

The Earth radiation simulator for thermal vacuum chambers includes a system of radiation sections and ohmic-type infrared radiant heaters located inside the thermal vacuum chamber. The radiant sections are circular in shape, integrated with ohmic-type infrared radiant heaters as a single unit, and connected in such a way as to form a cylindrical radiant cavity containing at least two cutouts. The simulator is mounted to the interior of the thermal vacuum chamber using a support flange and struts; an additional radiation section equipped with ring-shaped ohmic-type infrared radiating heaters is installed near the exit cross-section of the radiation flux to stabilize it.