

OPERATING INSTRUCTIONS MG75

勝特力材料 886-3-5753170
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勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

OPERATING INSTRUCTIONS

Version 6

Technical data MG75

Height (mm)	640
Width	465
Depth	220
Weight (kg)	18
Noise level dB(A)	38 - 49
Voltage	200 - 240V 50/60Hz
Effekt (watt)	50
Maximum suction capacity (m/h)	75 m ³ /h
Micro filter - Separation degree, DOP	>99,97%
Gas filter	Yes
Filter monitoring system	Yes
Warranty (except for filters), year	1
ESD approval, SP Dnr:	230-99-0375
EC-guidelines	73/23, 89/336, 89/392, 91/368, 92/31, 93/44, 93/68

Order No

	<u>Order No</u>
Filter unit MG75	750-1000-ESD

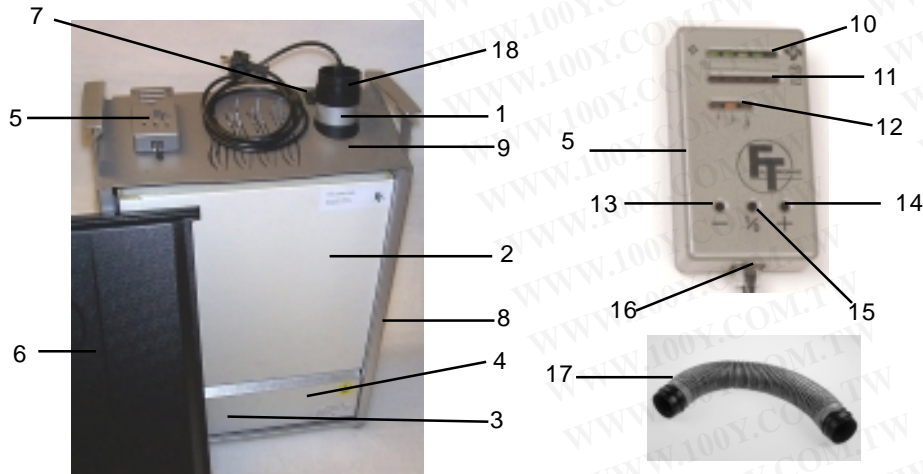
Replacement filters and accessories for MG75

<u>Article</u>	<u>Order No</u>
Micro/Gas filter	750-2000-ESD
Micro/Gas filter "Clean Room"	750-2002-ESD
Micro/Gas filter for solvents like MEK	750-2003-ESD
Quick-connection hose Ø 65 mm, length=1000 mm	700-3040-ESD
Mobile unit for MG75 with console for extraction arm	750-3201-ESD



MG75
Filter unit
for extraction of fumes and gas

OPERATING INSTRUCTIONS MG75



- | | | | |
|---|--|----|---------------------------------|
| 1 | Hose connection | 10 | LED indicator for capacity |
| 2 | Main filter | 11 | LED indicator for filter status |
| 3 | Fan | 12 | LED indicator for process load |
| 4 | Power electronics | 13 | Push button decrease |
| 5 | Remote control box | 14 | Push button increase |
| 6 | Front | 15 | Push button start / stop (1/0) |
| 7 | Power intake with fuse and circuit breaker | 16 | Connection for operating cable |
| 8 | Unit frame | 17 | Quick-connection hose, 1 m |
| 9 | Top plate | 18 | Quick-connection part |

Function

MG75 is a filter unit for cleaning of both particles and gas. The unit is used for filtration of process air from soldering, glueing, cleaning, printing processes etcetera.

MG75 is designed to be connected to a suction arm but can also be connected to other types of nozzles like a smaller suction cabinette. The suction capacity is adjusted stepless.

Installation

MG75 is delivered with 1 m suction hose with quick-connection, quick-connection part, 2 m main cable and a remote control box with an operating cable of 2,5 m. The remote control box, when delivered, is fixed with a magnet on the top plate of the unit.

OPERATING INSTRUCTIONS MG75

The operating cable under the top plate can be pulled out to a suitable length for placing the remote control box easily accessible for the operator.

MG75 is in the unit frame equipped with a C-profile on the back side for easy hanging of the unit on for example a work bench. (Separate hanging devices can be ordered.)

NOTE! The unit must not be exposed to temperatures exceeding 50° Celsius, open flames or condensated solvents.

Putting into service

Connect the unit to a 1-phase wall socket and switch on the circuit breaker. (Note, the unit may dust some from the main filter from transportation so make sure the starting of the unit is made in an appropriate room.) Check the functions on the remote control box; start and stop with the push button in the middle, increase and decrease the capacity of the fan with the + respectively the - push button.

