

# Product Sales Guide

**FXB 180/240/280**

**primus**  
*laundry equipment*

**Xtreme**  
in innovation

Hygienic barrier washer-extractors

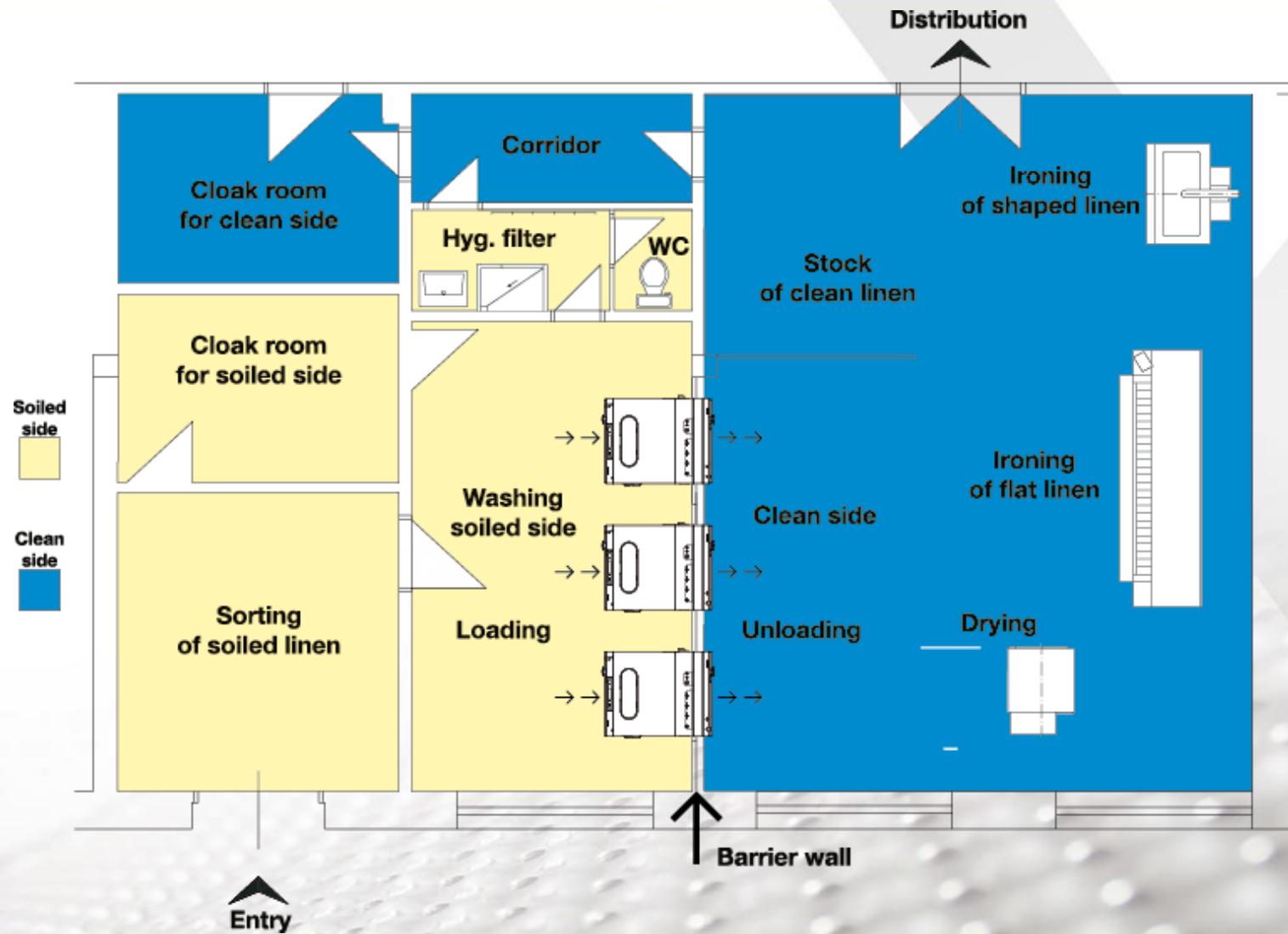
INNOVATION BY PRIMUS



Version 3.0

# Hygienic barrier concept

primus  
laundry equipment



# *FXB range - overview*

**primus**  
*laundry equipment*



FXB 180



FXB 240

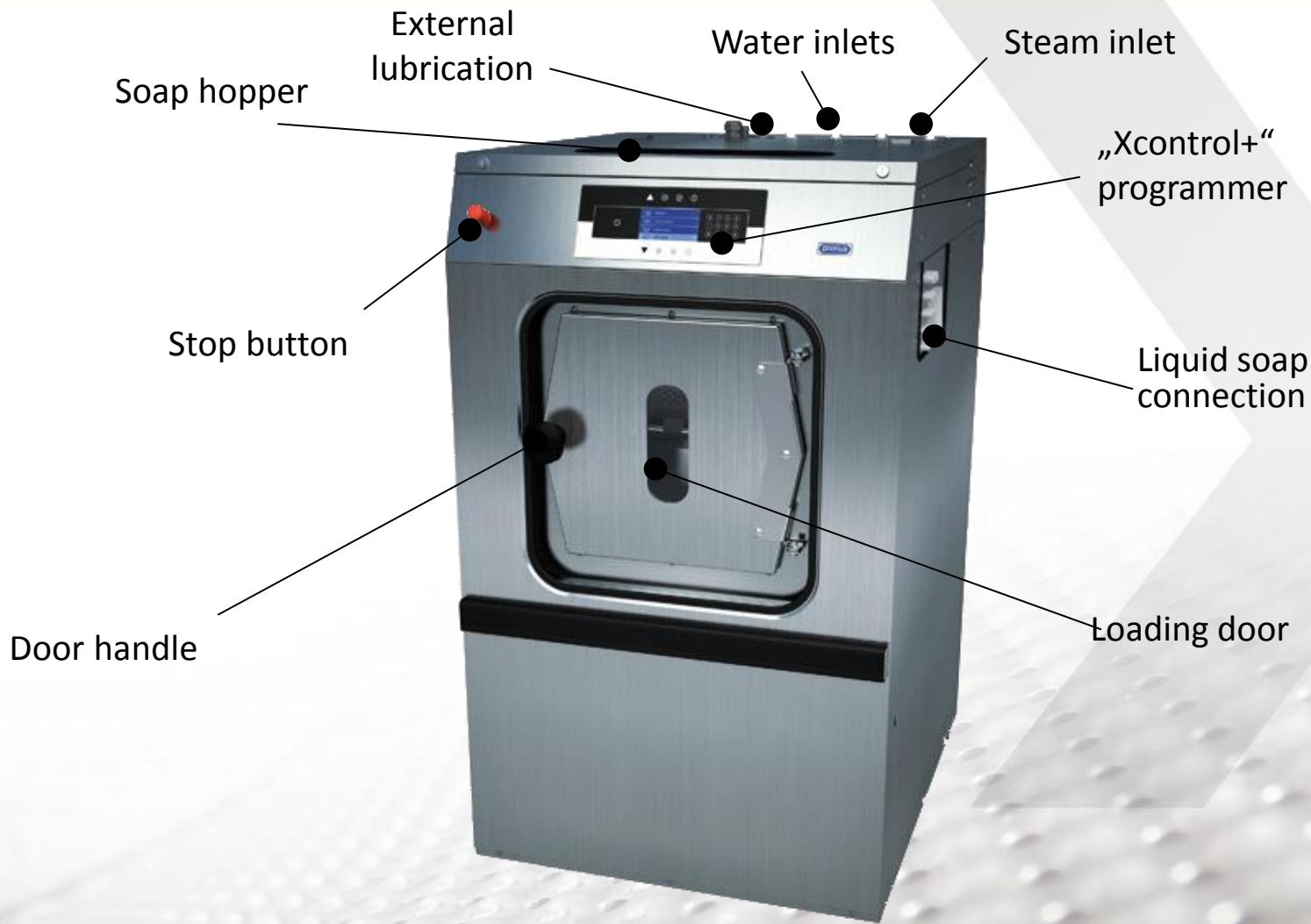


FXB 280

		FXB 180	FXB 240	FXB280
Capacity	(kg)	<b>18 (40 lbs)</b>	<b>24 (55 lbs)</b>	<b>28 (65 lbs)</b>
Drum volume	(l)	<b>180</b>	<b>240</b>	<b>280</b>
Extraction	(rpm)	<b>939</b>		<b>914</b>
G-factor		<b>370</b>		<b>350</b>

# Overview

primus  
*laundry equipment*



(soiled side)

# Overview

primus  
*laundry equipment*



## Standard:

- Top panel - stainless steel
- Front panel - stainless steel
- Side panels - stainless steel



# *Side panels*

**primus**  
*laundry equipment*

- **Stainless steel**
  - **Reinforcement in side panels for extra strength:**
    - profile: 1x



# Frame

primus  
*laundry equipment*

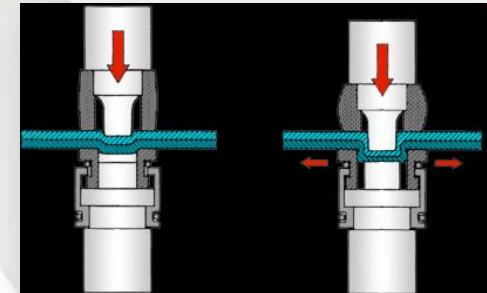
- Zinc plated steel
- Connected by „CLINCH“ technology (not welded)



# Frame - Clinch technology

primus  
laundry equipment

- New technology
  - Not welded
    - Stronger assembly of parts
      - First time used on FX platform



## Benefits:

- Strength of the connections is same as by spot welding
- Connection does not rust
- Increasing productivity
- Shorter lead times



