

Schulthess Spirit TopLine

## Washing and drying like the professionals



Washing machines with 6 / 7 kg capacity  
Dryer with 7 kg capacity

Swiss Made 

Stay selective in your choice



**SCHULTHESS**

# Typical Swiss quality: durable, reliable, economical



You find Schulthess machines all over Europe. They are used everywhere where washing machines and dryers have to satisfy professional demands. These areas include:

- Communal laundry rooms, student halls of residences
- Old people's homes, nursing homes
- Hotels, guest houses, catering operations
- Commercial cleaning operations
- Commercial operations such as bakeries, butchers, hairdressing salons, garages
- Laundries and dry cleaners
- Sports clubs, fitness/wellness centres and saunas
- Laundrettes and campsites

Laundry solutions that are used in these types of environments have to work reliably and be extremely easy to operate. They have to carry out the work economically and efficiently. When it comes to these qualities Schulthess leaves nothing to chance.

## **A good investment in every respect**

It is always worthwhile investing in the renowned Schulthess quality and durability. For generations our products have carried the label "SWISS MADE". The entire Spirit TopLine series for the European market is manufactured in Switzerland with state-of-the-art production technologies and maximum reliability. And this is not going to change. Our company does of course hold the quality management ISO 9001 and the environmental management ISO 14001 certifications. Schulthess machines already take environmental issues into account in the production process and not just during the wash and drying cycles.

The trust that our customers put in the name Schulthess worldwide gives us an incentive to constantly develop the product range. An excellent example of this is the completely redesigned Spirit TopLine product series.

## **The large graphic display:**

### **Symbol of maximum operating convenience**

The Spirit TopLine is designed for perfect operation in every respect. The two line graphic display stands out in the smooth and clear operating surface. It is the distinguishing feature of the new Spirit TopLine washing machines and dryers. Behind it is an intelligent, newly developed machine control system.

The graphic display guarantees easy operation, clear programme selection and clear communication. It helps the user by providing very clear instructions and information about all phases of the wash process. There are also buttons which are clearly arranged. They monitor the wash cycle sequence and feature self-explanatory symbols which relate to the standard fabric care codes.

This characteristic operating convenience creates the optimum conditions for smooth operating processes in the laundry room without any training costs.



## **Competent in 17 languages**

Schulthess understands the needs of its customers and it speaks their language. For example, the graphic display on the Spirit TopLine washing machines and dryers can communicate with its users in 17 different languages: German, Italian, French, English, Portuguese, Spanish, Turkish, Rhaeto-Romanic, Serbo-Croat, Russian, Dutch, Swedish, Norwegian, Danish, Finnish, Slovenian and Polish.



# Wash more efficiently

## Special programmes in series production

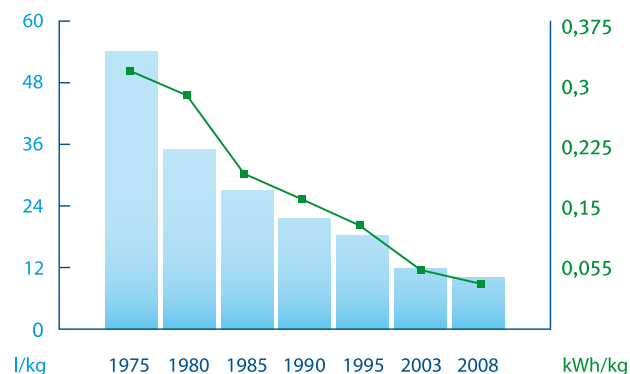
The Spirit TopLine offers finely differentiated basic programmes with many practical programme options (including prewash, intensive wash, time preselection, temperature reduction etc). In addition it ensures a high level of commercial service with a range of additional integrated set programmes which go far beyond everyday washing. Ten programmes can be accessed using the S button: wool, handwash, silk, outerwear, sportswear, curtains, jeans, shirts, spin and impregnating.



The P button on the 7 kg machine (Spirit TopLine 6176) offers a further 30 professional programmes. They are designed for the thorough removal of particularly stubborn stains and are based on specialist industrial requirements:

- Old people's/nursing homes
- Catering/hotel business
- Commercial operations

The range includes, for example, programmes for kitchen and table linen, aprons and overdresses, hand towels, dishcloths, butcher's linen, bed linen and incontinence laundry, disinfection wash etc.



