

BÖÖWE

*j*Line



BÖWE iLine PERC & Multisolvent® Dry Cleaning Machines

The new iLine series of dry cleaning machines sets a new standard in the range of products BÖWE Textile Cleaning can offer to customers worldwide. This new range combines and shares the same technology used in the well-known PremiumLine but taking into account the cost effective level these machines fit in without making compromises.

Thanks to this new design that uses a mix of implemented components used in other series (e.g. loading door, round distillation made in stainless steel AISI 316, BÖWE drystat drying controller, etc..) and re-newed unit blocks (e.g. conical semi-auto cleaning water separator, slanted round air duct and new tanks) the iLine is a great solutions for many of our customers.

Obviously high degree of reliability and durability has been taken into consideration from the BÖWE engineers and even in these machines high-quality materials combined with perfected technology are part of the standard. All machines are equipped with FAG bearings and Viton® seals, stainless steel drums and pipes, BÖWE Kontiflex oversize condensers made in stainless steel AISI 316, accessible refrigeration unit with Copeland scroll compressors and German volume drying sensor. (BÖWE drystat), cataphoresic coated cooler and back plate.

- ⊕ Excellent cleaning results
- ⊕ Machines available in Perc (Pi models) or Multisolvent® (Mi models)
- ⊕ Great care of garments for significantly longer textile life
- ⊕ Lower machinery cost - cleaning, extraction and drying in one operation
- ⊕ No trouble with special finishing like waterproofing, flame retardant finishes etc.
- ⊕ Cooling water does not get into contact with solvent
- ⊕ Low operating cost
- ⊕ Low personnel cost
- ⊕ Easy maintenance thanks to large openings, lint filters and relocated drive motor and cooling unit



BÖWE key features



Engineering

- ⊕ Perc to Multisolvant® conversion option
- ⊕ Stainless steel piping
- ⊕ 316 Ti stainless steel with Titanium
- ⊕ Round shapes design
- ⊕ Aluminium casted loading door
- ⊕ Touch Control with large characters display (e.g. Remaining cycle time)
- ⊕ New innovative touch control
- ⊕ Single and Multi maintenance programs
- ⊕ Designed by Jacob Jensen



Efficiency

- ⊕ Special Eco rotation disc filters with same density
- ⊕ Solvent cooling via refrigeration
- ⊕ Coated button trap basket
- ⊕ BÖWE Drystat volume controlled drying



Guaranteed quality

- ⊕ Viton® gaskets
- ⊕ Viton® flaps
- ⊕ 5 years warranty on condensers and flaps
- ⊕ 12 months parts warranty

BÖWE WideLine & SlimLine



When developing the iLine BÖWE primarily had one issue in mind: The limited space in drycleaning shops. All machines are available as SlimLine (12-18kg) and as WideLine, so you can use your individual space optimally. Just what you need for your shop: a machine that will fit through your front door with the measurement now below 2.050 mm height.

BÖWE iLine MACHINES with loading capacities from 12-18kg are available in PERC and Multisolvent® versions. Easy installation, compact design, easily comply with the strict requirements of environmental regulations

READY FOR VARIOUS KINDS OF USE

The machines are designed in a 3-tank-version and also with an optional second Eco-filter and an additional carbon filter. Thus, you are extremely flexible, especially when cleaning different types of garments.



BÖWE Drycleaning Machines

iControl



iControl

Free programmable multi language control with colour touch screen display. The device is ready for pc software connection with built-in USB port that enables the cleaning programs to be copied onto an U disk.

Cleaning Programs

Large colour Touch Display

IMS Maintenance System



Eco friendly

Take care of yourself, your employees and also the environment – with the BÖWE iLine you will easily comply with the strict requirements of environmental regulations.

ROTATION FILTER



ECO-FILTER AND SAFETY

The standard filtering system in most iLine machines is a rotation spin filtering unit that uses special eco filters. In each unit are some of these special BÖWE filter discs made in PETEX material that has a filtration density of 30 µm and a strong supporting tissue made inside the disc. The BÖWE Eco filter discs are made in Switzerland with a patent and carries the name BÖWE.

The efficient Eco-filter works with the proven multiple disc extraction technology. The filter system is monitored via the computer and can be maintained easily and fully automatically. The robust safety trough is an impermeable barrier protecting the soil and ground water from the solvent.

