

Barrier washer-extractors WS 5243 and WS 5323

Miele
PROFESSIONAL



Professional laundry care with Miele washer-extractors



Miele manufactures a wide range of washer-extractors, tumble dryers and ironers to provide professional laundry care for personal wash loads in small establishments through to large commercial laundry operations in care homes and hospitals.

Barrier machines with clean/ unclean side

Miele's WS 5243 and WS 5323 machines are specially designed for use in establishments requiring exacting standards of cleanliness, such as care homes for the elderly, hospitals and commercial laundries.

They are designed for space-saving installation in a dividing wall and have a number of excellent features to ensure your laundry is processed economically and efficiently.

New technology has enabled this generation of machines to use some 24% less energy and up to 38% less water than the previous generation.

Profitronic controls

Miele has set new standards in terms of efficiency and versatility with the freely programmable Profitronic controls. In addition to 10 fixed programmes, these machines offer 89 programme slots which can be programmed to suit your particular requirements.



Process control

In a wide range of laundry applications it is necessary to adopt process control techniques to ensure the micro-biological quality of laundered textiles. These applications range from food processing through to healthcare, and guidelines concerning the establishment of a system are contained in EN 14065.

This European Norm defines the criteria for achieving good manufacturing practice, and includes the pre-requisites of a management system combining hazard and risk assessment, process design, validation and monitoring.

Miele's WS 5243 and WS 5323 barrier machines have been designed to form part of the process which enables the management system to deliver an agreed level of micro-biological quality according to the intended use of the textile.

Disinfection programmes

Health and Safety requirements state that all infected or potentially infectious laundry must be washed and disinfected.

To ensure this standard is maintained, these machines have two thermal and two chemo-thermal disinfecting programmes with built-in temperatures and temperature holding times as standard. These programmes conform with the requirements of § 10c BseuchG/ IfSG on the prevention of the spread of infectious diseases as stipulated by the Robert Koch Institute in Germany (Institute for the control of infectious diseases and epidemics).

The thermal disinfection programmes have a wash temperature of 90°C and a holding time of 10 min. making them suitable for use in areas of effectiveness AB:

A: suitable for the destruction of vegetative bacterial spores, including myco-bacteria, fungi and fungal spores.

B: suitable for the inactivation of viruses.

The chemo-thermal disinfection programmes require the use of a chemical additive, and are suitable for textiles etc. that cannot withstand the high temperatures used in thermal disinfection.

Miele barrier machines with clean/unclean side



WS 5243, unclean side



WS 5243, clean side

Setting new standards

Miele's WS 5243 and WS 5323 barrier machines, with through-feed technology, are the new leading performers in the laundry. Wherever hygiene and cleanliness are paramount, e.g. in hospitals, care homes and nursing homes, large scale commercial laundries, and sterile clean-room environments in industry, these machines are able to offer the most professional and economical solution available today.

Installing a machine in a barrier, such as a dividing wall, separates it into clean and unclean sides and thus fulfils all the legal requirements of the German Health and Safety regulations concerning infected or potentially infectious laundry (UVV-Wäscherei VBG 7y). These machines also meet with criteria as defined in EN 14065 to enable the establishment of a quality managed laundry process.

A number of pre-set programme packages are available from Miele, which have been extensively tried and tested to make sure they are suitable for the preparation and care of all types of laundry and textiles, including incontinence laundry, bed linen, pillows and clothing. The fully programmable Profifronic controls allow the user to set the machine to individual requirements.

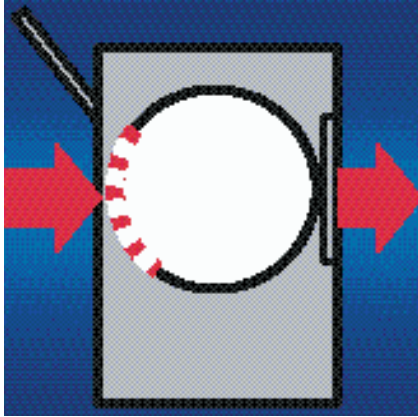
WS 5243

- Capacity up to 24 kg (1:10)
- Drum volume 240 l
- Spin speed 950 rpm
- G-factor 403

WS 5323

- Capacity up to 32 kg (1:10)
- Drum volume 320 l
- Spin speed 800 rpm
- G-factor 286