## Maximum efficiency in the laundry room

Whether it comes to basic, special or professional programmes – where washing is carried out more than once a day, short programme cycles are called for. This is one of the strengths of Schulthess! Thanks to our technical innovations we can provide outstanding wash and spin results in less time. These also include professional equipment features (e.g. hot water connection, high heating power) which produce incomparable performance figures for the Spirit TopLine.

What is more, shorter, more powerful programmes not only speed up the processes and increase the washing capacity, they also reduce the detergent, electricity and water consumption.

The optimum use of resources through modern technologies and the associated reduction in overhead costs is an area in which Schulthess has been setting standards for a long time. With its innovative control system the Spirit TopLine is also helping to reduce consumption figures still further.

## Enough space to allow optimum washing effect

The fact that the Spirit TopLine washes faster, more gently and more economically is another effect of the Schulthess spacious drum. Its above-average volume gives the washing more room to move around and thereby improves the washing operation and produces a better spin effect. In addition, the larger volume is a big advantage when it comes to the gentle care of particularly delicate fabrics. Another very favourable side-effect is that if the washing is not crushed together in the drum it will get less creased and therefore take less time to iron.



## A delicate matter: up to 7.038 funnel perforations

The Spirit TopLine drum is made of high-quality nickel chromium steel and has exceptionally fine holes compared to standard models. The very finely perforated washer

drum which has up to 7.038 holes dramatically increases the efficiency of the wash process – in conjunction with the specially designed scoop ribs – and produces an excellent wash and spin result:

- faster wetting of the fabrics
- more intensive changing of washing and rinsing liquor
- more efficient dirt removal
- more effective drainage when spinning
- shorter drying times

The very finely perforated washer drum also guarantees optimum rinsing of detergents and fabric conditioners and thereby prevents skin irritations or allergic reactions.

### User-friendly on all levels

The Spirit TopLine is fitted with a robust and large door with the door stop on right or left-hand side. It has a diameter of 30 cm and an opening angle of 180°. This has ergonomic advantages and is very convenient for loading and unloading – especially with large laundry items such as bathrobes, ski suits or curtains.



The automatic time remaining display. It constantly shows the amount of time remaining for a particular programme. The end time selection is particularly useful as it allows you to set the end of a wash cycle up to 24 hours in advance. This means that you benefit from cheaper night-time electricity rates and you can coordinate each wash cycle exactly with your (work) schedule for the following day. This creates more flexibility and speeds up the processes in the laundry.

### And runs and runs and runs

The Spirit TopLine machines are equipped with the most efficient drive technology that is currently available. At the heart of each machine is a virtually non-wearing, frequency rectified asynchronous motor. The benefits speak for themselves:



- Gentle operation and variable speeds that are adjusted to each type of fabric
- Continuous transition of speed across all stages of the wash cycle

### Range of programmes

A broad range of microprocessor-controlled standard programmes from 20°C to 95°C with short wash times for all standard fabrics and textiles guarantees a high daily washing capacity.

- **Additional functions:** Express programmes at all temperatures, gentle wash, prewash, disinfection wash 60/95°C, energy saving, rinse hold, spin speed reduction, end time selection up to 24 hours in advance.
- **10 Special programmes (S button; on all washing machines):** wool 30°C, handwash 20°C, silk, outerwear, sportswear, curtains, jeans, shirts, spin, impregnate.
- **30 Professional programmes (P button; on the Spirit TopLine 6176):** wash programmes for professional users in the following areas: old people's homes, catering/hotel and industrial operations. This includes programmes for kitchen and table linen, aprons and overdresses, handtowels, dishcloths, butcher's linen, bed linen and incontinence laundry etc.

### Expandability

- **Programme extensions (Multi-Wash-Card):** with the new Schulthess Multi-Wash-Card you can store up to 20 additional, customer-specific programmes in the washing machines (10 programmes on one Multi-Wash-Card).
- **Programme extensions via IR interface:** up to 20 wash programmes that are programmed for specific goods can be added via the optional infra red interface on the Spirit TopLine.
- **Liquid detergent connection:** for controlling up to 8 dosing pumps; the type and volume of detergent can be directly programmed via the machine control system.
- **Drainage valve:** as an alternative to the detergent pump also available with drainage valve.
- **Tower installation set:** in order to mount the washing machine and dryer on top of one another – in an area smaller than half a square metre.
- **Machine plinth:** in chrome steel (+ 30.5 cm).
- **Cash Card:** for cashless payment systems.

