



# METALLIC AIR WASHER

The SL type air washer is a component of air conditioning systems consisting of a prefabricated metal structure that avoids the laborious masonry construction of traditional washers with the associated problems of waterproofing and deterioration over time.

It is built in different models with air flow rates up to 280,000 mc/h and crossing speeds from 3.2 m/s up to a maximum of 4.5 m/s.

The bottom tank and all internal structures are made of stainless steel, while the upper walls can be made of galvanised sheet metal or stainless steel.

The water pipes are made of high-density PVC and feed two candle ramps equipped with self-cleaning DERLIN quick-coupling nozzles with a stainless-steel cap that atomise the water and charge the passing air with the necessary moisture.

Air rectifier and droplet separator are made of PVC according to a specially designed profile and are fitted with suitable plastic spacer combs, which allow for rapid assembly and disassembly.

Each washer installs two high-efficiency electric pumps with stainless steel body and impeller, complete with pressure gauges, regulating valves and vibration-damping couplings for coupling to the delivery and intake pipes.

At the front of the tank are installed a series of static stainless steel drawer filters with a large pleated filtering surface, the overflow drain, the tank drain with ball valve and the filling float.

The total prefabrication allows the components to be introduced through any door and into any room.

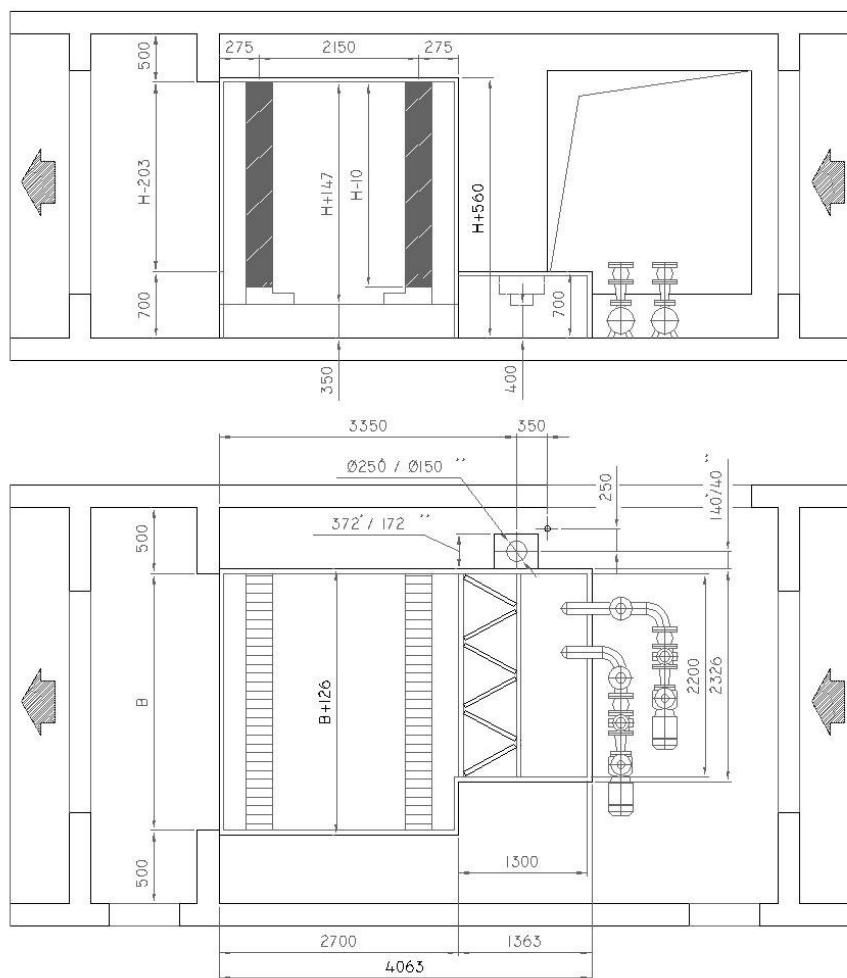




## TECHNICAL DATA

Rated voltage : 400 V - 50 Hz - 3F (440V - 60Hz - 3F)

 <b>EMMEBI IMPIANTI</b> TECNOLOGIA - AEROTESSILE	N. DISEGNO <b>NORM. 23-A</b>	DATA O AGG. 26-06-15
	DENOMINAZIONE <b>LAVATORE METALLICO SL</b>	