# *Cross and drum*

**primus**  
*laundry equipment*

- **Material:** Stainless steel
- **2 crosses with shaft per model**



# Bearing house construction

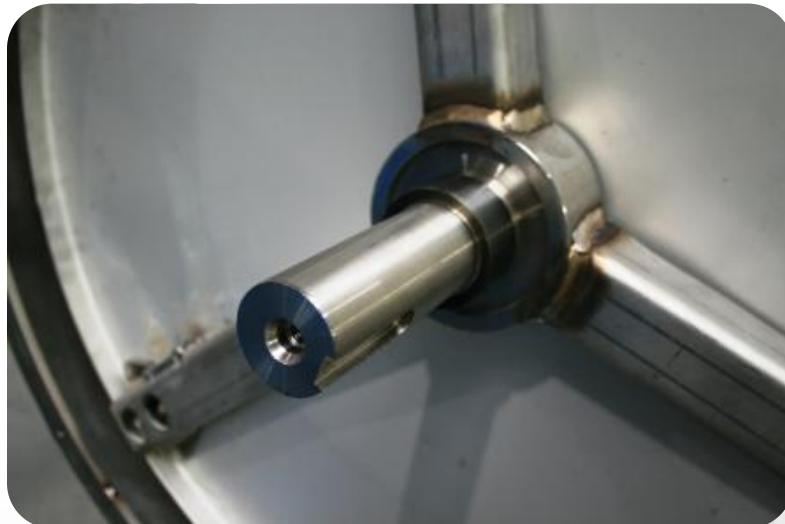
primus  
laundry equipment

- 2 bearings (1 on both sides)
- High quality bearings
- Bearing house is mounted on the both sides
- Vibrations are optimally diverted to the suspension
- 4 lubrication inlets on the top of machine as a STANDARD



# Shafts

- Special stainless steel for Xtreme strength
- Welded on the drum for long life span



Shaft

**Advantage:** housing with a special coating for long service life

# Seal

- **2+2 radial seals FKM**
- **1+1 hardened sleeve**
- **Long life span**
- **Easy service:**
  - Quick replacement time



Seals



Detail of seal

# Outer tub

- High quality stainless steel
- Easy assembly of side panel
- Rubber seal



Outer tub (FXB180)

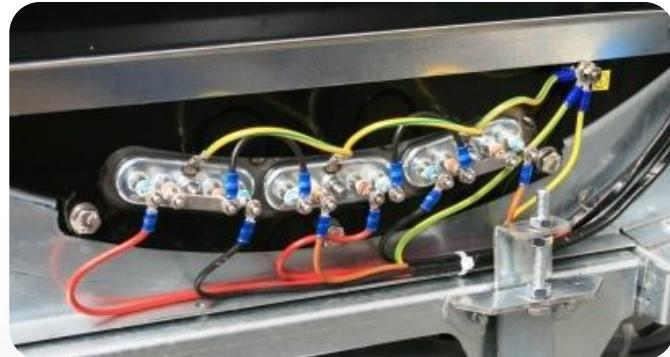


# Heating - Electrical

primus  
laundry equipment

	FXB180	FXB240	FXB280
kW	12 / 18	18	21.9

- Positioned on the left side
- Easy access for quick service
- Short wash cycles



Heating elements  
in the side (soiled side)

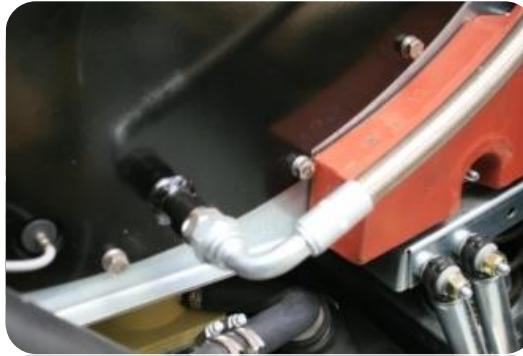


Heating element

# Heating - Steam



Steam inlet



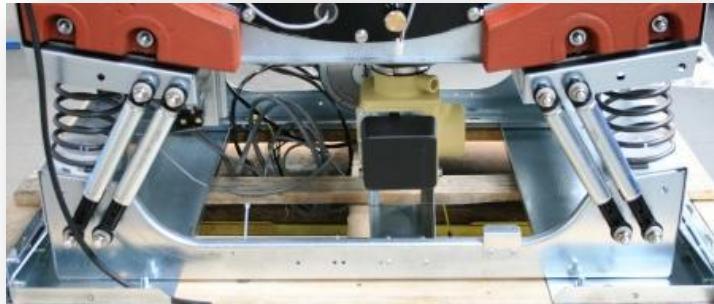
Steam inlet with injector



Steam injector

- Direct steam
- 1-8 bars
- Positioned on the soiled side
- Combination with electrical heating is possible
- Switch between steam and electrical heating is on the soiled side
- Steam inlet 1x ½" on the top of machine

# Suspension



Side double damping

- Soft springs for high G-force
- Optimized balance:
  - No anchoring required
- Easy installation



