INSTRUCTION MANUAL
FOR USE
AND MAINTENANCE

F-TECH POCKET

CE

INDEX

	Description
0	**Analytical index of the operating and maintenance manual**

INTRODUCTION

	Description
1	**Purpose of the operating and maintenance manual**

This instruction manual is an integral part of the machine and is intended to provide all the information necessary for:

- Raising the awareness of operators as regards safety matters;
- The safe handling of the machine when packaged and unpackaged;
- The correct installation of the machine;
- A thorough knowledge of the machine's operations and limits;
- The safe use of the machine;
- The correct maintenance procedure;
- Safely dismantling of the machine, in compliance with the regulations in force on the health and safety of workers and the environment.

A competent person should ensure this machine is installed according to the regulations in force, carefully read the content of this Operating Manual and ensure that operators and maintenance staff operating and working on the machine read the relevant parts.

This will ensure the correct and safe operation of the machine.

This document is based on the assumption that the area of operation in which the machine is going to be installed is in compliance with the health and safety at work regulations in force ad that the machine is correct for the application.

The instructions, drawings and documentation contained in this manual are of a technical confidential nature and they are property of the manufacturer; they may not be reproduced in any way, in part of fully.

Disclaimer

Whilst every effort has been made to ensure that the information contained within this manual is complete and accurate, no liability can be accepted for any errors or omissions. Please note products are subject to continual development and may be subject to change without notice.

INTRODUCTION

	Description
2	**Storage of the instruction manual**

The instruction manual must be kept safely in a clean, dry place with the machine.
Do not remove, tear out or modify any parts of the manual. Further copies of this manual can be requested from Wilkinson Star Limited.

INTRODUCTION

	Description
3	**Updating of the Instruction Manual**

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INTRODUCTION

	Description
4	**Glossary and pictograms**

This paragraph lists some terms which are not commonly used or with a meaning different from the common one. The meaning of the abbreviations and pictograms used is described below. The abbreviations and pictograms are used to indicate operator qualifications and state of the machine; they provide, in a quick and univocal manner, the information necessary for the correct and safe use of the machine.

GLOSSARY (Annex I point. 1.1.1 Dir. 2006/42/EC)

HAZARD
A potential source of injury or damage to health;

DANGER ZONE
Any zone within and/or around machinery in which a person is subject to a risk to his health or safety;

EXPOSED PERSON
Any person wholly or partially in a danger zone;

OPERATOR
The person or persons installing, operating, adjusting, maintaining, cleaning, repairing or moving machinery;

RISK
A combination of the probability and the degree of an injury or damage to health that can arise in a hazardous situation;

GUARD
A part of the machinery used specifically to provide protection by means of a physical barrier;

PROTECTIVE DEVICE
A device (other than a guard) which reduces the risk, either alone or in conjunction with a guard;

INTENDED USE
The use of machinery in accordance with the information provided in the instructions for use;

MISUSE
The use of the machinery in a way not intended in the instructions for use.

OTHER DEFINITIONS

MAN-MACHINERY INTERACTION
Any situation in which the operator interacts with machinery in any of the operating phases during the life cycle of the machinery.

OPERATOR QUALIFICATIONS
Minimum level of skill that an operator must have to carry out the described operation.

NUMBER OF OPERATORS
The suitable number of operators, able to carry out the operation described in an optimal way, as established by a careful manufacturer analysis, whereby a different number of operators might not make it possible to obtain the expected result or might endanger the safety of the personnel involved.

STATE OF THE MACHINE
The state of the machine includes operating modes, for example automatic running mode, the condition of the safety devices on the machines such as protection devices provided (or not provided), pressed emergency button, type of isolation from electrical power etc.

RESIDUAL RISK
Risks that persist despite the adoption of the protective measures included in the design of the machine and despite the additional protective devices and measures adopted.

SAFETY DEVICE
Device:
- That carries out a safety function;
- which, when faulty and/or broken, endangers the safety of people.

(e.g. lifting equipment; fixed, mobile, adjustable protective device, etc., electric, electronic, optical, pneumatic, hydraulic device interlocking a protection device, etc.).

