

Special application  
Professional cleaning machines



# Individual solutions for cleaning industrial components



**Miele professional cleaning machines are the professional solution for cleaning and drying components from industrial manufacturing processes.**

In many fields of industrial production, cleaning and drying processes are required for a wide range of items such as circuit boards, soldering frames, metal templates, metal components, instruments, technical and optical glassware, magazines, boxes, racks etc.

**Miele professional cleaning machines provide the perfect solution for your professional cleaning requirements.**

Catering for a variety of throughputs, they enable large volumes and bulky items to be cleaned economically. Miele professional cleaning machines can accommodate up to five levels at a time, depending on the size of the items being cleaned. The cleaning quality required will vary according to several criteria (base material, type of soiling and manufacturing process). Cleaning requirements range from an **interim cleaning process** (e.g. for soldering frames) and **cleaning prior to coating** (glass substrates, drills, cutting tools), through **to particle decontamination under clean room conditions** (e.g. boxes, racks, chip trays).

**The advantages of Miele professional cleaning machines at a glance**

- Use both a fresh-water circulation and a water recovery system
- Space-saving
- Fully automatic programmes
- Reliable technology – made in Germany
- Individually programmable, password protected
- Nationwide on-site servicing available through Miele Service Department
- Low operating costs

# Typically Miele

## Application: electronics

- Unpopulated, populated or misprinted circuit boards and ceramic substrates
- Soldering frames, soldering masks and metal templates

### Types of soiling

- Milling dust, solder paste, flux residues and SMT adhesives

### Cleaning requirements:

- Before populating
- After soldering
- After printing
- Before circuit tests
- Before lacquering
- After misprinting

## Application: metal components

- Steel, stainless steel aluminium, copper, brass, diecast zinc, hard alloys

### Types of soiling

- Oil, emulsions, polishes, metal particles, lapping abrasives

### Cleaning requirements:

- Interim or final clean
- Before assembling or packing
- Before sticking, lacquering, welding, soldering
- Before setting
- Before coating (e.g. TiN and TiC)

## Application: glass and optical ware

- Coated and uncoated glass, e.g. moulded glass, safety glass, optical lenses

### Types of soiling

- Dust, glass dust, fingerprints, particles, lapping abrasives, polish, wax crayon

### Cleaning requirements:

- Interim or final clean
- Before and after coating

## Application: clean rooms

- Boxes, racks and chip trays

### Types of soiling

- Dust, particles, photosensitive resist

### Cleaning requirements:

- Particle decontamination
- Interim or final clean
- Before assembly or packing
- In clean rooms (e.g. Class 100)

## Application: plastics

- Plastic components, magazines and transport containers

### Types of soiling

- Separating agent, dust, particles, oil

### Cleaning requirements:

- Interim or final clean
- Before assembly or packing



# Flexible solutions, exceptionally simple to operate



The freely programmable PROFITRONIC controls on all Miele professional cleaning machines give maximum flexibility when programming.

Miele PROFITRONIC controls are high-performance and fully electronic. Each step of a programme is shown in the display in clear text or graphic symbols. There are 64 programme places, of which 7 are occupied by service programmes and 6 are standard cleaning programmes. Customer specific programmes are programmed during commissioning.

#### Miele PROFITRONIC controls at a glance

- Freely programmable, fully electronic controls
- 64 programme places
- Programme selector dial
- 4-line display with user navigation in clear text
- Programme selected, Programme sequence, Washing and Drying temperatures, Fault and Service prompts are all shown in the display
- Continuous monitoring of all process parameters
- Machine can be programmed directly, or by a Miele Service Technician using a PC/laptop
- Serial interface RS 232 for PC or printer connection for obtaining process documentation and for networking

# Individual cleaning programmes and water recovery

All Miele professional cleaning machines work very individually and economically, thanks to a two-part drainage system and water recovery system.

Cleaning programmes for industrial applications can consist of several process stages. For example, a batch of metal and glass substrates can be processed using an alkaline wash, an acid neutralising cycle, a rinse, a final rinse and a drying cycle.