FXB180 frontal damping



FXB240 frontal dampings

# Pulley

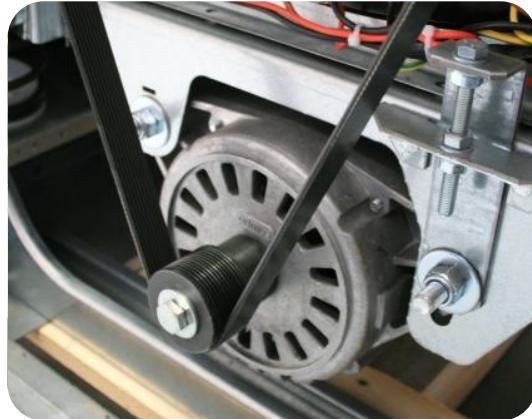
primus  
laundry equipment

- Main pulley: Aluminium
- Motor pulley: Black steel
- Easy service
- 2 sensors for automatic positioning of the drum



Pulley

# V-belts



V-belt on motor drive



Close up V-belts

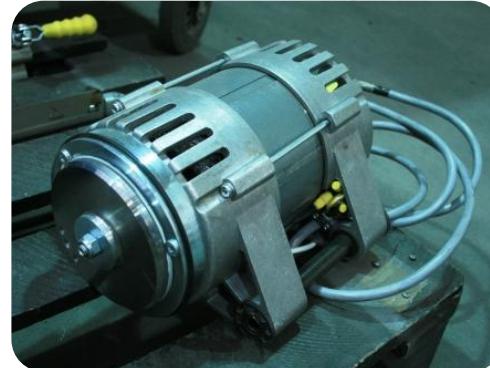
- **1 micro V-belt per machine**
- **V-belt with 10 ribs**
- **Belts are mechanically tensioned by bolt**

# Motor

- Frequency controlled drive

- New motor:

- Higher torque
- High extraction speed
- Lower noise
- Less unbalances



Motor

- Automatic brake system

		FXB180	FXB240	FXB280
Motor power	(kW)	2,2	3	
Wash speed	(rpm)		42	
Extraction speed	(rpm)	939		914
G force		370		350

# Water inlets

primus  
laundry equipment

- Standard 3 high capacity water inlets on the top of machine



- Optional: only 2



- Standard cool down

- $\frac{3}{4}$ " inlet valves

- Easy to remove filter without having to remove the valve: service friendly

# Soap box

- **4 compartments on middle of the top**
  - 2 for powder and 2 for liquid soap
- **Scandinavian design**
- **Ergonomical position:**
  - Front and center
- **Easy service:**
  - 4 compartments next to each other: No confusion



Soap box



Lid of soap box

# Soap box

primus  
*laundry equipment*

- Anti-damage protection



- Plastic lid of the soap box is fully flexible, thus preventing any damage during handling

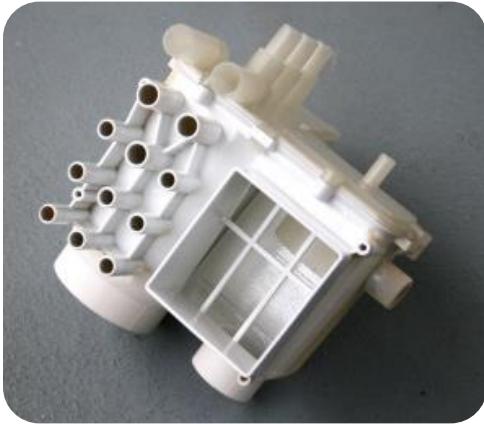
# *Soap box – connection to the tub*



- No aggressive chemicals directly on the linen
- Chemicals enter the tub between the side plate of the tub and the drum

# *Soap box - mixer*

**primus**  
*laundry equipment*



Mixer

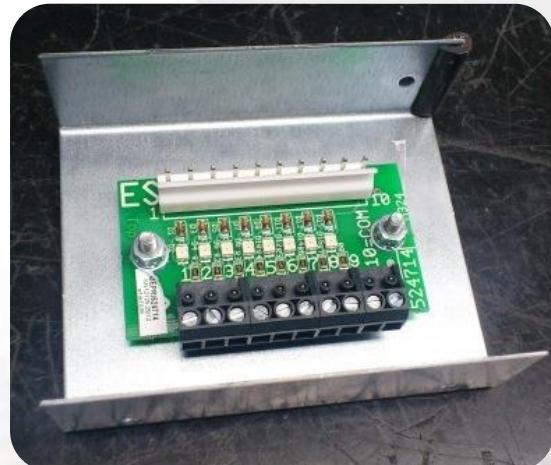


Liquid soap connection

- Soap mixer is a standard feature on FXB line
- Liquid soap pumps can be connected to the mixer
- Chemicals are diluted before entering the tub
- No hot water directly on the linen

- Easy soap is a standard on the FXB line
- Electrical board with connection to the liquid soap inlets is added
- Easy service:
  - Machine remains unopened

For fixation box with PCB board and 8 LED please unscrew cover on side of the machine



PCB board

- Up to 13 liquid soap pumps possible\*, connected to the soap box by hose:
  - 2x Ø19mm
  - 3x Ø14,5mm
  - 8x Ø11,5mm
- Connected to liquid soap (inlets are parts of mixer)
- Max 8 liquid soap pumps are possible to control
- No hot water directly on the linen
- Holes of the liquid soaps inlets must be drilled through the detergent suppliers according to their requirements



