



## Industrial Washer-extractors

F 33 40 55  
FS 33 40 55

**HIGH SPIN, FREE STANDING**  
**FS 33 40 55 : FREQUENCY CONTROLLED**



# PRIMUS INDUSTRIAL WASHER-EXTRACTORS, SYNONYMS FOR



## LARGE DOOR OPENING

Exceptionally **large door opening (53 cm)**, with very strong door hinges, **opens 180°**, ensures easy loading and unloading.

A **rubber buffer** attached to the front panel prevents from damage from linen trolleys.

## DRUM

The **large diameter (914mm)** and the **4 extra lifting ribs**, allow **better dropping actions** for a cleaner wash, with less crumpling of permanent press fabrics.

Drum and tub are made of premium quality stainless steel AISI 304



## BEARING HOUSE

The shaft can be loosened from the drum with the **unique screw-bolt-system**. Therefore the **complete bearing house** (including bearings, seals, shaft, ...) **can be removed separately** without having to disassemble the whole machine.

This means that the **repair time is reduced considerably**.

**Two large industrial ball bearings**, protect by three consecutive seals against leakage, **guarantees a long life span**.

## FINE TUNED SUSPENSION

The F(S) 33-40-55 are equipped with a **strong spring-system and 12 shock absorbers** which **reduces vibrations**. In combination with a frequency controlled motor (FS-range) **unbalances are practical non-existing**. In case of an out of balance, the extraction will be stopped at once, and the linen will be redistributed in order to start extraction again. This happens **without adding extra water** which is a normal procedure with many other brands.

## EFFICIENT DRAIN AND WATERRECYCLING

**Two large drain valves (3")** ensure a very **fast draining and a shorter cycle**. The drain valves are mounted close to the drum.

This **avoids spilling of water and soap**, that would sink in the drain tube between the drum and the drain valve. The second drain valve can be used for **waterrecycling**. In this way, the water of the last rinse can be used for the next prewash.

## LARGE INLET VALVES

The **three standard large inlet valves (1")** ensures **short cycle times** and can be used for **waterrecovery systems**.

## EASY SERVICING

**Side panels can be removed without removing the whole cabinet**.

This facilitates access so that time can be saved during repair or servicing.



# QUALITY, ROBUSTNESS AND RELIABILITY



## SOAP TANKS

- The stainless steel soap dispenser consists of **5 removable compartments**. The soap is added to the washing water at the bottom of the tub at the right moment during the washing cycle. **This prevents direct contact with the linen** and avoids damage of the linen. The water for cool down is added in the same way.
- This avoids **'thermic shock'**, the main cause of shrinking. **The soap dispenser is mounted at the front side** of the machine for an easier and **more efficient way of working**. This advantage enables machines to be placed closer to one another so **place is saved**. The water supply stops immediately when the soap tank is opened. The machine can be provided with **soap pumps**. (up to 8 connections).



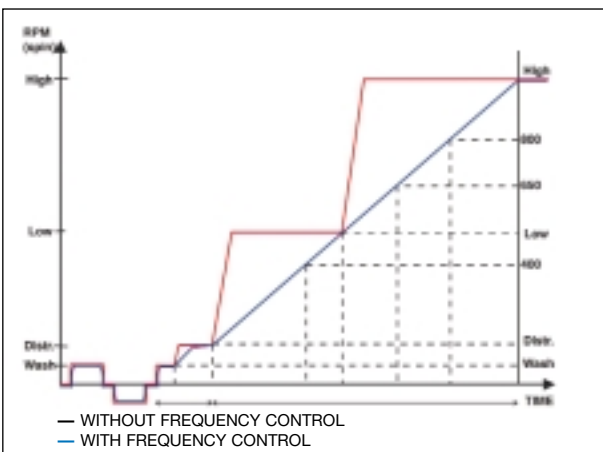
## FC MICROPROCESSOR (standard on F & FS-range)

- **Freely programmable microprocessor** that meets the most complex needs: washing time, temperature, freely set water levels, number of rinses and spins, liquid soap pump control, water recovery, etc.
- Up to 99 washing cycles available.
- The microprocessor is **can be programmed very easily just by answering to the questions** that appear on the display of the microprocessor.
- The **two-line display, in your own language**, shows the progress of the programme.
- Possibility of changing **the water level, temperature, washing and spin times, etc. during the programme**.
- The microprocessor also has a **diagnosis system** that signals and describes faults, this **saves time with maintenance**.
- Via a PC connection and a network connection, programmes can be modified and washing processes can be managed with several machines at the same time.



