Refrigeration Air dryer
Manual Instruction

Frequent Start and Stop is Forbidden

Five minutes Interval is necessary to restart machine

Please read this manual carefully before use

Installation Caution

1. Please ship this machine carefully to avoid damage, bottom up and heavy shaking.
2. Please put this machine in the proper place with good ventilation, the ambient temperature should below 38 degree.
3. The machine should keep at least 50cm with the wall to insure the heat emission in good condition.
4. In order to maintain the machine easily, the air inlet and outlet should install the bypass valve.
5. The air flow rate must comply with the rating label indication.
6. The machine need separate power supply and grounding equipment. Only professional person is allowed to operate it.
7. The drainage pipeline is needed to avoid water seeper around this area.
8. It is forbidden to connect the air compressor directly.
9. Please connect the wires according to the circuit diagram.
10. Install the air tubes in reasonable to avoid high pressure losses.
11. Install the machine indoor or outdoor with rainproof and sun-proof.

Air Dryer Typical Installation Diagram

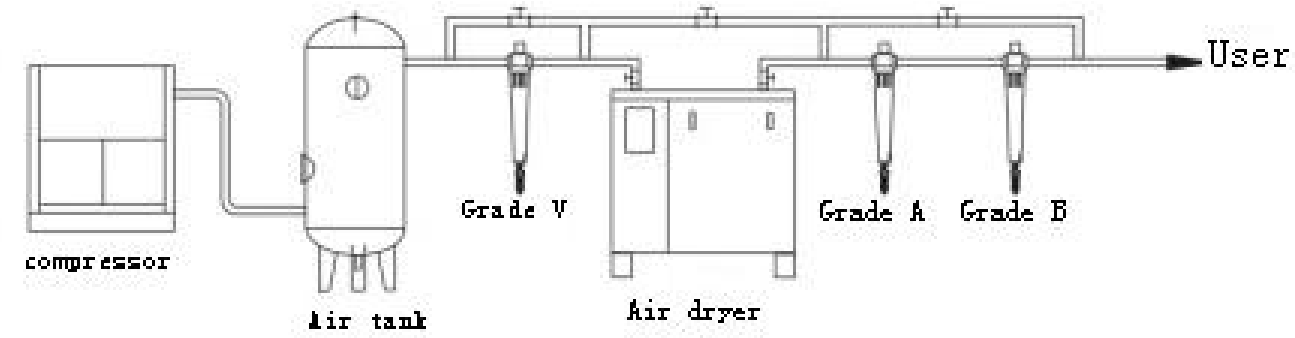


Diagram Explanation

1. The air outlet temperature exceeds 65 degrees should install after cooler.
2. The pipeline filter installation just for reference, should configure it according to the actual status.
3. Please refer the diagram to install the bypass valves. In order to replace the filter element. We recommend configure the bypass valves in each filter inlet and outlet.
4. Drainage install underground or in the ground, but insure water emission in good condition.
5. Please seldom to use the bended pipes to decrease the pressure loss.

Operation Requirement

1. The power supply is 220V-415V, 50HZ. Please contact us if your power supply and frequency are different with us.
2. The machine air pressure is 0.4-1Mpa.
3. Air inlet temperature ≤45℃,Max 55℃.

Operation Approach

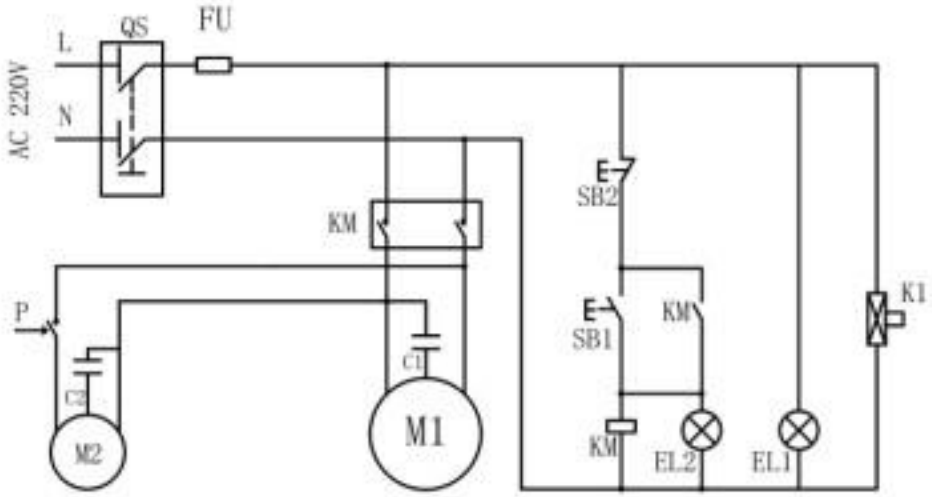
1. Install the equipments and pipelines and check if there is air leakage. Please insure there is no any air leakage before use.
2. Please check the coolant pressure gauge, the correct figure is at least 0.4Mpa.Please contact the local dealer if the figure below it.
3. First open the right cooling plate then open the electronic control box cover of the lower left corner, connect the wires according to the rating label(please do not switch on the power supply).The wires must be insure no any electricity leakage. Also insure the wires can load enough voltage.
4. Open this machine air inlet and outlet valves and insure the bypass valves are closed.
5. Please switch on the power supply when finish all the steps. Open the air switch (do not start this machine), the supply power light will be bright. If not showed the correct situation, please check the wires and connection point. If other indicator lights are bright, please stop to operate this machine. Please contact your local dealer.
6. Insure power wires connection correct, each valves open and close in normal status. Then press the START button to operate this machine.
7. Please check the coolant pressure gauge after operation machine 3 minutes to see if the pressure is 0.3-0.5Mpa.if not, please contact the local dealer. Please note at this time this machine operate without compressed air just in no load condition.
8. Please start this air dryer after operation 3 minutes. Please insure all the pipelines and valves are in good status.

