

**Washer-extractors:  
PW 6163, PW 6243, PW 6323  
The new 160 litre to 320 litre  
barrier machines**



# Miele's new barrier washer-extractors

**Greater safety, greater laundry protection,  
greater ease of use, greater economy.**

**Typically Miele**

The Miele PW 6163, PW 6243 and PW 6323 barrier machines provide the ideal solution for processing soiled and potentially infected laundry in retirement and care homes, hospitals and laundries. These new high-throughput barrier machines with drum capacities from 160 to 320 litres offer these establishments optimum physical separation between the unclean and clean sides, as stipulated in the Prevention of Accidents Regulation BGR 500, and are also suitable for other situations where the hygienic processing of laundry is important.

## **Greater safety**

- Automatic drum positioning at end of programme
- Thermal and chemo-thermal disinfection programmes with precise temperature holding times
- Capture of all relevant operating data as standard
- PC connection and process documentation software optional

**High safety standards.**

**Typically Miele**

## **Greater laundry protection**

- Patented Miele HONEYCOMB DRUM\*
- Large drum capacity from 16–32 kg

**Thorough cleaning and optimum  
protection of laundry. Typically Miele**

## **Greater ease of use**

- Freely programmable PROFITRONIC M controls
- Clear text display
- Chip card reader for programme operation and update function
- Large doors for easy loading and unloading

**Simple, safe programme operation.**

**Typically Miele**

## **Greater economy**

- Excellent consumption figures
- High g-factor for low residual moisture levels and optimum further processing
- Communication module with serial interface for data exchange and remote data transfer available as an optional extra
- Various heating methods including dual heating
- Maintenance-free positioning of heating element
- Automatic weighing system (optional)

**Maximum effectiveness and efficiency**

**for every day use. Typically Miele**









# Hygienically clean laundry with maximum fabric care

Many factors contribute to the quality of life in retirement and care homes – thoroughly cleaned laundry with maximum garment care is naturally important to the residents. Clean clothes, bed linen, towels and table linen all contribute to a feeling of well being and are an indication of a well-run establishment.

A professional laundry room requires perfect results, efficient laundry programmes, an ergonomic working environment and compliance with health and safety regulations. The new Miele barrier washer-extractors with unclean/clean sides offer all of the above to an extremely high standard, true to the Miele philosophy of “Forever Better”.

## Perfect hygiene

Hygienic processing of laundry is particularly important in retirement and care homes, as well as hospitals. In such establishments, laundry can be the source of the spread of infection and potentially pathogenic microorganisms. Many nosocomial infections can be traced back to poor hygiene standards in the processing of contaminated laundry. Miele's hygienic washer-extractors with their safe disinfection programmes and controlled process parameters set new standards for laundries.

## Disinfection

Safe thermal disinfection depends on meeting precise criteria with regard to temperatures and holding times. In accordance with RKI\* prescribed requirements, there are two processes for thermal disinfection:

- 90°C with a 10 minute temperature holding time
- 85°C with a 15 minute temperature holding time

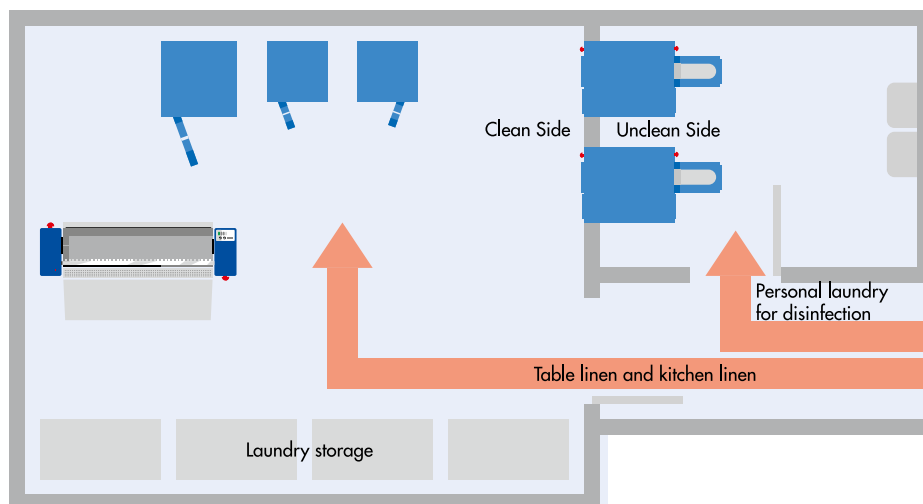
With chemo-thermal disinfection, laundry should be processed at temperatures of between 30 and 70°C using temperature holding times of 10–20 minutes and the addition of chemical disinfection agents.