\* Maximum 8 can be controlled by the PCB board

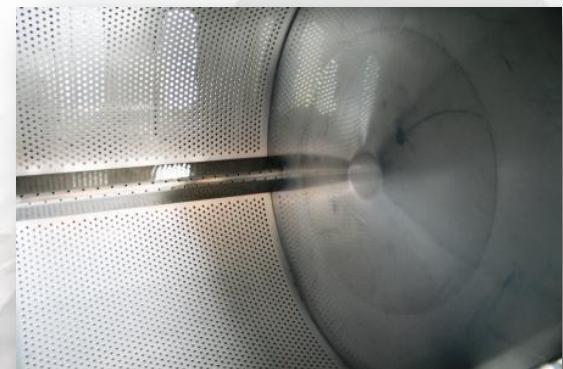
# Inner drum

- 3 lifting ribs for ideal mechanical action
- Stainless steel
- Perforated ribs („PowerWash™“)

POWERWASH®



		FXB180	FXB240	FXB280
Volume	(l)	180	240	280
Capacity	(kg)	18	24	28
	(lbs)	40	55	65
Diameter	(mm)	750		
Depth	(mm)	409	544	639
Perforation	(mm)	5		



Lifting rib in inner drum

# *Door handle, door lock*

**primus**  
*laundry equipment*



Door handle

- Ergonomic door knob for easy opening

- Scandinavian design



Dual pawl

- Strong overdimensioned door lock for safety

- Dual pawl with a plastic pad for longer lifetime

# *Door handle, door lock*

- Safety system to protect destroying of the handle during operation



- System (due to the possibility of slipping in both extreme positions)  
prevents accidental damage when using greater force

# Door

primus  
laundry equipment

- Easy loading & unloading
- Opening to 170°
- Very strong 8,4 mm door glass resistant to high temperatures > 100°C
- Automatic door positioning system as **STANDARD**



# Drum opening

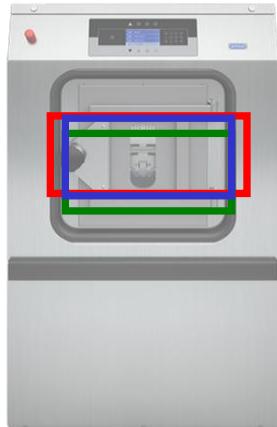
primus  
*laundry equipment*

- Easy to open
- Safe system

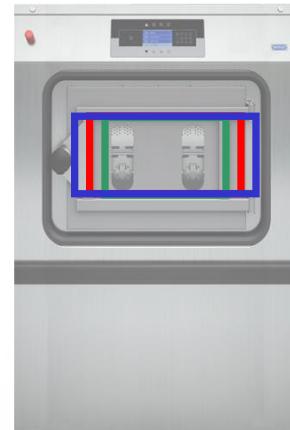


# Door – comparison

- Xtreme big door openings



Primus  
Electrolux  
Fagor



Primus  
Danube, IPSO  
Image



		FXB 180	FXB 240	FXB 280
Door diameter (HxW)	(mm)	325x376	325x496	325x496

# Hinges

primus  
*laundry equipment*



Hinges



Close up hinges



Opened door

# Control panel



Control panel	
Shape	<i>Slanted - 20°</i>
Material	<i>Stainless steel</i>

- Option: 2<sup>nd</sup> display (clean side)