DISTILLATION SYSTEM



The round shape with no corners or edges at the heating surface allows residue-free emptying of all sludge. In conjunction with the distillation rinsing sloped bottom, the heating surface and the sight glass are kept clean and sludge doesn't get burned into the heating surface.

SELF-CLEANING TANK



All the BÖWE iLine machines are delivered standard in a 3 tank version. With this solution the operator is extremely flexible when having to clean different types of garments.

3 SELF-CLEANING SOLVENT TANKS

The geometrical shape and sloping bottom end of the tanks make sure the solvent is collected from the lowest dip point, allowing no deposits.

CAPACITIVE SENSORS



The capacitive drying sensors like the BÖWE Drystat for drying enable the i-control to determine the effective loads of garments present into the machine regulating consequently the optimal cooling water, steam or energy levels in general shortening the cycles and making the machine energy efficient at all times.

BÖWE PERC WideLine

H 2200 mm (height installed)

H 2050 mm

MACHINE WEIGHT (without solvent)

Pi 240: 1340 kg

Pi 300: 1385 kg

Pi 360: 1430 kg

1800 mm

DEPTH

Pi 240: 1228 mm

Pi 300: 1338 mm

Pi 360: 1450 mm

PERC SlimLine

Pi 240

Drum volume	240 L
Loading capacity	12 kg
Solvent tank 1	100 L
Solvent tank 2	100 L
Solvent tank 3	160 L



Pi 300

Drum volume	300 L
Loading capacity	15 kg
Solvent tank 1	125 L
Solvent tank 2	125 L
Solvent tank 3	180 L



Pi 360

Drum volume	360 L
Loading capacity	18 kg
Solvent tank 1	145 L
Solvent tank 2	145 L
Solvent tank 3	210 L



MACHINE WEIGHT (without solvent)

Pi 240: 1310 kg

Pi 300: 1355 kg

Pi 360: 1400 kg

2200 mm (Height installed)