When delivered the filter monitoring is programmed for mean load of the filter, this is equivalent to assembly work on circuit boards. If you want to change the program of the filter monitoring, stop the unit with the circuit breaker and press the 1/0 push button when switching on the unit. In this stage only the indication for filter load is lit. Release the 1/0 push button. Now you can change the filter monitoring program with + and - respectively. You can reset the unit by switching off the circuit breaker, wait 5 sec. and then switch on the circuit breaker.

Maintenance

The units main filter must be changed when the last light emitting diode of the filter monitoring is lit or when all light emitting diodes flashes. However, the main filter must be changed at least once a year. If all the light emitting diodes of the filter monitoring flashes, this warns of too high fall of pressure in unit and connected objects. This can be settled by switching off the circuit breaker, wait 5 sec. and then switch on the circuit breaker. This can be caused by clogged hoses, nozzles etc and not always a clogged filter. Check hoses and nozzles, clean if necessary and settle the alarm. If the alarm remains, change main filter.

When changing the main filter, pull the front of the unit straight up, removing it from the unit. To release the filter, pull the hose connection straight up approximately 20 mm. The filter now rests on the fan and can be removed from the unit by lifting with one hand under the filter at the same time as you tilt the filter. A new filter is re-assembled in reversed order. Make sure the new filter is turned the right way up.

NOTE! The new filter has to be marked with the date of change.

When a new main filter is mounted, the filter monitoring needs to be set to zero. This is done by switching off the circuit breaker, pressing the + and the - push buttons at the same time as the circuit breaker is switched back on (all the light emitting diodes should now go out on the filter indicator). Release the + and - buttons, wait 5 sec, switch off the main circuit-breaker, wait 5 sec, switch on the circuit breaker and set desired capacity.

OPERATING INSTRUCTIONS MOBILE UNIT MG75

Technical data mobile unit

Width (mm):	450
Depth (mm):	450
Height (mm):	750 (with filter unit mounted on the mobile unit)

Order No

Mobile unit MG75	Order No 750-3201-ESD
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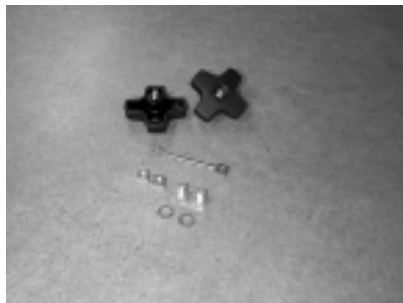
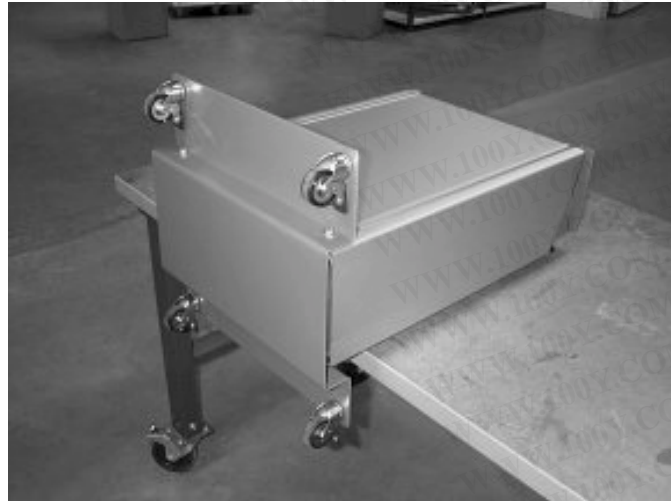
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OPERATING INSTRUCTIONS

Version 4



OPERATING INSTRUCTIONS MOBILE UNIT MG75



(attached)



OPERATING INSTRUCTIONS MOBILE UNIT MG75

Assembly

1. Put the unit on a bench. Fix the mobile unit with the attached nuts and screws.
2. Mount two square nuts M8 in the C-profile on the backside of the unit. Make sure that the nuts are fixed in the same position as the holes of the wheel rack.
3. Mount the wheel rack with two M8x12 screws and two plain washer M8.
4. Put the double square nut in the upper edge of the C-profile and fix the arm rack with the two plastic knobs.
5. Take out the extraction arm and drill, with a $\varnothing 4$ mm drill steel, out the pop rivets which holds the plastic swivel at the lower end of the extraction arm.
6. Dismount the plate of the table console from the suction arm.
7. Put the rubber hose on the inlet pipe of the unit.
8. Mount the suction arm on the arm rack with the three M4x20 screws and three M4 nuts (the same screws and nuts that were dismantled from the table console, see point 6).



