

ABSTRACT

A liquid-cooled screw compressor 1 includes an oil supply port 11A provided in a casing 2 to supply a liquid supplied from a liquid supply line 15 to a rotor chamber 2b. The liquid supply port 11A includes an inlet portion 21 that fluidly communicates with the liquid supply line 15, an injection portion 22 that fluidly communicates with the rotor chamber 2b, and an intermediate portion 23 that fluidly connects the inlet portion 21 and the injection portion 22 and has a fluid passage cross-sectional area A_m that is constant. A fluid passage cross-sectional area A_i at an opening portion 22a of the injection portion 22 facing the rotor chamber 2b is larger than the fluid passage cross-sectional area A_m of the intermediate portion 23.