- Up to 1400 revolutions per minute for powerful spinning (514 g) and maximum drainage (up to 45%).
- Optimum power transmission and energy efficiency thanks to flexible drive belts.
- Optimum quiet running even during high speed spin cycles – thanks to even more robust base construction.
- Low noise emissions and minimum vibrations.



Schulthess Spirit TopLine  
5656 (6 kg)  
6166/6176 (7 kg)

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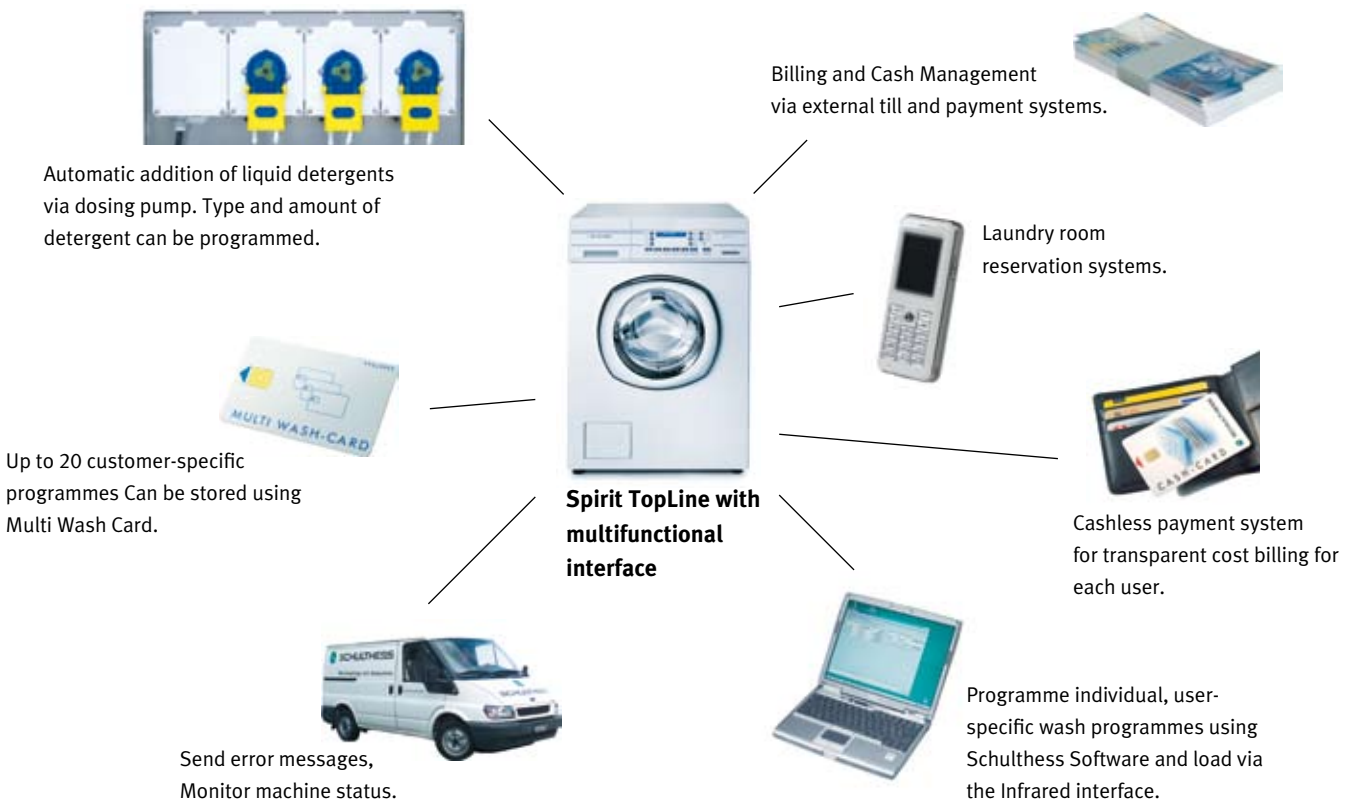
### With professional qualities for tough everyday work

The motor on the Spirit TopLine is just one example of what Schulthess understands in terms of “SWISS MADE” quality. What is more, all other central components are designed for reliability and durability:

- the robust drum bearing with roller bearings
- the silicon carbide axial drum seal with outstanding sliding properties and minimum wear
- the chassis construction which guarantees maximum stability and quiet running
- Internal and external drum made of high quality and durable nickel chromium steel

### Option for individual solutions: The multifunctional interface

The Spirit TopLine has an optional multifunctional interface with a serial interface (RS 485). It serves as an intelligent communication interface and can be linked to forward-looking, individual applications. This creates total flexibility for realising laundry solutions with different components, which are designed to ensure user convenience, efficient processes and economy (see graphic).