To start a cycle, the Miele professional cleaning machine first has to be filled with either fresh water or water from a special water recycling unit. During the cycle, the water is circulated throughout the cabinet by means of rotating spray arms. Chemicals e.g. cleaning agents, neutralising agents and anti-corrosion agents are dispensed, depending on the programme.

The water may be heated up, depending on the programme. At the end of a cycle, the water will be pumped out of the machine into the drainage system, or into a suitable recovery system for recycled water.

All Miele professional cleaning machines either come with a double drain hose as standard (IR 6002), or they can be fitted with one as an optional extra (G 7823/ G 7824, G 7825/G 7826, G 7827/G 7828). The two-part drainage system means that the operator can decide whether the used water is drained away or directed into a suitable water recycling unit or disposal unit.

The IR 6002 has an additional pump fitted as standard which draws the processed water back out of the reservoir into the machine. This pump needs to be fitted to the G 7823 – G 7828 models as an optional accessory if required.

By using the appropriate accessories, the processes described below (e.g. **B** and **C**) can be combined. The system can also be used entirely on recirculation mode (recirculating chemicals and water), avoiding the need for any drainage.

The diagrams illustrate the differences between the three types of water processing:

## Process A (fresh water process)

- Fresh water intake for every phase
- Cleaning agent concentration 0.3–1%

**Advantage:** higher and more uniform standard of cleaning

## Process B (cascade process)

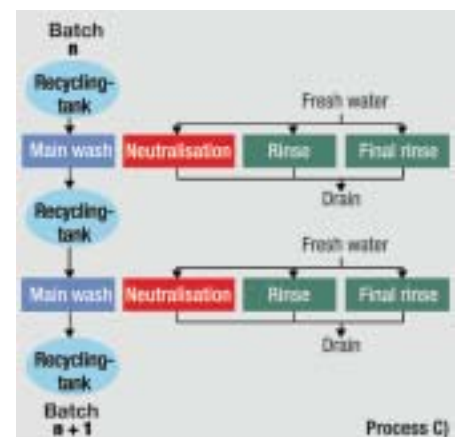
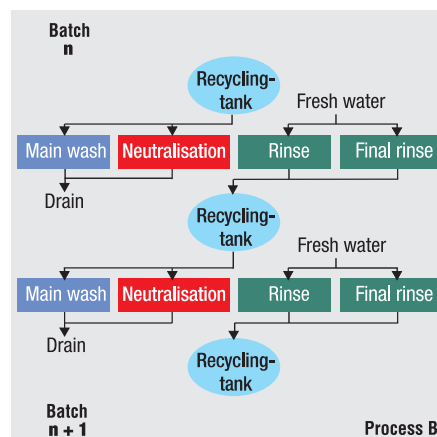
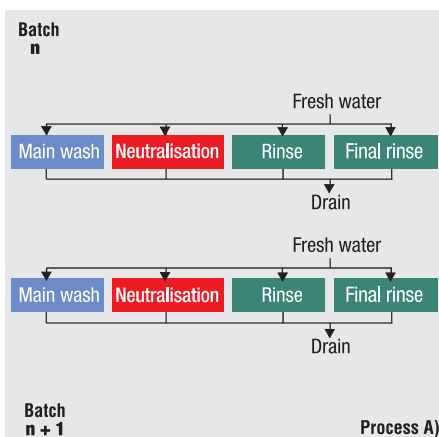
- Rinse water is recovered
- Cleaning agent concentration 0.3–1%

**Advantage:** reduces the total water consumption by 30–60%

## Process C (recirculation process)

- Cleaning water is recovered
- Cleaning agent concentration 5–30%

**Advantage:** reduces the overall consumption of cleaning agents



# The Miele professional cleaning machine IR 6002



## Professional cleaning machine IR 6002

### Design

- Front-loading free-standing machine with lid
- No baskets
- Stainless steel casing

### Controls

- Freely programmable PROFITRONIC controls
- 64 programme places, including 7 service programmes and 6 standard programmes
- Customer specific programmes are programmed during commissioning

### Features

- High quality stainless steel cabinet and spray arms
- Can be equipped for automatic mobile unit recognition
- Electric door safety lock
- Peak load cut-out
- Programme failure cut-out
- Serial interface for process documentation
- Circulation pump, max. throughput 600 l/min.

