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ABSTRACT

A refrigerant compressor includes a compressor housing defining a chamber in which successive strokes of sucking, compressing, and discharging a refrigerant gas is repeatedly performed. The chamber is divided into a compression chamber and a discharge chamber by a valve plate. Discharge hole links a compression chamber to a discharge chamber. The valve plate includes an end surface which faces the discharge chamber. Discharge valve regulates a flow of the refrigerant gas from the compression chamber to the discharge chamber. The valve retainer limits the bending movement of the discharge valve in the direction in which the refrigerant gas leaves from one end opening of the discharge hole. The valve retainer is secured to the axial end surface of the valve plate together with the discharge valve by fixing bolt. The discharge valve bends to block and open one end opening of the discharge hole. The valve plate includes an annular groove formed at the on end surface thereof. The annular groove surrounds the discharge hole and is entirely overlaid with the discharge reed valve. Also, an air gap may be designed to be created between the discharge reed valve and the valve plate. Thereby, the noise of resonance vibration caused from discharge valve mechanism can be effectively reduced.

