FS80-90-110



Maximum savings when cleaning with
extremely compact dimensions

FIMAP®

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

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



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).

FES
FIMAP ENERGY SAVER

* Battery version with 480 Ah C5 box
** Calculation carried out in-house



FS80-90-110

The most compact brushes in their segment

The FS80-90-110 models are the most compact sweeping machines in their class.
They are designed with a box frame, constructed around a compact central brush.
This allows FS80-90-110 to be used for cleaning large surfaces,
as well as restricted or cluttered passageways.
They are available with central brushes of three different widths: 80, 90 and 110 cm
and battery- or diesel-powered (FS80-90-110 D).
The FS110 version is also available with a Bifuel gasoline/LPG endothermic engine.





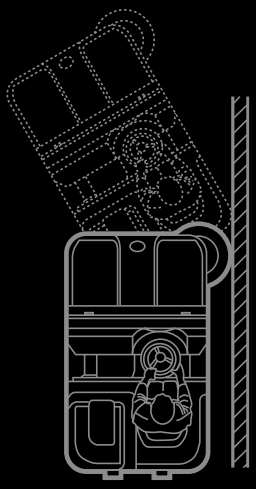
FS80-90-110

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



1,4 m dumping height

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.

· 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 saftey 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

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^3/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^2	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^2/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

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