### Washing technology

- Fresh water system, max. temp. 93°C
- 2 drain pumps

- 1 pump for redirecting water back into machine
- 2 NTC probes for controlling and monitoring the temperature
- Water inlet via flow meter (tolerance < 2.5%)
- 4-stage suds filtration: flat filter, coarse filter, glass shard filter, micro fine filter

### Water connection

- 3x 170 cm inlet hoses, 1/2" with 1/3" BSP female thread
  - Cold water 1.5–10 bar (150–1000 kPa)
  - Hot water 1.5–10 bar (150–1000 kPa)
  - Demin. water 0.6–10 bar (60–1000 kPa)
- 1x DN 25 connection for water recovery
- 2x DN 22 connections for drain/machine

### Electrical connection

- 3 N AC 400 V 50 Hz
- 1.8 m, 5 x 2.5 mm<sup>2</sup> connection cable
- Heater rating 9 kW
- Total connected load 10.2 kW
- Fuse rating 3 x 16 A

### Dispenser pumps

- 1x DOS 3 dispenser pump (bellows) for liquid acidic agents
- 1x DOS 1 dispenser pump (bellows) for liquid cleaning agent
- Chemical containers not supplied

### Optional dispenser pumps

- DOS 2 dispensing pump for liquid acidic additives/rinsing agent
- DOS 4 dispensing pump for liquid cleaning agents/chemical disinfectants

### Water softener

- Large capacity water softener for cold and hot water to 70°C

### Drying unit

- Preliminary filter, EU 4
- Particulate filter, S-class HEPA filter, EU 13
- Connected load: Fan 0.3 kW, Heating element 2.3 kW, Total 2.6 kW
- Air throughput 55 m<sup>3</sup>/h
- Temperature programmable from 60–115°C in 1°C steps
- Time programmable from 1–240 min. in 1 min. steps

### Dimensions/weight

- External dimensions H 1175/W 900/D 700 mm
- Internal dimensions H 500/W 535/D 500 mm
- Loading height 585 mm
- Weight (empty) 192 kg

### Test certificates awarded

- VDE, EMV, DVGW, IP X1, CE

For technical data, see p.12

# Baskets and inserts for Professional cleaning machine IR 6002



## O 500 upper basket

- For 37 Euroboards
- 40 holders, H 70 mm
- Clearance: 180 mm
- Built-in spray arm
- H 241, W 531, D 475 mm



## U 500 lower basket

- For 39 Euroboards
- 39 holders, H 70 mm
- Clearance when used in combination with the following upper baskets:
  - 188/1 approx. 266 mm +/- 20 mm
  - 500 approx. 240 mm +/- 25 mm
- H 93, W 535, D 516 mm



## O 188/1 upper basket / carrier

- Open front
- For various inserts
- Clearance: 165 mm +/- 20 mm
- Built-in spray arm
- H 215, W 531, D 475 mm



## U 874/1 lower basket / carrier

- Open front
- For various inserts
- Clearance when used in combination with the following upper baskets:
  - 188/1 approx. 266 mm +/- 20 mm
  - 500 approx. 240 mm +/- 25 mm
- H 50, W 534, D 515 mm



## U 501 lower basket

- As U 500, except –
- 39 holders, H 130 mm
- H 193, W 535, D 516 mm

## E 500 insert 1/1

- Insert for U 874/1 lower basket
- For 8 soldering frames
- 8 sections, 53 mm apart
- H 300, B 530, D 53 mm



## E 439/1 mobile unit

- With 3 or 4 levels, for various inserts
- 2 built-in spray arms
- 2nd level from the bottom removable
- Clearance (level 1 = lowest level)
  - Level 1: H 76, W 488, D 510 mm (without 2nd level, H 160 mm)
  - Level 2: H 74, W 510, D 510 mm
  - Level 3: H 94, W 520, D 475 mm
  - Level 4: H 95, W 490, D 460 mm
- Magnetic strip ML/2 for automatic mobile unit recognition