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OPERATING INSTRUCTIONS MG100S

OPERATING INSTRUCTIONS

Version 1

Technical data MG100S

Height	610 mm
Width	460 mm
Depth	210 mm
Weight	17,5 kg
Noise level	52 dB(A)
Voltage	100-240V 50/60Hz
Effect	100 Watt
Fuse	2 x 6.3 AT
Maximum suction capacity	100 m ³ /h
Micro filter - Separation degree, DOP	>99,97%
Gas filter	Yes
Warranty (except for filters)	1 year
ESD approval, SP Dnr:	230-01-0030
Filter alarm, particle filter / operating time	Yes / Yes

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Order No

Filter unit MG100S	Order No 100-1000-ESD
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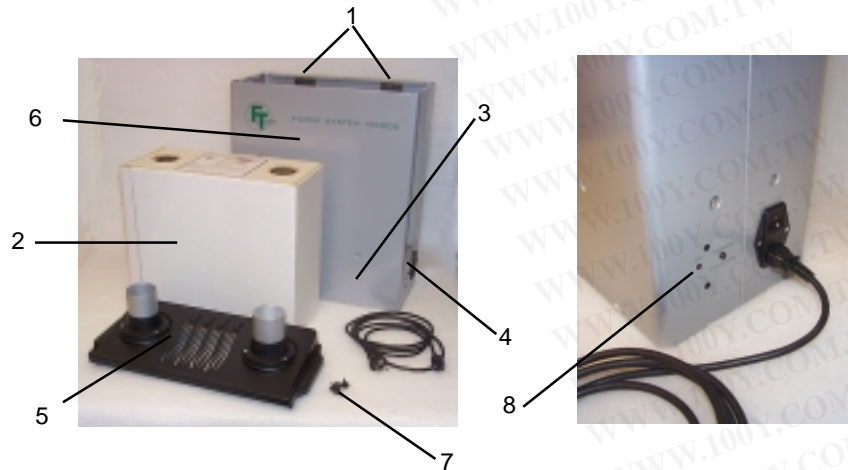
Replacement filters and accessories for MG100S

Article	Order No
Micro/Gas filter	100-2000-ESD
Micro/Gas filter, MEK	100-2003-ESD
Hanging device	780-3001-ESD



MG100S
Filter unit
for extraction of fumes and gas

OPERATING INSTRUCTIONS MG100S



- 1 Connection for hoses
- 2 Main filter
- 3 Fan
- 4 Power intake with main circuit-breaker
- 5 Top
- 6 Housing
- 7 Knobs to lock the top
- 8 Control panel

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Function

MG100S is a filter unit for cleaning of both particles and gases. The unit is to be used at filtration of process air from soldering, glueing, cleaning, printing processes etcetera.

MG100S is designed to be connected to two suction arms, Ø 60 mm, but can also be connected to other types of nozzles, for example a smaller suction cabinet. MG100S complies with the ESD demands.

MG100S is equipped with filter surveillance.

OPERATING INSTRUCTIONS MG100S

Installation

MG100S is delivered with 2 m main cable.

On the rating plate, which is placed at the bottom of the unit, you find information about type and size of the fuses.

The MG100S can easily be hung up on for example a work bench, by completing the unit with a hanging device, Art.No. 780-3001-ESD. (Can be ordered separately.)

NOTE! The unit must not be exposed to temperatures exceeding 50° Celsius, open flames or condensated solvents.

Putting into service

Connect the unit to a 1-phase wall socket and switch on the main circuit breaker. (NOTE! there could come out some dust from the main filter after transportation, so make sure that the starting of the unit is made in an appropriate room.)

Control panel

MG100S is equipped with a micro processor-based function- and filter surveillance system. An alarm can be indicated with a red light-emitting diode together with a buzzer. There are two alarm functions:

Red light-emitting diode twinkles: When the recommended uptime of the filter is exceeded. Measure: Clean suction nozzle and tubes and change the main filter.

Red light-emitting diode is shining: When suction capacity is low. Measure: Check suction nozzles and tubes, clean if necessary. If the alarm comes back when starting, change the main filter.

Reset

Receipt of alarm is made with the button of the control panel. When changing the main filter, the filter uptime is set to zero by keeping the button pressed and turning the switch on at the same time.

Maintenance and replacement of filter

The main filter should be changed by alarm, minimum once a year. Check hoses and nozzles, clean if necessary. If the suction is deficient after cleaning, change the main filter.

