



## **Vacuums sub A2 / Vacuums sub A3**

ORIGINAL INSTRUCTION  
Manual

Solution to your small to medium productivity demands of  
3D vacuum sublimation(film)printing

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## Attachments:

- 1.Vacuumsub A2,Vacuumsub A3 Electrical components list
- 2.Vacuumsub A2,Vacuumsub A3 Main circuit
- 3.Vacuumsub A2,Vacuumsub A3 Control circuit diagram

## IMPORTANT INFORMATION



Please read this manual to understand the usage before any operation on the vacuums sub A2/vacuums sub A3.

This manual includes product introduction, operating instructions, and specifications. SUN-FLY International Business Development Ltd. maintains a policy of continually improving its product line and some illustrations and descriptions may vary from the machine your own.

This Vacuums sub A2 / Vacuums sub A3 is used to print on the surface of sublimation blank phone cases.

## BRIEF INTRODUCTION

### Curve & Multiple-Surface Objects Dye-Sub Printing

The Vacuums sub A2 / Vacuums sub A3 brings you more possibilities of printing with curve or multiple-surfaces sublimation blanks. This machine has a pneumatic drive pump built in that generates a vacuum environment for the heat transfer process, which benefits the sublimation heat transfer printing quality and dramatically enhances efficiency.

### 3D Objects Printable

Vacuum film fully covers on printing objects.

### Better Image Quality

Heating tubes evenly apply heat on to the surfaces.  
Accurate digital control.

### Efficiency

Easy panel operation.

This machine must be installed indoors to avoid rain and wind, which may affect the service life of machine. It must be installed in the following environment:

Ambient temperature: 5-40°C.

Relative humidity: 50% (40°C), 90% (20°C), .

Altitude: Maximum 1000m

Transportation and storage temperature: -25 - +55 °C and for short periods (24h) up to 70°C

Electric supply tolerances: voltage +/-10%, frequency +/-1 Hz

Noise declaration:

For a sound power level: L<sub>wa</sub>= 70 dB (measured value) Associated uncertainty K = 3 dB Measurement made in accordance with EN ISO 3746:1995.

The Figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce includes the characteristics of the work room and the other sources of noise etc. i.e. the number of machines and other adjacent processes. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

## SAFTY INFORMATION



### Electric

This machine contains high voltage elements. To prevent electric shock, do not open the machine cover when the machine is on and in use. Additionally, do not open the drive or control devices even if the power is off when the power cord is plugged in.

Make sure the machine is power off and use a multi-meter to determine if the voltage has dissipated before conducting any wiring adjustments or inspection.

### Ensure the machine is grounded.

Make sure wiring and other machine inspections are conducted by qualified technicians. Any contact surface of human body should be completely dry to avoid electric shock when operating the machine.

### Fire

The internal temperature of the running machine is higher than 120°C, please make sure keep all flammable materials away from the machine.

In the event of a machine failure disconnect the power supply, manually remove the material loading pallet to avoid potential fire risk.

A machine operator must be present when machine is turned on.

### Others

Please use proper lifting tools to move the machine

Do NOT stack, tilt or invert machine crate

Do NOT expose the machine to rain or moisture

Do NOT turn on or operate the machine if it is damaged, missing components, or incorrectly configured.

Do NOT cover the cooling fan.

Do NOT put your hand on or near the loading area when closing it, Do NOT put your hand inside the heater.

Do NOT use the machine in explosive environment



Make sure wearing heat resistant glove to prevent from hurting before any operation on the loading board.