SAFETY SIGNS

- **The pictograms inside a triangle indicate DANGER;**
- **The pictograms inside a circle mean PROHIBITION/OBLIGATION.**

Symbol	Description
	Dangerous electrical voltage
	Danger of crushing of upper limbs
	Danger of entanglement
	Danger of being dragged by machine parts
	General hazard
	Danger of entanglement in transmission belt
	Hot surfaces; danger of burning
	Danger of being dragged by impellers or rotating parts
	No access to unauthorised people
	Do not remove safety devices
	Do not manually clean, oil, grease, repair of adjust moving parts
	Do not carry out any work without disconnecting the power
	Protective gloves must be worn
	Safety footwear must be worn
	Safety helmets must be worn

GENERAL INFORMATION

	Description
1	**Manufacturer's identification data**

MANUFACTURER

Aerservice Equipments S.r.l.

REGISTERED OFFICE – ADMINISTRATIVE OFFICE

Via Marconi, 1 Z.I. – 35020 – Legnaro – (PD) – Italy

EXCLUSIVE WHOLSALE UK IMPORTER

Wilkinson Star Limited
Shield Drive
Wardley Industrial Estate
Worsley
Manchester M28 2WD

0161 793 8127

sales@wilkinsonstar.com

Wilkinsonstar247.com

AFTER SALES SERVICE

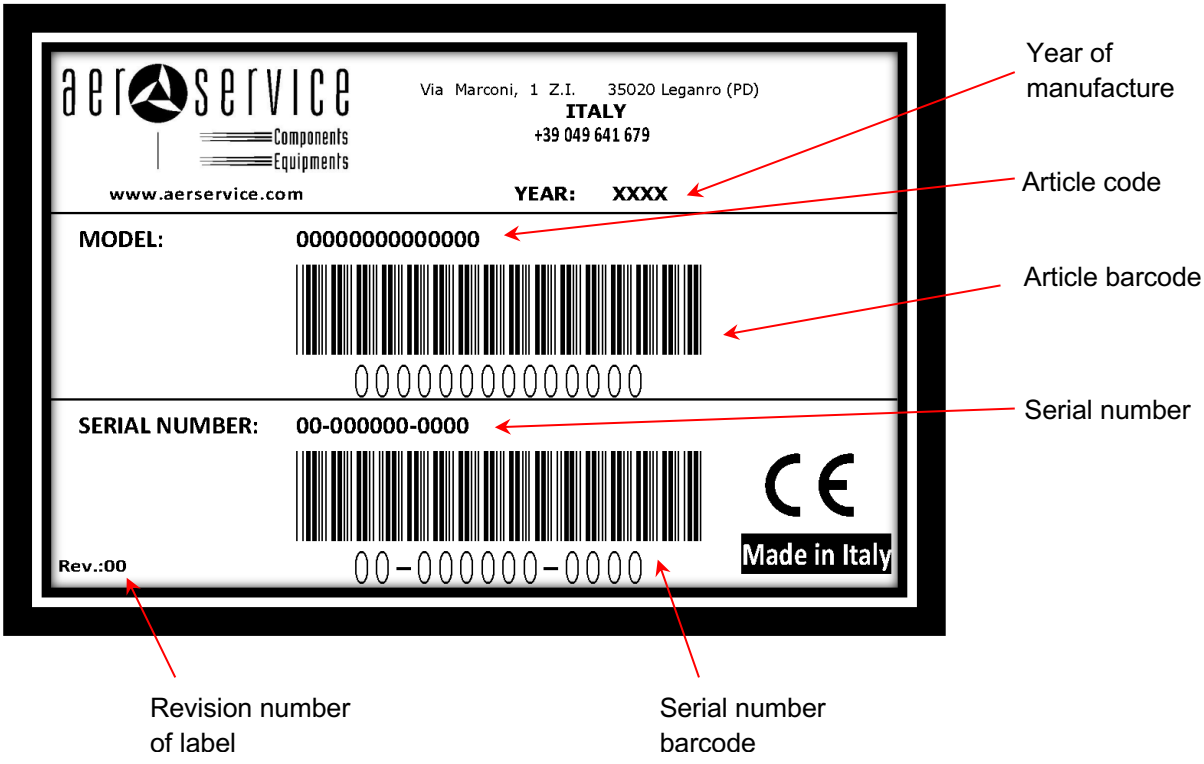
01670 590300
mosa.service@wilkinsonstar.com

GENERAL INFORMATION

Description

2 Machine identification and data plates

Each machine is fitted with a CE plate with indelible identification data. All communications with the manufacturer or technical assistance centres must refer to the said data.



The position of the plate on the machine may vary.

GENERAL INFORMATION

Description

3 Declarations

The machine is manufactured in conformity with relevant EC Directives, applicable when the machine is put on the market.

