

USERS INSTRUCTIONS

Xeradex® excimer lamp and electronic control gear DBD- 20- 110/240

General:

The Xeradex 20W lamp and DBD control gear have been specially matched to one another. Never use any other equipment.

Xeradex 20W lamp

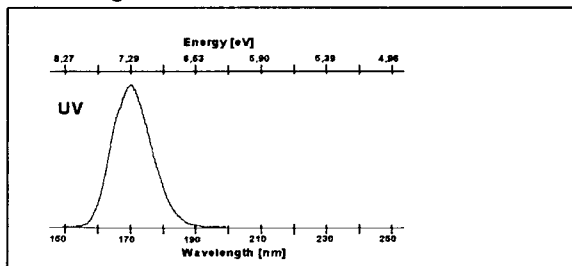
- Never touch the quartz bulb with your bare fingers. Always hold the lamp by its base.
- Before replacing the lamp, disconnect the DBD-20 ECG from the power supply.
- First connect the lamp to the DBD and then connect the DBD to a 110/240 ac power supply.
- Clean the quartz bulb only with a clean cloth moistened with alcohol.
- Never touch the lamp during operation.
- VUV radiation is readily absorbed by oxygen and creates ozone.
- The radiation itself is high-energy radiation (see Fig. 1)
- The lamp is operated at high voltage.
- The Xeradex lamp can only be operated with the DBD-20. Do not connect any other DBD model to the lamp.

Ambient operating conditions

The temperature at the base must not exceed 120°C. The temperature on the bulb must not exceed 180°C. If the lamp is to be operated at higher temperatures, please consult the manufacturer. The plug connector must never be immersed in water.

- Do not operate the lamp in corrosive atmospheres (such as chlorine or fluorine gas).
- If the lamp develops a fault, the DBD will automatically switch off. Disconnect from the power supply, replace the lamp with an identical model and then switch on the power again.

Abbildung 1:

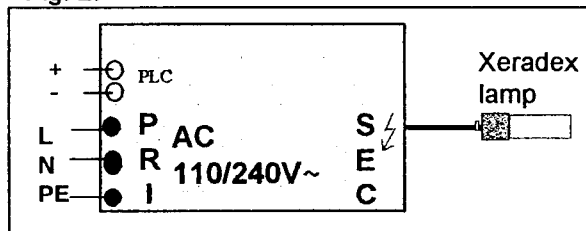


DBD-20-110/240

Electronic control gear only for operating Xeradex 20W lamps.

- The ECG must be installed and tested by a qualified electrician.
- The DBD must not be operated without a Xeradex lamp.
- The DBD has been designed specifically for use with the 20W Xeradex lamp. Do not use it with any other lamp.
- The DBD cannot be used with dimmer switches.
- Do not open up the DBD.
- Do not operate the DBD in damp atmospheres.
- Do not alter or extend the cable between the DBD and the Xeradex lamp.
- Reliable operation is guaranteed only with the original cable.
- PLC control output:
Detecting the DBD status:
DBD in operation: status active (high)
No-load voltage 25-29 V,
DBD not in operation: status passive (low):
No-load voltage 0 V, $R_i = 47 \text{ k}\Omega$
- Data:
Input:
AC U_N 110V (I_N 300mA); 230V ($I_N = 140\text{mA}$),
240V (I_N 135mA)
50/60Hz,
Wattage: max. 30W
Output: high voltage!

Fig. 2:



- Take care making the right connections. (see Fig. 2)
PRI : AC 110/240V~, 50/60Hz
connect L,N, and PE
SEC: Xeradex lamp
- The protective earth (PE) must always be connected.
- Maximum ambient temperature 40°C
Tc - point (see Fig. 3): max 50 °C.

Fig. 3:

