



Technical Data Sheet for Cleaning machine		PH 810 VS1							
Series	PH 810 VS1	Works by the customer							
Type	PH 810 VS1	1. Installation preparation: Transport inside ways and openings according to our installation drawing. Minimum dimensions have to be observed.							
2. Media supply, feed, drain and connection lines: According to the installation / material requirements. Otherwise you have to calculate with an unsatisfactory function, cleaning and drying efficiency, negative influence on the cleaning items and reduced life time of the machine.									
3. Pipe installation: All feed, drain and connection lines must be carried out as shown on the installation drawing and in the diagram. The on-site nominal width of pipes is to be adapted to the capacity. All piping has to be properly laid and fixed. The max. pressure indicated must not be exceeded, install overpressure valves on-site.									
4. All pipe feed lines on site have to be provided with shut-off valves.									
5. All data refer to 1 cleaning machine.									
6. All joints between the machine and the building site wall are to be silicone sealed.									
7. After machine installation connection of the machine to the supplies on site (on part of the builder).									
8. Contaminated waste water is to be disposed of in compliance with the law.									
Heat radiation:									
Machine	900 W								
Wash-Items	150 W								
Noise emission	-88 dBA(A)								
Weight:									
Including wash tank filling (38kg) + 100kg for wash-rack and wash-items + 2x detergent container (20kg)	130kg								
Specific floor loading	3300N/m ²								
Necessary transport ways into the building (complete transport way):									
Width:	1050 mm								
Height:	2150 mm								
Depth:	1100 mm								
Building side potential equalization:									
Only needed if the room is used medically according to VDE 0100-710. Length of cable end 3 m from upper edge of finished floor.									
Code	Name	Nominal size	Capacity	Consumption respectively	Temperature	Assembly arrangement	Material		
E1 Electric connection machine: 3 N AC 400V (380-415V), 50Hz									
Wash tank	Drying	Fuse (A)	Nominal current (A)	Nominal rating (kW)	max. 2m cable length, flexible terminals	Junction box max. 2m cable length, flexible terminals	Connection cable lined out Outside diameter of 22.8 mm		
Electric	Electric	4.0	28	17.5					
Steam	Electric	25	23.5	8.6					
Steam	Steam	20	7	2.5					
E1 Electric connection machine: 3 AC 220V (200-220V), 50Hz									
Wash tank	Drying	Fuse (A)	Nominal current (A)	Nominal rating (kW)	max. 2m cable length, flexible terminals	Junction box max. 2m cable length, flexible terminals	Connection cable lined out Outside diameter of 22.8 mm		
Electric	Electric	6.0	4.4	15					
Steam	Electric	5.0	3.6	13					
Steam	Steam	2.0	1.0	2.5					
E1 Electric connection machine: 3 AC 208V (200-220V), 60Hz									
Wash tank	Drying	Fuse (A)	Nominal current (A)	Nominal rating (kW)	max. 2m cable length, flexible terminals	Junction box max. 2m cable length, flexible terminals	Connection cable lined out Outside diameter of 22.8 mm		
Electric	Electric	6.0	4.4	15					
Steam	Electric	5.0	3.6	13					
Steam	Steam	2.0	1.0	2.5					
E2	Electrical supply printer				Socket IEC 204V, flexible at the printer location	Lure flat plug (Type C IEC 1716)			
DV1	Data line for potential-free contact/signalation, alarm, exhaust air, program and				Control line shielded	Terminals fixed/flexible outer diameter 0.8-1.5mm ² (line $230V AC$ max. $4A$)			
DV2	Data line for batch documentation on printer				Patch cable Cat.5	USB-Extender to the control unit and the printer, Cat5 patch cable, cable length 20m			
DV2	Data line for batch documentation on printer				Patch cable Cat.5	max. 100m			
DV3	Connection to building site process control system (PCS)				Patch cable Cat.5	RAS connection to nodes/switch			
DV4	Wiring nodes connection for remote maintenance				Patch cable Cat.5	max. 100m			
