

***ULV Aerosol Generator
Instruction Manual
UE-1 / UE-1 TOP***

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Preparatory for Safety

Before starting the machine, please read this instruction manual carefully.

1. Follow chemical manufacturers' instructions strictly regarding preparation of solution and protective measures. We are not liable for the consequences of an improper application.
2. Make sure the machine is placed safely and evenly.
3. The unit has the advantage of being operated without supervision.
If you don't wear protective gears you should leave the room immediately after the machine starts running. Make sure to put on protective clothes, gloves and breathing apparatus with suitable filter if you are present when fogging in enclosed spaces or whenever the applied chemicals is harmful to health.
4. Lock rooms where harmful substances have been dispersed.
5. Entering to chemically treated rooms is only allowed after they have been vented thoroughly.
6. Carrying out repairs and maintenance only when the plug is disconnected from the power point. Only skilled electrician is allowed to work at electrical parts.
7. When connecting the machine to the power point, local regulations of the power companies must be observed.
8. It is recommended to have the machine checked annually by qualified technician.
9. Attention!
Through poor conditions of the electrical MAINS, shortly voltage drops can appear when starting the EQUIPMENT. This can influence other equipment (eg. Blinking of a lamp). If the MAINS-IMPEDANCE $Z_{max} < 0.312 \text{ OHM}$ (for UE-1) or $Z_{max} < 0.317 \text{ OHM}$ (for UE-1 TOP), such disturbances are not expected. (In case of need, you may contact your local supply authority for further information).

Guarantee

Airofog Machinery Co., Ltd. (called Airofog) guarantees this machine is free of defects in materials or workmanship within one (1) year from the original date of purchase.

The guarantee does not cover any damage occurred during transportation or by incorrect handling, tempering, improper use, the use of non-recommended products / parts and so on. No liability can be accepted for damages to persons and objects and consequential damages as well as damages caused by chemicals or carriers.

Rights to change the specifications to meet the technical progress are reserved.

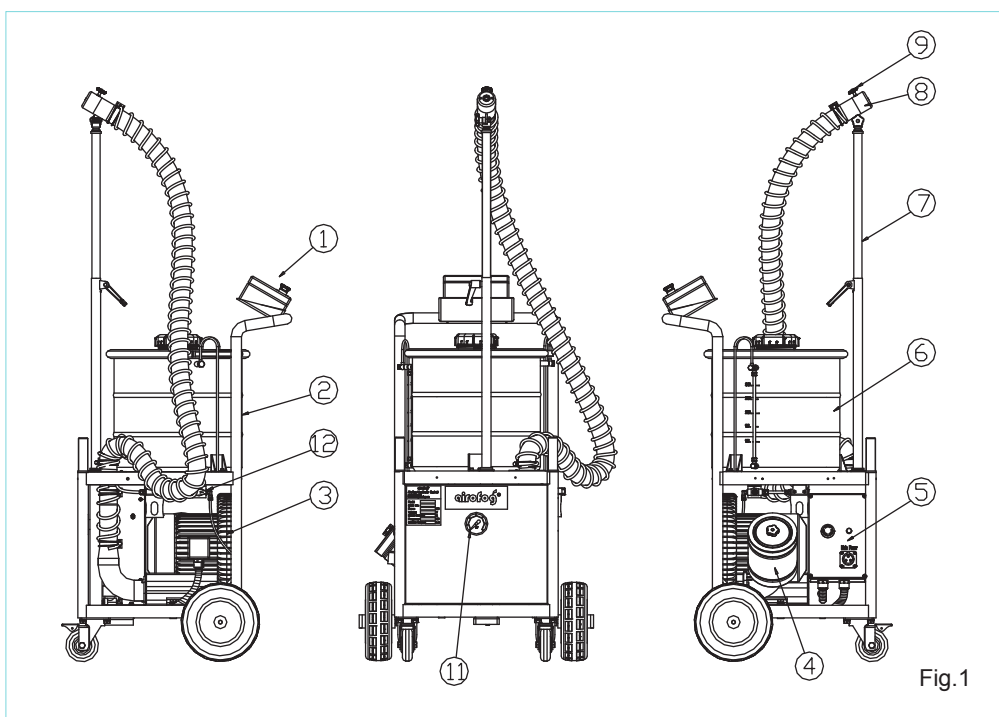
1. Technical Data

FEATURES	UE-1
Motor Blower	encapsulated, maintenance free and acid resistance
electric motor:	1.5 kw, 220-240 VAC, 1-phase
protection:	integrated thermo contact
rated current:	10 A
speed:	2780 rpm
discharge:	3.6 M ³ /min.
pressure:	0.2 bar
air velocity at the nozzle:	180 m/sec.
air filter:	paper star filter
Solution System	made of corrosion-resistant materials (stainless steel, brass,PE)
solution tank:	SUS304, 40 L with lever indicator
solution filling height:	98 cm
output quantity (max.):	variable, 18 L/H
aerosol sprayhead:	1 nozzle
sprayhead height:	extention up to 2m
Control	programming control for simple automatic operation
start:	selected stand-by time, self-running
fogging:	selected duration
post-blowing:	automatically blowing after completion of fogging for an optimal air circulation and droplet distribution
stop:	automatically after post-blowing
Chassis	SUS304, one-piece type
dimension (L x W x H):	50 x 68 x 115 cm
wheel:	2 pneumatic wheels, 2 steering roller
Noise Level	electric drive, low noise level
at chassis handrail:	< 85 dB(A)
Weight, approx.	69 kg

Above mentioned features are subject to change without notice or obligation (v. 201206).

2. Working principles

The Airofog ULV Aerosol Generator UE-1 is driven by a electric motor blower which is encapsulated, maintenance free and corrosion-resistant. This machine applies to both outdoor and indoor, especially extraordinary when applying acid based solution in an enclosed space as motor and blower will not be damaged. By programming control for self-running programme, it can be operated automatically, which helps lowering labor cost and reducing operator's exposure to chemicals.



- | | |
|---------------------|----------------------------------|
| 1. operator box | 7. telescopic pole |
| 2. chassis | 8. spray nozzle |
| 3. motor blower | 9. flow regulator |
| 4. air filter | 10. type plate |
| 5. power supply box | 11. solution tank pressure gauge |
| 6. solution tank | 12. solution valve |

The air compressor operates on the principle of the side channel blower and is matched to the solution nozzle well. It produces a comparatively small air throughput at a high compression ratio, which is advantageous considering the narrow nozzle bores.

The solution nozzle works in two stages.

The first step breaks up the liquid at a high velocity (about 180m/sec.). At the end of a short conical diffuser, compressed air enters again which is acting in an opposite direction and provides a better break up of the droplets. The stream of droplet is dispersed without touching the inner surface of the solution nozzle. Thus wettable powder suspensions can be applied without the danger of blocking nozzle.

The control of the throughput is due to a needle flow regulator from 0 to max. appr. 24 l/h depending on the type and viscosity level of the liquid to be fogged.

2.1 Power supply and control panel

2.1.1 Power supply features:

1. Socket
2. Plug
3. Power indicating light
4. Emergency / Stop button

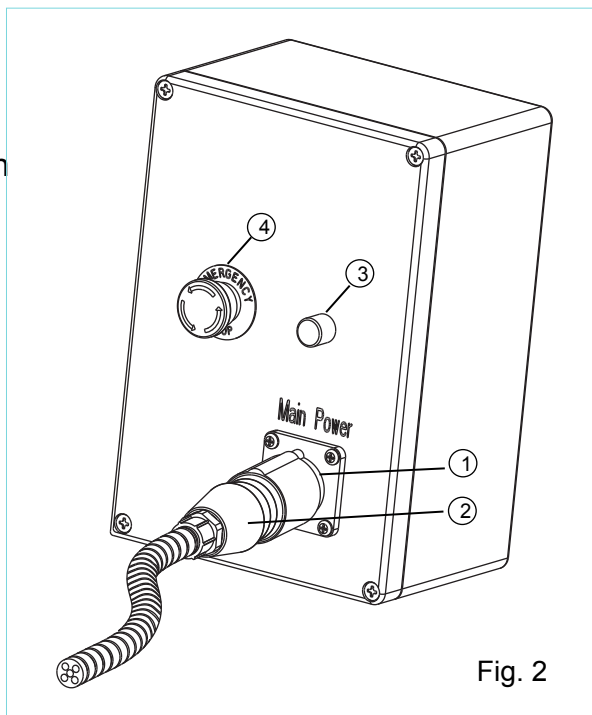


Fig. 2

2.1.2 Control panel features

1. Auto-mode button
2. Stand-by button
3. Spraying button
4. Post-blowing button
5. Selector (hour, min., sec.)
6. Time set
7. Selector
8. Manual/mode button
9. Time display
10. Accumulated running hour
11. Emergency/Stop button

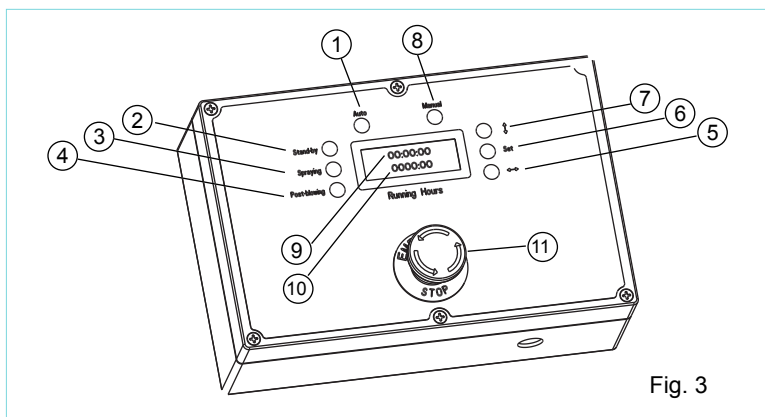


Fig. 3

3. Application hints

All parts exposed to the chemical solution are made from corrosion-resistant materials (stainless steel, brass, PE and etc.). Thus, all approved chemical solutions that don't attack these materials can be used without restrictions. No damaging influences of licensed pesticides are known.