When changing the main filter, turn off the unit with the switch and loosen the top with the 4 knobs on the short sides of the unit. Lift the top straight up and put it aside (if necessary loosen the hoses). Pull the main filter straight up. A new filter is re-assembled in the reverse order, with the text on the filter upwards. Make sure that the inlet to the fan fits to the connection in the bottom of the filter and that the new filter has the right side up.

NOTE! The new filter has to be marked with the date of change.

When a new main filter is mounted, mark the filter with the date of the filter exchange.

OPERATING INSTRUCTIONS MG350S

Technical data MG350S

Height, mm	1000	Effect, W	300
Diameter, mm	430	Main voltage	1 -phase 230 V
Weight, kg	45	Max connected suction arms	6
Noise level, db(A) 1 m: (250 m ³ /h, 600 Pa)	54	Filter monitoring system	Yes

Micro filter - tested separation degree >99.97% DOP

Gas filter - Purafil CP-media, separation degree >99%

ESD approval, SP Dnr: 230-99-0375

EC-guidelines: 73/23, 89/336, 89/392, 91/368,
92/31, 93/44, 93/68

Order No

	<u>Order No</u>
Filter unit MG350S	800-1000-ESD

Replacement filters and accessories

<u>Article</u>	<u>Order No</u>
Micro filter	800-2000
Gas filter	800-2001
Gas filter for solvents type MEK	800-2003
Pipe set	800-5000



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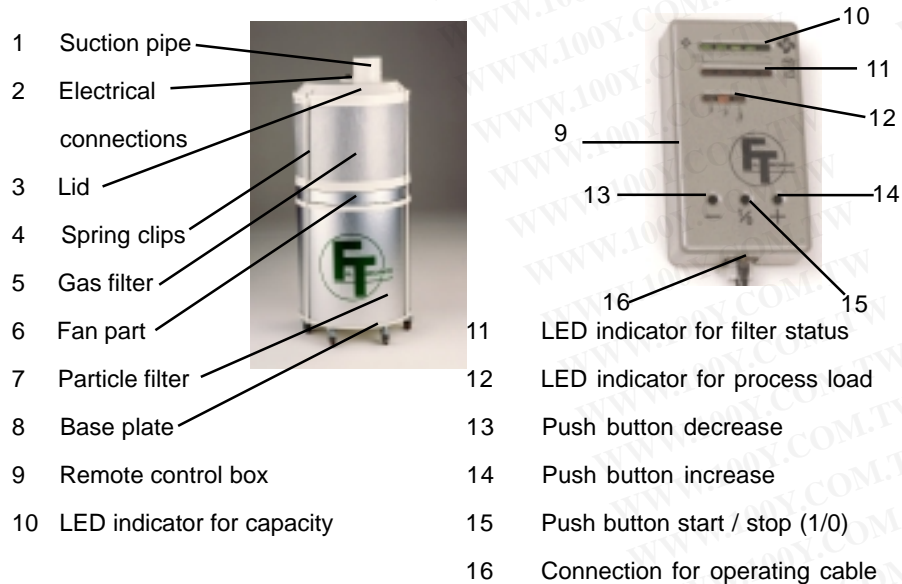
OPERATING INSTRUCTIONS

Version 4



MG350S
Filter unit
for suction of fumes and gas

OPERATING INSTRUCTIONS MG350S



Function

The low vacuum unit MG350S is a filter unit for cleaning process air from particles and gases. The particle filter is a multi-step filter where the last step is of HEPA-class. The gas filter of the unit is a chemical "broad spectra"-filter with capacity for chemically binding high quantities of for instance hydrocarbon compound. The gas filter works with a contact time of >0,3 seconds at an air flow of 250 m³/h through the gas filter.

Installation

The low vacuum unit MG350S is to be connected to the cleaning object for example suction cabinettes and processes with one collecting point with a ventilating hose D=100 mm.

NOTE! Max. length of hose is 2 m. For applications with more than one collecting point or hose lenghts over 2 m we recommend a down pipe model ventilating duct D=160 mm. Use ventilating hose D=100 mm between the down pipe and the unit, min. 1 m and max. 2 m. Connect suction arms model MG604 to the down pipe with 63 mm or a suction cabinette with 100 mm ventilating hose.

NOTE! The down pipe must be equipped with cleaning door for cleaning.

Putting into service

Connect the unit to a 1-phase wall socket and switch on the main circuit-breaker. (Note, the unit may dust some from the main filter from transportation so make sure the starting of the unit is made in an appropriate room.) Check the functions on the remote control box; start and stop with the push button in the middle, increase and decrease the capacity of the fan with the + respectively the - push button.