High tech and high quality



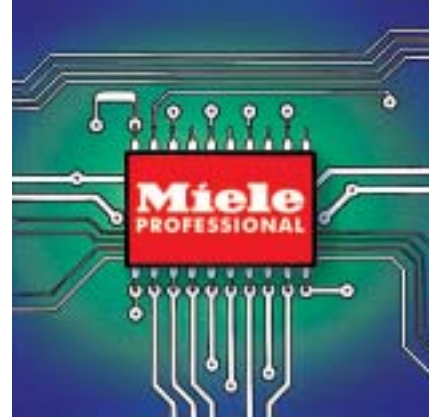
Practical through-feed technology

The through-feed technology from the unclean to the clean side enables several machines to be installed side-by-side, saving space. Each machine occupies an area of approx. 1.5 m² on the unclean side.



Large drum capacity

The new barrier washing machines have drum capacities of 240 l (WS 5243) or 320 l (WS 5323), and can take loads of up to 24 kg or 32 kg respectively.



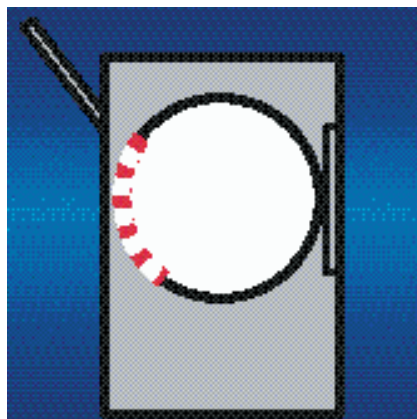
Profitronic controls

The freely programmable Profitronic controls have 10 standard fixed programmes and slots for a further 89 individually programmable ones. Additional programme packages are also available for use in residential homes and commercial laundries for specific areas such as incontinence laundry, pillows, duvets etc.



High final spin speeds

With a maximum spin speed of 950 or 800 rpm and a g-factor of 403 or 286 respectively, the Miele WS 5243 and WS 5323 barrier machines have set new standards in this class. A frequency modulated motor ensures precise imbalance monitoring, and excellent moisture extraction helps reduce subsequent drying times and energy consumption.



Automatic positioning of the drum

Before and after the wash cycle, the drum positions itself correctly for loading and unloading the machine. The doors are interlocked, and can only be opened when they are lined up correctly with the drum aperture.



Large door opening

These machines have larger door and drum openings than the previous generation for even easier loading and unloading. The lift-up doors are flush with the machine and do not have a bellows seal, so there is no wear and tear on rubber components.

Controls

- Freely programmable electronic Profitronic controls with 10 fixed programmes, and slots for 89 user-defined programmes.
- Large 4 line display
 - user friendly clear text display
 - simple operation
- Programme sequence display
 - precise monitoring of programme progress
- Delay start option
- Serial interface
- Key switch
 - access control
 - easy and safe to use
 - high degree of programme flexibility
 - programme documentation
- Suds fill display
 - process monitoring
- Temperature display
 - process reliability

Drive

- Frequency modulation (FU drive)
 - variable wash and spin speeds
 - high final spin speed
 - precise load imbalance sensing
 - low wear and tear, and maintenance free

Features

- Special heater element fixings
 - prevents build-up of fluff
- Drain valve attached directly to the suds container
 - makes better use of detergent
 - low water consumption
 - low energy consumption
- Hot and cold water inlets
 - economical energy consumption
 - shorter programme times
- Hard water connection
 - for excellent wash results

Heating

- Choice of electric or steam
 - you can use the most economical fuel

Dispensing system

- 5 compartment dispenser in the front of the machine
 - dispensing sequence programmable
 - large capacity
- Pre-equipped with connections for liquid dispenser pumps
 - easier operation for staff
 - reduces costs through precise dispensing
 - ensures high process reliability

Wash technology

- Scoop and ladle drum rib design
 - rapid saturation of laundry
 - low water and energy consumption
- Gentle drum acceleration
 - minimises risk of imbalance
 - increases longevity of machine
 - reduces noise level
 - protects the laundry
- Graduated spin
 - low residual moisture
 - less creasing
 - easier unloading
- Interim spin
 - improved rinsing
 - reduced water consumption
- Programmable hot final rinse
 - reduces residual moisture
 - less energy required for drying

