

ABSTRACT

A refrigeration system utilizes a Brayton cycle which generates cold heat by using a
5 refrigerant compressed by a compressor unit arranged on a refrigerant path. The compressor
unit includes: a plurality of compressors arranged in parallel to each other on the refrigerant
path; a plurality of first motors for driving the plurality of compressors, respectively; an
expander-integrated compressor configured integrally with an expander; and a second motor
for driving the expander-integrated compressor. The number of compressors is larger than the
10 number of expander-integrated compressors.