2050 mm

DEPTH

Mi 240: 2028 mm

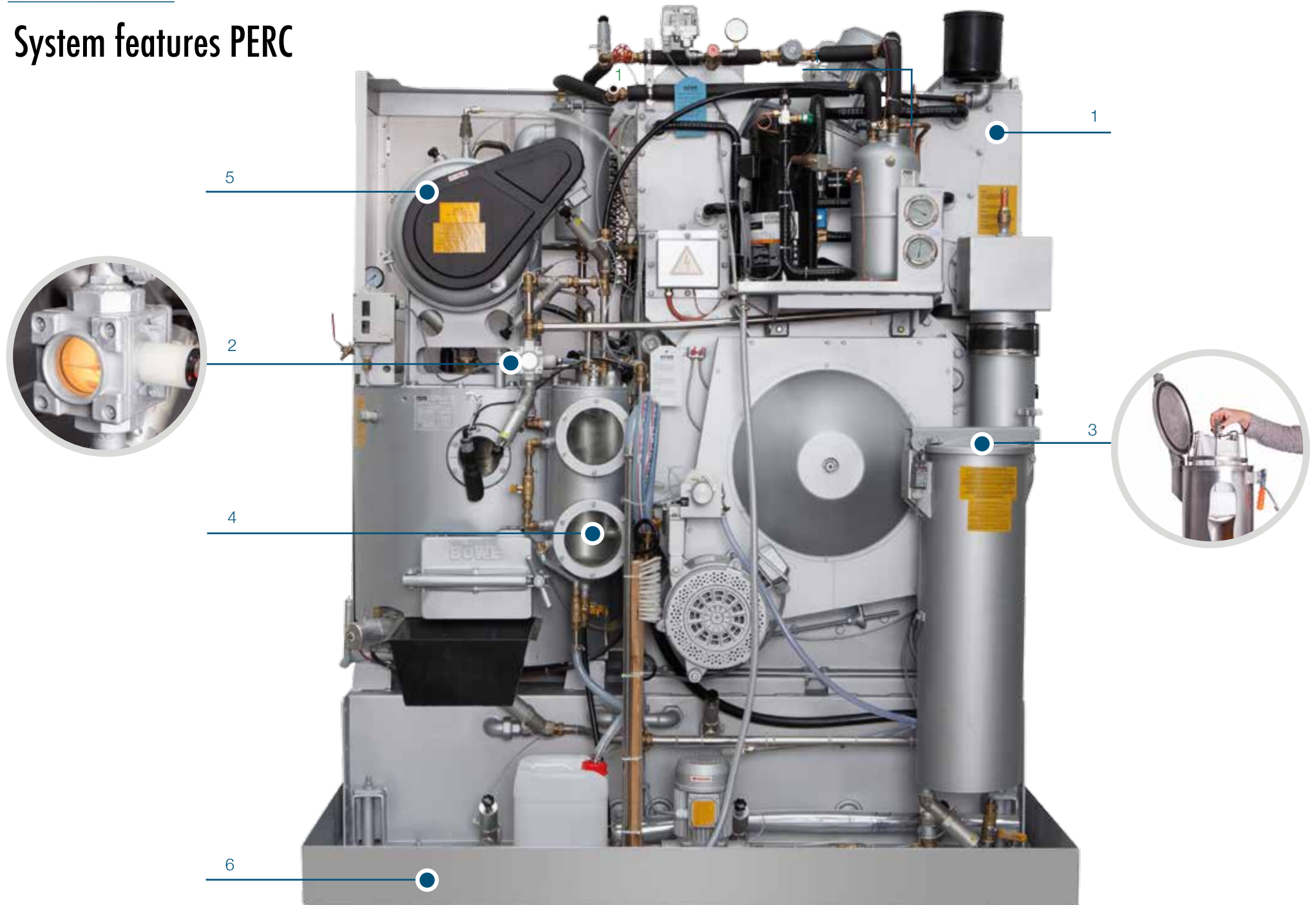
Mi 300: 2138 mm

Mi 360: 2260 mm

Housing width 1095 mm



System features PERC



System features

1	⊕ Stainless steel recovery unit with optimized flow and aerodynamic design
2	<ul style="list-style-type: none"> ⊕ Stainless steel drum and pipes ⊕ FAG bearings and Viton® seals ⊕ Round and sloping distillation ⊕ Oversized BÖWE Kontiflex condenser made in stainless steel AISI 316 ⊕ Frequency inverter (cleaning r.p.m. 35 and extraction r.p.m – 500) ⊕ Power Drying System with BÖWE Drystat volume controlled drying sensor
3	⊕ Large button trap and lint filter
4	<ul style="list-style-type: none"> ⊕ Accessible refrigeration unit with Copeland scroll compressor and heat recovery ⊕ Gentle drying and cool down via refrigeration valves ⊕ Thermostatically controlled still base and chamber heating ⊕ Cataphoresic back plate coating
5	⊕ Conical water separator made in stainless steel with big sight glasses
6	⊕ Single or double eco extraction spin filter discs (17 BÖWE special discs)
6	⊕ Built-in strong solvent safety trough with underlay rail

BÖWE iLine Multisolvent® Dry Cleaning Machines



ONE MACHINE MANY SOLVENTS OPTIONS

Thanks to the dedicated different solvent setting available in the iControl it is possible to run the latest Class A III chlorine-free solvents with flash point above 55 °C. By using the parts kit you can convert your BÖWE iLine machine from PERC to Multisolvent®.

In several countries BÖWE iLine machines work with many alternative solvents. By efficient drying, round air duct, dynamic drum perforation and cataphoresis coating a BÖWE Mi machine is suited to use solvents lighter than water. In iLine Multisolvent® machines change to another solvent needs only a software update.

EBS®: Thanks to the variable drive the increased extraction speed in Multisolvent® machines reaches 600 rpm. The Electronic Balancing System avoids electronically imbalances during the entire extraction phase determining the correct acceleration ramp.