The PROFITRONIC M controls on the new Miele washer-extractors control the temperature and temperature holding times precisely to comply with the required standards. All process parameters can be checked and documented via the operating data capture system.

\* RKI = Robert Koch Institute

## Regulations, Directives and Quality assurance

Laundries where possibly infected or infectious laundry is processed, are required to comply with the Prevention of Accidents Regulation **BGR 500, Chapter 2.6**. To comply with the Regulation, the side where the unclean laundry is loaded into the machine must be physically separate from the side where the clean laundry is removed. Staff cleanliness with hand disinfection and changing clothes further complement the hygiene system. Separation prevents clean laundry from being mixed together with unclean laundry and offers reliable protection from recontamination. Different atmospheric conditions (low air pressure on the unclean side, higher pressure on the clean side) guard against airborne contamination. With load capacities of 16, 24 and 32 kg, Miele's new washer-extractors offer a bespoke, economical and reliable solution for laundries of all sizes.



## Full and efficient service

For decades, Miele has been at the forefront of developing washer-extractors, and innovative cleaning processes, and has always been an efficient service provider for perfect laundry care. Creating highly efficient and cost-effective solutions which are tailored for the market is an important aspect of Miele's aim of providing only the best for its customers.

- Expert planning of the laundry:  
From calculating the capacity

requirement, to feasibility studies, to implementation planning

- Experienced partners to provide on site supervision:  
From delivering the machines to site, to installation of the entire laundry operation, to instruction on how to use the machines
- An outstanding support network is available to provide everything from finance schemes, to after sales service, maintenance and service contracts.

# Collect, sort, wash, disinfect...



With Miele's hygiene system and the new barrier washer-extractors you can be sure that your laundry processing is in safe hands. In accordance with European Regulation (Risk Analysis Biocontamination Control System (RABC)/EN 14065), the following measures are recommended for the hygienic processing of laundry in residential and care homes, and hospitals:



## **Collect and sort soiled laundry**

- Place the soiled laundry in cloth laundry bags
- Sort the items according to fabric and wash programme required and colour code the laundry bags
- Do not store the laundry for a long time before processing
- The weight of the laundry bag should not exceed 10 kg
- When the soiled laundry is being moved it must not come into contact with clean laundry



## **Wash and disinfect**

- Contaminated, possibly infected or infectious laundry should be processed in barrier washer-disinfectors in accordance with Prevention of Accidents Regulation BGR 500, Chapter 2.6
- Select the appropriate cleaning and disinfection programme for the type of fabric and soiling
- Use suitable cleaning and disinfecting agents
- Check and document the process parameters



...dry, iron, transport,  
store



#### **Wet cleaning of outer garments**

The Miele special WetCare programme gently cleans and cares for outer garments made from sensitive fibres and synthetic materials. Standard programme on all new Miele barrier washer-extractors.



#### **Dry and iron**

- Do not store washed laundry for a long time before processing further
- Clean laundry should only be handled up to a maximum of 4 times before it leaves the laundry
- When drying do not exceed a load ratio of 1:25
- Do not leave laundry in the dryer at the end of the working day
- Laundry which is to be machine ironed can be processed on large ironers after washing without being pre-dried
- Fold laundry immediately after machine ironing



#### **Transport and store**

- Protect clean laundry from soiling
- Cover laundry with microporous plastic film and transport in sealed laundry trolleys
- Clean and disinfect laundry trolleys, storage areas and cupboards at regular intervals
- Keep storage rooms sealed to avoid air turbulence
- Arrange set times for issuing laundry
- The air pressure in the clean area should be higher than that in the unclean area
- Returned laundry which is clean but not wrapped should be rewashed



Illustration shows PW 6163 in Octo blue



# High performance machines tailored to suit individual work loads



Illustration shows washer-extractors in stainless steel

## **Washer-extractor PW 6163**

- 16 kg load capacity (1:10)
- HONEYCOMB DRUM, 160 l capacity
- 975 rpm maximum spin speed
- 360 g-factor/49% residual moisture
- External dimensions:  
H 1705, W 1110, D 890 mm