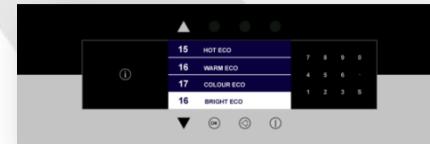


Soiled side programmer –  
standard



Clean side display –  
option

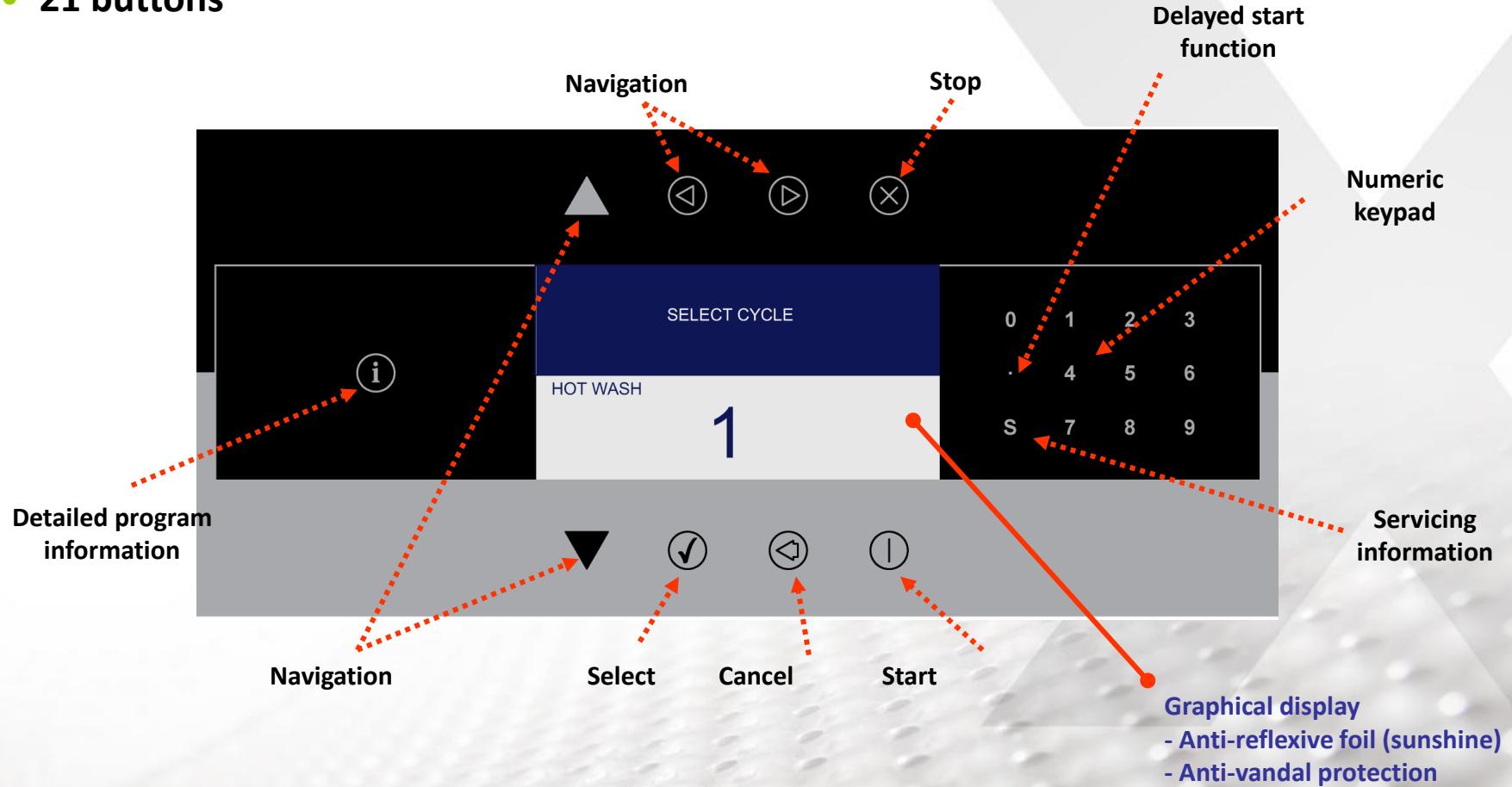
- Up to 99 programs
- Factory pre-programmed settings:
  - 5x Intensive
  - 4x Standard
  - 4x Eco
  - 2x Extraction
  - 5x Special (Sport, Mops, Jeans,...)
- Extra wash / drain steps:
  - Spray
  - Cool down
  - Soak
  - Static drain
  - Reverse drain
- Possibility to update wash programs:
  - Manually on machine
  - Through USB memory stick
  - With PC and TraceTech SW
- **smartload** - Semi-automatic weighing



- **Main features – Other**

- Texts can be shown in 23 languages
- 8 liquid soap signals
- Ready for connecting water recycling kit
- Buzzer signal to inform about significant events (end of cycle, error,...)
- Simple firmware update through USB memory stick
- Possibility to load & unload linen only from soiled side

- 21 buttons



# Programmes

**primus**  
laundry equipment

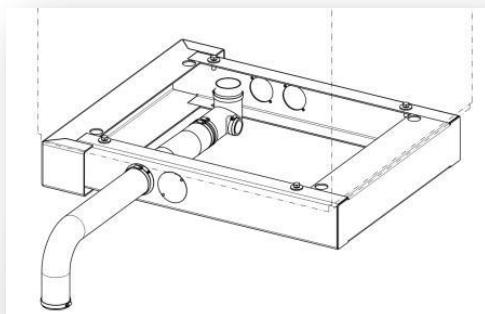
No.	Name	Temp. °C	Description	Prewash	Rinses
1	<b>Hot wash - Intensive</b>	90	Normally to heavily soiled laundry. Good temperature for white and light coloured cotton, such as bed linen	Yes	3
2	<b>Warm wash - Intensive</b>	60	Normally soiled laundry. Good for clothes worn next to skin	Yes	3
3	<b>Color wash - Intensive</b>	40	Normally soiled laundry, whites and colors	Yes	3
4	<b>Bright wash - Intensive</b>	30	For delicate blended materials and permanent press cotton. Suitable for shirts and blouses	No	3
5	<b>Woollens</b>	15	A gentle laundry program for wool, silk and garments that should be washed by hand. Short spin	No	3
6	<b>Hot wash - Standard</b>	90	Normally to heavy soiled laundry with less water consumption	No	3
7	<b>Warm wash - Standard</b>	60	Normally soiled laundry with less consumption	No	3
8	<b>Color wash - Standard</b>	40	Normally soiled laundry, whites and colors. With less water consumption	No	3
9	<b>Bright wash - Standard</b>	30	For delicate blended materials and permanent press cotton. Suitable for shirts and blouses. With less water consumption	No	3
10	<b>Hot wash - Eco</b>	90	Ecology program for normal to heavy soiled laundry	No	2
11	<b>Warm wash - Eco</b>	60	Ecology program for normal soiled laundry	No	2
12	<b>Color wash - Eco</b>	40	Ecology program for normal soiled laundry, whites and colors	No	2
13	<b>Bright wash - Eco</b>	30	Ecology program for delicate blended materials and permanent press cotton. Suitable for shirts and blouses	No	2
14	<b>Low spin - Extraction</b>		Suitable for laundry that just needs to be dampened	No	1
15	<b>High spin - Extraction</b>		Suitable for laundry that just needs to be dampened	No	1
16-20	<b>Special (only  )</b>		Special programmes for sport garments, jeans, mops, etc		