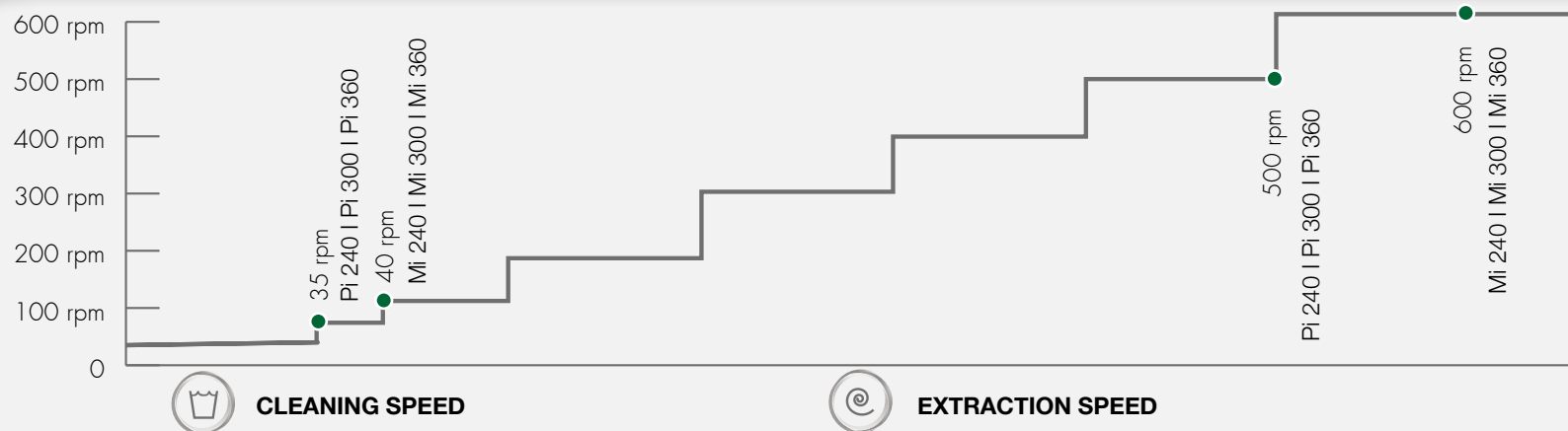


SOLVENT

With our P2M-kit, a BÖWE Perc machine can be converted to a BÖWE Multisolvent® machine. After the conversion you can use solvents like

- ⊕ Hydro Carbon HC
- ⊕ Silicone GreenEarth® D5
- ⊕ Solvon K4
- ⊕ HIGLO
- ⊕ Intense
- ⊕ GenX
- ⊕ SENSENE

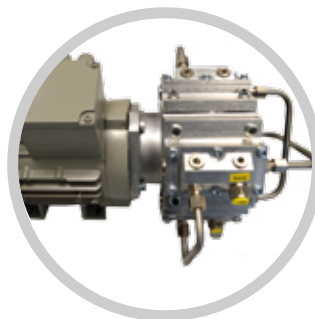
and more to come





ROUND CONICAL SHAPED WATER SEPARATOR

The round water separator and the post-water separator is made in stainless steel with big sight glasses. Thanks to the conical round shape design perfect maintenance and comfort are granted.



VACUUM PUMP

In Mi-series machines BÖWE is using very high performance vacuum pumps that are designed, engineered and tested in Germany to provide the maximum results when using Class IIIA alternative solvents. The robust construction and features like the oil-free lubrication working chamber and the low noise and minimal vibration set today a very high standard in MulitSolvent® dry cleaning.

VARIABLE SPEED DRIVE AND EBS®

We have increased the extraction speed of the Multisolvent® machines. Extraction is now done at a speed of up to 600 rpm as a standard.

The BÖWE Multisolvent® machines are equipped with a variable speed drive and EBS® (Electronic Balancing System) as standard, so imbalances during extraction are avoided electronically. You can perform extraction without any problems, even if the machine is not fully loaded. The variable speed drive with its infinitely variable speed control provides for a gentle cleaning cycle that can be individually adjusted for any type of garments.

BÖWE Multisolvent® WideLine

H 2200 mm (Height installed)

H 2050 mm

MACHINE WEIGHT (without solvent)

Mi 240: 1155 kg

Mi 300: 1255 kg

Mi 360: 1355 kg

DEPTH

Mi 240: 1228 mm

Mi 300: 1338 mm

Mi 360: 1450 mm

1800 mm

Mi240

Drum volume	240 L
Loading capacity	12 kg
Solvent tank 1	100 L
Solvent tank 2	100 L
Solvent tank 3	160 L



Mi300

Drum volume	300 L
Loading capacity	15 kg
Solvent tank 1	125 L
Solvent tank 2	125 L
Solvent tank 3	180 L