# Professional drying



## Together they make an unbeatable team

High-performance washing machines like the Spirit TopLine enable outstanding laundry results in ever-shorter time. Schulthess has made it its mission to develop its appliances constantly, with the aim of making washing and drying even more economical, more efficient and environment friendly. The result of these endeavours are the systematically optimised Spirit TopLine TA 6257 and TC 6457 tumble dryers. Uniform operation of the Spirit TopLine washing machines and tumble dryers – with display control – guarantees simple and reliable programme selection. As a perfectly coordinated dream team, they are unbeatable.

## Improved in every department

If the previous generation of Spirit TopLine tumble dryers was characterised by efficiency, ease of operation, longevity, gentle treatment of the laundry and economy, the two new tumble dryers – Spirit TopLine TA 6257 (exhaust air dryer) and Spirit TopLine TC 6457 (condensing dryer) stand out with even more attractive new features:

- **Larger drum volume:** (now 7 kg) and professional equipment levels guarantee short program times and high laundry throughput. In addition the laundry spreads out better, with less tendency to creasing
- Short programme times and better energy efficiency **reduce your operating costs**
- Super-Silent sound insulation
- Hinged fluff filter now integrated into the loading opening
- Automatic cool-down and crease reduction features

### Condensing dryer Spirit TopLine TC 6457:

- World champion among the condensing dryers: drying time just 48 minutes
- **Even more economical thanks to improved energy efficiency (energy consumption cut by 8%; increased efficiency thanks to better heat insulation)**
- New professional heat exchanger, capable of being operated from the front, guarantees short drying times

### Exhaust air dryer Spirit TopLine TA 6257:

- 7 kg of laundry cupboard dry in just 38 minutes



Schulthess Spirit TopLine TC 6457 and TA 6257 (7 kg), available in white or chrome steel.

## Enhanced drying expertise – new special drying programmes “S” and the unique “ecodry” drum system

The consistent and simple operating concept takes you quickly through all the application options. To enable you to select the many attractive special programmes more directly, the tumble dryers are now equipped with a special “S” button.

The number of special programmes has also been increased. In addition to the tried and tested basic programmes – including the attractive Express and Mix programmes – a total of seven special programmes are available for gentle treatment of specific textile types: the shirt/blouse programme helps to prevent creasing, cares for the laundry and makes ironing easier.

The jeans programme reduces creasing and streaking. Down jackets and similar items are dried using the outdoor programme, even pillows and down duvets are gently dried. For delicate and valuable wool items, the wool finish programme should be chosen. This carefully dries the garments and keeps them fluffy.

The unique new “ecodry” drum system dries more gently than has ever been possible before. Curved vanes swirl the warm air and distribute the laundry more gently and efficiently – drying has never been this gentle!

The residual moisture measurement system built into the drum constantly monitors the remaining moisture during the drying process, enabling the programme to be ended automatically on reaching the predetermined drying level. This means that the tumble dryer does not run a single minute longer than necessary and uses less energy.

The tumble dryer can also be controlled by means of a time programme. This is especially suited for drying pillows or additional drying of individual garments. The drying time can be individually specified in a range from 10 to 150 minutes. If desired, the programme start can be pre-programmed up to 24 hours in advance by means of the end time selector. This permits greater flexibility in the organisation of working procedures and the use of cheaper off-peak electricity tariffs.



#### Easy to operate, attractive to the eye

Left or right-hand door hinging is available. Access is made easier by the opening angle of almost 180°. And last but not least, the new Spirit TopLine TA 6257 and TC 6457 tumble dryers are available in white or an attractive chromium-steel finish.



#### Compact and exceptionally quiet

With its compact design, the Schulthess tumble dryer occupies the minimum space, enabling gentle and efficient drying even in cramped conditions. Using the tower kit, the washing machine and tumble dryer can be stacked on top of one another to save space in an area of just 0.5m<sup>2</sup>. At just 60 dB(A), the professional Spirit Topline tumble dryer with its Super Silent sound insulation ensures a quiet working environment so that no-one feels disturbed.