3.1 Fogging mixture

The chemical preparation is to be mixed with clean water as a carrier. A water temperature of 20-30°C supports the mixability with the chemical preparation and is of advantage to achieve a constant output and a homogeneous droplet spectrum.

To reduce the high evaporation rate of the fine aerosol droplets when water only is used as a carrier, special organic carriers like glycol, polyethyleneglycol, Nevocol or emulsifiable white oils should be added. A quantity of 5-10% of the total carrier quantity is sufficient to manifold the durability of the fine aerosol droplets. This is especially important when the relative air humidity is considerably below 90%.

The total mixture (=chemical preparation + water) should never be less than 1L per 1000m² for plant protection or per 1000 m³ for other space treatments. A quantity of water of e.g. 2-3L per 1000m² resp. 1000 m³ or even higher is of advantage, since more droplets of constant quality are formed and a better coverage is obtained.

In practice the following mixing ratios proved successful as a guide line:

powder formulations / water	1:15 to 1:25
liquid formulations / water	1:10 to 1:20



Observe applicable laws when selecting active solution and/or carriers.

The above are based on international application methods and experiences. Since correct application is beyond our control, we cannot be held responsible for ineffective treatment and damages caused by unsuitable chemical preparations or by incorrect application.

4. Preparation of the machine

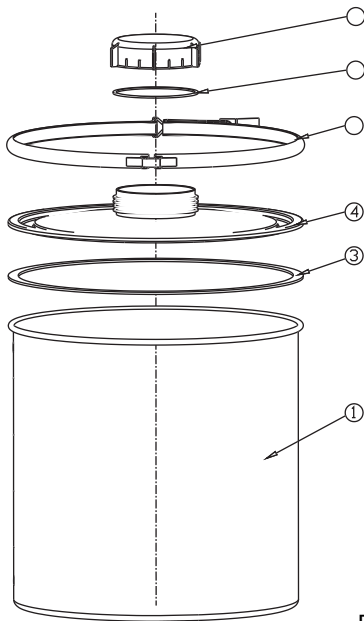


Fig. 4

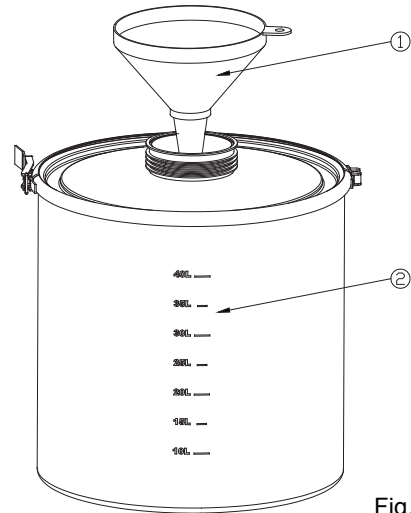


Fig. 5

4.1 Filling the solution tank

 Before filling solution tank, make sure that:

- solution tap is closed, lever points in vertical direction (fig. 1-12).
- check if cover (fig. 4-4) on the solution tank (fig. 4-1) is tightened and the clamping ring (fig. 4-2) is in the correct position together with the sealing ring (fig. 4-3).

- Fill solution tank. Always use solution funnel (fig. 5-1) with strainer.
- Only fill the required solution amount for application.
- Place tank cap (fig. 4-6) with seal (fig. 4-5) in proper position then close them on tank cover tightly.

 Never fill up solution tank over the max. level (30L) (fig. 5-2).

4.2 Setting the output quantity

The machine is fitted with needle flow regulator which dosing max. 300ml/min. As the output varies according to different chemicals and physical property of formulations as well as the height of the nozzle, we advice you to do your own metering of the output under prevailing conditions.

<u>Regulator turn</u>	<u>water (appr. ml/min)</u>
1/4	30
1/2	80
3/4	130
1	180
1.1/4	230
1.1/2	280
1.3/4	300
2	310

Since a fine mist is difficult to see, it is usually better to calculate by fogging time and flow volume than to rely on visible indications.

An optimum distribution rate is 50ml of substance per minute approximately. To establish the application time, firstly determine the total quantity of substance to be used in accordance with the formula as below:

$(\text{m}^3 \text{ of area to be treated}) \times (\text{ml of substance required for } 1\text{m}^3) = \text{ml of substance}$

$$\frac{\text{ml of substance}}{\text{distribution in ml per minute}} = \text{distribution time in minutes}$$

4.3 Adjustment of the spray nozzle

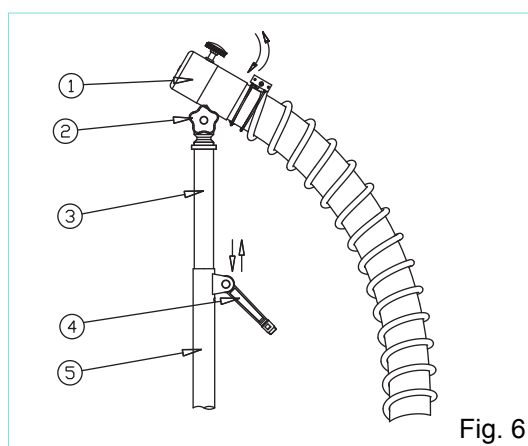


Fig. 6

- The angle can be set by adjusting knob nut (fig. 6-2).
A light upwards inclination of the spray nozzle (fig. 6-1) is advantageous.
- Adjust spray nozzle to required height by pulling in and out the extension pole (fig. 6-3) from the extension base (fig. 6-5) by loosen and tighten locking lever firstly (fig. 6-4).

5. Starting of the machine and functions

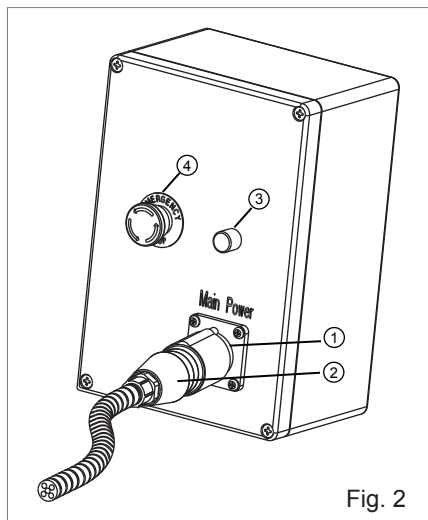


Fig. 2

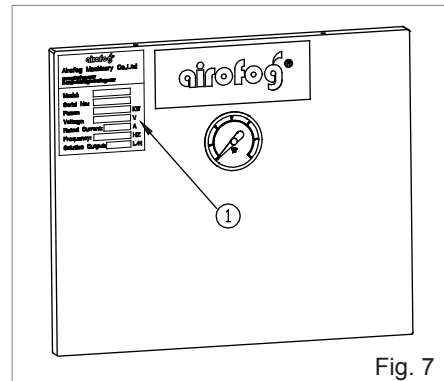


Fig. 7

Power supply:

Before connecting the plug (fig. 2-2) to the socket (fig. 2-1) of the power supply, check whether the voltage of the machine (see type plate fig. 7-1) corresponds to the local mains voltage. Connect the plug of the machine only to sockets with ground connection. Note that the yellow / green lead is the ground connection. Only extension cords which are suitable for the use in greenhouses or being moisture-proof should be used (diameter at least 2.5mm²). When using a cable drum, take care that most of the cable is wind off to avoid overheating in the cable drum eventually causing a voltage drop.

Function of control panel:

Please refer to the detailed steps in section 9 " Setting of Timer ".

Before starting the machine, make sure that:

- Aim the nozzle in the required direction;
- Open the solution tap, turn the solution tag in horizontal direction pointing to the solution filter.

The machine is now ready for operation.

- Press the Auto button (fig. 3-1).

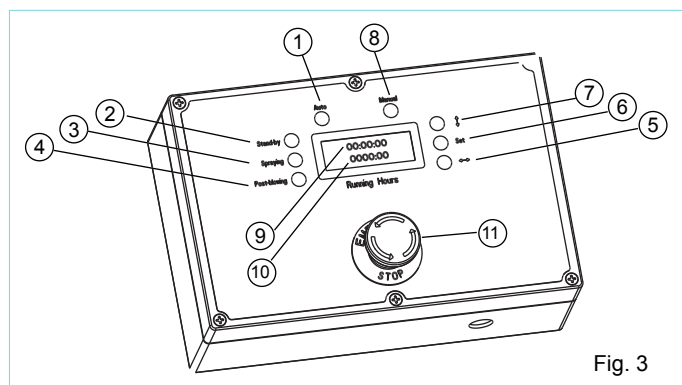


Fig. 3



If you do not wear protective clothing, you should leave the room immediately after the machine starts running.

The application process now runs automatically in the modes.

(A) Starting the blower

The blower starts automatically after the programmed time on “Stand-by”.

(B) Spraying

Spraying will start in the same time when the blower starts.

Duration of spraying depends on the programmed time on “Spraying”.