PA	Potential equalization				Telephone line	RAS or RJ11 connection to modem			
PA	Potential equalization				Potential equalization cable min. 6mm ² and ring-type terminal	Threaded bolt M8			
PA	Potential equalization				Potential equalization cable min. 16mm ² AWG 6 and ring-type terminal	Threaded bolt M8			
A1	Machine drain pH-value 5-12	DN50	DN 50mm	60l/min	Depending on used program	Drain job DN 50 with seal through a siphon, not sealing! separating fire protection section with water	pipe Ø53x1.5mm	Stain less steel (304+316L)	
A2	Machine drain pH-value 5-12 (with integrated draining pump.)	DN50	DN 50mm	30l/min	Depending on used program	Drain job DN 50 with siphon for fire protection! separating fire protection section through a siphon	hose Ø22x3.5	Stain less steel (304+316L)	
AL1	Exhaust air rel. air humidity up to 100%	DN 80	DN 80	350m ³ /h	up to max. +10°C	Exhaust air connection with condenser fan to be used according to separate out. note-light-to-site at contact "Exhaust air" is connected by the machine.	Exhaust air connection of the machine according to DIN EN ISO 1121	Stain less steel (304+316L)	
AL2	Air intake			350m ³ /h	Air max. 35°C		AF intake slots in panels		
Steam	Steam 350-450 kPa (absolute)	DN15	DN15	0.45kg/min	0.45kg/min	Pipe with gate valve, 1/2" stroke limiter	Internal thread ISO 228-G 1/2"	Stain less steel (304+316L)	
Condensate	Condensate	DN15	DN15		+10°C	Pipe with gate valve, lead away condensate without pressure on-site	Internal thread ISO 228-G 1/2"	Stain less steel (304+316L)	
DL1	Compressed air (airgrip) 650-900 kPa (absolute) ISO 8533-1 L/L/V11	DN15	DN15	10 Nm ³ /h	1.2 Nm ³ /h	Pipe with gate valve	Clamp connection DN15/6, pressure controller, pre-lock valve, filters	Stain less steel (304+316L)	
DL2	Compressed air (control air) 650-900 kPa (absolute)	DN15	DN15	0.25Nm ³ /h	0.25 Nm ³ /h	Pipe with gate valve	Adapter with internal thread ISO 228-G 1/2"	Stain less steel (304+316L)	
Supply 1	High-purity water 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	30l/min	30-38 L/hatch	up to max. +85°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 20/6	Stain less steel (304+316L)
Supply 2	Warm water 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	30l/min	30-38 L/hatch	up to max. +85°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 20/6	Stain less steel (304+316L)
Supply 3	Tap water 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	30l/min	30-38 L/hatch	up to max. +85°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 20/6	Stain less steel (304+316L)
CWS	Drinking water supply 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	30l/min	30-38 L/hatch	Depending on used program	ca.10°C into 20°C into drain	External thread ISO 228-G 3/4"	Stain less steel (304+316L)
CWR	Drinking water vapour condenser 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	30l/min	30-38 L/hatch	Depending on used program	Pipe DN15 with gate valves	External thread ISO 228-G 3/4"	Stain less steel (304+316L)
TW	Tap water waste water cooling 300-600 kPa (absolute) ISO 1551-600kPa d/-rise	DN15	DN15	140l/min	140l/min	Depending on used program	Pipe DN15 with gate valves	External thread ISO 228-G 3/4"	Stain less steel (304+316L)
Environmental conditions at site:									
Temperature: +5 °C to +35 °C according to IEC 61010-1									
Relative Humidity: highest rel. Humidity 80% for temperatures to +31 °C, decreasing linearly to 50% up to 2000 m. above sea level.									
Ambient pressure: 75 kPa to 106 kPa									
Machine casing:									
The side panels have to be installed depending on setup situations as the guarantee of IP protection is required.									
Integrated draining pump:									
max. pumping head of 1 m direct outside the machine ended 10.5m									
Attention:									
With combination of integrated draining pump and vapor condenser, the cooling water outlet be conducted separately in an on-site drain.									
All measures in mm relate to a construction site ready for installation.									