# OVERVIEW

## Appearance



1.Crank Handle	2.Emergency Button
3.Control Panel	4.Printing Jigs
5.Loading Platen	



6.Fans	7.Machine chassis
8.Power Connector	9.Main Electric Wire
10.Power Switch	

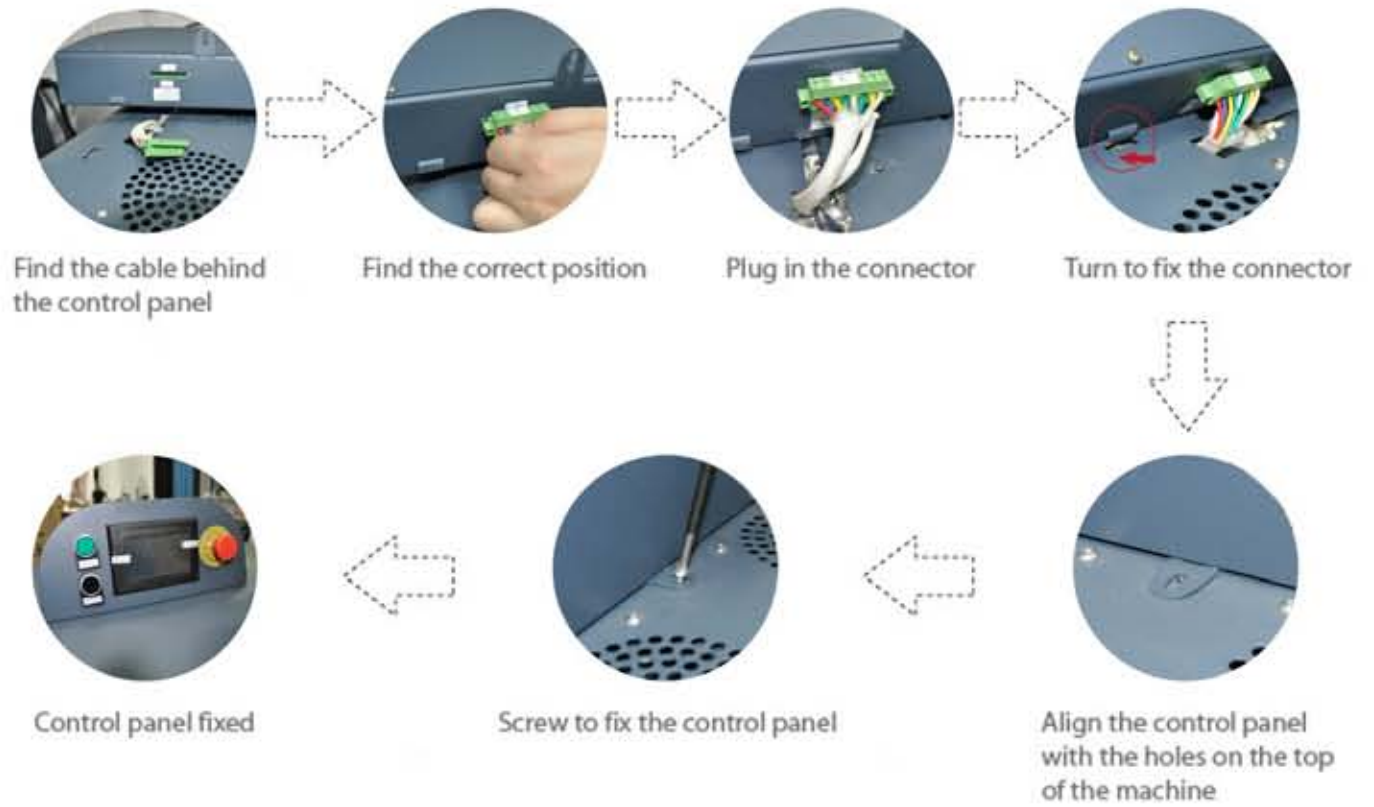
# Package contents



1.Control Panel x1	2.Machine Body x 1
3.Tools	4.Thermal Tubes x2

# Mounting

## Control Panel Installation



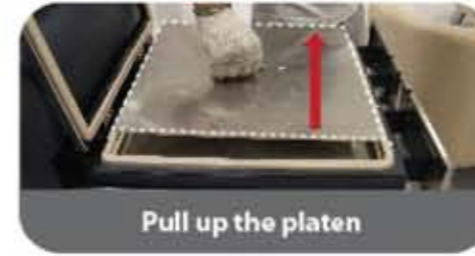
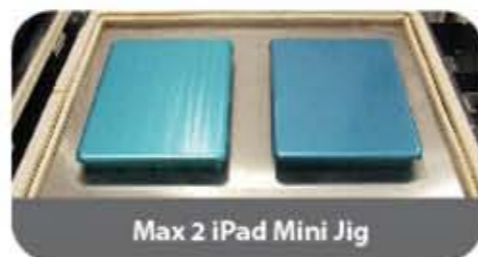
## Main Power Installation



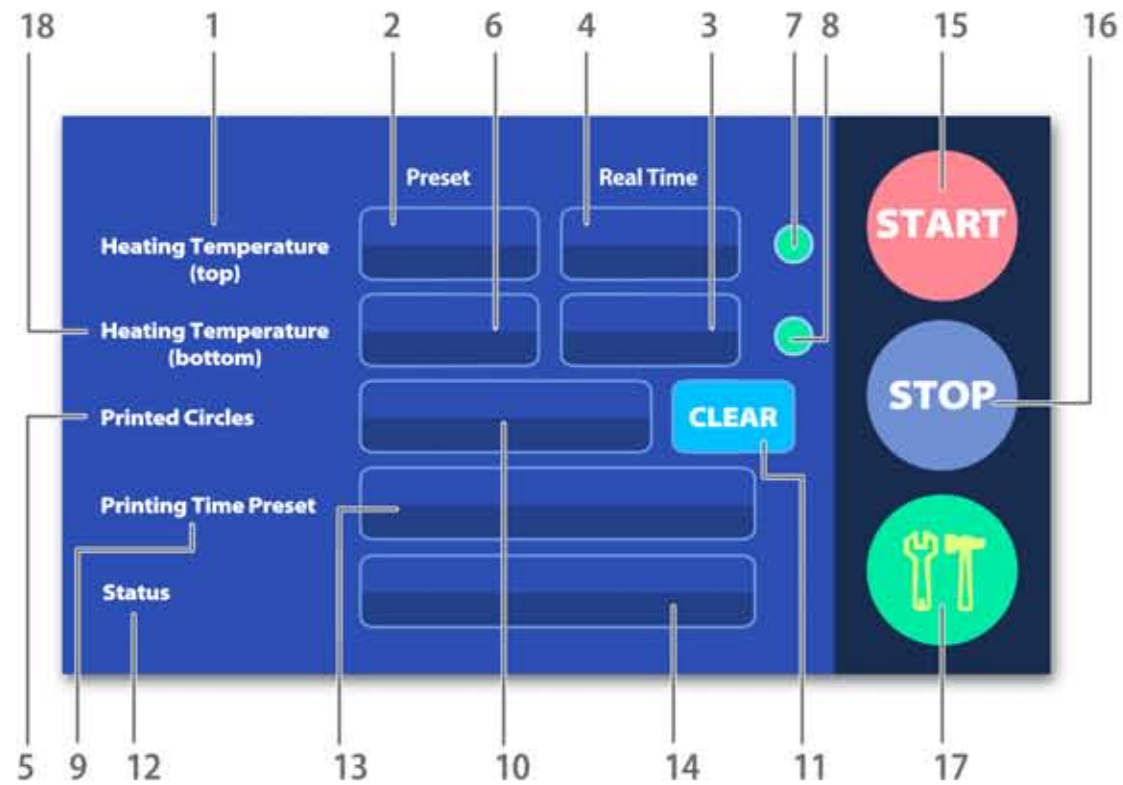


# PRE-OPERATING

## Printing tool installing



# CONTROL PANEL OVERALL



1.[Heating Temperature (Top)] icon	2.Temperature (Bottom) Setting Frame
3.Real Time Temperature (Bottom) Frame	4.Real Time Temperature (Top) Frame
5.[Printed Circles] icon	6.Temperature (Bottom) Setting Frame
7.Pilot Lamp (Green lamp means machine temperature reaches the setting temperature. Red lamp means did not reach.)	8.Pilot Lamp (Green lamp means machine temperature reaches the setting temperature. Red lamp means did not reach.)
9.[PrintingTime Preset] icon	10.Printed Circles Setting Frame
11.[Clear] Option	12.[Status] icon
13.Printing Time Preset Frame	14.Status Frame
15.[Start] Option	16.[Stop] Option
17.[Setting] Option	18. [Heating Temperature (Bottom)] icon