Construction

- Separation of clean and unclean sides
 - compliant with German Health and Safety regulations concerning infected or potentially infectious laundry (UVV-Wäscherei VBG 7y)
 - meets with criteria as defined in EN 14065 to enable the establishment of a quality managed laundry process
- Through-feed technology
 - space-saving
 - simple installation
 - safe loading and unloading
- Automatic door lock
 - ensures safety
 - easy to open and close the door
- Precise positioning of drum
 - quick and easy loading and unloading
- Loading and unloading front panels in stainless steel, side walls galvanized and stove-finished in blue
 - outer casing hard-wearing and easy to clean
- Stainless steel suds container and drum with snag-free perforations
 - long life
 - protects laundry
- Large, fully opening doors, without bellows seal
 - comfortable loading and unloading
 - large-volume items fit in easily
- Integrated plinth
 - ergonomic loading height
 - comfortable operating height
 - easy access to drain valve
- Can be dismantled at end of life into different materials. Plastics are all colour coded for easy identification
 - can be recycled

Test certificates

- VDE/CCA
- DVGW water
- Drip water proof
- EMV-CE

Optional extras

- Liquid dispenser connection
- Liquid dispenser pumps
- Interface for acoustic/optical signal
- Steam valve

Barrier washing machine with clean and unclean sides



Unclean side: Loading laundry bags



Clean side: Unloading a machine installed into a dividing wall

Freely programmable Profitronic controls



Unsurpassed user benefits

Miele's Profitronic machines have freely programmable micro-processor controls with 10 standard fixed programmes and 89 additional customisable options for storing various programme parameters to suit individual applications. In the event of requirements changing, these programmes can be altered at a later date to adapt to these new conditions. The flexibility of the Profitronic controls ensures that your machine will always be up-to-date.

Because the control functions are performed by an electronic, solid-state control unit, they are maintenance free.

The following list gives examples of the type of parameters that can be altered to suit user's requirements:

- water intake times and water levels
- main wash temperatures and temperature holding times
- rinse temperatures and temperature holding times
- number of rinses
- dispensing times
- spin speeds and durations
- wash rhythms and durations
- programme repetition
- dispenser pumps

Simple operation

A full-text navigation display guides the user through the programme. The display provides information on programme running time left, temperature, operating hours and current programme status. A delay start facility allows the use of cheap night-rate electricity where this is available.



Optimum operational safety

A key-operated switch enables programme access and programming of system parameters to be restricted to authorised persons only. For example, key setting "A" ensures that programmes can only be started which have been designated "Free access".

Technical Data WS 5243 and WS 5323

Technical Data			WS 5243	WS 5323
Load capacity 1:10 / 1:12 / 1:15	kg		24 / 20 / 16	32 / 27 / 21
Drum volume			240	320
Spin speed	rpm		800	800
G-factor			403	286
Residual moisture*	approx. %		49	50
Door opening (unclean side)	mm		313 x 370	472 x 370
Door opening (clean side)	mm		313 x 370	472 x 370
Controls			Programmable Profitronic	
Hot and cold water connections			1 x 3/4" / 1 x 3/4"	1 x 3/4" / 1 x 3/4"
Hard water connection			1 x 3/4"	1 x 3/4"
Drainage via dump valve			DN 70	DN 70
Electrical connection:			3 N AC 380 – 415 V, 50 – 60 Hz	
Fuse rating	A		3 x 50	3 x 50
Total rated load	kW		25	31
Heater rating (EL)	kW		24	30
Electrical connection for steam heated machine (HD)			3 N AC 380 – 415 V, 50 – 60 Hz	
Fuse rating	A		3 x 16	3 x 16
Total rated load	kW		3.5	3.5
Heater rating HD indirect	kW (kg/h)		50 (84)	50 (84)
Heater rating HD direct	kW (kg/h)		86 (140)	86 (140)
External dimensions (EL, HD)	Height	mm	1720 / 1720	1720 / 1720
	Width	mm	1150 / 1240	1310 / 1400
	Depth	mm	1180 / 1180	1180 / 1180
Net weight (EL, HD)	kg		860 / 862	933 / 935

* Cottons 60°C in accordance with DIN 60456.

