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We study the analogues of symmetric spaces for the family of dicyclic groups of order 4n. We investigate the structure of the automorphism group, characterize the involutions of the automorphism group, and determine the fixed-point group and symmetric space of each automorphism. Moreover, we determine the structure of the orbits of the symmetric space when the group and fixed-point group act by twisted conjugation. Finally, we describe the isomorphy classes of automorphisms and involutions. (Received September 25, 2012)