# Drain

primus  
*laundry equipment*



Drain under tub

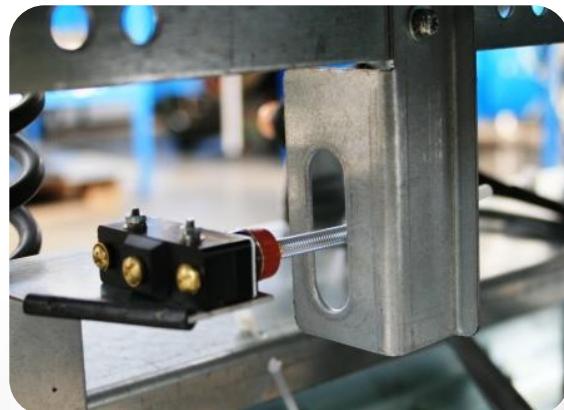


Optional plinth with drain to the side of machine

- **Directly under the tub:**
  - Low water consumption
  - No wasted chemicals
- **Standard 3" drain valves:**
  - Small objects are evacuated
- **90°drain valve:**
  - Auto-rinsing effect behind the valve
- **Easy service:**
  - Access from the soiled side of machine
- **Option:**
  - 2<sup>nd</sup> drain valve for water recuperation
  - Drain to the side of machine (only with plinth)

# Safety switch

- 1 safety switch is positioned below the tub in the side
- Switch is activated during very high unbalances
- Is positioned in the factory



Unbalance switch

- **With extreme unbalances:**
  - The machine will repeat maximum 10 times (is not changeable)
- **Activated when unbalances occur during:**
  - Low spin
  - High spin

Note: During installation & service always check if the tilt switches are well positioned

# ***Ultra Balance Technology***

**primus**  
*laundry equipment*

- Unbalance detection system (software)
- Ultra Balance detects any unbalance and adapts the spin speed accordingly



## **Advantages:**

- the machine is optimally protected against unbalances, which results in a longer lifetime
- the noise level is reduced even more
- optimised stability during the entire cycle
- mechanical tilt switch remains as extra protection

# *Protective stripe*

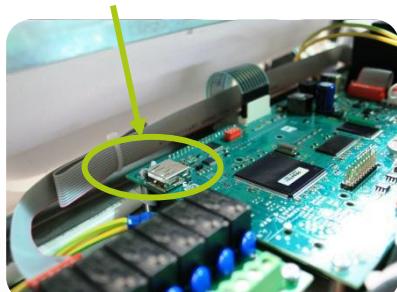
**primus**  
*laundry equipment*



- **Material: Rubber**
- **Protect against scratches from trolleys**
- **Optimum height allows stand trolley straight by the machine's door**

- Connection inside of the machine (standard) or at rear panel (option)
- Export programmes from the machine
- Import\* programmes to the machine
- Copy of the machine settings from machine (machine parametres)
- Import machine settings and programmes to the machine (created in TraceTech)
- Simple firmware update

Inside the machine



Left side panel of the machine  
(soiled side)



\* At the moment you can copy and import programs **only** from and to the same model of washer – e.g., from an FXB240 only to another FXB240.

# Voltages

Phase	Voltage (v)	Frequency (Hz)	Heating (kW)
1/3	200-240	50/60	0
3	200-240	50/60	12/18
3	380-415 + N	50/60	0/12/18
3	380-415	50/60	0/12/18
3	440-480	50/60	0/12/18

# Safety

- FXB machines correspond to all CE and EMC directives
- Noise level below 69 dB
- Standard: Emergency button (both sides)
- One main switch
- Buzzer signal at end of cycle



Emergency button



Main switch

# *Option - traffic light*



- Red: the linen can be removed
- Orange: end of the operation within 4-5 min
- Green: in operation



