

COOLING APPARATUS AND COOLING SYSTEM

ABSTRACT

A cooling apparatus includes N (N is an integer of 2 or larger) refrigerant storage units arranged in a vertical direction and configured to store refrigerants, a condensation unit disposed above the N refrigerant storage units, a steam pipe for circulating gas phase refrigerants flowing out of the N refrigerant storage units to the condensation unit, a liquid pipe for circulating a liquid phase refrigerant flowing out of the condensation unit to an uppermost refrigerant storage unit, and separation piping for circulating a liquid phase refrigerant flowing out of an upper refrigerant storage unit to a lower refrigerant storage unit. The liquid phase refrigerant flows into each refrigerant storage unit via an inlet, and flows out from the refrigerant storage unit via a first connection port formed below the inlet.

Figure 1