(C) Post-blowing

Automatically blowing after completion of spraying for an optimal air circulation and distribution of droplet.

Duration of post-blowing depends on the programmed time on “Post-blowing”.

(D) Stopping

Machine stops automatically after completion of post-blowing.



Please note:

The solution tank is under pressure (approx. 0.2 bar). Therefore, do not open the cover or tank cap when tank is under pressure.

5.1 Fogging in enclosed spaces

When fogging in rooms, stables, halls etc., there is a general danger of producing an explosive mixture, if operator does not watch the maximum output per volume.

The dosage of combustible parts of the total fog mixture is not allowed to exceed the following maximal rates per 1000m³ in the below chart:

a)	Fog additives	
	Diesel or Kerosene	3.0 L/1000m ³
	Glycerine	2.5 L/1000m ³
	Ekomist	2.0 L/1000m ³
	Erthylenglycole	2.0 L/1000m ³
	Diethylenglycole	2.0 L/1000m ³
	VK 2 – Special	2.0 L/1000m ³
	VK 1	1.5 L/1000m ³
	Nevolin/Nevocol	1.5 L/1000m ³
b)	Fuel, white oils:	
	Vegetable oil	2.5 L/1000m ³
	Diesel/heating oil	2.0 L/1000m ³
	Petroleum	2.0 L/1000m ³
	Petropal	2.0 L/1000m ³
	Shell Risella 15	1.5 L/1000m ³

These rates are more than enough to the limits of inflammability. Meanwhile they are much higher than what usually dosed in the limited spaces which is 1L per 1000m³ by oil based formulations.

REMARK:

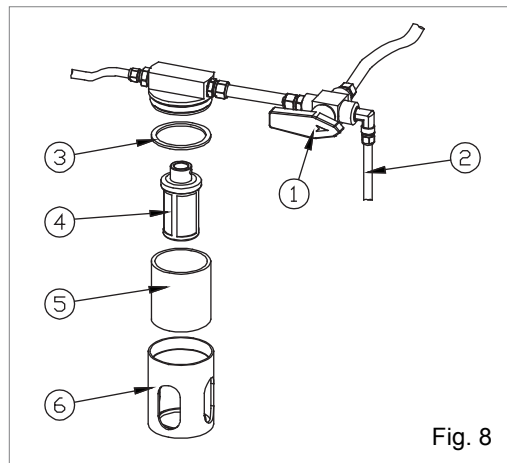
Side channel blowers are designed not only for conveying air but also for generating pressure and vacuum.

If the conveyed medium contains solid particles or other pollutions, these can be removed by installing a filter on the intake side. Attention should be given either to a careful and regular cleaning or replacement of clogged filter, otherwise the performance can not be guaranteed.

 **DO NOT EVER RUN THE BLOWER WITHOUT AIR FILTER !**

6. Cleaning of the machine

After the completion of application the machine should be cleaned.



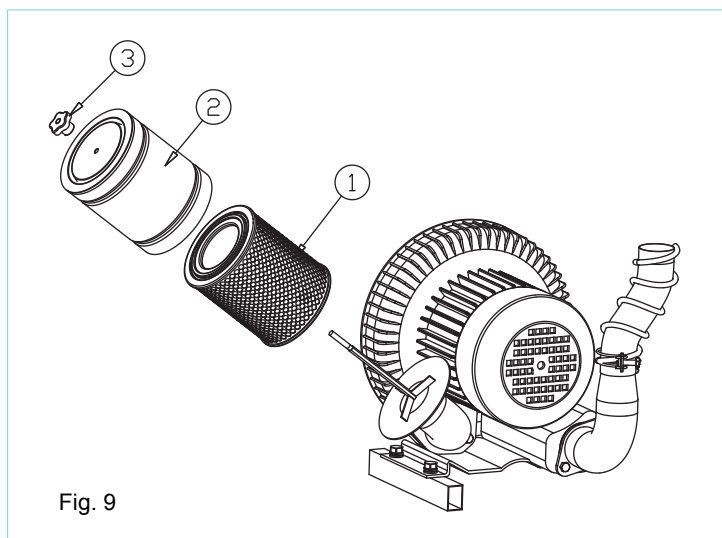
6.1 cleaning of solution tank

- The tank can be emptied easily by turning the solution tap lever (fig. 8-1) parallel to drainage hose (fig. 8-2).
- After empty the solution tank rinse it with clean water
- Make sure not to leave any medium inside the tank after cleaning

6.2 cleaning of the solution pipe system

- If the solution tank is running empty, the pipe system will be blown empty as well.
- If wettable powders have been applied, please flush the system by filling in a small amount of clean water, then keep the machine running.
- The solution filter (fig. 8-4) can be checked from outside as long as the glass cover (fig. 8-5) is transparent. If not, dismantle by turning counter-clockwise the glass cover holder (fig. 8-6) and wash out the filter strainer. Before assembling it back, check if the gasket (fig. 8-3) is in correct position.

6.3 cleaning of air filter (side channel blower)



After approx. 20 hours of operation the air filter (fig. 9-1) should be cleaned.

To check and clean, loosen knob nut (fig. 9-3) and pull off housing (fig. 9-2). Pull off filter and blow clean from outside parallel to the folds of the paper filter. Finally blow from the inside to the outside. Clogged or damaged filters must be replaced.

The life time of the blower depends entirely on the cleanness of the air filter.

7. Maintenance

The machine requires almost no maintenance. The side channel blowers are equipped with sealed groove ball bearing which do not need lubrication. The grease filling is sufficient to the whole service life of the bearing.

Please remember that even small solid particles e.g. sand can damage the blower or lead to blockage of the rotor resulting in an expensive repair.

7.1 Spare part

When ordering spare parts, please state clearly the machine's serial number, part or pos. no., description as per drawing and spare part list attached.

8. Trouble shooting

Only qualified electrician is allowed to do the work at electrical equipment.

8.1 Timer indicator lamp does not light.



Disconnect the mains plug before opening the control box. Do not touch electric parts in the control box while the machine is connected to the power supply for checking.

- Check the mains supply first.
- Check if the thermal overload relay is activated.

8.2 Motor does not run.



Before checking, disconnect the mains plug.

- check the mains supply first.

- check if you can turn the motor at the ventilator fan easily.

If you can turn the motor easily while mounted, there is an electric defect and the motor has to be replaced.

If you can not turn the motor, the motor has to be disassembled and checked:

- if there are damages at the bearing.
- if the blower impeller is in contact with the blower housing, in this case we would recommend to replace the motor blower.

8.3 System of solution flow

8.3.1 Throughout no flow, too low or uneven

Possible causes

- If the system does not permit a larger throughout
- Solution nozzle or solution hose are clogged
- Solution hose leaks
- Check solenoid valve for free passage, choked or defective

Actions

- clean solution filter
- clean nozzle or hose
- replace new hose
- clean or replace

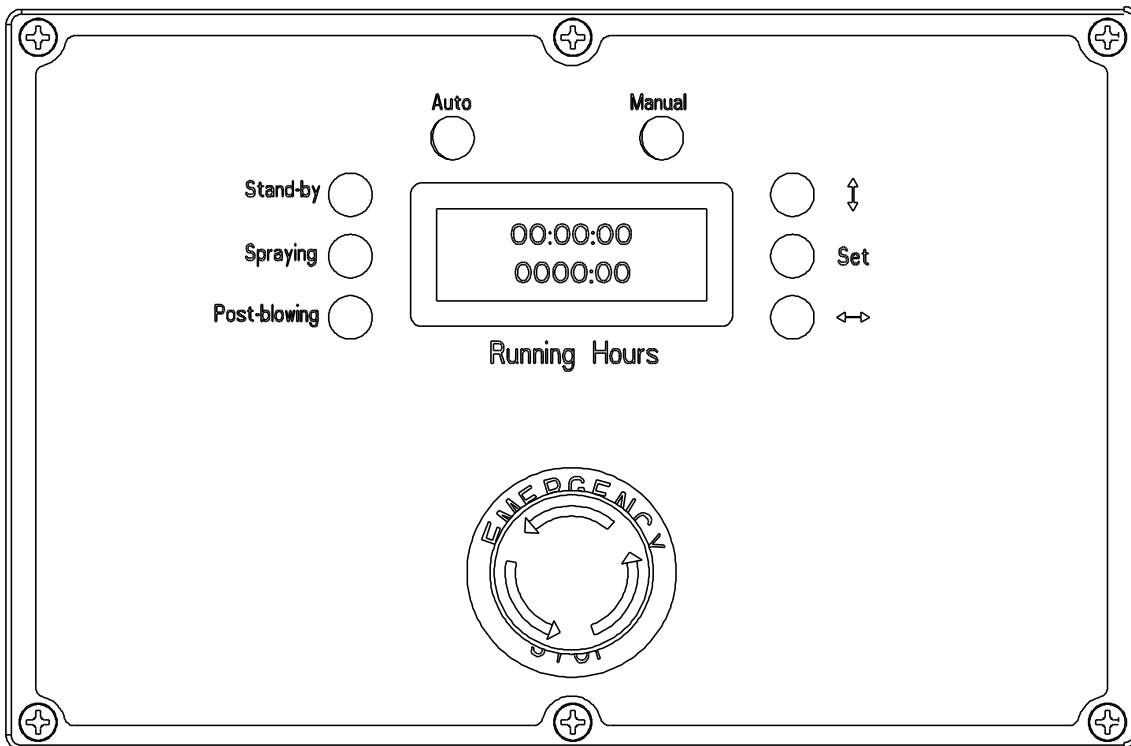
8.3.2 Pressure in the solution tank is too low

- Check the pressure gauge (fig. 1-11), start the equipment and check pressure (appr. 180mbar.)