# Dimensions - comparison

- Compact dimensions
- Less required space compared to MB models



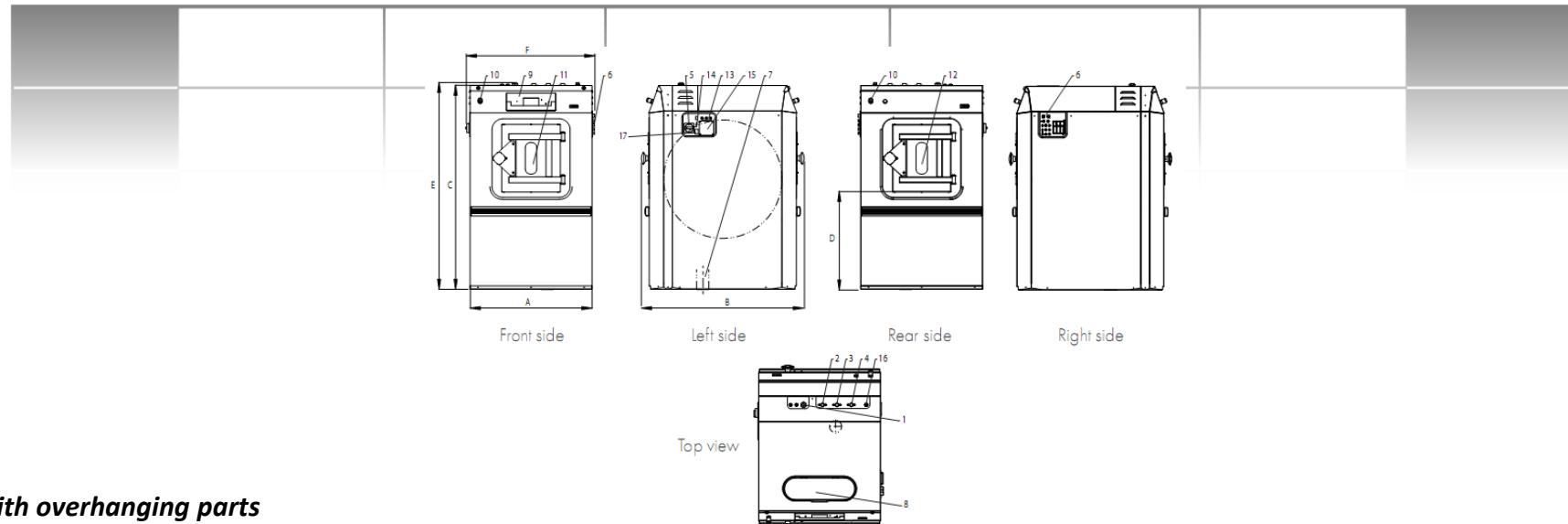
	MB16	FXB180	Diff.
Height (mm)	1600	1455	- 145
Width (mm)	1410	900	- 510

	MB26	FXB240	Diff.
Height (mm)	1600	1455	- 145
Width (mm)	1410	1020	- 390

# *Transport*

**primus**  
*laundry equipment*

	Net weight	Gross weight	Dimensions* (HxWxD)	Transport dimensions (HxWxD)	Volume	
	(kg)	(kg)	(mm)	(mm)	(m <sup>3</sup> )	
<b>FXB180</b>	430	485	1455x900x1145	1610x1010x1235	2,01	<b>FXB180</b>
<b>FXB240</b>	460	515	1455x1020x1145	1610x1130x1235	2,25	<b>FXB240</b>
<b>FXB280</b>	490	550	1455x1130x1145	1610x1240x1235		<b>FXB280</b>



*\* with overhanging parts*

# *Options - overview*

- **USB plug (on the side panel)**
- **Liquid soap pumps**
- **Version with only front door for loading & unloading of the linen**
- **Combination of electrical and steam heating**
- **Water sample tap**
- **Trace-Tech traceability software and networking system**
- **Second display (clean side)**
- **Optiload weighing system**
- **2<sup>nd</sup> drain valve or recycle valve**
- **Plinth (150mm height)**
- **Drain to the side of machine (only with plinth)**
- **A warning light and horn**
- **A warning light based on traffic light**

# **Top benefits**

**primus**  
*laundry equipment*

## **1. Very compact design**

- ✓ Up to 50cm less width versus former models

## **2. Real pass through model: 18 24 28kg**

- ✓ High ergonomics to all models, no 90° angle model

## **3. Automatic positioning of the drum**

- ✓ Higher safety, easier operation

## **4. Trace-Tech management software**

- ✓ Provides record of each wash load which allows to ensure conformity with Hygienic standards

## **5. XControl+™**

- ✓ Free programmable timer by USB, laptop or controller

## **6. Clinch technology**

- ✓ Next gen. technology => no weldings => same strong connection => faster production

## **7. External lubrication system**

- ✓ Standardly equipped with external lubrication system for bearings and seals

# Markets

primus  
*laundry equipment*

## Care & Treatment:



## Laundry & Others:



***Discover more @ the Primus website***

## Language versions:

- English
- French
- Dutch
- Czech
- Russian
- German
- Italian
- Spanish



Follow us on:

[facebook](#) [YouTube](#)

***This is a non-binding and indicative tool made available to Primus distributors for internal use only. Proprietary rights with regard to this tool belong to Alliance CE s.r.o. No guarantee can be given that its results are up-to-date and accurate and it should therefore be used with particular circumspection. This tool should by no means be transmitted to any third party or otherwise made public. Please inform Primus' marketing team of any remark you have in respect of this tool.***

***© 2015 Alliance CE s.r.o. All rights reserved.***