#### Further benefits at a glance

- **Incomparably fast:** more loading room and very fast drying times leave the competition standing in terms of drying times.
- **Compactness:** minimum space requirements for the washing machine and dryers with optional tower installation set.
- **Unbeatable:** synchronized programme times on the Spirit TopLine washing machines enable you to achieve an **efficient washing/drying process** time of less than one hour.
- **Multilingual:** the display provides clear information in 17 languages in the laundry room.
- **Cashless payment processing:** the optional Cash Card System means that each user can be charged easily based on their individual use.
- **Overview:** the drum lighting provides clear visibility when loading and unloading.
- **Swiss quality:** Schulthess appliances are dependable, economical, durable and inexpensive to maintain. They are made exclusively in Switzerland.

# Spirit TopLine washing machines

Company or brand name		Schulthess	Schulthess	Schulthess
Type of appliance		front loader	front loader	front loader
Type of sales description		<b>Spirit TopLine 5656</b>	<b>Spirit TopLine 6166</b>	<b>Spirit TopLine 6176</b>
Product no.				
Execution with drain pump (P)		5656.3P	6166.5P	6176.3EP
Execution with drain valve (V)		5656.3V	6166.5V	6176.3EV
<b>Application features <sup>1)</sup></b>				
Filling amount	max. kg	6	7	7
Drum volume	dm <sup>3</sup>	53	63	63
Spin speed	max. rpm	1400	1400	1400
G force	G	514	514	514
Residual moisture	%	45	45	45
Duration (60° without prewash)				
Cold water connection	min	59	56	56
Duration (60° without prewash)				
Hot water connection	min	45	46	46
<b>Consumption data for normal 60° C program <sup>1)</sup></b>				
Energy consumption:				
Cold water connection	kWh	1.15	1.3	1.3
Hot water connection	kWh	0.3	0.4	0.4
Water consumption	l	59	69	69
<b>Structural form</b>				
Footed appliance with work surface		●	●	●
Door hinge <sup>2)</sup>		r/l/i	r/l/i	r/l/i
<b>Dimensions</b>				
Height	cm	90	90	90
Width	cm	63	63	63
Depth including space from wall	cm	74	74	74
Depth with door open (front loader)	cm	114	114	114
Height adjustable	cm	2	2	2
Empty weight	kg	109	112	112
<b>Equipment</b>				
Detergent tank and drum		chrome-nickel steel	chrome-nickel steel	chrome-nickel steel
Door opening	Ø cm	front, 30	front, 30	front, 30
Automatic door opening		●	●	●
Connecting cable	m	1.5	1.5	1.5
Drain hose with benda, only model (P)	m	1.5	1.5	1.5
Drain:				
Execution with drain pump (P)	Ø mm	21	21	21
Execution with drain valve (V)	Ø mm	50	50	50
<b>Electric power and water supply</b>				
Electrical connection:				
– voltage			400 V 3~N 50 Hz/5.1 kW/10 A	400 V 3~N 50 Hz/5.1 kW/10 A
– connected loads		400 V 2~N 50 Hz/3.7 kW/10 A	400 V 2~N 50 Hz/3.7 kW/10 A	400 V 2~N 50 Hz/3.7 kW/10 A
– fuse		230 V 1~N 50 Hz/2.3 kW/10 A	230 V 1~N 50 Hz/1.8 kW/10 A	230 V 1~N 50 Hz/1.8 kW/10 A
			230 V 1~N 50 Hz/3.2 kW/13 A	230 V 1~N 50 Hz/3.2 kW/13 A
			230 V 1~N 50 Hz/3.7 kW/16 A	230 V 1~N 50 Hz/3.7 kW/16 A
			230 V 3~N 50 Hz/5.1 kW/13 A <sup>3)</sup>	230 V 3~N 50 Hz/5.1 kW/13 A <sup>3)</sup>
Water connection:				
– pressure hose G 3/4" with fine filter	m	1.5	1.5	1.5
– can be connected to cold water/hot water		cold water/hot water 70°C	cold water/hot water 70°C	cold water/hot water 70°C
– Water pressure	bar	1–10	1–10	1–10
<b>Options</b>				
		– Drain valve or drain pump	– Drain valve or drain pump	– Drain valve or drain pump
		– in chrome-nickel steel	– in chrome-nickel steel	– in chrome-nickel steel
		– hot water connection	– hot water connection	– hot water connection (incl.)
		– Cash Card System	– Cash Card System	–
		– Wash-Card-System	– Wash-Card-System	– Wash-Card-System
			– soft or rainwater inlet	– soft or rainwater inlet
			– Connection for liquid detergent pumps	– Connection for liquid detergent pumps
<b>Safety and service</b>				
Complies with Swiss safety regulations		SEV-tested	SEV-tested	SEV-tested
Country of origin		Switzerland	Switzerland	Switzerland
Manufacturer's name and address:	Schulthess Maschinen AG, 8633 Wolfhausen/ZH			

● yes – no

Explications:

<sup>1)</sup> Values determined in accordance with standard EN 60456.