If pressure is too low, take off cover and cap, check cover gasket and cap seal and replace carefully if necessary, fit cover and cap back to solution tank.

- Check pressure tube connection from blower outlet to solution tank.
- Check air hose for leakage.

9. Setting of timer

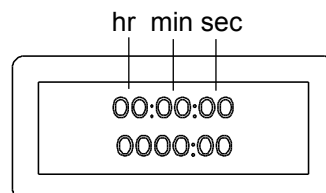


9.1 Auto-Mode:

Press the auto button to activate the auto-mode.

To set the "Stand-by" timing:

- (1) Press stand-by button, the stand-by button light will flash at the same time, the time display hour will flash.
- (2) By pressing the \leftrightarrow to select hour, minute, second.
(when selecting the min., the min. display light will flash.)



- (3) By pressing the \updownarrow to set you necessary time.
(for hour 00 to 19, min. 00 to 59, sec. 00 to 59)
- (4) Press set button to confirm your time setting, at the same time the stand-by button light will be off.

Repeat the above steps to set the "Spraying" timing and "Post-blowing" timing.

9.2 Auto-Mode Operation:

- Press the “auto” button, the light will be on; press it the second time, “stand-by” light will be on. At the same time, the time display starts to count down. When the time goes to zero, spraying function starts, following will be switched simultaneously.
- “spraying” light is on
- air blower is on
- solution solenoid valve is on
- time display counts down

The machine is spraying at the moment.

When the time display on “spraying” counts down to zero, the machine will be switched automatically to “post-blowing” function, following will take place:

- “post-blowing” light is on
- air blower keeps going on
- solution solenoid valve is off
- time display keeps counting down

Air blower will be cut off automatically then the machine stops functioning when the “post-blowing” time counts down to zero.



Intermediate stop:

You can make intermediate stop during auto-mode operation by pressing auto button. The time display will stop.

To continue the programme, just press “auto” button. Time display will be running on.

9.3 Manual-Mode Operation:

- Press the “manual” button, the light will be on; press it the second time, the machine starts to run and spray.

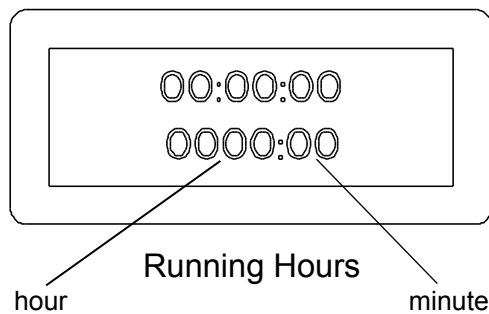
Following will be on without time control:

- air blower is on
- solution solenoid valve is on

Only when you press again the “manual” button or “Emergency/Stop” button will the machine be stopped.

9.4 Running Hour:

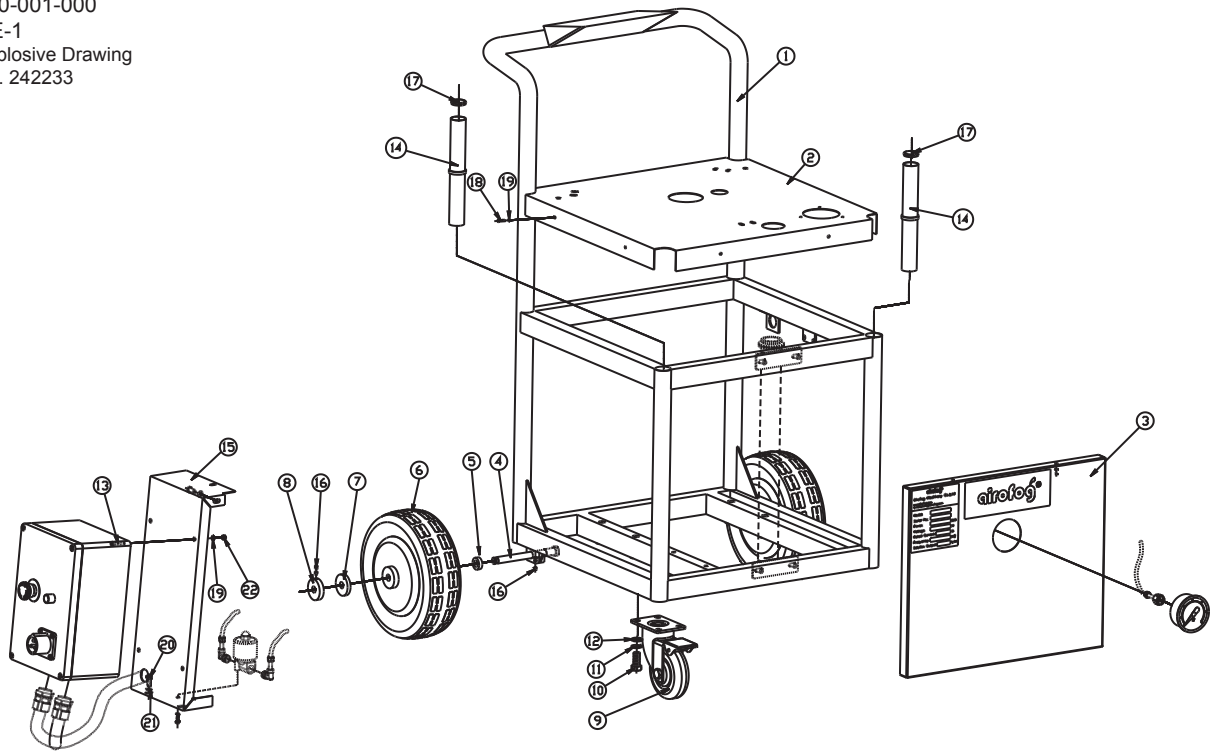
When the air blower is running (auto-mode or manual-mode”), hour clock starts to record the machine’s running time which will be accumulated (can not be reset).



Explosive Drawing and Spare Part List

Chassis

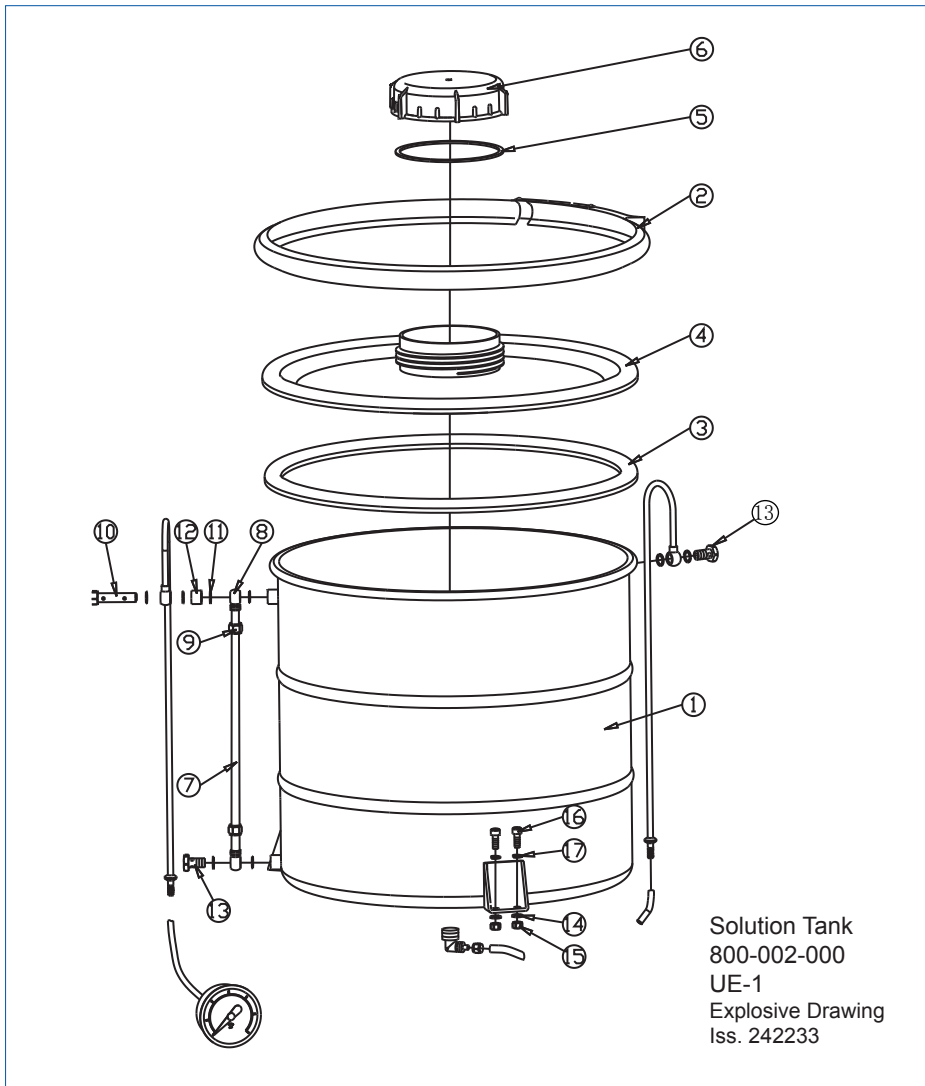
Chassis
800-001-000
UE-1
Explosive Drawing
Iss. 242233