## **Washer-extractor PW 6243**

- 24 kg load capacity (1:10)
- HONEYCOMB DRUM, 240 l capacity
- 975 rpm maximum spin speed
- 360 g-factor/50% residual moisture
- External dimensions:  
H 1705, W 1337, D 890 mm

## **Washer-extractor PW 6323**

- 32 kg load capacity (1:10)
- HONEYCOMB DRUM, 320 l capacity
- 975 rpm maximum spin speed
- 360 g-factor/50% residual moisture
- External dimensions:  
H 1705, W 1558, D 890 mm

**Exclusive to  
MIELE**

- Freely programmable PROFITRONIC-M controls
- Patented HONEYCOMB DRUM
- Fully automatic drum positioning at the end of programme
- Integrated communication module slot
- Capture of all relevant operating data as standard
- Easy to install as machine depth only 890 mm
- Legendary Miele Quality – MADE IN GERMANY

# Innovative technology, patented product features



## Miele quality – Made in Germany

For over eight decades, Miele laundry machines (washer-extractors, tumble dryers, rotary ironers) and accessories have been the professional choice for comprehensive laundry care. Miele's traditional manufacturing process using components that are made in-house and uncompromising quality assurance guarantee well-engineered machines and offer the user the highest levels of economy and reliability.

Every detail has been designed specifically to meet the demands of professional laundry care.



## Recognised excellence

The quality and reliability of Miele machines has been highlighted by many test institutes. Surely one of the reasons why Miele has been named as one of the best and most trusted brands – as evidenced by numerous awards.



## Best for service

For many years Miele Service has achieved first place for best customer service (awarded annually by ServiceBarometer AG, München).



## Machines that work hard and look good

Miele machines frequently win international design competitions and the new PW 6163 barrier machine is the winner of the reddot design award: product design 2009. Proof indeed, that Miele machines offer the perfect blend of legendary quality, excellent functionality and high performance product features.



2009



reddot design award  
winner 2009

# Quality – Made in Germany. Typically Miele



## Ergonomic operation

- Wide opening lift-up door (153° opening angle)
- Optimum ergonomic loading height of 720 mm; laundry trolley can be pushed directly under the door
- Large loading and unloading aperture  
PW 6163: W 366 x H 352 mm  
PW 6243: W 593 x H 352 mm  
PW 6323: W 593 x H 352 mm

## Easy to install

- With a machine depth of only 890 mm, it is easy to manoeuvre through a standard 900 mm door
- Can be transported without dismantling the machine
- Easy access machine plinth for pallet truck
- Easy to transport to its final location
- Sealing strip can be fitted to the wall

## Easy access for servicing

- Installation panels on all 4 sides for easy access for servicing



# Innovative technology, patented product features



Illustration shows dismantled front panel



Illustration shows dismantled side panel

## Outstanding quality that performs for every day use

- Strong sub-frame with easy access underneath for transportation
- Suds container supported on both sides with robust springs and friction dampers
- Drum bearings on both sides distribute force to the two outer walls
- Load imbalance pressure sensor for optimum functioning
- Suds container with no sharp edges
- Suds container and drum made of high quality stainless steel
- Sturdy door locking mechanism
- Tough, easy care external finish, powder coated or stainless steel

## Smooth running

Spiral springs and shock absorbers reduce noise during spinning. The electronics also monitor and limit any imbalance during spinning.

## Safe operation

- Exclusive to MIELE** Automatic drum positioning on the unclean and clean sides
- Drum does not need to be positioned manually
  - Safe loading and unloading of the drum
  - Direct access to the door aperture
  - Emergency off switch on the clean and unclean sides
  - Programme monitoring via indicator lights or option of clear text display on the clean side

# Quality – Made in Germany. Typically Miele



## Patented honeycomb drum

**Exclusive to MIELE** These are the first barrier machines to feature the patented Miele HONEYCOMB DRUM. The unique structure of the HONEYCOMB DRUM provides extremely gentle laundry and fabric care. The convex, honeycomb profile creates a film of water which gently cushions the laundry away from the drum. Delicate, expensive fibres suffer no damage, even during spinning.