ANNEX IV Directive 2006/42/EC

The machine does not belong to the category of machines mentioned in Annex IV to directive 2006/42/EC

EC DECLARATION OF CONFORMITY

(Annex IIA DIR. 2006/42/CE)

THE MANUFACTURER

Aerservice Equipments S.r.l.
Company

Via Marconi, 1 Z.I. | 35020 | Padua
Address | Postcode | Province

Legnaro | Italy
City | Country

DECLARES THAT THE MACHINE

Portable air cleaner for the extraction of welding fumes | F-Tech Pocket
Description | Model

_ _ - _ _ _ _ _ _ - _ _ _ _ | _ _ _ _
Serial number | Year of manufacture

F-Tech Pocket
Commercial name

Extraction and treatment of welding fumes for oil-free and fat-free light-duty processes
Intended use

IS IN COMPLIANCE WITH THE FOLLOWING DIRECTIVES

Directive 2006/42/EC of the European Parliament and Council of 17 may 2006 on machinery and amending directive 95/16/EC.

Directive 2004/10/8/EC of the European Parliament and Council of 26 February 2014 on the approximation of the laws of the member States relating to electromagnetic compatibility.

Directive 2014/35/EU of the European Parliament and Council of 26 February 2014 on the approximation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

Reference to harmonised standards:

EN 349:2008, EN 614-1:2009, EN 614-2:2009, UNI EN ISO 14123-1:2015, UNI EN ISO 14123-2:2016, EN 842:2009, EN 894-1:1997+A1:2008, EN 894-2:1997+A1:2008, EN 894-3:2000+A1:2008, UNI EN ISO 14120:2015, UNI EN 1005-2:2009, UNI EN ISO 14118:2018, EN 1037:1995+A1:2008, EN 1093-1:2008, EN 1093-4:2008, UNI EN ISO 19353:2016, UNI EN ISO 13849-1:2016.

AND DECLARES THAT THE TECHNICAL FILE

Has been compiled by the manufacturer and is kept at:

Aerservice Equipments S.r.l. in Via Marconi,1 Z.I. – 35020 – Legnaro – PD – Italy

Place and date of document

Legnaro, _ _ / _ _ / _ _ _ _

D.C.: DC N-001/00001

The manufacturer

Legal representative

GENERAL INFORMATION

	Description
4	**Warranty activation**

YOUR NEW PRODUCT

Thank you for selecting this Fume Tech, Wilkinson Star product.

This product manual has been designed to ensure that you get the most from your new product. Please ensure that you are fully conversant with the information provided paying particular attention to the safety precautions. The information will help protect yourself and others against the potential hazards that you may come across.

Please ensure that you carry out daily and periodic maintenance checks to ensure years of reliable and trouble free operation.

Wilkinson Star Limited are a leading supplier of equipment in the UK and our products are supported by our extensive service network. Call your distributor in the unlikely event of a problem occurring. Please record below the details from your product as these will be required for warranty purposes and to ensure you get the correct information should you require assistance or spare parts.

Date Purchased

From Where

Serial Number

The serial number will normally be located on the equipment data plate on the top or underside of the machine.

PLEASE REGISTER YOUR PRODUCT ONLINE AT WWW.F-TECH-WARRANTY.COM

When all entry fields are complete the system will show a short message thanking you for a successful registration. Please print this for your records.

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This manual should not be copied or reproduced without the written permission of Wilkinson Star Limited.

USE AND GENERAL CHARACTERISTICS

	Description
1	

Use

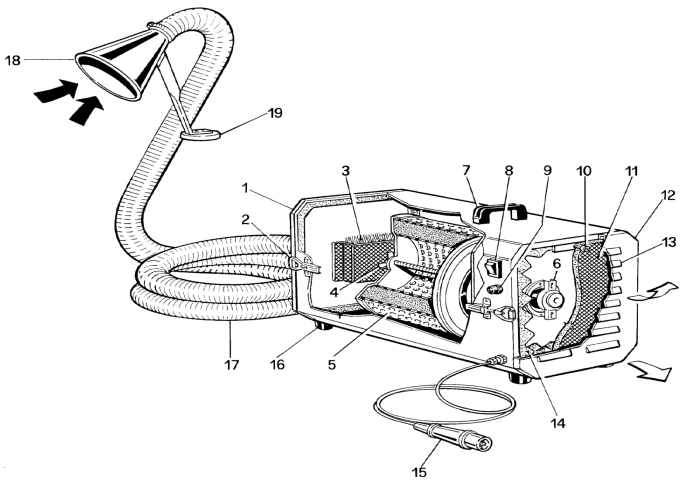
These units are suitable for businesses where the welding operation is intermittent but still has the presence of low concentrations of fumes, i.e. for those who, for reasons dictated by their activity, must perform welding in various areas where the need to transport the purifier is a primary requirement.