Pos. no.	Part no.	Descriptions
	800-001-000	Chassis
1	800-001-010	Frame
2	800-001-020	Top Plate
3	800-001-030	Front Plate
4	800-001-040	Bolt
5	800-001-050	Spacer Ring
6	800-001-060	Wheel
7	800-001-070	Disc 1mm
8	800-001-080	Adjusting Ring
9	802-001-090	Steering Roller
10		Screw M8
11		Spring Washer
12		Washer
13		Screw
14	800-001-140	Rod
15	800-001-150	Control Box Support
16		Set Screw M5x5
17	510-001-014	Plug
18		Fillister Head Screw M4x12
19		Washer Ø8xØ4.5 t1
20		Allan Head Screw M6x15
21		Washer Ø6.4
22		Nut M6

Explosive Drawing and Spare Part List

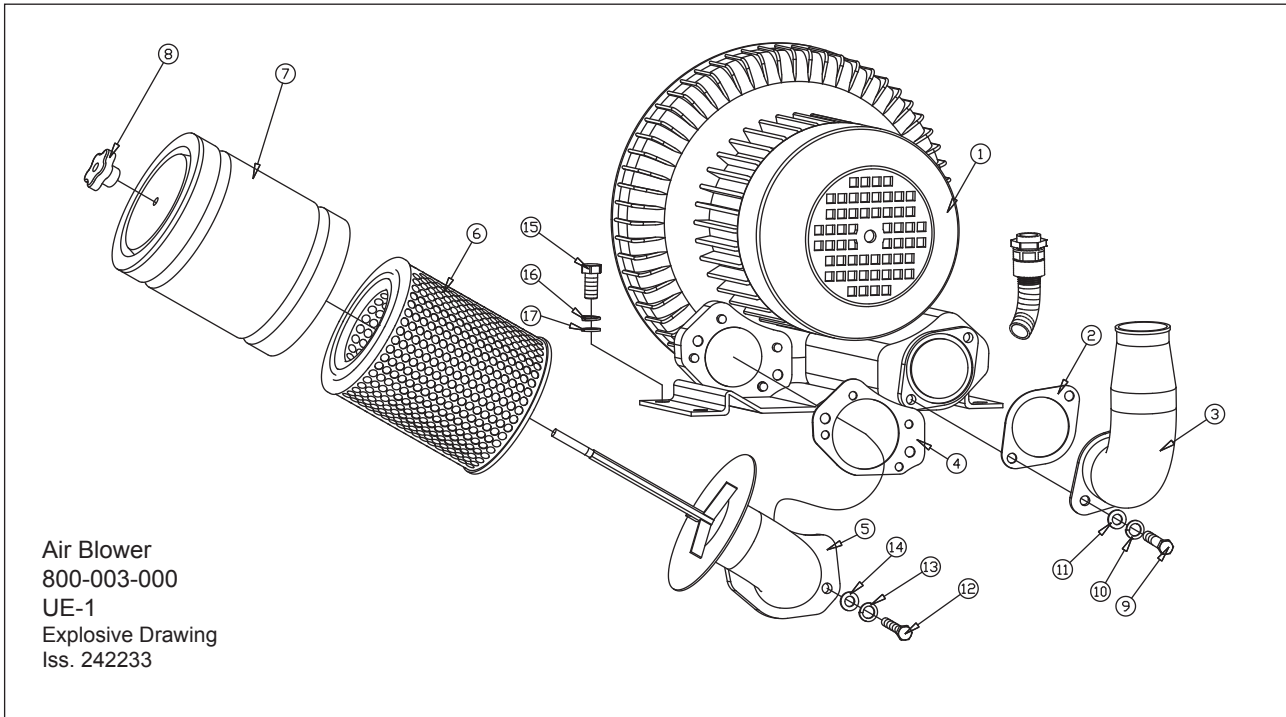
Solution Tank



Pos. no.	Part no.	Descriptions
	800-002-000	Solution Tank
1	800-002-010	Tank 40L
2	800-002-020	Cloure Ring
3	800-002-030	Conver Seal
4	800-002-040	Tank Cover
5	800-002-050	Cap Seal
6	800-002-060	Tank Cap
7	800-002-070	Indicator Tube Ø8x1
8	800-002-080	Ring Tube Nipple Ø8
9		Retraining Nut Ø8XM11x1
10	800-002-100	Hollow Screw Long
11	935-118-000	Gasket
		Allan Head Screw M6x15
		Spring Washer Ø6.5
12	800-002-012	Spacer
13	935-137-000	Hollow Screw
14		Washer Ø6.4
15		Nut M6 t5

Explosive Drawing and Spare Part List

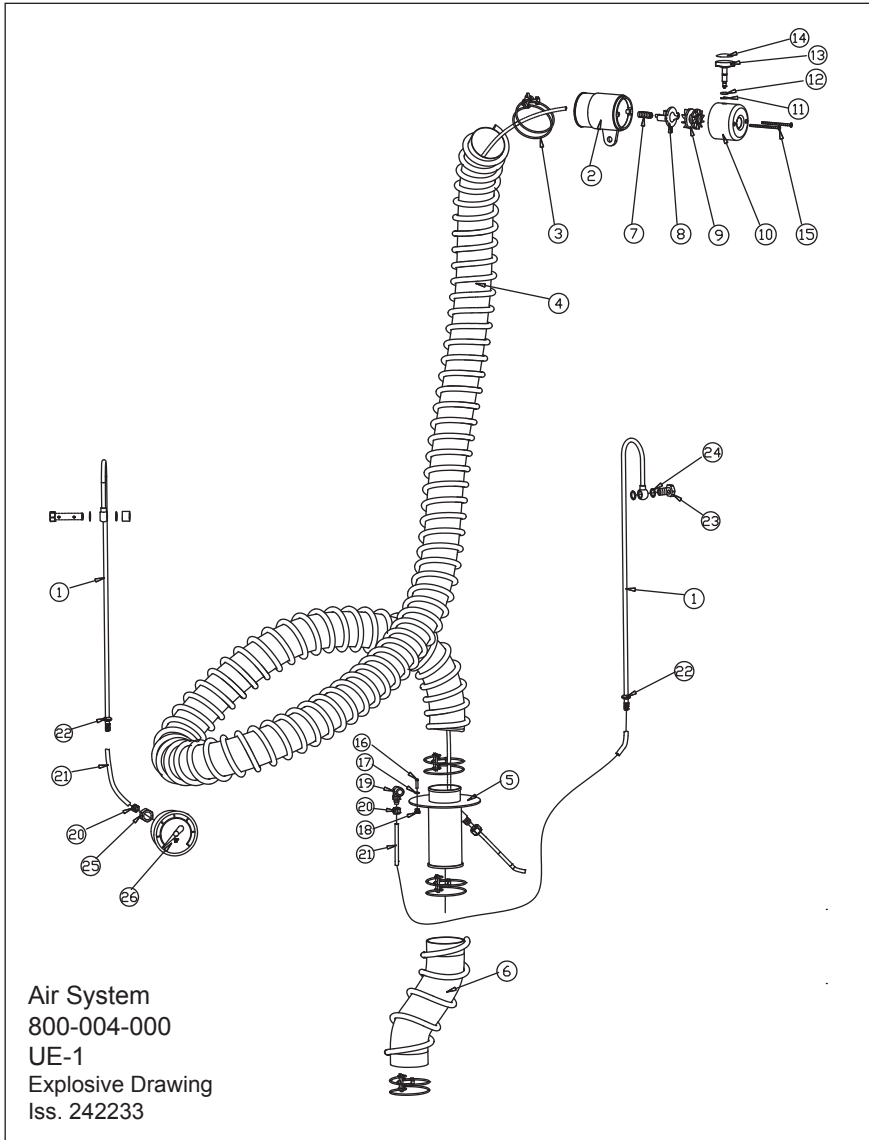
Air Blower



Pos. no.	Part no.	Descriptions
	800-003-000	Air Blower
1	800-003-010	Motor Blower
2	800-003-020	Outle Gasket
3	800-003-030	Air Outle Pipe
4	800-003-040	Inle Gasket
5	800-003-050	Air Inle Piece
6	800-003-060	Filter Cartridge
7	800-003-070	Hood
8	800-001-130	Knob Nut M8
9		Hexagon Screw M6x20
10		Spring Washer Ø12xØ4.5 t1
11		Washer Ø6.4xØ4.5 t1
12		Hexagon Screw M8x20
13		Spring Washer Ø12xØ4.5 t1
14		Washer Ø8 t1
15		Hexagon Screw M12x25
16		Spring Washer Ø13
17		Washer Ø13

