We classify the unitary quasifinite irreducible highest weight modules over the Block type Lie algebras $B(q)$ for all non-zero values of the parameter $q$. The algebra $B(q)$ contains the Virasoro algebra as a subalgebra and thus is likely to have applications in conformal field theory.

**Keywords:** Block type Lie algebras, quasifinite highest weight modules, unitarity.

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