Vacuum pump Instruction book

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I .Product Introduction

The vacuum pump of Band TJ2688 is a complementary product developed by Foshan Tuojian Stomatological Medical Instrument Co.,Ltd. This product was developed according to the special need of dental treatment equipments. It can separate the clinical waste such as girmir and argental mercury, and prevent the blood, phlegm and saliva from spitting to the cuspidor directly during the treatment and cause the secondary pollution.

Ⅱ. Scope of application

It can be used as complementary equipment for the comprehensive medical equipments in stomatology hospital and dental clinics.

Ⅲ.Specifications

Voltage supply: AC220V Frequency: 50Hz

Input power: 0.55KW Operating speed: 2800r/m

Max. flow: 90m/h Max.suction: -21kpa

Noise: 59db Max. vacuum degree: 16-Kpa

IV. Structure of the machine.

1



V. Transportation and storage.

This product should be transported and stored under conditions as follow:

Temperature: -40°C ~+55°C

Humidity: \leq 93%

Atmospheric pressure: 500hPa~1060hPa

$\boldsymbol{W}\!\boldsymbol{I}.$ Conditions for normal operation.

Requirement for electric power and environment:

Voltage: single phase 220v±12v 50Hz±1 Hz

Tempreture : + 5 $^{\circ}$ C \sim +40 $^{\circ}$ C

Humidity: ≤80 %

Atmospheric pressure: 860 hPa~1060 hPa

Ⅷ.Installation

1.prepearation

Decide the placing position according to the overall arrangement of the clinic and the conveniency of pollution discharge. Place the product on the floor where clean, dry, ventilated and cool so that the product can work in a good state. The section of the wire for this product should be 1.5m $\rm m^2$, and make sure the machine is ground connected well.

2.Steps for installation

(1) Check the product

Open the package and check whether the machine and the spare parts are without any damage.

(2) Connecting of the pipes

Connect the pipes accompanied with the machine with the drain-pipes of cuspidor and weak and strong suctions of the dental unit. As the picture showed:



Note: the pipes comes maybe are different type.

The other end of the pipe connects with the air/water inlet.



The picture shows the Connection of water outlet pipe. Connect the water outlet pipe with the nozzle for drain on the vacuum pump and seal it up. Put the other end of this pipe into the sewer.

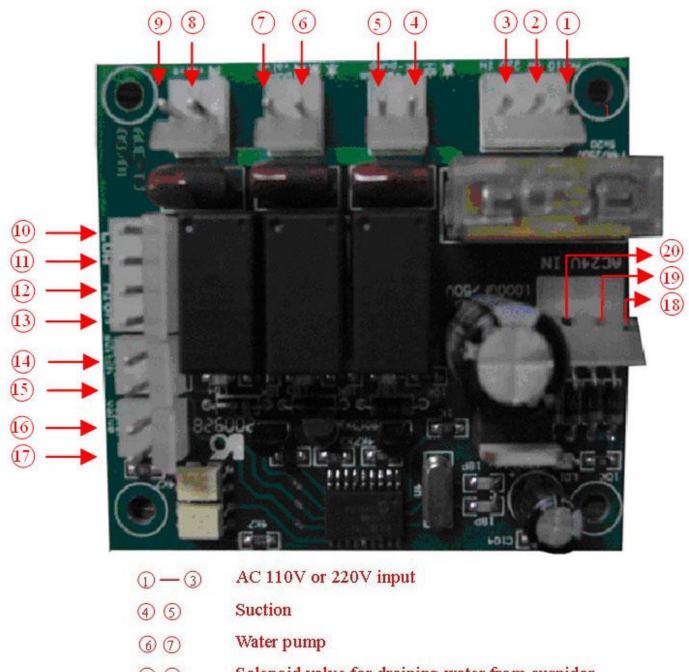


Connecting wire and operation.

1. Connecting the vacuum machine to TUOJIAN Brand dental unit chair, please connect the wires from the dental unit chair as the following picture: (This wire can control the vacuum machine on/off automatically with the chair suction on/off switch, the machine power by the dental unit chair and needn't others power supply)



The following picture shows the Control Circuit Board inside the dental unit.



4 5 Suction
6 7 Water pump
8 9 Solenoid valve for draining water from cuspidor
10—13 Inductive switch (whiteline)
11—12 Inductive switch (blackline)
14—15 Swith for suction
16—17 Solenoid valve for supplying water to cuspidor
18—20 AC 24V input

Control Circuit Board inside the dental unit

Connecting the vacuum machine to others brand dental unit chair, please plug and turn on the manual switch; if you need the machine controlled by your dental unit chair.

W. Attention.

- 1. Make sure the voltage supply is coordinate with the voltage supply the product needs.
- 2. Place this product indoor and keep the room ventilated while using.
- 3. Prevent the dust and waste from jamming the air vent for heat radiation.
- 4. Don't touch the shell while it is working, because the air pump would produce heat when it is working.
- 5. The electric plug must be standard and connect well with ground.

X. Examine and repair

NUM.	fault	Reason	Solution
1		1. Failed to connect the 1. c	onnect the power.
	the air pump out of work	power. 2, c	heck the wires connecting the
·		2, the electric motor out of n	notor or change the motor
		work 3、fi	x the pump head or change it
		3, the pump head caught 4, c	lean the air pump
		damage	
		4. something stuck in the air	
		pump	
		1, the axletree need 1,	lubricate the axletree with
2	Noise become	lubricated lu	ubricating oil
		2, the axletree caught 2,	change the axletree
		damage 3、	change the impellers
		3、 the impellers rub the shell 4、	fasten it
		4, the fastener became	
		lossened	

		1, the axletree caught	1、 change the axletree
3		damage	2. clean the impellers or adjust the
		2, the impellers are not	impellers
		balanced	3 change the principal axis or
	Vibrate harder	3, the principal axis out of	change the pump head
		shape	4、 clean the filtration net
		4.The filtration net of air inlet	
		got jam.	
4	The tempreture	1, the tempreture of air inlet	1. lower the tempreture of the air
	The tempreture	became higher	inlet
	haaana kiabar	2.The tempreture of the room	2, make sure that the room is
	became higher	became higher	ventilated well.
5		1, the speed of the pump	1. the voltage is lower than that the
	The pressure	head is lower	machine needs or the electric
	got lower	2、 the resistance of the net of	motor has a fault
		pipes accelerated.	2. lower the resistance of the net of
		3、 the filtration net of air inlet	pipe
		and outlet got jam	3、 clean the net