Explosive Drawing and Spare Part List

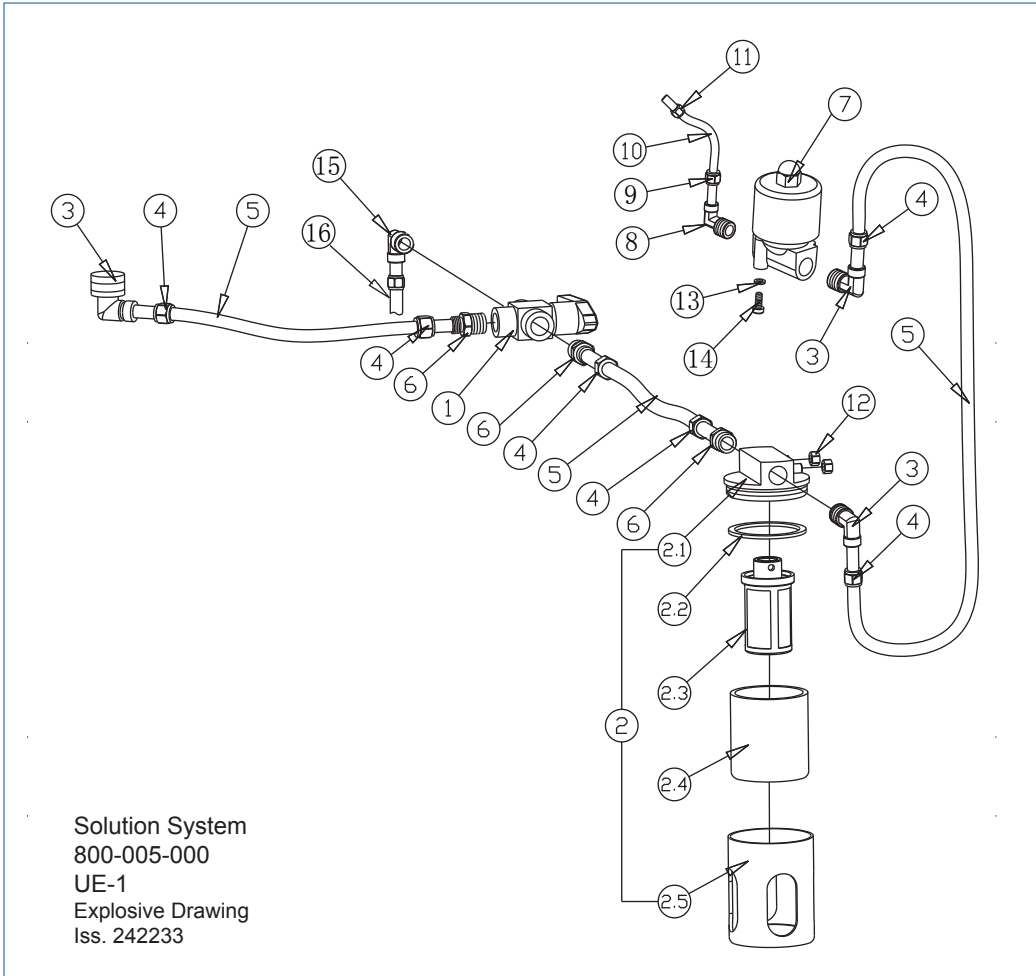
Air System



Pos. no.	Part no.	Descriptions	Pos. no.	Part no.	Descriptions
	800-004-000	Air System			
1	800-004-010	Pressure pipe	14	240-042-000	Label (+ -)
2	800-004-020	Nozzle Holder	15	240-043-000	Countersunk Sdrew M3x50
3	800-004-030	Clamp	16	935-036-000	Fillster Head Screw M4x12
4	800-004-040	Air Hose	17	900-019-000	Washer Ø6xØ4.5 t1
5	800-004-050	Distributor Piece	18	935-131-000	Hexagon Nut M4
6	800-004-060	Air Hose	19		Angle Screw Fitting Ø8x1XR1/4"
7	240-044-000	Protective Spring	20		Retraining Nut Ø8XM11x1
8	240-038-000	Nozzle	21		Air Tube Ø8x1
9	240-037-000	Diffusor	22	935-080-000	Grommet
10	240-036-000	Nozzle Screen	23	935-137-000	Hollow Screw M10x1
11	240-040-000	E-Ring	24	935-118-000	Washer Ø10xØ13.5 Cu
12	240-041-000	O-Ring	25		Fitting Female G1/4"-19/Male M11x1
13	240-039-000	Flow Regulator Needle	26	800-004-070	Manometer

Explosive Drawing and Spare Part List

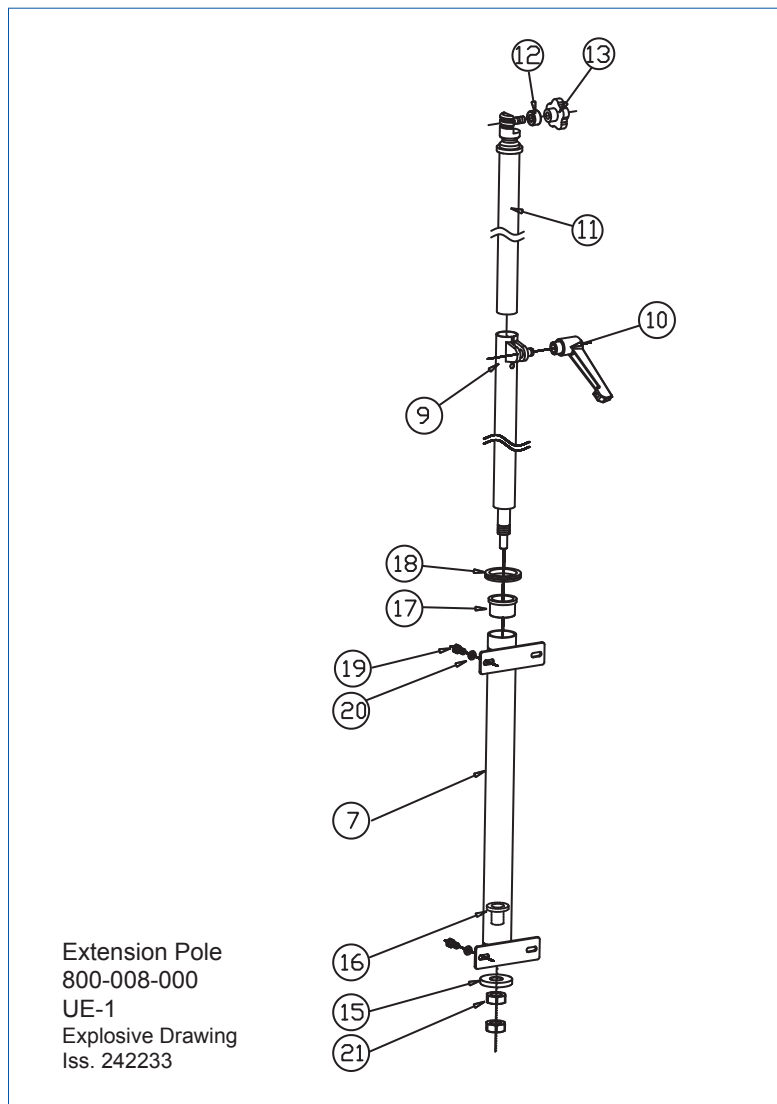
Solution System



Pos. no.	Part no.	Descriptions
	800-005-000	Solution System
1	800-005-010	Solution Valve
2	800-005-020	Filter Cpl.
2.1	800-005-021	Filter Housing
2.2	800-005-022	Gasket
2.3	800-005-023	Filter
2.4	800-005-024	Glass Cup
2.5	800-005-025	Cup Holder
3		Angle Screw Fitting Ø8x1xG1/4"
4		Retraining Nut Ø8xM11x1
5		Solution Tube Ø8x1
6		Straight Screw Fitting Ø8xG1/4"
7	800-005-070	Solenoid Valve
8		Angle Screw Fitting Ø8xG1/4"
9		Retraining Nut Ø6xM8x.75
10		Solution Tube Ø6x1
11		Retraining Nut Ø6xM10x1
12		Nut M5
13		Washer
14		Screw
15		Angle screw fitting Ø12xG1/4"
16		Hose Ø12