Illustration shows E 439/1 with E 142 mesh trays



## E 404/1 mobile unit

- Holds 38 components in 3 rows
- Injector system for internal cleaning of long hollow instruments



## E 492 insert 1/2

- 9 holders, H 86 mm, 49 mm apart
- H 120, W 256, D 86 mm

# Accessories for Water softener and Aqua purificator



## G 7897 Aqua Soft System

### Water softener

- For continuous supply of soft water in hardness ranges up to 40°d (approx. 7.2 mmol/l)
- **Performance:** max. 20 l/min, or 30 l/min for short periods
- **Design:** Plastic casing, free-standing on castors, filled through the top
- **Controls:** Quantity controlled, dual tank system
- **Features:**
  - 2x 6 l resin cartridges
  - 1 x 27 kg salt reservoir
- **Technical data:** Operates without electricity
- **Water connection:**
  - 2 pressure hoses, approx. 2 m long with 3/4" threaded union –
  - 1 for hot/cold water connection, max. 65°C
  - Operating pressure 2.5-7 bar:
    - 2.5 bar on machines without a water softener
    - 3.0 bar on machines with Profi Monobloc water softener
    - 3.5 bar on machines with large capacity water softener
  - 1 for connection between softener and machine
  - 2 DN 22 drain hoses, approx. 1.5 m long, max. delivery height 400 mm –
  - 1 for recycled water
  - 1 for overflow
  - An odour trap and an approved non-return valve must be fitted on site
- **External dimensions:**
  - H 715, W 360, D 360 mm



## G 7895/1 Aqua purificator

### Cabinet unit for E310/318

- Cabinet for two E 310 or E 318 water demineralisation cartridges with conductivity meter, generally recommended quality for final rinse < 15 µS/cm
- **Design:** Front loading cabinet, angled fascia, free-standing, can be built under Casing stainless steel
- **Electrical connection:**
  - AC 230 V 50 Hz
- **Water connection:**
  - 2 pressure hoses, approx. 1.2 m long with 3/4" BSP female threaded union –
  - 1 for cold water connection to cartridge, 2.5-10 bar
  - 1 for connection between cartridge and machine (pressure loss approx. 1 bar for each cartridge)
- **External dimensions:**
  - H 850 (820), W 300, D 600 mm





### LWM module C

#### Conductivity meter

- For water demineralisation cartridges E 310/E 318, H 118, W 235, D 110 mm, 0-20  $\mu\text{S}/\text{cm}$
- Electrical connection: AC 230 V 50 Hz
- 2 hoses, 1.9 m long with  $\frac{3}{4}$ " threaded union (supplied)
- Conductivity to approx.:  
1.5  $\mu\text{S}/\text{cm}$  for tridistillate  
2.5  $\mu\text{S}/\text{cm}$  for bidistillate  
20.0  $\mu\text{S}/\text{cm}$  for monodistillate



### E 313 wall mounting

- For manual dispensing of aqua purificata, pressure proof to 10 bar, complete with 150 cm long pressure hose



### E 314 stand

- For manual dispensing of aqua purificata, pressure proof to 10 bar, complete with 150 cm pressure hose



### E 310 water demineralisation cartridge/full

- Pressure-proof stainless steel cartridge, with vent and pressure relief valve for 2.5-10 bar, containing 20 l mixed resin which can be reactivated,  $\varnothing$  240 mm, H 570 mm
- The capacity depends on the total mineral content of the untreated water and the max. accepted conductivity

#### Max. conductivity values

5 $\mu\text{S}/\text{cm}$		10 $\mu\text{S}/\text{cm}$
5° dH	4,250 litres	4,500 litres
10° dH	2,125 litres	2,250 litres
15° dH	1,420 litres	1,500 litres
20° dH	1,070 litres	1,125 litres
25° dH	850 litres	950 litres
30° dH	710 litres	750 litres

The figures given depend on reference values.