FEATURES

	Description
2	

The F-tech Pocket is made by:

- An outer painted steel structure, of suitable thickness, designed in such a way as to make the purifier resistant to accidental impacts due to the use and to the movement. The unit is also equipped with a convenient handle for ease of transport;
- A filter section comprising a pre filter in metal wool with spark proof function, by one or two paper filters pretreated depending on the version and an active carbon filter;
- An electric single-phase motor;
- A hose and suction nozzle with magnet and tube;
- An electric control panel and plug CEE norm.



1. Dust separator panel
2. Side locks
3. Non-sparking metal mesh
4. Wing nut
5. Filter
6. Vacuum cleaner with brush motor
7. Handle
8. 'On -off' switch
9. Protection fuse
10. Filter fixing screw
11. Activated carbons filter
12. Panell
13. Air outlet slits
14. Sound insulation
15. Electrical cable
16. Support feet
17. Flex hose L= mt 3
18. Aluminium hood with bracket
19. Support magnet

TECHNICAL FEATURES

	Description
3	

The portable F-Tech Pocket uses a mechanical filtration system to purify the air. The air is sucked in through the nozzle, positioned near the pollutant source and connected to the purifier by means of flexible tubing, through the filtration section in which occurs the separation of the particulates (dust present in welding). After this first stage of separation, the air passes through the fan first and then passes through a panel with activated carbon for deodorization.

- **F-Tech Pocket**, filter section comprising a high efficiency filter paper in ø = 195 mm L = 285 mm and an active carbon filter 210x210 mm. The suction is obtained by a single motor.

Characteristics	F-Tech Pocket
ON OFF switch	YES
Activated carbons filter 210 x 210 mm	YES
Paper filter Ø=195 L=285 mm	YES
Flexible hose Ø=50 mm L=3 m	YES
Conical extraction nozzle	YES
Magnet for the hood	YES
Extracting torch	-

GENERAL INFORMATION ON THE MACHINE

	Description
2	**Technical data**

Unit data		F-Tech Pocket 230V/110V
Suction arm	N°	1
Supply voltage	V	230/110
Mains frequency	Hz	50
Installed power	kW	1.1
Absorbed current	A	4.85/9.30
Maximum extractor fan flow rate	m^3/h	250
Extractor fan negative pressure	Pa	2200
IP Protection class		55
ISO insulation class		F
Machine air flow rate	m^3/h	110
Filtration efficiency According to EN 779	%	G2 25%
	%	H13 99%
Activated carbon	Kg	1
Sound pressure level	dB(A)	72
Weight of unit	Kg	20

INSTALLATION, COMMISSIONING AND START-UP

Installation

The unit should be installed by a qualified person and in accordance local area standards and regulations. Mains input requirements are detailed on the equipment data plate.

Once fitted to a suitable mains supply make the connection of the hose for the conveyance of the fumes.
It is advisable to protect the unit from moisture.

WARNINGS
Before installation, check there is a suitable mains supply.

Commissioning

It is recommended to include the use of the device subject to the following environmental conditions:

- The ambient operating temperature of the machine is between -10 ° C and 60 ° C
- The humidity of the indoor environment in which the work is carried out must be between 0% and 90%

Recommendations / Instructions:

- The elimination/removal of any waste materials should be carried out according to the regulations
- For cleaning or replacing the filters using the mask and protective gloves.

ATTENTION:

Both containers and metal structures connected to it should be properly grounded as required by safety regulations. Do not operate the machine without grounding.

Starting

After carrying out the above checks, turn on the unit with the switch on the panel and position the collector hose near the pollutant source.

FUNCTIONING

	Description
1	**Normal use**

The F-Tech Pocket has been designed and built for intermittent use.
The cleaner should be used exclusively for mechanical exhaust of smoke, fine dust, gas, gaseous pollutants in low concentrations through the torch hood or hose. Remember that: the law allows recycling in the environment only in case of occasional welding operations. The manufacturer is not liable for any use other than as described.