Explosive Drawing and Spare Part List

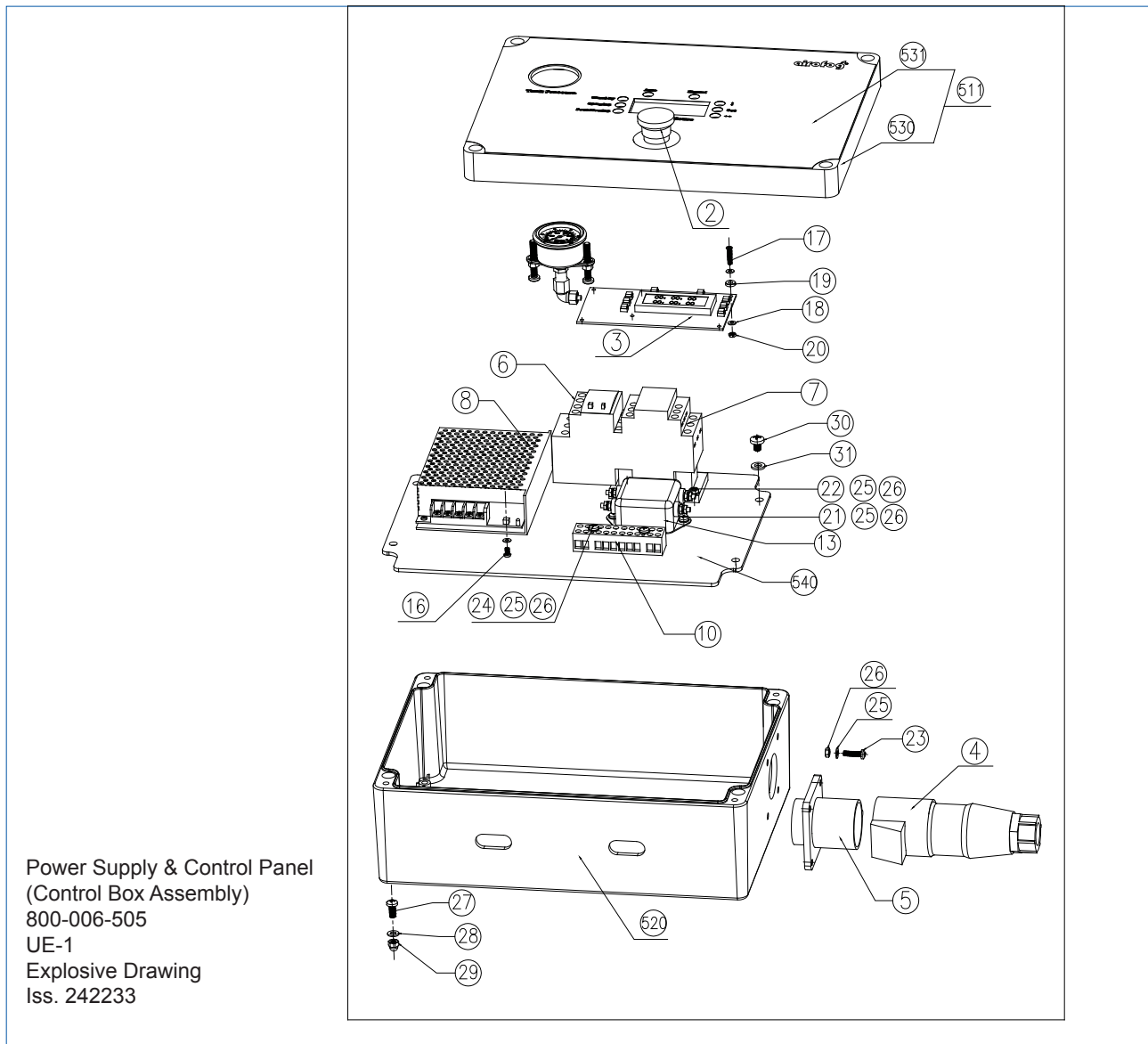
Extension Pole



Pos. no.	Part no.	Descriptions
	800-008-000	Extension Pole
7	800-008-070	Support Base
9	800-008-090	Extension Shift
10	800-008-100	Locking Level
11	800-008-110	Telescopic Pole
12	800-001-120	Spacer
13	800-001-130	Star Handle
15	800-008-150	Ring
16	800-008-160	Bush
17	800-008-170	Bush
18	603-003-000	Seal
19	800-008-190	Screw
20	800-008-200	Washer
21	800-008-210	Nut M16x1.5

Explosive Drawing and Spare Part List

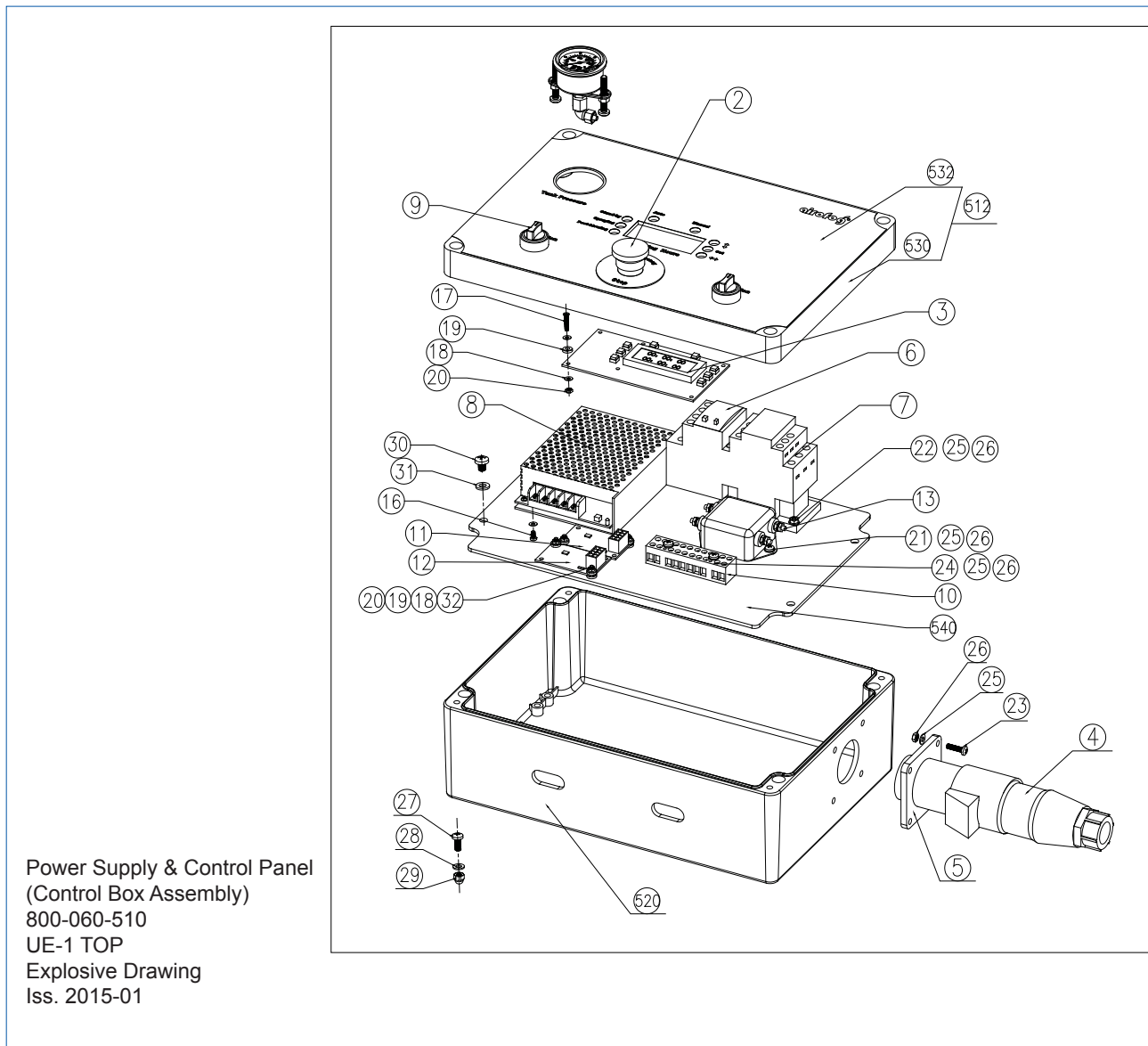
Power Supply and Control Panel



Pos. no.	Part no.	Descriptions
	800-006-000	Main Supply
1	800-006-010	Main Switch Box with Front Cover
2	800-006-020	Emergency Stop Button
3	800-006-030	Power Indicating Light
4	800-006-040	Plug Typ 2623 16A-5P (not show)
5	800-006-050	Socket Typ 535 16A-5P
6	800-006-060	Thermal Overload Relay LRD21C
7	800-006-070	Contactor LC1D18M7C 7.5kW 380V
8	800-006-080	Transformer
9	800-006-090	Relay FUJI JQX-13F-2Z
10	800-006-100	Connecting Element

