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The improved cartridge-type blanket CARDISTRY-B2 for the helical fusion reactor FFHR-b1. The cartridge number has been halved compared with the former version. Tangential ports are equipped to enable high-efficiency neutral beam heating. The neutron shielding blankets surrounding the superconducting magnets play a role of cryostat inside the vacuum vessel. This made large bellows for the large maintenance ports unnecessary. (Junichi MIYAZAWA *et al.*, Plasma and Fusion Research, Vol. 14, 1405163 (2019) <http://www.jspf.or.jp/>)