

FS80-90-110



Maximum savings when cleaning with  
extremely compact dimensions



# FS80-90-110

## FS80-90-110

Suitable for removing the most stubborn dirt on outdoor and indoor surfaces like big stores, squares and car parks up to more than 20.000 sq.m

To guarantee maximum driving comfort for the operator at all times and maximum reliability, all the main functions are hydraulic:

- ▶ Traction
- ▶ Lifting and emptying the rubbish container
- ▶ Rotating the brushes
- ▶ Vacuuming dust



## FS80-90-110

### The most compact brushes in their segment

FS80-90-110, as all Fimap new generation machines are sustainable and affordable products and guarantee excellent cleaning results characterized by more productivity, lower management costs, less consumptions and wastes.

The machines have been design to have compact dimensions and reduced emissions. To reach this goal, FS80-90-110 sweepers are made with a box frame built around the centre brush which is very compact but also extremely strong. Thanks to this, FS80-90-110 is used for cleaning big surfaces as well as small and narrow or cluttered up areas.



# FS80-90-110

## Easy to drive and use even for an unskilled operator

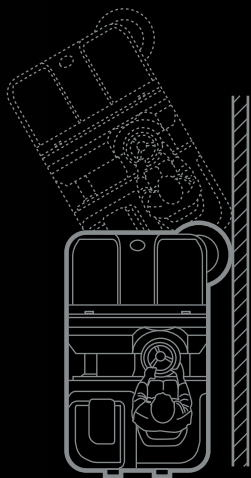
The FS80-90-110 sweepers have been created to make the operator's job comfortable and easy.

They have been studied in minimum detail: the driver's seat can be accessed from both sides and the elegant instrument panel allows the operator to have the situation always under control.



- FS80-90-110 sweepers are fitted with an innovative instrument panel, like the one you would find in a car, with instant display of all the functions. The innovative steering wheel has been designed to make driving extremely comfortable.
- The electric filter shaker is also on the control panel, controlled directly by a push button on the instrument panel - to keep the vacuum bag filters clean.

The body with rounded edges and protected by a rubber profile improves sweeper manoeuvrability



### FIMAP NO DUST LIFTING SYSTEM

The vacuumed air is discharged through grilles located high up on the machine.

This means that none of the dust that has settled on the surface surrounding the machine is lifted, thus guaranteeing excellent cleaning results.



1,4 m  
dumping  
height

- The front box for collecting dirt has a capacity of:  
190 l. (FS80) - 220 l. (FS90) - 270 l. (FS110),\*\*  
and is lifted by a 2-piston hydraulic system operated by the handy control where the driver sits. Vacuuming is operated by a hydraulic motor.

\*\* Measurement ready on the edge of the filter

## FS80-90-110

Designed to offer great accessibility which makes routine maintenance jobs quick and easy to do



- The FS80-90-110 sweepers are designed to provide maximum access to the engine compartment (in the Diesel version) and to the battery compartment (in the battery version).

Thanks to this accurate study, any type of routine and extraordinary maintenance can be done inside the machine without ever being obstructed. Just the checking of the oil or changing the filters for instance, in the motorised version, are now so extremely easy.

In the B version, the box housing the electrical devices is located centrally to allow a quick and easy check of the fluids and of all the battery elements. A battery box can be installed with a capacity of up to 480 Ah C5 (FS90 B-FS110 B version).



- The position of the hydraulic filter (10 micron) has been studied to facilitate maintenance operations. A second filter is positioned inside the oil tank.



No maintenance thanks to the periodical use of the electric filter shaker

- A fabric bag filter, with a large filtering surface – 7 sq.m (FS80) – 8 sq.m (FS90-FS110) – lasts a very long time, and ensures excellent results even in environments where there is a lot of fine dust, thanks to the power filter shaker. The filter is easy to remove without the use of tools, to check or replace it. No maintenance is required thanks to the periodical use of the electric filter shaker. Filters in fabrics for specific applications are available upon request.

# FS80-90-110

Conceived to guarantee safety and reliability under all conditions of use



The pressure and height adjustment of the central brush



are controlled simply by the knob near the brush.

Brush height adjustment depending on wear can, therefore, be done very easily. This ensures a longer brush life cycle.

· The side brush retracts in the event of accidental knocks, thus avoiding all possible damage. The brush's slanting angle can be adjusted to better adapt to cleaning along borders, etc.

· Besides reducing mechanical stress, the big diameter wheels also make working more comfortable. Operating features remain unaltered thanks to their sturdy support. Both versions are equipped with hydraulically controlled brakes (standard supply).