Explosive Drawing and Spare Part List

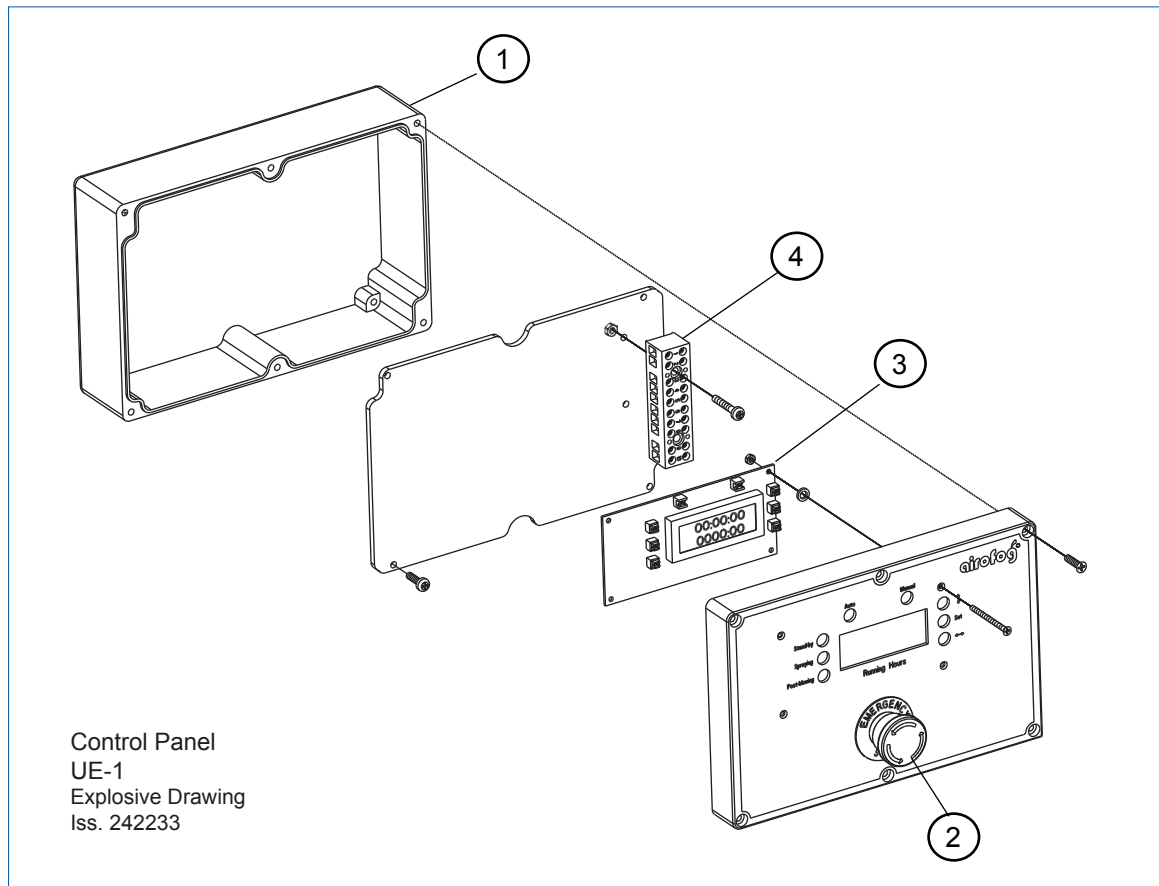
Power Supply and Control Panel



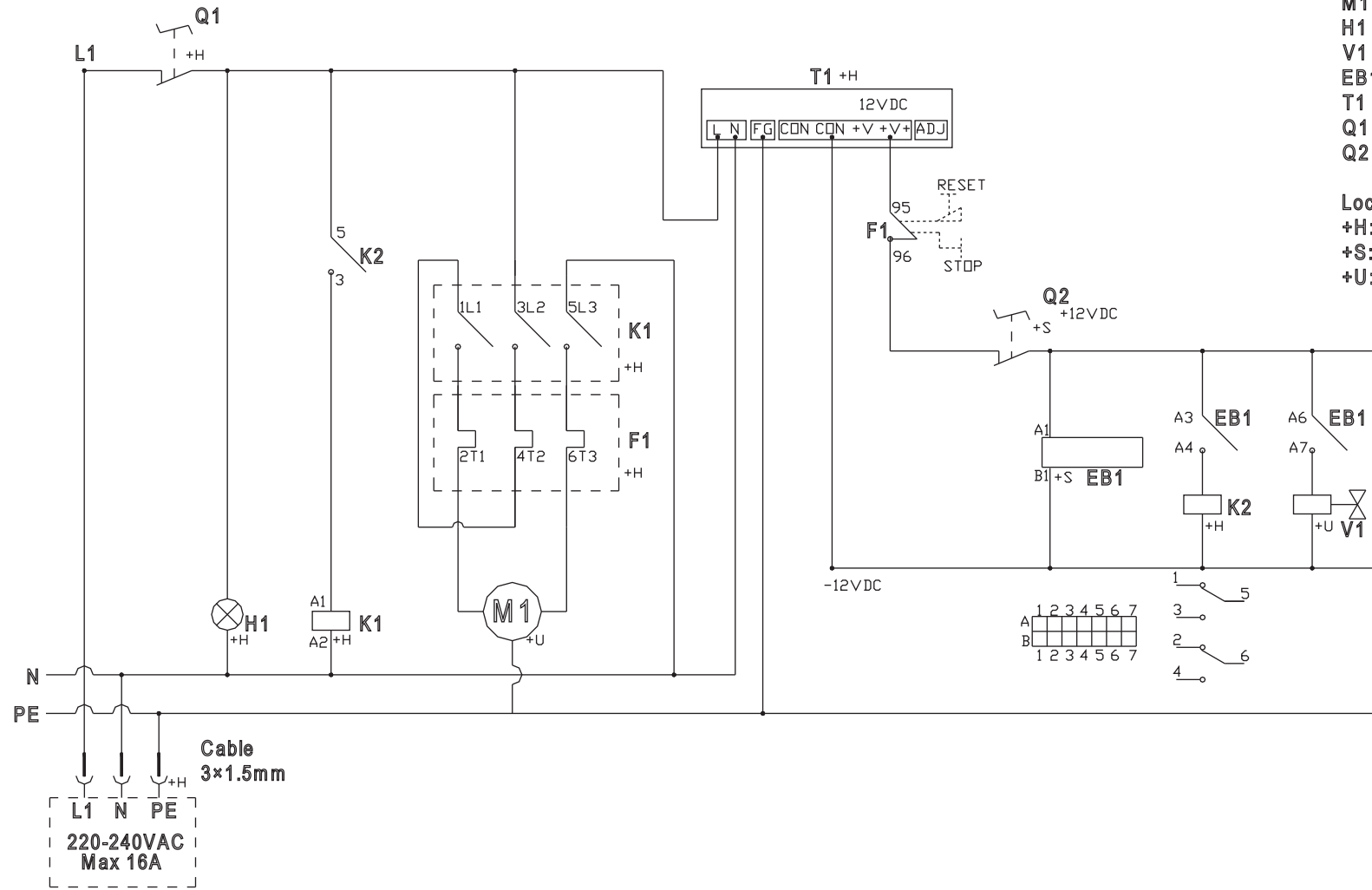
Pos. no.	Part no.	Descriptions
	800-006-000	Main Supply
1	800-006-010	Main Switch Box with Front Cover
2	800-006-020	Emergency Stop Button
3	800-006-030	Power Indicating Light
4	800-006-040	Plug Typ 2623 16A-5P (not show)
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7	800-006-070	Contactor LC1D18M7C 7.5kW 380V
8	800-006-080	Transformer
9	800-006-090	Relay FUJI JQX-13F-2Z
10	800-006-100	Connecting Element

Explosive Drawing and Spare Part List

Control Panel



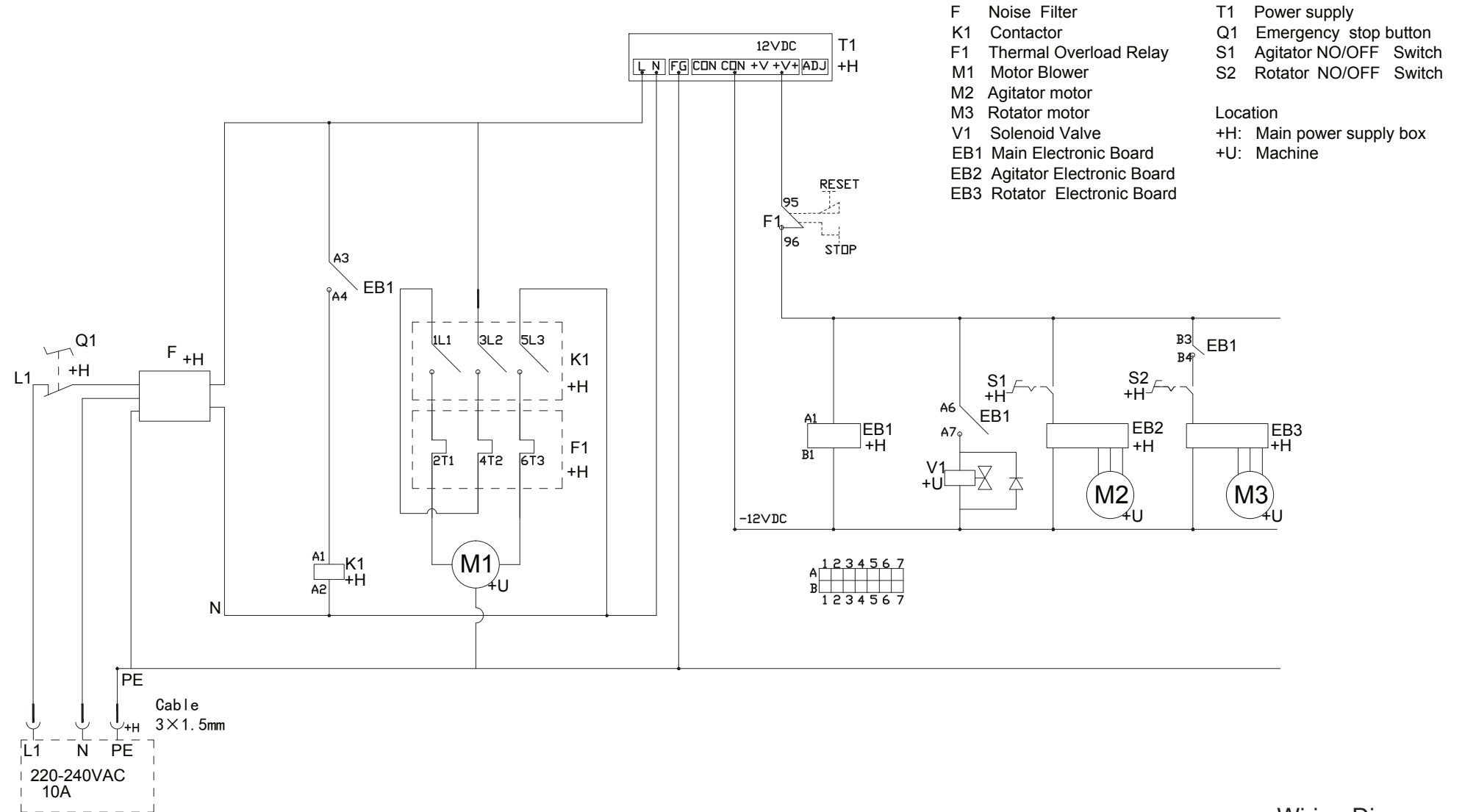
Pos. no.	Part no.	Descriptions
	800-007-000	Control Panel
1	800-007-010	Control Box with Front Cover
2	800-006-020	Emergency Stop Button
3	800-007-030	Main Electronic Board
4	800-006-100	Connecting Element



- K1 Contactor
- F1 Thermal Overload Relay
- K2 Relay
- M1 Motor Blower
- H1 Main Power Indicating light
- V1 Solenoid Valve
- EB1 Main Electronic Board
- T1 Transformer
- Q1 Emergency stop button
- Q2 Emergency stop button

- Location
- +H: Mian power supply box
 - +S: Control box
 - +U: Machine

Wiring Diagram
UE-1



Wiring Diagram
UE-1 TOP