### E 318 water demineralisation cartridge/empty

- Pressure-proof stainless steel cartridge, with vent and pressure release valve for 2.5-10 bar, for 20 litres E 315 disposable resin,  $\varnothing$  240 mm, H 570 mm

### E 315 disposable resin 20 l

- Vacuum packed in 2 x 10 litre plastic bags, includes filtering bag for use when exchanging bags, packed in box, 20 litres mixed resin for E 318 water demineralisation cartridge

### E 316 refill set for disposable resin

- Plastic container with lid and funnel, storage capacity 30 litres disposable resin

# Miele professional cleaning machines in a choice of sizes



## Professional cleaning machine G 7823

- Front-loading with single drop-down door
- **Internal cabinet dimensions**  
**H 510, W 530, D 620 mm**
- 2 circulation pumps, max. throughput. 300/500 l/min
- 2 dispensing pumps as standard, option of 2 further pumps
- Mobile unit with 1-4 levels (optional)
- Width of machine 900 mm
- Freely programmable PROFITRONIC controls

## Professional cleaning machine G 7824

- Same as G 7823, except
- Through feed barrier machine with 2 drop-down doors

**Cabinet volume 167.6 litres**



## Professional cleaning machine G 7825

- Front-loading with single drop-down door
- **Internal cabinet dimensions**  
**H 683, W 541, D 617 mm**
- 2 circulation pumps, max. throughput. 300/400 l/min
- 2 dispensing pumps as standard, option of 2 further pumps
- Mobile unit with 2-5 levels (optional)
- Width of machine 900 mm
- Freely programmable PROFITRONIC controls

## Professional cleaning machine G 7826

- Same as G 7825, except –
- Through feed barrier machine with 2 drop-down doors

**Cabinet volume 228 litres**



## Professional cleaning machine G 7827

- Front-loading with single lift-up door
- **Internal cabinet dimensions**  
**H 675, W 650, D 800 mm**
- 2 circulation pumps, max. throughput 400/600 l/min
- 4 dispensing pumps as standard
- Mobile unit with 2-5 levels (optional accessory)
- Width of machine 1150 mm
- Freely programmable PROFITRONIC controls

## Professional cleaning machine G 7828

- Same as G 7827, except –
- Through feed barrier machine with 2 lift-up doors

**Cabinet volume 351 litres**

# Universal mobile units for Miele professional cleaning machines G 7823 – G 7828

Professional cleaning machines	Mobile units with 2 levels	Mobile units with 3 levels	Mobile units with 4 levels	Mobile units with 5 levels
G 7823/G 7824	<b>E 555</b> H 298, W 530, D 645 mm Clearance from below: 210/219 mm	<b>E 524</b> H 390, W 530, D 645 mm Clearance from below: 125/125/125 mm  E 525 (extendable to 4 levels) H 298, W 530, T 645 mm Clearance from below: 80/80/219 mm	<b>E 525 with E 702</b> H 458, W 530, D 645 mm Clearance from below: 80/80/90/80 mm	
G 7825/ G 7826  All mobile units have magnetic strip for automatic mobile unit recognition and connection for hot air drying	<b>E 775-2</b> H 400, W 530, D 600 mm Clearance from below: H 304, W 482, D 590 mm H 290, W 488, D 546 mm	<b>E 735-3</b> H 552, W 530, D 600 mm Clearance from below: H 203, W 482, D 590 mm H 203, W 488, D 546 mm H 133, W 488, D 546 mm	<b>E 701-4</b> H 461, W 530, D 600 mm Clearance from below: H 87, W 482, D 590 mm H 87, W 488, D 546 mm H 87, W 488, D 546 mm H 223, W 488, D 546 mm	<b>E 701-4 with E 702</b> H 461, W 530, D 600 mm Clearance from below: H 87, W 482, D 590 mm H 87, W 488, D 546 mm H 87, W 488, D 546 mm H 87, W 488, D 546 mm H 81, W 488, D 546 mm
G 7827/G 7828  All mobile units have magnetic strip for automatic mobile unit recognition and connection for hot air drying	<b>E 975-2</b> H 427, W 640, D 790 mm Clearance from below: H 297, W 592, D 780 mm H 290, W 592, D 780 mm	<b>E 935-3</b> H 524, W 640, D 790 mm Clearance from below: H 193, W 590, D 780 mm H 193, W 590, D 780 mm H 153, W 590, D 780 mm	<b>E 900-4</b> H 557, W 640, D 790 mm Clearance from below: H 112.5, W 593, D 780 mm H 112.5, W 593, D 780 mm H 112.5, W 593, D 780 mm H 114, W 593, D 780 mm	<b>E900-5</b> H 605, W 640, D 790 mm Clearance from below: H 80, W 593, D 780 mm H 80, W 593, D 780 mm H 80, W 593, D 780 mm H 80, W 593, D 780 mm H 73, W 593, D 780 mm