# Hood Heating Temperature Setting

Step1. Touch the [ Heating Temperature ]Setting Frame



Step3. Press [Enter]to confirm setting



Setting finished





# Print time Setting

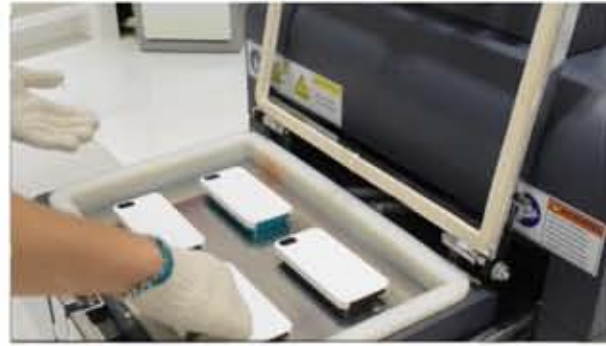


# [Setting] adjustment





# Vacuum sublimation process



Step 1. Put the phone case on to the printing jig.



Step 2. Put on the printed film over the cases. Gloss side should be on the top



Step 3. Close the positioner



Step 4. Push the platen inside the machine



Step 8. Pinch two sides of the case for about 3 seconds.



Step 7. Open the positioner then take out the film and the phone cases



Step 6. Pull out the table.



Step 5. Press [start] button to start 3D dye-sublimation process.

## TROUBLE SHOOTING

Problem	Solution
Control Panel does not work	<ol style="list-style-type: none"> <li>1. Turn off the power to restart the machine</li> <li>2. Calibrate Control Panel: Quickly touch the non-touching area in 4 seconds with 20 times. (It allows more than one figure to click)</li> <li>3. When hear the machine buzzer sounds, stop the touching, then enter calibration mode, touch the Control Panel again according to the cross line, until calibration finishes.</li> <li>4. Open the cover of machine, then loosen the Control Panel screws. (Too much tight will lead to the error)</li> </ol>

## BLANK PRINTING CONDITION REFERENCE

Name	Model#	Temperature( C)	Time(sec.)
3D Film iPhone4 Case	SFP-TFIP4	115/115	280
3D Film iPhone4s Case	SFP-TFIP4S	115/115	280
3D Film iPhone5 Case	SFP-TFIP5	115/115	280
3D Film iPhone5s Case	SFP-TFIP5S	115/115	280
3D Film iPhone 5C Case	SFP-FIP5C	115/115	280
3D Film Samsung S3 Case	SFP-TFS3	115/115	280
3D Film Samsung S4 Case	SFP-TFS4	115/115	280

## SPECIFICATION

Model#	SFS-VSF05	SFS-VSF04
Name	Vacuumsb A3	Vacuumsb A2
Vacuum Load Platen	Single 385 x 265mm	Single 405 x 370mm
Machine Size	418(W) x 605(D) x 1255(H)mm	610(W) x 675(D) x 1355(H)mm
Weight	95kg	140kg
Packing Size	1PCS/CTN 750*650*1330mm	1PCS/CTN 720*820*1320mm
G.W.	115kg	170kg
Power	4000W	4000W
Voltage	230V AC 50Hz	230V AC 50Hz

## Warranty scope

1. Vacuum pump, control panel: warranty in a year after delivery.
2. Hood, Resistance heating tube and spare parts, warranty in 3 months after delivery.
3. The above warranty is based on non-human factor.