## Laundry protected by the special perforations in the drum

The tiny, smooth-edged perforations in the drum wall ensure minimal mechanical strain on the laundry. Fabric snags no longer occur. Even after the fastest spin cycle, laundry collects loosely in the machine without any drum imprints.

- No drum imprint on laundry
- Optimum laundry care
- Laundry items easy to separate
- Laundry lasts longer
- Minimises laundry replacement costs

**Innovative technology, outstanding feature: the Miele honeycomb drum**



**Optimum laundry care – authenticated by the WfK Institute for Laundry Research, Krefeld, Germany**

- Fabrics are washed significantly more gently
- Better shape retention and longer lifespan due to gentle treatment of the laundry
- The woollens programme is as gentle as washing by hand



# Programme control: simple and individual

## Typically Miele



Illustration shows control unit on the unclean side

The PROFITRONIC M controls on the new barrier machines are an innovation developed by Miele's in-house electronics factory and further proof of Miele's manufacturing competence. Not a bought-in, off-the-shelf solution, but an individually designed programmer and operating unit which provides true Miele added value in the laundry.

### Simple operation, clearly laid out controls

**Exclusive to MIELE** On the unclean side, the washer-extractors have a large display with rotary switch, function buttons, chip card reader and emergency off switch.

The freely programmable controls have a total of 199 programme places. All programme parameters can be freely set. Various parameters can be pre-selected, e.g.:

- Start time
- Programme end time
- Temperature
- Spin speed
- Choice of 11 different languages.

Programmes are selected via the rotary switch. Programme selection is intuitive with clear text and symbols to guide the user. Alternatively, the machine can be operated via a chip card in the chip card reader, e.g. to allow the use of specific programmes or to transfer new programmes to the machine.



Programme sequence monitoring via the display on the clean side (on machines with stainless steel fronts)

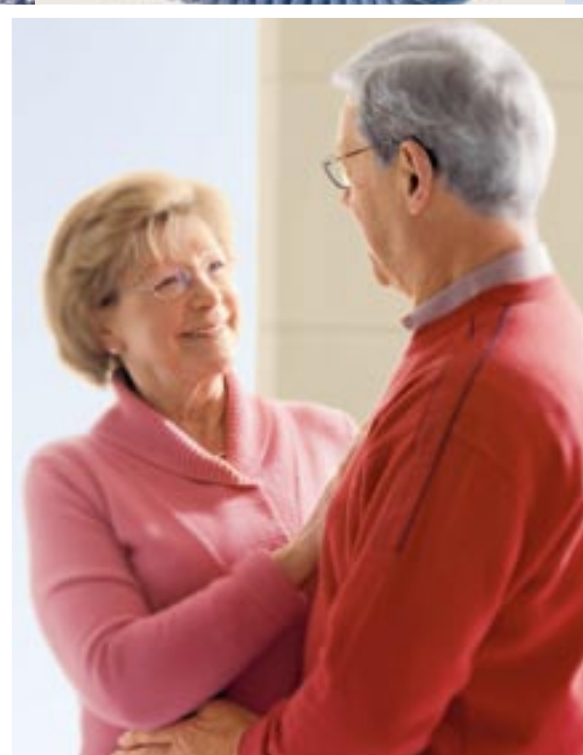


Programme monitoring via indicator lights on the clean side (on machines with Octo blue external finish)



# Laundry care: gently cleaned, perfectly cared for

## Typically Miele



53 fixed programmes as standard

- Standard basic programme package
- Special Hygiene programme package for care homes and hospitals:  
Thermal disinfection, Chemo-thermal disinfection, Incontinence/soiled laundry
- Bed linen
- Curtains
- Mops and cloths
- WetCare
- Woollens and silks

### Special WetCare programme

The wet cleaning of outer garments made of sensitive fibres, synthetic material and high performance fibres is an unavoidable part of modern fabric care – especially as the majority of fabrics are now washable. The original WetCare system developed by Miele fulfills all the requirements necessary to produce excellent cleaning results – perfect protection for the fabric and the cleaned garments have a pleasant freshness.



# Plus factors for more economic efficiency

## Typically Miele



### Precise

The stainless steel plinth can be factory fitted with an integrated weighing system which automatically measures the weight of the load. After the programme has been selected, the weight of the laundry is shown in the display in 200 gram stages as it is being loaded and resource consumption is adjusted accordingly.

