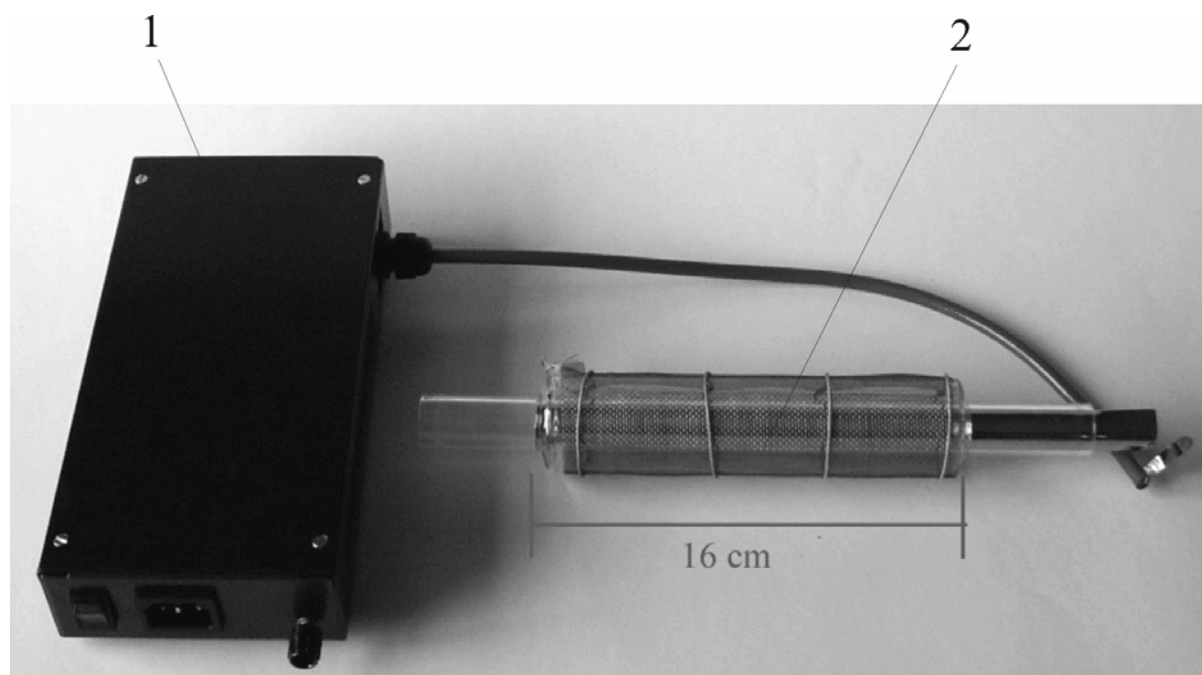
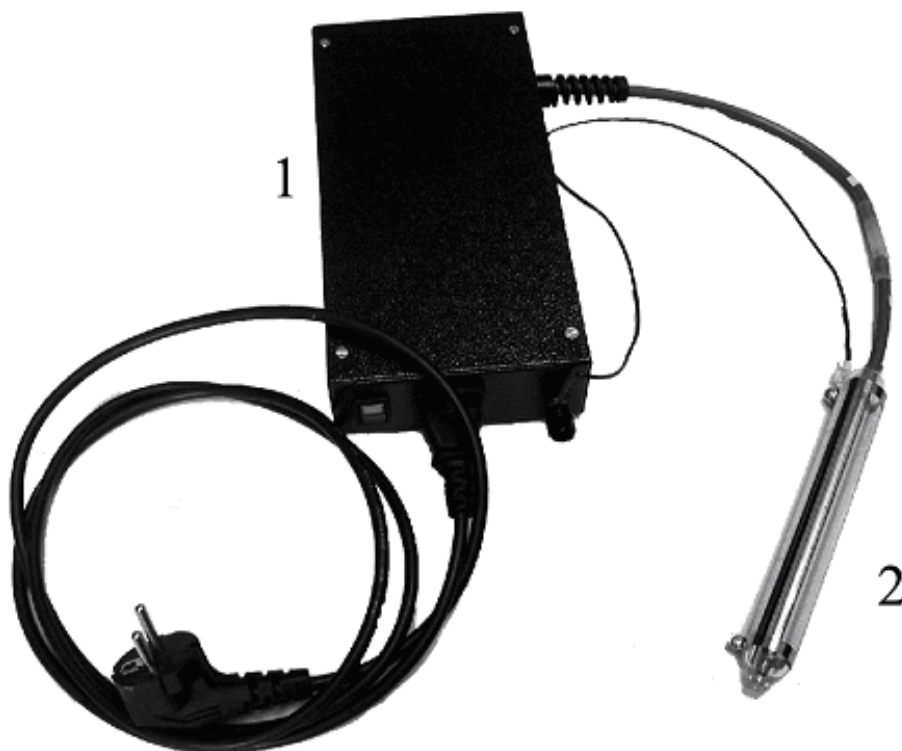

BD_E line (barrier discharge, external) – coaxial excilamps with bulbs located separately from the power supply. They might be used as a lamp and as photochemical reactors. In the latter case the external electrode is reflector, and internal electrode is mesh.

This product line was presented by the large variety of lamp bulbs, distinguished in length, diameters and discharge gaps. Parameters only of two lamps KrBr_BD_E and Xe₂_BD_E are given here.



Radiant exitance, mW/cm²	
– total at inner surface of the bulb	1.5
in a wavelength ranges	
– 200-220 nm	2.5
– 220-250 nm	1.3
– 250-300 nm	1.6
Voltage pulse-repetition rate, kHz	42.8
Radiant power, W	0.45
Efficiency, %	4.6

Photoreactor BD_E based on KrBr* operating molecule (above) and its parameters (below): 1 – power supply; 2 – photoreactor bulb



Design of the barrier discharge excilamp BD_E based on Xe₂* molecule:
 1 – power supply; 2 – bulb.

Operating gas	Xe
λ (max), nm	172
Overall dimensions of the power supply, mm	220 × 110 × 50
Overall dimensions of the bulb, mm	ø20 × 160
Consumption power, W	≤ 30
Radiant power, W	≤ 0.5
Radiant exitance, mW/cm²	≤ 15

At the request of the customer the excilamps of this line might be supplied by flange for fastening of the bulb in volume with an irradiated solution.