#### E 550 mobile unit

- For G 7823/G 7824
- For inserts on one level



#### E 735-3 mobile unit

- For G 7825/G 7826
- For inserts on 3 levels
- 2 built-in spray arms



#### E 900-5 mobile unit

- For G 7827/G 7828
- For inserts on 5 levels
- 4 built-in spray arms

Special units can be made to order to meet individual requirements

# Technical data

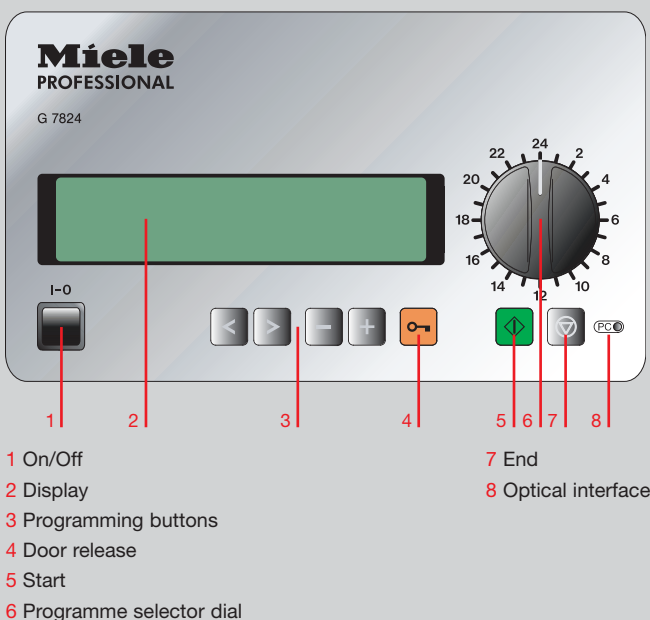
## IR 6002

Professional cleaning machine	IR 6002
Front loader with drop-down door, without baskets	●
Free-standing with lid	●
Fresh water system, max. temperature 93°C	●
Circulation pump [max. throughput. l/min]	600
<b>Controls/programmes</b>	
Freely programmable PROFITRONIC	●
Electrical safety lock	●
Peak load cut-out	●
Serial interface for process documentation	●
Sensors for automatic mobile unit recognition	Available to order from Miele
<b>Plumbing</b>	
1x cold water connection, flow pressure 1.5–10 bar (150-1000 kPa)	●
1x hot water connection, flow pressure 1.5–10 bar (150-1000 kPa)	●
1x demin. water connection, flow pressure 0.6–10 bar (60-1000 kPa)	●
1x DN 25 connection for water recovery	●
3 inlet hoses approx. 1.7 m, 1/2" with 3/4" threaded union	●
2x DN 22 drain pumps, delivery head height 100 cm	●
2x DN 22 drain hoses from machine	●
1x pump for recovery water	●
<b>Electrical connection</b>	
3 N AC 400 V 50 Hz, connection cable	
approx. 1.8 m, 5 x 2.5 mm <sup>2</sup>	●
Heater rating [kW]	9.0
Circulation pump [kW]	1.2
Total connected load [kW]	10.2
Fuse rating	3 x 16
<b>Dispenser pumps</b>	
1x DOS 3 dispenser pump for liquid acidic agents	● (bellows pump)
1x DOS 1 dispenser pump for liquid cleaning agents	● (bellows pump)
<b>Optional dispenser pumps</b>	
DOS 2 dispenser pump for liquid acidic agents/rinsing agent	●
DOS 4 dispenser pump for liquid cleaning agents/disinfecting agents	●
<b>Water softener</b>	
Large capacity for cold and hot water to 70°C	●
<b>Steam condenser</b>	
Rear vent	●
<b>Drying unit / radial fan</b>	
Fan [kW]	0.3
Heater rating [kW]	2.3
Total connected load [kW]	2.6
Air throughput [m <sup>3</sup> /h]	55
Temperature programmable in 1°C steps [°C]	60-115
Time programmable in 1-minute steps [min.]	1-240
Preliminary filter EU 4, filter rating > 95%, filter life 100 h	●
Particulate filter, S-Class HEPA filter, EU 13, filter rating 99.992% (according to DIN standard 24184), filter life 500 h	●
<b>Dimensions/weight</b>	
External dimensions H/W/D [mm]	1175/900/700
Internal cabinet dimensions H/W/D [mm]	500/535/500
Internal cabinet capacity [l]	133.8
Weight [kg]	192
<b>Casing</b>	
Stainless steel (AE)	●
<b>Test certificates awarded</b>	
VDE, EMV, DVGW, IP x1, CE	●