## Spare parts

Two hoods



## EC DECLARATION OF CONFORMITY



For the following machinery:

**Product name:** Vacuumsb A2/ Vacuumsb A3

**Model:** SFS-VSF04, SFS-VSF05

**serial No.:** N/A

is herewith confirmed to fulfill all the relevant provisions of Machinery Directive (2006/42/EC), Low Voltage Directive(2006/95/EC) and Electromagnetic Compatibility Directive (2004/108/EC)

and the following harmonized standard have been complied with:

- EN 60204-1:2006+A1:2009

Responsible for marking this declaration is the:

Manufacturer  Authorized representative established within the EU

**Manufacturer's Name** : SUN-FLY International Business Development Ltd.

**Manufacturer's Address:** : 3F/1 TengHui Building, #28 ZhuCun BeiHuan Road, GuangZhou, China

**Authorized Rep's Name** : N/A

**Authorized Rep's Address** : N/A

Person responsible for compiling the technical files established within the EU

**Name, Surname** : N/A

**Address** : N/A

Person responsible for making this declaration

**Name, Surname** : XUHUI SUN

**Position/Title** : General Manager/ Chief Executive Officer

Guangzhou, P.R. China

2015/1/7

(Place)

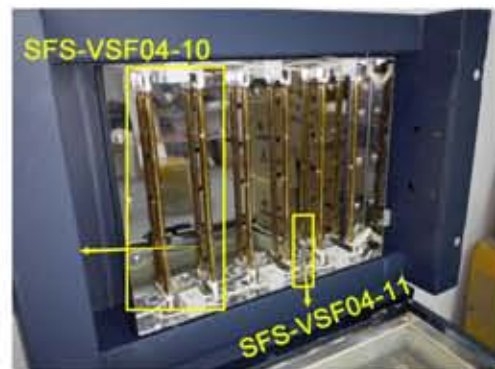
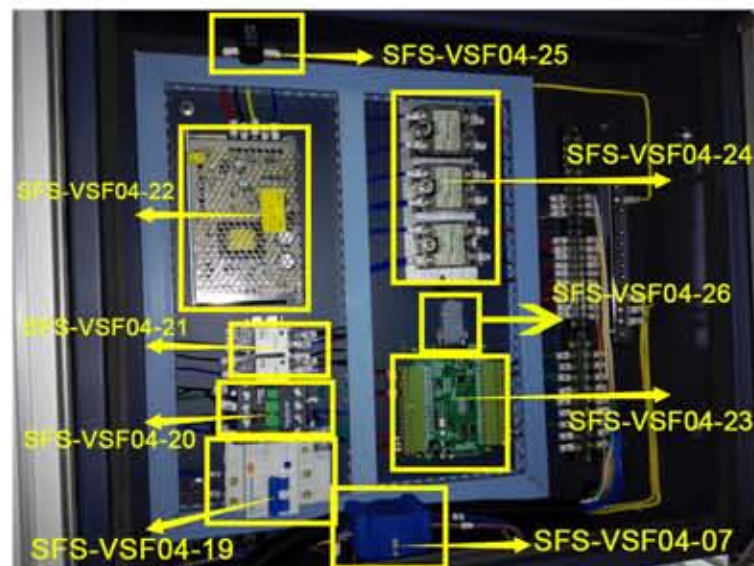
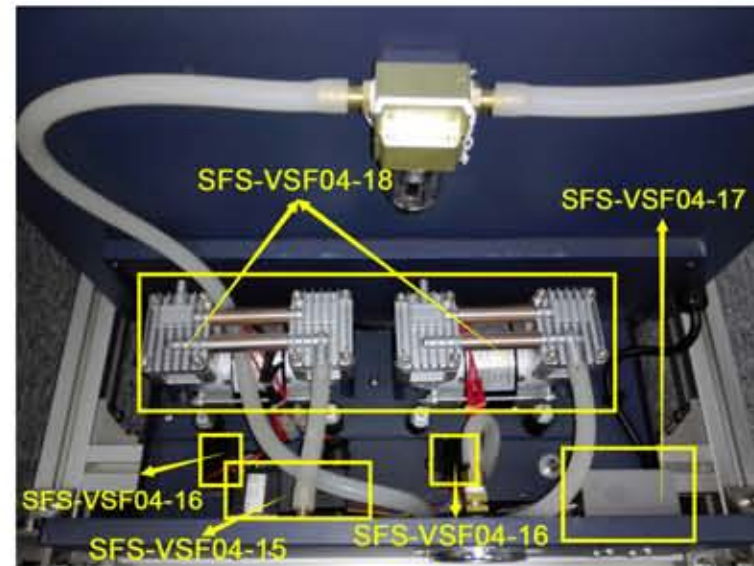
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(Company stamp and legal signature)