· The suction turbine attached directly on the rubbish container is operated by the hydraulic motor, guaranteeing performance constancy over time



The central brush is the floating type and self-adjusts to keep in contact with the ground all the time

FS80-90-110 can work on 20% gradients\*\*\*

\*\*\* For more info please contact our technical assistance service: [service@fimap.com](mailto:service@fimap.com)

## FS80-90-110

Designed with the new Fimap Energy Saver system that increases machine working autonomy up to 4 hours\*

+ 35%  
energy



The optimisation of consumptions, the use of motors conforming to the strictest EPA standards and reduced absorption minimise the environmental impact of the machine even in the Diesel version

The innovative hydraulic system was designed to increase performances and, compared to the previous model, to reduce energy consumption up to 35%. The result is more autonomy of the machine that can operate up to 4 hours (model FS90 B-FS110 B).

Fimap changed the method of cleaning because, related to sustainability project, battery models work more with less pollution.

FS80 B, FS90 B and FS110 B can clean big outdoor and indoor surfaces with zero emissions, reducing drastically environmental impact.

\* Battery version with 480 Ah C5 box



| TECHNICAL DESCRIPTION                             |                         | FS80 B         | FS80 D         | FS90 B         | FS90 D         | FS110 B        | FS110 D        | FS110 Bifuel   |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Forward speedk                                    | m/h                     | 0÷8            | 0÷9            | 0÷8            | 0÷9            | 0÷8            | 0÷9            | 0÷9            |
| Max gradient with empty hopper                    | %                       | 14             | 20             | 14             | 20             | 14             | 20             | 20             |
| Max gradient with full hopper                     | %                       | 10             | 10             | 10             | 10             | 10             | 10             | 10             |
| Electric motor                                    | V/W                     | 36/4000        | -              | 36/4000        | -              | 36/4000        | -              | -              |
| Diesel engine/gasoline/LPG                        | HP                      | -              | 14 (Perkins)   | -              | 20 (Perkins)   | -              | 20 (Perkins)   | 20,8 (Honda)   |
| Filter shaker motor                               | V/W                     | 12/110         | 12/110         | 12/110         | 12/110         | 12/110         | 12/110         | 12/110         |
| Suction   | m <sup>3</sup> /h       | Hydraulic 160  | Hydraulic 160  | Hydraulic 160  | Hydraulic 160  | Hydraulic 160  | Hydraulic 160  | Hydraulic 160  |
| Dump height                                       | mm                      | 1400           | 1400           | 1400           | 1400           | 1400           | 1400           | 1400           |
| Debris hopper capacity with filter/without filter | l                       | 190/370        | 190/370        | 220/400        | 220/400        | 270/485        | 270/485        | 270/485        |
| Filter surface area                               | m <sup>2</sup>          | 7              | 7              | 8              | 8              | 8              | 8              | 8              |
| Batteries   | V/Ah C5                 | 36/320         | -              | 36/480         | -              | 36/480         | -              | -              |
| Batteries weight                                  | Kg                      | 340            | -              | 500            | -              | 500            | -              | -              |
| Working width                                     | mm                      | 1120           | 1120           | 1220           | 1220           | 1420           | 1420           | 1420           |
| Number of side brushes/Ø                          | mm                      | 1-2/500        | 1-2/500        | 1-2/500        | 1-2/500        | 1-2/500        | 1-2/500        | 1-2/500        |
| Power supply                                      | V/traction              | 36/Hydraulic   | -/Hydraulic    | 36/Hydraulic   | -/Hydraulic    | 36/Hydraulic   | -/Hydraulic    | -/Hydraulic    |
| Central brush width                               | mm                      | 800            | 800            | 900            | 900            | 1100           | 1100           | 1100           |
| Front-mounted hopper                              |                         | •              | •              | •              | •              | •              | •              | •              |
| Rear-mounted hopper                               |                         | -              | -              | -              | -              | -              | -              | -              |
| Type of dumping system                            |                         | Hydraulic      | Hydraulic      | Hydraulic      | Hydraulic      | Hydraulic      | Hydraulic      | Hydraulic      |
| Working capacity                                  | up to m <sup>3</sup> /h | 11520          | 12960          | 12320          | 13860          | 13920          | 15660          | 15660          |
| Machine dimensions L x H x W                      | mm                      | 2020x1430x1130 | 2020x1430x1130 | 2020x1430x1230 | 2020x1430x1230 | 2020x1430x1430 | 2020x1430x1430 | 2020x1430x1430 |
| Machine weight (without batteries)                | kg                      | 750            | 730            | 810            | 770            | 830            | 790            | 790            |

## SERVICES

### CONSULTING AND PLANNING



### DIGITAL FLEET MANAGEMENT SYSTEM



### CONFIGURATION



### AUTHORIZED WORKSHOP NETWORK



### FINANCIAL SOLUTIONS



### MAINTENANCE AND REPAIR



### SETUP



### GENUINE SPARE PARTS



### TRAINING COURSES



For any additional information or for a demo please contact your usual Fimap dealer

### CERTIFICATIONS



ISO 14064-1:2018



ISO 14067:2018



### AWARDS



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