OPERATING INSTRUCTIONS MG350S

When delivered the filter monitoring is programmed for mean load of the filter, this is equivalent to assembly work on control cards. If you want to change the program of the filter monitoring, stop the unit with the main circuit-breaker and press the 1/0 push button when switching on the unit. In this stage only the indication for filter load is lit. Release the 1/0 push button. Now you can change the filter monitoring program with + and - respectively.

To save the new setting, switch off the main circuit-breaker, wait 10 sec and then switch it on again.

Maintenance

The units gas filter must be changed when the last light emitting diode of the filter monitoring is lit or when all lighth emitting diodes flashes. However, the gas filter must be changed at least once a year. If all the light emitting diodes of the filter monitoring flashes, this warns of too high fall of pressure in unit and connected objects. This can be settled by switching off the main circuit-breaker, wait 10 sec and then switch on the main circuit-breaker. This can be caused by clogged hoses, nozzles etc and not always a clogged filter. Check hoses and nozzles, clean if necessary and settle the alarm. If the alarm remains, change particle filter.

Filter change

The low vacuum unit MG350S has two different filters, particle filter and gas filter. The particle filter is superintended by a pressure switch which gives an alarm when the filter is clogged and is to be exchanged. The gas filter should be exchanged when the filter media is consumed up to 90 % and this is depending on the operating time and the pollution degree of the process air, according to the supplier's recommendation.

NOTE! While servicing the unit always pull the plug out of the wall socket.

STEP 1: Disconnect the connection cables at the top of the unit and release the lid by removing the three assembling springs. Lift the lid straight up and put it aside. Lift the gas filter, which weighs appr. 20 kg, straight up and put the filter aside.

NOTE! When you exchange the gas filter always remember to mark the start date.

STEP 2: When the gas filter is removed the fan part with suction pipe and silencer is exposed. Lift the fan part straight up by using the pipe with the electrical connections in order to get to the particle filter that is standing on the base plate of the unit. Exchange the particle filter and reassembl the parts of the unit in reverse order.

When exchanging only the gas filter just carry out step 1.

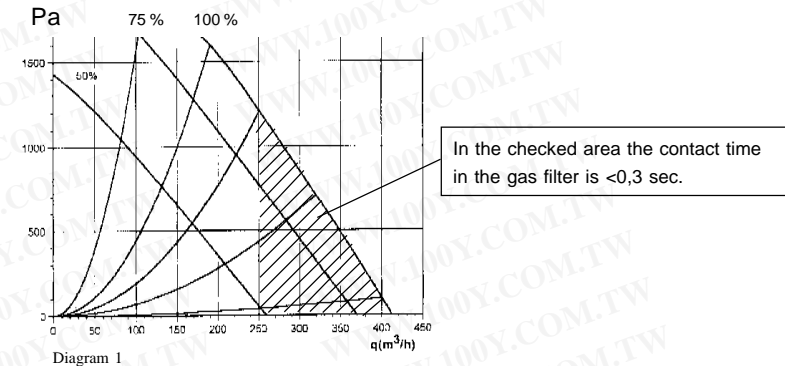
When a new main filter is mounted, the filter monitoring needs to be set to zero. This is done by switching off the circuit breaker, pressing the + and the - push buttons at the same time as the circuit breaker is switched back on (all the light emitting diodes should now go out on the filter indicator). Release the + and - buttons, wait 5 sec, switch off the main circuit-breaker, wait 5 sec, switch on the circuit breaker and set desired capacity.

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Adjustment suction arms MG604

By adjusting the capacity we recommend 500 Pa negative pressure in the down pipe. This will give a air flow of between 40-50 m³/h per suctionarm (more functions on the suction arm gives a lower air flow). In diagram 1 you get requisite effect in % when the particle filter is clean.

For example: 4 suction arms à 50 m³/h. Read the diagram at 4x50=200 m³/h and get the rotation speed at 500 Pa, appr. 60%. Set this value on the control panel.



Adjustment suction cabinette and hoods

By adjusting suction cabinettes measure the air speed through the opening with a air speed meter (order No. 700-3028). Adjust the capacity on the control panel so that the air speed is min 0.5 m/s. Max. open area on the openings 0.14 m².

By adjusting hoods measure the air quantity from the hood in the channel sorting system between the hood and the unit, and adjust requisite air quantity on the control panel. Clogging of the particle filter will reduce the air flow. This can be compensated by increasing the effect on the control panel. To control the air flow, measure the statical pressure in the channel sorting system after adjustment. The effect is compensated for this value.