The precise weight measurement reduces operating costs automatically when a part load is being processed.

Water consumption as well as the amount of liquid detergent (automatic dispensing via the dispensing system connected to the machine) are also reduced. Shorter heating up and water intake times give a corresponding reduction in energy consumption.

### Effective water connection

5 standard water supply connection points (2 cold, 1 hot and 2 hard water) can be used to reduce the water intake time and consequently the programme running time. Hard water is particularly suitable for the rinsing sequences, soft water is more suitable for the pre and main washes.

### Exact

A flowmeter can be connected to each water connection to monitor the water intake precisely. This data can then be stored by the operating data capture module.

### Optional features

In addition to the standard electrical heating method, steam (indirect) or dual (electric/steam direct) heating methods are also available as options for heating the water.

This enables the most cost effective method of heating for the on-site conditions to be chosen. Dual heating offers the advantage of allowing washing to continue during a period of peak load cut-out.

### Efficient and secure

The peak load cut-out kit\* allows effective energy management in the event of restricted power on site. The requirements for disinfection are still complied with. If the programme is interrupted during the heat-up phase the disinfection cycle is restarted.

Liquid detergent dispensing connections at the side of the machine



### Simple

Up to 12 Miele liquid detergent dispensing pumps can be connected very easily. Pumps from other manufacturers are also compatible. The dispensing amount is calculated and the data is relayed to the operating data capture module.

The new barrier machines are also available for liquid detergent dispensing without a detergent dispensing drawer.

# Operating data: view, save, archive



The capture of operating data is becoming increasingly important and is a legal requirement in many countries. It is important for checking quality assurance processes, checking results and for analysing cost effectiveness.

In a laundry, in addition to efficient operating staff, optimum programme sequences have a considerable impact on performance. To optimise programme sequences, consumption data needs to be captured, monitored and optimised.

Contaminated laundry must be cleaned and disinfected in accordance with rigorous health and safety regulations and requirements. Here, too, documentation of programme sequences is an extremely valuable tool for ensuring safe processing. All relevant data, e.g. cleaning and disinfecting temperatures and temperature holding times are saved and can be produced for inspection by the regulatory authority.

## Operating data capture as standard

The new Miele barrier machines are fitted with an integrated operating data capture module as standard. It saves all data from the previous 300 programmes. This data can be called up in the display via the PROFITRONIC M control operating unit. At the start of data input, the processing data is captured and recorded by the washer-extractor.

### External data

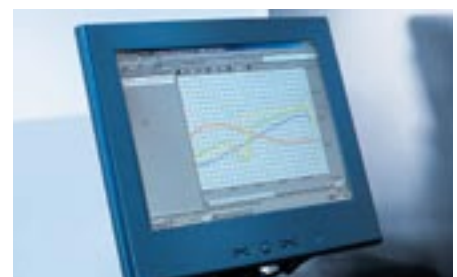
- such as installation site, operator, date and machine number

### General programme data

- such as programme name, start time, finish time

### Specific programme data

- such as consumption values, temperatures, times of individual programme blocks, dispensing



## More convenient, only from Miele

A special software solution is also available for installation which offers convenient data evaluation and archiving.

Connection with a PC is established by fitting a Miele XKH RS 232 Communication module with RS 232 serial interface. This simple to install software solution enables the processing, visualisation and archiving of a large amount of data on a PC or laptop. This can then be displayed graphically or in chart form, processed and saved. The data can also be exported to other programmes, Microsoft Excel, for example. The consumption data can be collated and evaluated with existing operating data.



# Machine options and accessories

Article no.								
PW 6163	51.6163.01	51.6163.04	51.6163.21	51.6163.40	51.6163.50	51.6163.03	51.6163.22	51.6163.10
PW 6243	51.6243.01	51.6243.04	51.6243.21	51.6243.40	51.6243.50	51.6243.03	51.6243.22	51.6243.10
PW 6323	51.6323.01	51.6323.04	51.6323.21	51.6323.40	51.6323.50	51.6323.03	51.6323.22	51.6323.10
Features								
3 N AC 380–415 V 50–60 Hz	•	•	•	•	•	•	•	•
Octo blue fronts	•	•	•	•	•			
Two indicator lights, clean side	•	•	•	•	•			
Stainless steel fronts						•	•	•
Second display, clean side						•	•	•
Detergent dispenser drawer on front	•		•	•	•	•	•	•
Multi-function module 01		•				•	•	•
Plinth, Octo blue			•					
Plinth, Stainless steel							•	
Plinth with weighing system, stainless steel								•
Test sample point								•
Heating	Electric	Electric	Electric	Steam ind.	Dual heating	Electric	Electric	Electric
					(Electric/Steam dir)			