## CARD PROGRAMMER (available on F-range)

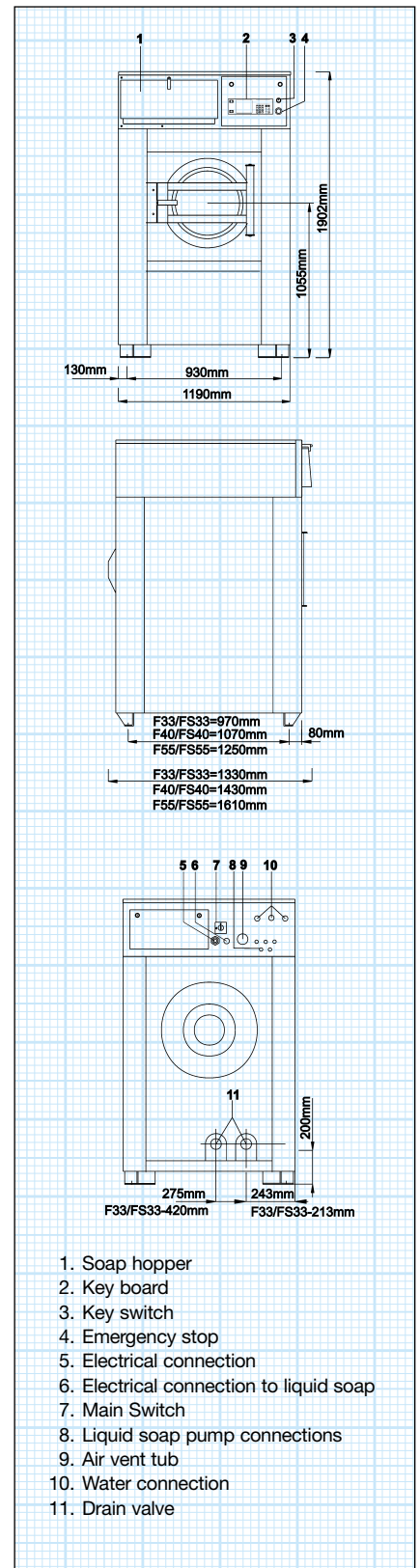
- **A wide choice of programming options**: time, temperature, water level, cooling, soap dosing, etc.
- Possibility of composing **your own precise and efficient card programmes** according to your individual requirements.
- **Thermostat-thermometer with 3 presettable temperatures** where one can read off the temperature at any time.
- A buzzer signals the end of the programme.



## FREQUENCY CONTROLLED DRIVE (standard on FS-range)

- The FS-models are standard equipped with a **frequency-controlled motor** and a **free programmable microprocessor**.
- The frequency controlled motor offers the possibility **to set the speed at random** and to control the washing and acceleration speed with the Primus microprocessor. With this **the risk of unbalance during spinning is reduced**. Moreover, it gives a **perfect washing result, a smooth operation and a longer lifespan**, both of the linen and the machine.
- On top of that, a frequency controlled motor **reduces energy consumption** by eliminating current peaks (up to 7 times lower compared with a washer extractor with two motors) when switching to a higher spin speed.
- This results also in a **regular power supply**.

TYPE		F33	FS33	F40	FS40	F55	FS55
<b>CAPACITY</b>							
Drum volume	l	335		400		518	
Capacity	kg	33		40		55	
Drum dimensions	mm	Ø 914x510		Ø 914x610		Ø 914x790	
<b>MOTOR</b>							
Frequency controlled		-	standard	-	standard	-	standard
<b>DRUM SPEED</b>							
Wash speed	rpm	38		38		38	
Distribution speed	rpm	59		64		64	
Spin speed	rpm	830		830		830	
G-factor spin speed		350		350		350	
<b>PROGRAMMER</b>							
Card programmer		+	-	+	-	+	-
FC - microprocessor		standard	standard	standard	standard	standard	standard
<b>CABINET</b>							
Stainless steel AISI 304		standard		standard		standard	
<b>SAFETY FIXING</b>							
		4xM16		4xM16		4xM16	
<b>HEATING</b>							
100% hot water	°C	90		90		90	
	°F	194		194		194	
100% electrical 220-240V	kW	24		36		54	
380-400V	kW	24		36		54	
Hot water and electrical							
Additional heating 220-240V	kW	24		36		54	
380-400V	kW	24		36		54	
Steam additional heating	bar	3-7		3-7		3-7	
Steam high pressure	bar	3-7		3-7		3-7	
<b>CONNECTION</b>							
Electrical 220-240V		3AC/50Hz		3AC/50Hz		3AC/50Hz	
380-400V		3AC+N/50Hz		3AC+N/50Hz		3AC+N/50Hz	
		Others on request		Others on request		Others on request	
Water inlet	inch	1"		1"		1"	
Steam inlet	inch	3/4"		3/4"		3/4"	
<b>DIMENSIONS</b>							
HxBxD	mm	1902x1190x1330		1902x1190x1430		1902x1190x1610	
<b>TRANSPORT DATA</b>							
Gross weight							
Cardboard packing	kg	1282	1307	1606	1623	1677	1690
Case packaging	kg	1383	1408	1707	1724	1779	1792
Net weight	kg	1138	1163	1462	1479	1534	1547
Volume (packed)							
Cardboard packing	m³	6,30		6,30		6,30	
Case packaging	m³	6,60		6,60		6,60	
Cardboard packing HxBxD	mm	2100x1550x1930		2100x1550x1930		2100x1550x1930	
Case packaging HxBxD	mm	2120x1585x1965		2120x1585x1965		2120x1585x1965	
+ = Available							
- = Not available							
Standard = Standard version							



The company Primus N.V. prereserves the right to change the machines and the specifications in this leaflet at any time, without prior notice. Details and photos are only for information and never binding.



Primus N.V. Heulestraat 51 B-8560 Gullegem-Belgium  
 Phone: +32 (0)56 43 52 00 - Fax: +32 (0)56 40 34 63  
 e-mail: primus@primus.tm - internet: http://www.primus.tm