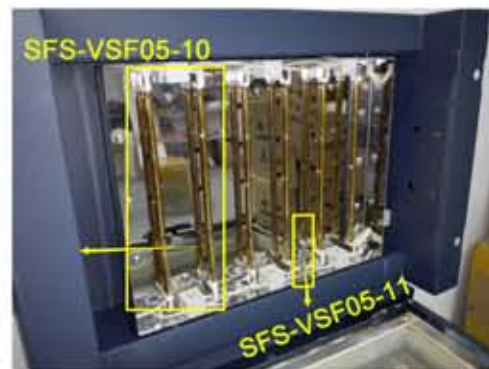
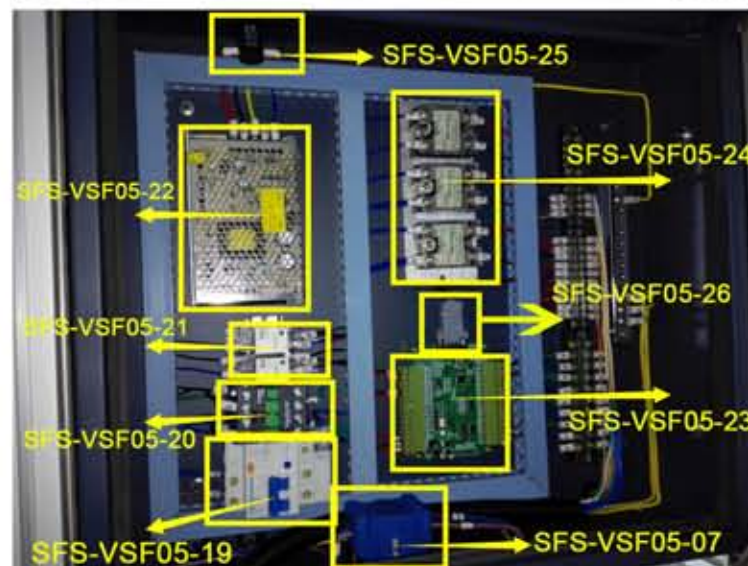
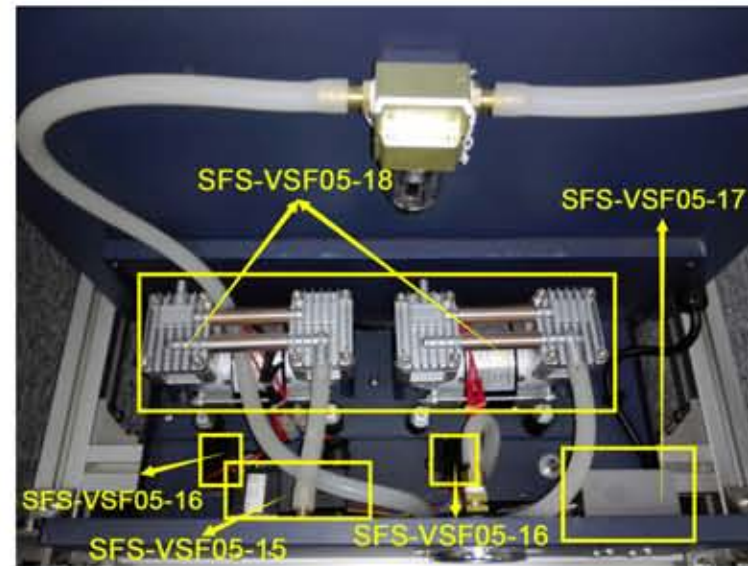
# VacuumsUB A2



