CHAPTER 6

OPERATION AND MAINTENANCE OF

6.1 OPEN THE MACHINE AND STOPS THE MACHINE

6.1.1 Check for system work
Preparation work for the system to work include the work to check the condition of the pipes, valves, and the instruments of control and automatic control. According to the rules of safely opening position of the valves must be sealed off lead carefully, because if there is a valve that is not properly open close can happen trouble or danger come to life. All the valves on the top to push until the condenser must be open except the first push of the compressor valve. All the van incident, isolation valves are closed. All the valves on the way of cold agent must open except the first valve and suction of compressors. If the equipment is started by hand then all the valves on the way of cold agent must be opened by hand. The first push of the valve the compressor have no the way recycling (by-pass) to open, and if there is a way to close the recycling to the pressure in the cacte not to pressure when opening the funeral van recycling. The valves connect the compressor and the device with the control instruments, control…

6.1.2 Check for the device to work
For condenser and too cold, the water supply, examining the distribution of all water on the heat transfer surface, check the amount of water passing.

For cooler and evaporate, then open the stir (hot stone), open the loading pump conditioning and weight conditioning test go into cooler, open the fan and check the duct comes into the room cooler.

6.1.3 Check the compressor and refrigeration system
Check again the position of the valve opening in the compressor and the valve connect the pressure gauge and automatic control instruments. check the system rough balm; the oil level in the tank and cacte should be in the limit 1/2 ÷ 1/3 glass tube, check the pump oil and lubricating oil quality.
Check the normal operation of the compressor by hand where necessary and then open the lid to check cacte (for horizontal compressor).

Lead coolant into the cylinder water jacket and lubrication system. Start the engine of the compressor and need some time to reach the level of turnover.

Put the compressor in a working state: Closed recycling valve, at the same time open the valve head push or free top-xunap, top-valve open slowly and still not used to the pressure and temperature tracking head-first and push to prevent hydraulic impact phenomenon in the cylinder and to check the operation of the condenser and the closed position of the valve opening on the first push. Head-cylinder and not shut the snow quickly, condensation pressure does not exceed the working pressure corresponding to the temperature of the cooling water.

Put the system into operation: after the pressure in the cooler has been reduced to the required value and the temperature at the top stating that push the compressor is making the journey to dry then began to open the throttle and adjust the amount of cooling agent on cooler.

6.1.4 Test cold equipment
Regularly check the working of the cooler and to adjust the amount of cooling agent into the cooler, check the status of the compressor and the main and auxiliary equipment. Use the measures to guarantee the normal work for all parts of the system and ensure the safety of workers who operate.

6.1.5 Stop the machine
Close the throttle, drain slightly cold agent out of the cooler to lower pressure in the cooler to lower pressure the boiling pressure 0.3 value ÷ 0.5 bar (to avoid dampening the compressor during the next boot) , close the throttle, stop the compressor, close the valve to start the push. After it stopped providing quality condenser cooling lips, stop providing cold load in the average volatility and the seamless cold, stop all subsystems.