DO NOT

- Remove the air cleaner filter panels
- In general, do not dismantle or remove any part of the unit when it is in use or connected to the mains supply
- Do not trap the power cord.
- Do not tamper with the components of the electrical panel
- Do not run the vacuum cleaner when the suction nozzle closed
- Do not use the unit to pick up liquids
- Do not place hot objects into the unit (e.g. cigarette butts)

FUNCTIONING

	Description
2	**Most frequent problems: causes and remedies**

Most of the malfunctions occur for improper use of the system. Below are some possible malfunctions that may occur, and the measures to be taken to remedy them.

FAULT TYPE	CAUSES	ACTION
The cleaner suddenly stops	Power outage	Restore the power supply
	The fuse is burned	Change
	Motor is burned	Repair or change
The yield of the mechanical cleaner is decreased	Filters are dirty	Repair or change
Fumes are escaping	Wrong installation of the filters	Check the closures of the panels and seals
Bad smell	Activated carbons filter full	Change

FUNCTIONING

	Description
3	**Risks and emergencies**

Risks

Description hazards and specific protections

The manufacturer has taken steps to reduce the dangers that can arise due to incorrect use of the machine by installing on the machine protection devices.

Description hazards cannot be eliminated by the security measures used

The dangers that cannot be eliminated by the security measures taken by the manufacturer are caused by incorrect use of the machine or by a failure on the part of the user to heed the safety instructions in this manual (refer to the above concerning the things do not do).

As already mentioned above we recommend the use of gloves and mask during cleaning and filter change, in order to avoid the possible consequences to the operator.

Emergency situations

In case of fire:

- Use a powder fire extinguisher comply with standards
- Pay attention to the combustion gases (polyester filters and plastic electrical plant)

The materials and substances used in the construction of the equipment do not pose a risk of explosion

IMPORTANT NOTE

THE EQUIPMENT SHOULD NOT BE USED IN EXPLOSIVE ATMOSPHERE

MAINTENANCE

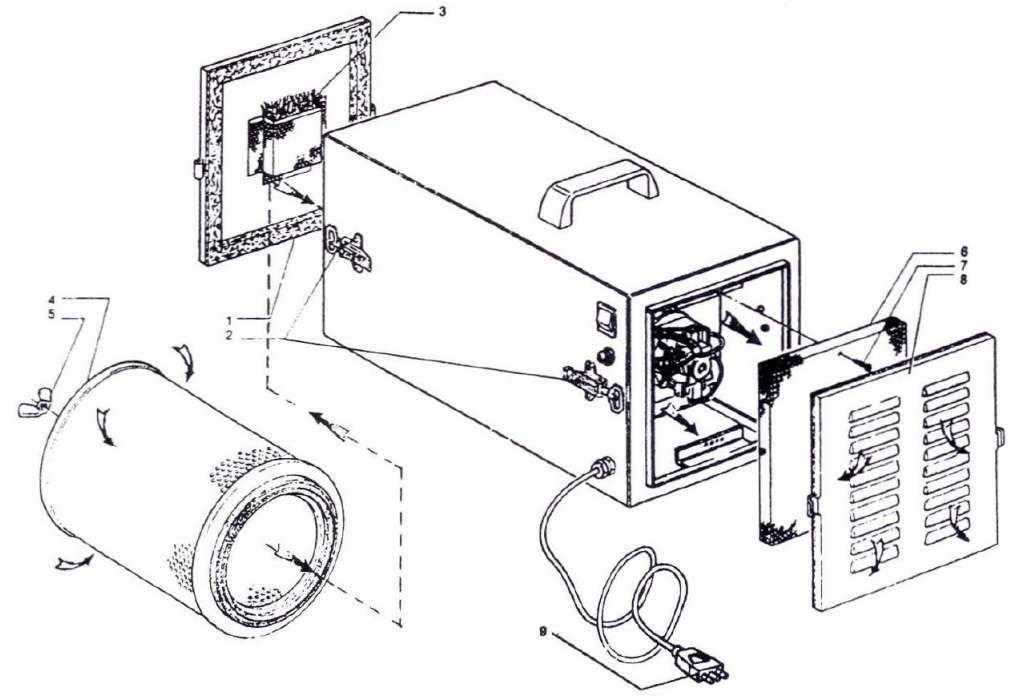
	Description
1	**F-Tech Pocket - Cleaning and change of parts**

ATTENTION:

Before carrying out any maintenance always disconnect the unit from the mains power supply. Wear gloves and a filter mask to carry out filter maintenance.

