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1. Introduction

SI-SO Series Suction Unit is Ia class medical equipment. SI-SO Series Suction Unit is applied in the process of oral cavity treatment as it can pump foreign objects attached with germina, such as oral secretion and dirty blood, as well as protecting environment since the objects can be dealt with before being pumped. Usually, the dental pump unit is equipped with oral cavity treatment unit.

2. Operation-safety requirement

- This machine can provide negative pressure air of oral cavity treatment device
- The power supply of this machine: single-phase power supply 220V, 50HZ, the power supply unit must have short current protection system and dependable earthing installation
- When the machine is on the working process, if the power cut abruptly, please put the power switch of the electric box of single-phase engine on the disconnection position “O”.
- Please pay attention to the notification of all safety sign.
- Checking the air in filter periodically and replacing the filter element in time

3. The configuration of the product

![Diagram](attachment:image.png)

Suction Unit Operation Manual
4. Main technical specification

<table>
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<th>SL-SO550</th>
<th>SL-SO750</th>
<th>SL-SO1100</th>
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<tbody>
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<td>Model</td>
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<td>Power</td>
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<td>220V/50Hz</td>
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<tr>
<td>Input Power</td>
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<td>750 VA</td>
<td>1100 VA</td>
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<td>Large Liquid Flux</td>
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<td>65DB</td>
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5. Figure Introduction

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<tr>
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6. Operation Introduction

6.1 Working conditions of the suction unit

6.1.1 Environment condition
- Ambient temperature +5°C~+40°C
- Relative humidity≤80%
- The air around can't contain quantity of dust and corrosive substance
- Height above sea level can't exceed 2000 meter
- Run mode: load intermittently and run continuously

6.1.2 Power supply condition
- Power supply: 110V±10% □ 220V±10% □√ 230V±10% □ 240V±10% □
- Frequency: 50Hz±1Hz □√ 60Hz±1Hz □

6.2 Unpacking and checking
First check if the package is in good condition and then open it to see if all accessories are rightly attached. Contact distribution unit or us if there's any doubt.

6.3 Attention point for installation
- Installation of electric unit shall be conducted by professional electrician or personnel having received our professional trained
- If encountered with any repair, use original parts or your quality assurance certificate or test certificated won't be effective any more

6.3.1 Ambient temperature 5℃~40℃

6.3.2 If the dental suction unit shall be installed in room for the other usage, prior approval shall be conducted according to relative plan or construction rules or laws, for example environmental protection

6.3.3 If the dental suction unit shall be installed within a small room, enough air flow is necessary for cooling the equipment. Therefore, the vent hole shall be ensured that the diameter is more than 50cm, and if the air flow is not enough that ventilation fan shall be accordingly installed to make air flow more than 1.2M³/min

6.4 Installation and usage

6.4.1 Selection and Installation of Tube
A) The gas-liquid pump tube between the suction unit and the dental treatment unit
   Tube material: PPR or PVC
   Inner diameter: Φ32mm; Tube length: ≥20m
   The tolerance between the tube level and the equipment's base level: The different of tube level is not more than 0.2m with equipment's base level
B) Gas outlet from suction unit to outdoor
   Tube material: PPR or PVC
   Inner diameter: Φ32 mm
   Tube length: ≥10m
C) Water outlet from suction unit to waste water treatment unit
Tube material: PPR or PVC
Inner diameter: Φ32 mm
Tube length: ≥ 10m
The tolerance between the tube level and the equipment's base level: The tube level must less than the equipment's base

6.4.2 Electric condition
- Power supply: A plug socket will be provide with 220V 50Hz for suction unit
- Control electrical wire: The control wire is a vinyl cabtyre cable having two wires. It's area is 0.5mm² and laid from the suction to every dental unit

6.4.3 Installation
6.4.3.1 The unit is installed in either the room ventilated or outdoor hided from the sunshine and the rain. Please keep the tube connection completely
6.4.3.1.1 The connection of the gas-liquid pump tube:
Refer to the drawing figure 2, the inlet connector of the unit is connected to the tube connector for pulling gas-liquid in the field with Φ32mm or Φ50mm flexible pipe. The tube connected is fixed by steel hoop.
6.4.3.1.2 The connection of the drain tube:
Refer to the drawing figure 2, the hydrargyrum separator of the unit is connected to the tube connector for pulling drain tube in the field with Φ32 flexible pipe. The tube connected is fixed by steel hoop.
6.4.3.2 Connect the discharging pipe of the unit to outdoor pipe
6.4.3.3 Electric connect
6.4.3.3.1 Insert the power plug of the unit into the socket with earth system
6.4.3.3.2 Connect the control wire between the suction unit and dental unit

Suction Unit Operation Manual
9. Electric connection drawings

![Diagram of electric connection drawings]

10. Transportation and Storage
- Environment Temperature: -40~35°C
- Relative Humidity: ≤95%
- Atmospheric Press: 500hPa~1060hPa

Attention: This machine should be transported and stored under the condition of "Handle with care", "Right side up", "Without damp", "Put horizontal"

11. Spare Parts and accessories

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<th>Qty.</th>
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<td>2</td>
<td>Fuse BGXP</td>
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<td>Steel hoop 16~25</td>
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<td>5</td>
<td>Φ32mm PVC tube</td>
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<td>6</td>
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<td>8</td>
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