Mi360

Drum volume	360 L
Loading capacity	18 kg
Solvent tank 1	145 L
Solvent tank 2	145 L
Solvent tank 3	210 L



electric heating



steam heating



BÖWE Multisolvent® SlimLine

Mi240

Drum volume	240 L
Loading capacity	12 kg
Solvent tank 1	100 L
Solvent tank 2	100 L
Solvent tank 3	160 L



Mi300

Drum volume	300 L
Loading capacity	15 kg
Solvent tank 1	125 L
Solvent tank 2	125 L
Solvent tank 3	180 L



Mi360

Drum volume	360 L
Loading capacity	18 kg
Solvent tank 1	145 L
Solvent tank 2	145 L
Solvent tank 3	215 L



MACHINE WEIGHT (without solvent)

Mi 240: 1100 kg

Mi 300: 1155 kg

Mi 360: 1325 kg

H 2050 mm

Housing width
1095 mm



Width 1095 mm

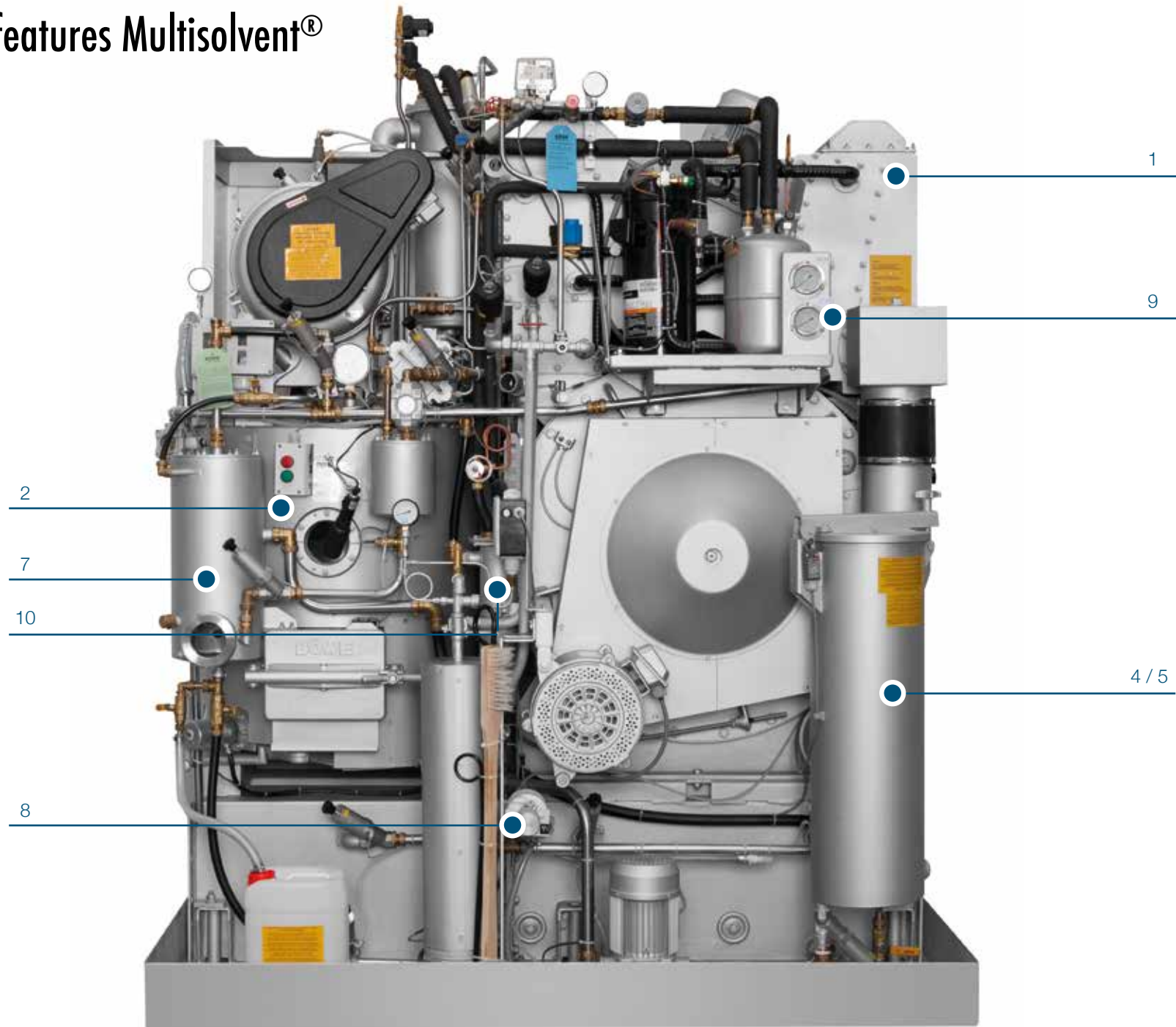
DEPTH

Mi 240: 2028 mm

Mi 300: 2138 mm

Mi 360: 2260 mm

System features Multisolvent®



System features		Electronic Balancing System (EBS) reduces unbalances caused by garments which are spread as best possible by an electronic throw ramp
		Stainless Steel drum
	1	Round recovery section made of stainless steel, with flow optimized aerodynamic design and cleaning opening, optimum interaction between recovery section, fan, refrigeration unit and cage perforation. Cleaning opening for an easier control and cleaning of the cooling unit.
	2	Round distillation , ascending pipe and big condenser made of special stainless steel (AISI 316 Ti) Highest quality stainless steel AISI 316 Ti (Titanium) used for distillation and ascending pipe. This grade is essentially a standard carbon 316 type with titanium stabilisation. The addition of titanium is made to reduce the risk of intergranular corrosion. Most competitors use the low-grade 316 L or 304 for the distillation and partly carbon steel for the ascending pipe.
	3	SuperDry ; drying time controller by volume measurement. Combination of temperature and volume measurement guarantees optimum drying results regardless of kind and quantity of garments