For the F-Tech Pocket remove the input panel where the hose connects (1) from the enclosure using the retaining clips (2). Remove and clean the spark arrester material (3). Unscrew the locking knob (5) of the cartridge (4) and then remove it. To clean it apply a jet of air in the opposite direction to the flow of suction but this can only be done in a controlled environment. Replace it carefully into place by tightening the locking knob (5) and replace the cover plate (1) with the retaining clips (2).

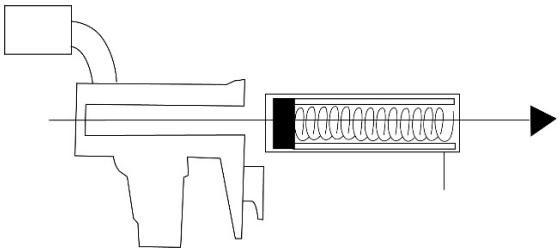
The activated carbon filter (6) is mounted under the air outlet panel and covers the electrical parts area. Remove the end cover(8) by releasing the retaining clips (2). Using a screwdriver to remove the screws (7) that hold it in place remove the carbon filter (7). Replace the carbon filter with a new one, taking care to align it correctly and screw it in position. Replace the air outlet cover (8) and secure with the retaining clips (2).



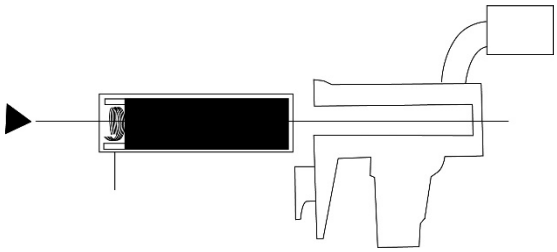
MAINTENANCE

	Description
3	**Inspections**

The motor of this model is equipped with brushes. When they are worn the need to be replaced. To replace the brushes see below.



Remove the worn brush by unclipping and pulling out.



Replace by inserting the new brush and re clipping.

NOTE: Change both motor brushes at the same time.

Please note that regular maintenance of the system ensures general durability.

Periodic maintenance of the filters

The maintenance intervals recommended periodic maintenance are listed below.

GROUP TO CHECK	FREQUENCY OF CONTROL	OPERATIONS TO DO
Decanting container door	When checking the filters	Empty an blow with compressed air
Spark arrestor	When the extraction is low	Blow with compressed air
Micro filter cartridge	About every 300-500 hours	Change
Carbons	When the expelled air has bad smell	Change

The filters should be replaced after 2 or 3 cleans.
The filters, when replacing, must be disposed of according to local disposal regulations.

For the replacement of the filters is carried out as described previously.

Defects

Any repairs or parts replacement to the system components do not alter the characteristics of the machine.

DECOMMISSIONING

	Description
1	**Dismantling and demolition**

DISMANTLING – PUTTING OUT OF SERVICE

Should you decide not to use the equipment, or replace it with another, you must proceed with dismantling and putting out of service process.

This operation should always be made in compliance with current local regulations.

If the equipment, or part of it, has been put out of service, its parts must disposed of in a way that that does not cause any danger.

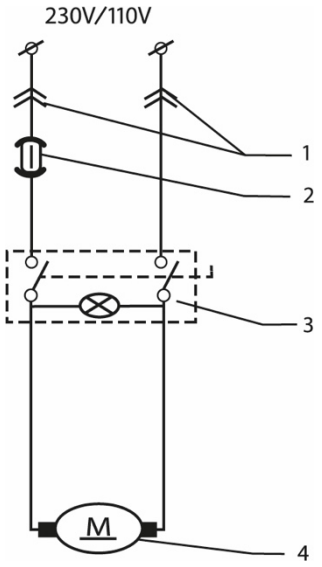
The materials making up the machine are:

- Steel
- Rubber
- Conductors of electrical system
- Plastic
- Fabric of the filters
- Aluminium
- Activated carbon
- Slag materials

WIRING

	Description
1	**F-Tech Pocket**

Ref	Description
1	Power connection plug and socket 230 V 16-T
2	Fuse 5 x 20 Amp
3	Illuminated switch
4	Motor 230 V 900 Watt



OPERATOR'S NOTES

	Description
1	**Details of maintenance operations**

The following table must be completed by a competent trained person

It is of fundamental importance to keep these notes up-to-date in order to have an affective record of the problems encountered and the maintenance performed.

DATE	COMPANY NAME	CONTACT PERSON	OPERATION CARRIED OUT
			First start-up

WILKINSON STAR

Wilkinson Star Limited
Shield Drive
Wardley Industrial Estate
Worsley
Manchester M28 2WD

0161 793 8127