Tumble dryers with Troctronic controls T 6551 and T 6751



Miele also offers a range of large capacity tumble dryers with Troctronic controls to complement the WS 5243 and WS 5323 barrier machines. With a choice of nine sensor-controlled drying programmes and two timed drying programmes, they provide customised drying programmes to suit a wide range of individual load and fabric requirements

An economical air-recycling system ensures that 60% of the air is constantly passed back through the laundry to economise on the amount of energy used to dry the laundry.

The dryers are available in a choice of gas or electric heating, and feature reverse action drums with electronic sensing for fuss-free drying.

They are manufactured with blue powder coated front and sides as standard, but can be supplied at extra cost in stainless steel if required.

Rotary ironers

To provide your laundry with a professional finish, Miele also has a wide range of rotary ironers with capacities ranging from 10 kg per hour with 25% residual moisture, to 272 kg per hour with 50% residual moisture. With roller diameters ranging from 160 mm to 600 mm and roller lengths from 850 mm to a massive 3,300 mm, there is bound to be one to suit your needs. Please contact Miele for further details if you are interested in these machines.

T 6551

- Load capacity 22 kg
- Drum volume 550 l

T 6751

- Load capacity 30 kg
- Drum volume 750 l

T 6551 and T 6751

Controls

- Electronic Troctronic controls with 11 drying programmes
 - simple operation
 - can customise programmes to suit individual fabrics
 - can compile programmes to suit specific target groups
 - sensor and time controlled drying programmes as standard
- Precise residual moisture monitoring
- Programme sequence indicators
- Displays for:
 - time left
 - residual moisture content
 - current air temperature in drum
- Fault indicators
- Emergency "Off" switch

Features

- Air recycling
 - approx. 60% of the air discharged is re-utilised
- Short running times
 - low running costs
- Central fresh air intake
 - can be directly ducted in
- Large fluff filter
 - easy to clean

Heating

- Electric, gas, steam
 - can use the most economical method of heating
- Two-stage selectable heater rating
 - temperatures suited to type of fabric
 - gentle drying protects fibres and delicate fabrics
 - energy saving for part loads

Drying technology

- Sensitive system
 - precise monitoring of residual moisture levels. The drying cycle duration is automatically adjusted to compensate for fluctuations in water composition
 - highly accurate switch-off points
 - economic drying
 - no overdrying
- Programmable reversing times and pauses
 - extremely gentle drying
 - fast, even drying
 - no pockets of damp laundry

Design

- Galvanised casing with additional stove-finished coating in blue (except for the rear panel)
 - casing durable and easy to clean
- Stainless steel, smooth-sided drum
 - extremely durable
 - gentle laundry care
- Large drum diameter
 - optimum heat utilisation
 - laundry is soft and full of bounce
 - short drying times
- Anti-crease action
- Axial-flow principle
 - extremely gentle drying
- Vented system
 - fast, economic drying
 - minimal on-site heat dissipation

Test certificates

- Depending on model:
 - VDE/CCA, CE mark, EMC tested, drip water proof
 - operational safety

Optional extras and accessories

- Stainless steel front
- Connection for peak-load cut-out
- Interface for PC or printer
- LPG jet kit to enable conversion from natural gas to liquid gas

Electronic Troctronic controls



A COTTONS	B MINIMUM IRON	1 On / Off	 On
1 Extra dry	7 Normal plus +	2 Low temperature	 Drying
2 Normal plus +	8 Normal	3 Buzzer	⚙️ Cool air
3 Normal	9 Machine iron δ	4 Start	👤 Anti-crease
4 Machine iron δ	C TIMED DRYING	5 Residual moisture	➔ End
5 Machine iron $\delta\delta$	10 Without heating	6 Time remaining	🔍 Check venting
6 Machine iron $\delta\delta\delta$	11 With heating	7 Vented air temperature	🌀 Check fluff filter

The clear, concise fascia features a **usage chart** which is available on request in a number of different languages.

Operation

Miele tumble dryers are simple and safe to operate. Drying programmes and drying times are clearly indicated, and can be selected to suit individual applications via a rotary selector switch.

The programme sequence display indicates the drying stage reached. The actual residual moisture level is indicated in the display during sensor-controlled programmes, whereas actual drying time left is displayed in time-controlled programmes. The temperature in the inner drum can be displayed at the touch of a button. Separate pushbuttons are available for selection of additional functions such as "Low temperature" and "Buzzer" (an acoustic signal indicates the end of the drying process).