	4	Round button trap made of stainless steel and large lint filter combined in one maintenance opening easy to maintain, usually only once a day due to the large filter surface by a special format of the lint filter bag.
	5	Lint drying in the button trap. No solvent exposure to operator or environment during maintenance.
	6	Gentle drying and cooldown via refrigeration valves. Highest concern for most delicate fabrics in special programs. Bypassing the preheater without recovery section flaps, the best cool down effect of the garments is achieved, and the garments leave the machine wrinkle-free.
	7	Round water separator made of stainless steel with large sight glass mandatory with DIN ISO 8230; additionally better separation of solvent and water; self-cleaning by conical shape and rinsing pipes to avoid manual cleaning in Multisolvent® machines and odour.
	8	Dosing unit , precision controlled, infinitely variable pump for dosing of additives.
	9	High and low pressure gauge for refrigeration unit to easily read off the operating condition of the refrigeration unit and adjust the condensate pressure.
	10	Solvent cooling system via refrigeration

Extra comfort options

EXTRA AVAILABLE OPTIONS ON DEMAND

- ⊕ SlimLine (distillation behind the machine unit)
- ⊕ 2nd Eco extraction filter
- ⊕ 2nd dosing unit SPP 1
- ⊕ Overfill preventer for distillation (EN ISO 8230)
- ⊕ Spraymatic SPP 2
- ⊕ Emission free distillation rake out system (without barrel)
- ⊕ Stainless steel (316Ti) solvent tanks
- ⊕ Loading door venting
- ⊕ U/connect Dry Cleaning management
- ⊕ Adsorption filter and cartridge
- ⊕ USB terminal software
- ⊕ Adsorption unit SLIMSORBA (Perc machines only)

P M

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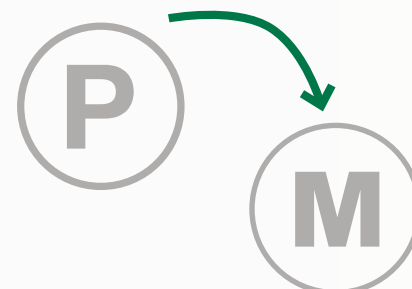
U CONNECT



SLIMSORBA



MULTISOLVENT® - EASY CONVERSION TO OTHER SOLVENTS



Multisolvent® Mi 240F /Mi 300F / Mi 360F SlimLine

BÖWE MULTISOLVENT® SLIMLINE WITHOUT DISTILLATION

- ⊕ 2 cartridge filters
- ⊕ 2 solvent pumps, 2 complete separated solvent circuits
- ⊕ 2 solvent tanks





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