implementation of improvements in energy efficiency.
Resource management	Environmentally friendly use of resources is ensured by supplier audits and precise planning of material usage.
Process documentation, in-house regulations and work instructions	Maintenance and repair as well as safety management for facilities and machines is carried out by the individual operation departments.

Topic	Description
Lighting	Energy-efficient lighting fixtures are used for indoor illumination (currently using LED technology).
Heat recovery and adiabatic cooling	Energy is conserved by using hot air from the building (for example the kitchen area) for all air-conditioning systems to warm up cold air sucked in from outdoors. In cases of low outdoor temperatures, the outdoor air sucked in by the ventilation system for production is pre-warmed by the warm cooling water and at the same time, cooling water is produced for cooling the machines. On hot days, water is sprayed in the ventilation system of the adiabatic cooling. Evaporation of this water results in a reduction of the supply air temperature. This measure enables us to save approx. 170 tons of CO_2 each year.
Photovoltaic units	Three photovoltaic units generating a total rated output of approx. 200 kW supply part of the energy needed of our Tübingen site. Through annual production of approx. 165,000 kw/h electric energy, Erbe avoids approx. 108 tons of CO2 emissions.
Roof greening and cisterns	For irrigation of the green areas of our company headquarters, rainwater is collected in two cisterns. These cistern units allow us to save approx. 200,000 liters of drinking water annually. Roof greening allows us to compensate for part of the land sealing.

Measures taken in connection with the Erbe Academy Extension

Topic	Description
Building control system	Temperature and CO2 sensors in the ventilation system ensure that air change is limited to what is necessary for providing optimal air and temperature conditions in the building.
Building of the Erbe Academy	Modern plant engineering includes heat recovery, a cogeneration unit, absorption refrigeration technology and effective measurement, regulation and control technology. Final energy consumption in the new building lies more than 30 % below legal requirements stipulated by EnEV (Energy Saving Ordinance) and WärmeG (Heat Act).
Energetic restoration	The roof and facade of the production halls and the administrative building were refurbished to upgrade energy performance. Here the insulation values exceed prescribed values by over 30%.
Heat insulation	Co-generation ensures that the heat produced by power generation is utilized for heating the building. Through combination with an absorption refrigeration unit, this heat can be used for cooling in the summer as well. This results in a reduction of CO_2 amounting to approx. 300 t per year..