Electronic Troctronic controls

Troctronic controls can be used to provide customised drying programmes to suit individual load compositions and ensure gentle drying to protect fibres.

11 drying programmes

– 6 "Cottons" programmes

– 3 "Minimum iron" programmes

– 2 time-controlled drying programmes:

 cold air 3 mins. – 1 hr;

 hot air 3 mins. – 3 hrs.

Solid-state electronic controls ensure that faults are easily diagnosed; operating hours can be displayed and service intervals adjusted at the touch of a button.

Further connections, for example for a computer or peak-load cut-out, complement the range of accessories, and are contributory factors in reducing costs and relieving the environmental burden.

Technical Data T 6551 and T 6751

Technical Data		T 6551	T 6751
Load capacity	kg	22	30
Drum volume	l	550	750
Door opening Ø	mm	520	520
Drum diameter Ø	mm	1100	1100
Controls		Programmable Troctronic	
Programme duration* (EL)	min	25	26
Energy consumption* (EL)	kWh	10.0	13.6
Electrical connection (EL)		3 N AC 380 – 415 V, 50 Hz	
Fuse rating	A	3 x 50	3 x 63
Total rated load	kW	29	38
Heater rating (EL)	kW	27	36
Electrical connection Gas (G) and High pressure steam (HD)		3 N AC 380 – 415 V, 50 Hz	
Fuse rating	A	3 x 10	3 x 10
Total rated load	kW	1.65	1.85
Heater rating (G)	kW	30	36
Heater rating (HD)	kW (kg/h)	33 (57)	40.5 (71)
Height/Width/Depth (EL, HD)	mm	1640/1200/949	1640/1200/1212
Height/Width/Depth (G)	mm	1640/1200/981	1640/1200/1244
Net weight (EL/G/HD)	kg	232/240/260	260/265/292

* For "Normal dry" programme (residual moisture 50%) in accordance with DIN 11902.

The complete laundry package from Miele



Service connections

All connections for water, electricity and liquid dispensing systems are conveniently located on the top of the WS 5243 and WS 5323 barrier machines so less space is required for installation.



Installation

Miele's 24 and 32 kg capacity barrier machines have an integrated plinth which makes them easier to transport to their installation site.



Service

In the unusual event of service work being required the side walls and lid are easily removed, to give a technician free access to all technical components.



Dispenser system

A mobile dispenser pump system, holding up to 3 dispenser pumps, is available for use with these machines for easy and economical dosing of liquid cleaning agents



Printer

These machines can be connected to an external printer for process documentation via an RS 232 serial interface.



PC

Process data can also be displayed on a computer and archived if necessary.

Miele peace of mind



Count on Miele expertise

In the commercial environment, downtime is more than just an inconvenience. It can threaten the smooth running and cost of your operation, so keeping equipment functioning is our prime objective.

Our fully trained technicians provide maintenance cover nationwide. So, no matter where you are in the UK, expert assistance is only a phone call away. Regular technical training ensures that every technician is familiar with the complete Miele range of commercial machines.

So, in the unlikely event of a fault, you can rest assured that your machine will be repaired and serviced promptly by experts.

Total Protection

The Miele name is synonymous with the highest standards of quality and reliability. Our investment in design and technology ensures that all Miele commercial equipment has been built to work economically and efficiently, even in the most demanding working environments.

Because you rely on Miele commercial machines day in and day out, you know that downtime is costly and inconvenient. Miele reliability is well known. However, the Miele Total Protection Plan gives you that extra reassurance by providing the option of either two or four years parts and labour cover beyond the initial guarantee period.

Full Parts and Labour Cover

This scheme covers all parts and labour with nationwide service cover carried out by Miele's own service technicians or Miele trained and authorised service dealers.

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If you would like to visit our
showroom at Abingdon, please ring
the above number to make an
appointment.

The Miele logo consists of the word "Miele" in a bold, white, sans-serif font, set against a solid red rectangular background.

Anything else is a compromise

Every effort has been made to ensure that the information given in this brochure is correct at the time of printing. However, due to continuous product improvement, Miele reserves the right to make changes to products and technical data without prior notice.