

SLANT PLATE TYPE COMPRESSOR
WITH VARIABLE CAPACITY CONTROL MECHANISM

ABSTRACT OF THE DISCLOSURE

A slant plate type compressor having a capacity or displacement adjusting mechanism includes a housing for a cylinder block provided with a plurality of cylinders and a crank chamber. A piston is slidably fitted within each of the cylinders and is reciprocated by a drive mechanism which includes a slant plate having a surface with an adjustable incline angle. The incline angle of the slant plate, and thus the capacity of the compressor, is controlled according to the pressure differential between the crank chamber and the suction chamber. The pressure in the suction chamber is controlled by a valve control mechanism which is disposed in a passageway linking the crank chamber and the suction chamber. An internally controlled safety valve device prevents an abnormal pressure differential between the crank and suction chambers. The internally controlled safety valve device is provided within the valve control mechanism, thereby obtaining an easily manufactured slant plate type compressor having a durable and reliable capacity adjusting mechanism with a safety valve device.

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