<sup>2)</sup> Door hinge: l = left, r = right, i = interchangeable. Example: l/i is state as delivered, door hinge left. Hinge interchangeable.

<sup>3)</sup> Upon request

Note: State of the table details as may 2008, subject to further developments.

# Spirit TopLine tumble dryers

Company or brand name		Schulthess	Schulthess
Type of appliance		exhaust air dryer	condensation dryer
Type of sales description		<b>Spirit TopLine TA 6257</b>	<b>Spirit TopLine TC 6457</b>
Product no.		6257.0	6457.0
<b>Application features</b>			
Filling amount <sup>2)</sup>			
– cotton, cupboard dry	max. kg	7	7
– cotton, ironing moist	max. kg	7	7
– easy-care, cupboard dry	max. kg	3.5	3.5
Drying time <sup>3)</sup>			
Programme “Cotton, cupboard dry” (laundry spun before beginning drying at about 1400 rpm, 46% residual moisture)	min	38	48
<b>Consumption</b>			
Energy consumption <sup>3)</sup>			
Program “cotton, cupboard dry” (laundry spun before beginning drying at about 1400 rpm, 46% residual moisture)	kWh	3.10	3.05
<b>Structural form</b>			
Footed appliance with work surface		●	●
Standard unit for wash and dry column		●	●
Door hinge <sup>3)</sup>		r/l/i	r/l/i
<b>Dimensions<sup>4)</sup></b>			
Height	cm	90	90
Width	cm	63	63
Depth including space from wall	cm	84 <sup>4)</sup>	88
Depth with door open <sup>4)</sup>	cm	145 <sup>4)</sup>	149
Height adjustable	cm	2	2
Empty weight	kg	76	86
<b>Control of drying</b>			
By time setting <sup>5)</sup>		●	●
Automatic by electronic moisture sensing <sup>6)</sup>		●	●
<b>System and equipment</b>			
Air extraction system		●	–
Air condensation system		–	●
Exhaust air duct		Ø 100 mm, 90°-angle adapter	–
Exhaust air hose Ø 100 mm	m	2	–
Drying programs		8	8
Additional programs and times programs		●	●
Special programs		7	7
Express/Mixed		●/●	●/●
Display of the program time		●	●
Door opening		●	●
Loading opening	cm	front, Ø 36/31	front, Ø 36/31
Connecting cable	m	1.5	1.5
Outlet hose	m/Ø mm	–	2/22
Condensate drain with pump		–	●
<b>Electric power and water supply</b>			
Electrical connection:			
– voltage		400 V 3~N 50 Hz/5.9 kW/10 A	400 V 3~N 50 Hz/5.1 kW/10 A
– connected loads		400 V 2~N 50 Hz/4.1 kW/10 A	400 V 2~N 50 Hz/3.7 kW/10 A
– fuse		230 V 1~N 50 Hz/2.2 kW/10 A	230 V 1~N 50 Hz/2.3 kW/10 A
		230 V 1~N 50 Hz/3.7 kW/16 A	230 V 1~N 50 Hz/3.7 kW/16 A
<b>Options</b>			
		– execution in chrome nickel steel	– execution in chrome nickel steel
		– cash card system	– cash card system
		– tower kit for washer/dryer column	– tower kit for washer/dryer column
<b>Safety and service</b>			
Complies with Swiss safety regulations		SEV-tested	SEV-tested
Country of origin		Switzerland	Switzerland
Manufacturer's name and address		Schulthess Maschinen AG, 8633 Wolfhausen/ZH	

● yes – no

Explanations:

<sup>1)</sup> Values determined in accordance with standard EN 61121.

<sup>2)</sup> Manufacturer's details of the maximum filling amount for all drying programs.

<sup>3)</sup> Door hinge: l = left, r = right, i = interchangeable. Example: l/i is state as delivered, door hinge left. Hinge interchangeable.

<sup>4)</sup> In the case of an exhaust air connection at the rear, a greater distance from the wall may be required. Dimensions are to be found in the dimensioned drawings.

<sup>5)</sup> Set the degree of drying according to the laundry items in accordance with operating instructions.

<sup>6)</sup> Degree of drying maintained automatically.

Note: State of the table details as in may 2008, subject to further developments.