Accessory No.	Accessory Name	Warranty Period
SFS-VSF04-01	Start Switch	6 Months
SFS-VSF04-02	Emergency Stop Switch	6 Months
SFS-VSF04-03	LCD Panel	6 Months
SFS-VSF04-04	Filtering Vessel	6 Months
SFS-VSF04-05	Vacuum Gauge	6 Months
SFS-VSF04-06	Aviation Plug(16 needle)	6 Months
SFS-VSF04-07	Main Switch	6 Months
SFS-VSF04-08	Fan	6 Months
SFS-VSF04-09	Slide Rail (Second)	6 Months
SFS-VSF04-10	Lamp Tube	6 Months
SFS-VSF04-11	Temperature Probe Head	6 Months
SFS-VSF04-12	Pressure Ring	6 Months
SFS-VSF04-13	Seal Ring	6 Months
SFS-VSF04-14	Fast Buckle	6 Months
SFS-VSF04-15	Pressure Solenoid Valve	6 Months
SFS-VSF04-16	Capacitance	6 Months
SFS-VSF04-17	Draft Switch	6 Months
SFS-VSF04-18	Oilless Vacuum Pump	6 Months
SFS-VSF04-19	Explosion Proof Switch(CE)	6 Months
SFS-VSF04-20	AC Contactor(CE)	6 Months
SFS-VSF04-21	Auxiliary Relay	6 Months
SFS-VSF04-22	Switching Power Supply(CE)	6 Months
SFS-VSF04-23	Circuit Board	6 Months
SFS-VSF04-24	Solid State Relay	6 Months
SFS-VSF04-25	Buzzer	6 Months
SFS-VSF04-26	Aviation Plug(9 needle)	6 Months



# VacuumSUB A3



Accessory No.	Accessory Name	Warranty Period
SFS-VSF05-01	Start Switch	6 Months
SFS-VSF05-02	Emergency Stop Switch	6 Months
SFS-VSF05-03	LCD Panel	6 Months
SFS-VSF05-04	Filtering Vessel	6 Months
SFS-VSF05-05	Vacuum Gauge	6 Months
SFS-VSF05-06	Aviation Plug(16 needle)	6 Months
SFS-VSF05-07	Main Switch	6 Months
SFS-VSF05-08	Fan	6 Months
SFS-VSF05-09	Slide Rail (Second)	6 Months
SFS-VSF05-10	Lamp Tube	6 Months
SFS-VSF05-11	Temperature Probe Head	6 Months
SFS-VSF05-12	Pressure Ring	6 Months
SFS-VSF05-13	Seal Ring	6 Months
SFS-VSF05-14	Fast Buckle	6 Months
SFS-VSF05-15	Pressure Solenoid Valve	6 Months
SFS-VSF05-16	Capacitance	6 Months
SFS-VSF05-17	Draft Switch	6 Months
SFS-VSF05-18	Oilless Vacuum Pump	6 Months
SFS-VSF05-19	Explosion Proof Switch(CE)	6 Months
SFS-VSF05-20	AC Contactor(CE)	6 Months
SFS-VSF05-21	Auxiliary Relay	6 Months
SFS-VSF05-22	Switching Power Supply(CE)	6 Months
SFS-VSF05-23	Circuit Board	6 Months
SFS-VSF05-24	Solid State Relay	6 Months
SFS-VSF05-25	Buzzer	6 Months
SFS-VSF05-26	Aviation Plug(9 needle)	6 Months