## Plinth

170 mm high plinths are available in Octo blue and stainless steel for the new barrier machines. The plinth can be secured under the washer-extractor so that both machine and plinth can be transported together into the wall aperture for installation.

## Plinth with weighing system

The stainless steel plinth can be factory fitted with an integrated weighing system which automatically measures the weight of the load. After the programme has been selected, the weight of the laundry is shown in the display in 200 gram stages as it is being loaded and resource consumption is adjusted accordingly.

## Steam and over-foaming drainage kit

Excess steam and foam are removed via a pipe system so that they do not enter the room and the danger of slipping on foam is avoided.

## Additional fan

An additional Miele fan can be fitted to remove excess steam via the ducting. The kit must be fitted on site.

## Liquid dispensing

The dispensing system has various components, including a DOS-S dispenser stand, DOS-G2 dispenser unit housing, DOS-P2 dispensing pumps as well as a DOS-R non-return valve.

The DOS-GP3 dispenser unit consists of one dispenser unit housing and three pre-fitted dispensing pumps.



## Multi-function modules

### MF01-RU and MF02-RU

Multi-function modules MF01-RU and MF02-RU contain components necessary for connecting the liquid dispensing system.

#### MF01-RU:

- Controls for dispensing pumps 1–6
- External stop signal connection
- Peak load cut-out connection
- Siphons can be fitted to each dispensing pump

#### MF02-RU:

- Controls for dispensing pumps 7–12
- Siphons can be fitted to each dispensing pump

# Technical data

Model number	PW 6163	PW 6243	PW 6323
<b>Design</b>			
2 door barrier model with unclean/clean sides	•	•	•
Door opening [mm]	366 x 352	593 x 352	593 x 352
HONEYCOMB DRUM*	•	•	•
<b>Performance data</b>			
Load capacity 1:10 [kg]	16	24	32
HONEYCOMB DRUM volume [l]	160	240	320
Spin speed [max. rpm]	975	975	975
g-factor	360	360	360
Residual moisture [%]	49	50	50
<b>Controls/Programmes</b>			
PROFITRONIC M, freely programmable	•	•	•
Programme places	199	199	199
Chip card reader	•	•	•
<b>Water connections in lid</b>			
Cold water, with ¾" threaded union, 2 x	•	•	•
Hot water, with ¾" threaded union, 1 x	•	•	•
Hard water, with ¾" threaded union, 2 x	•	•	•
Cold water valve for liquid detergent, 1 x	o	o	o
Dump valve	DN 70	DN 70	DN 70
<b>Electrical connection (electric heating)</b>			
Asynchronous motor with frequency converter	•	•	•
3N AC 380–415 V 50–60 Hz	•	•	•
Heater rating [kW]	15	24	30
Total connected load [kW]	18	25	31
Fuse rating [A]	3 x 35	3 x 50	3 x 63
<b>Heating methods, optional</b>			
Electric (EL)	•	•	•
Steam (D ind.)	•	•	•
Electric/Steam (EL/D dir.)	•	•	•
<b>Detergent dispensing</b>			
Dispenser drawer in front of machine	4 compartments	4 compartments	4 compartments
Multi-function module for liquid detergent	o	o	o
<b>Dimensions, weight</b>			
External dimensions H/W/D [mm]	1705/1110/870	1705/1337/870	1705/1558/870
Weight [kg]	630	820	872
<b>External finish</b>			
Machine lid Octo blue <sup>1</sup>	•	•	•
Front unclean/clean sides Octo blue <sup>1</sup>	•	•	•
Front unclean/clean sides Stainless steel	o	o	o
Sides Octo blue <sup>1</sup>	•	•	•
• supplied as standard			
o optional			
<sup>1</sup> Powder coated			
*patented: European patent ER 0 935 687			

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