Professional cleaning machine	G 7823 (1 door)	G 7825 (1 door)	G 7827 (1 door)
	G 7824 (2 door)	G 7826 (2 door)	G 7828 (2 door)
<b>Dispenser pumps</b>			
1x DOS 10/30 dispenser pump for liquid acidic agents	●	●	–
1x DOS 60/30 dispenser pump for liquid detergent	●	●	–
4 bellows pumps for cleaning, disinfecting and rinsing agents	–	–	●
Comfort mat for 2x 5 l containers	●	–	–
Comfort mat for 2x 10 l containers	–	●	–
4x 10 l containers	–	–	●
<b>Optional dispenser pumps</b>			
1x DOS 10/30 dispenser pump for liquid agents	●	●	–
1x DOS 60/30 dispenser pump for disinfecting agents	●	●	–
<b>Drying unit</b>			
Fan [kW]	0.9	1.8	–
Heater rating [kW]	3.6	7.2	–
Total connected load [kW]	4.5	9	–
Air throughput [m³/h]	125	250	–
Temperature programmable in 1°C steps [°C]	60–115	60–115	–
Time programmable in 1-minute steps [min.]	1–240	1–240	–
Preliminary filter, EU 4, filter rating > 95%, filter life 200 h	1x	–	–
Particulate filter, S-Class HEPA filter, EU 13, filter rating 99.992% (according to DIN standard 24184), filter life 500 h	2x	–	–
<b>Dimensions/weight</b>			
External dimensions H incl. plinth/sump [mm] and MAV H/W/D	2118/900/770	1975	1660
External dimensions H incl. frame with DK [mm]	–	2595	–
External dimensions H incl. frame with dryer unit [mm]	–	–	2420
External dimensions W/D [mm]	900/750	900/750	1150/870
Internal cabinet dimensions H/W/D [mm]	510/530/620	683/541/617	675/650/800
Loading height above floor (incl. plinth)	865	850	850
Weight [kg]	360	360	408/386
<b>Casing</b>			
Stainless steel (AE)	●	●	●
<b>Test certificates awarded</b>			
VDE, VDE-EMV, DVGW, IP x1, MDD CE 0366	●	–	●
VDE, VDE-EMV, DVGW, MDD CE 0366	–	●	–
Cabinet volume [l]	167.6	228	351



#### PROFITRONIC

- Freely programmable, fully electronic controls
- 64 programme places, of which 12 are standard cleaning programmes and 8 are service programmes
- 44 customisable programme places
- Continuous monitoring of all process parameters
- 4-line display with user navigation in clear text
- Programme selected, Programme sequence, Washing and Drying temperatures, Fault and Service prompts are all shown in the display
- Programme selection using rotary dial
- Machine can be programmed directly or by a Miele Service Technician using a PC/laptop
- Serial interface RS 232 for PC or printer connection for obtaining process documentation and for networking

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