9. The drain will work after 10 minutes operation. Check this machine and confirm everything is normal then close the cooling plate.

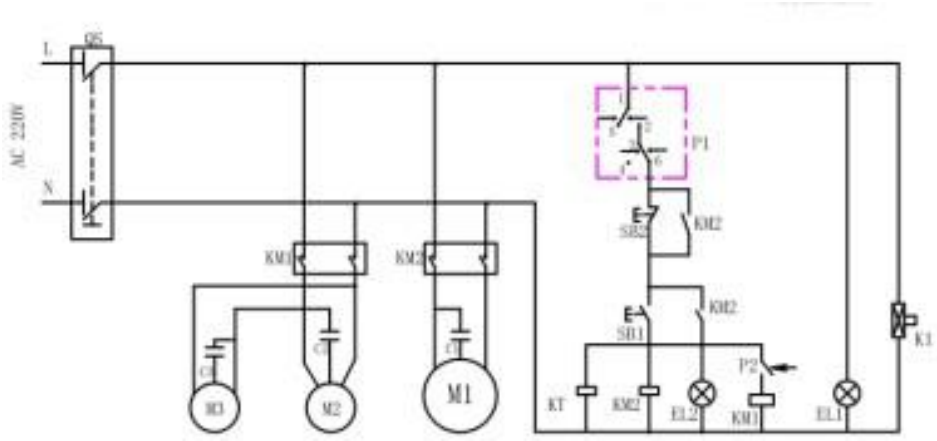
Maintenance

1. Please blow the dust on the radiator with the compressed and also remove the oil contamination per week. The maintenance should be 2 times per week if by manual operation.
2. Please check if the drain works very well everyday.
3. Please check if this machine works status everyday to avoid the temperature too high to affect this machine operation.
4. Switch off this machine, the power supply also need to switch off.
5. Only professional person can operate this machine.

Circuit diagram

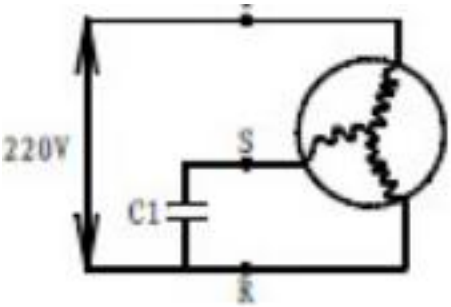


(Compatible with Model CFKA-15-50)



(Compatible with Model CFKA-75-100)

Compressor Connection Sketch



K1 Electronic drain	P1 High pressure switch	KT Power off Delayer
QS Air Switch	SB1 Start button	KM Alternating connector
FU Fuse	SB2 Off button	C1 Fan capacitance

EL1 Power light M1 Compressor C2 Compressor capacitance

EL2 Operation light M1 Condensation Fan P2 Pressure Switch

Troubleshooting

Failure	Reason	Remedy
Equipment air shortage on site	Air leakage of the pipeline	Check and re-installation
	Partial valves switch off	Check and open all the valves.
	Pipeline too long or flex too much	Check and adjust
	Pipeline diameter dimension not reasonable	Re-installation
	Filter or pipeline jam	Open and clear the jam
	Air requirement exceeds the compressor flow rate	Double check the air requirement and comply with the flow rate
Electronic drain Jam	There are Impurity, particle, residue etc.	Please first open compressed air before starting machine then open the manual drain at the same time. Flush the pipeline inside residue many times to solve this problem.