PORTATA H2O IN MC/H E POMPE INSTALLATE

P <sub>OPPA</sub> TIPO 1	SHE40-160/40	KW 4,0	POLI 2	P <sub>OPPA</sub> TIPO 5	SHE65-160/75	KW 7,0	POLI 2
P <sub>OPPA</sub> TIPO 2	SHE40-200/55	KW 5,5	POLI 2	P <sub>OPPA</sub> TIPO 6	SHE65-160/92	KW 9,2	POLI 2
P <sub>OPPA</sub> TIPO 3	SHE50-160/55	KW 5,5	POLI 2	P <sub>OPPA</sub> TIPO 7	SHE65-160/110	KW 11,0	POLI 2
P <sub>OPPA</sub> TIPO 4	SHE50-160/75	KW 7,5	POLI 2	P <sub>OPPA</sub> TIPO 8	SHE80-160/110	KW 11,0	POLI 2

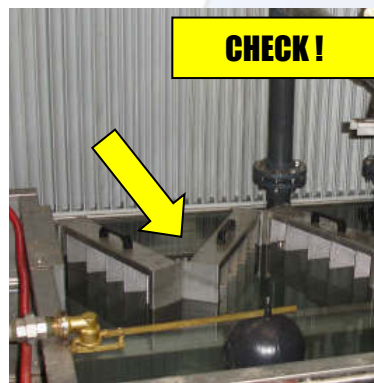
  

H \ B	1540		1940		2440		2940		3240		3740		4140	
	Q PC/H	P TIPO	Q PC/H	P TIPO	Q PC/H	P TIPO	Q PC/H	P TIPO	Q PC/H	P TIPO	Q PC/H	P TIPO	Q PC/H	P TIPO
1700	17	1	21.5	1	26	1								
2200	21	1	26	1	31	1	39	2						
2700	25	1	31	1	39	2	45	2	50	3				
3000			36	1	45.5	2	52	4	57	4	64.5	6		
3500			43	2	52.5	3	58.5	4	70.5	5	76	6	89.5	7
3900			47.5	3	56.5	3	68	5	77.5	6	90	7	97.4	7
4400			50	3	64.5	4	74.5	5	84	6	96.5	7	114	8



## MAINTENANCE PROCEDURES

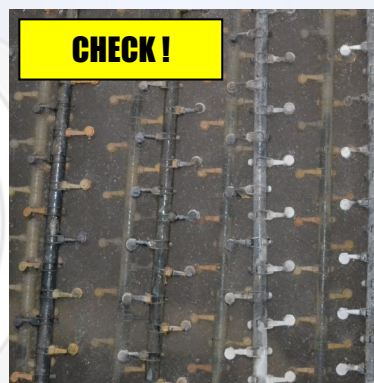
- 1 Periodically check status of the static filters. If dirty, remove it and clean it.  
We advise to keep a set of static filter in your storehouse, that can be use during the cleaning procedures.



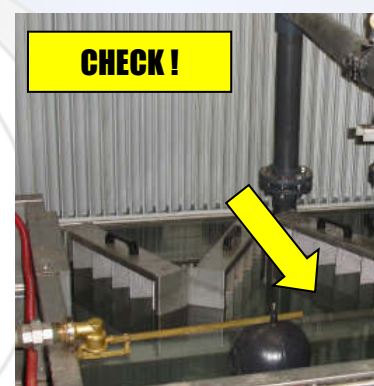
- 2 Periodically check the status of the drops separator and the baffle blades. If there are scales and crusts remove the spacing combs and all the blades and clean it with anti-limescale products.



- 3 Periodically check the status and the right functioning of the nozzles. If clogged, remove it and clean it. We advise to keep a set of nozzles and a complete nozzle holder-ramps in the storehouse, so as to perform a rotation of the candles and their nozzles during the cleaning procedures.

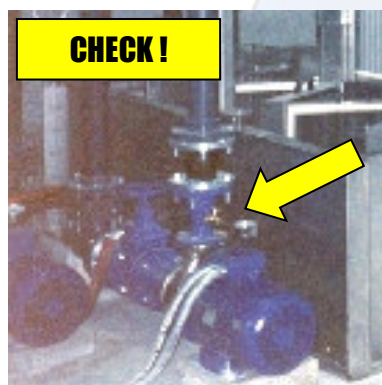


- 4 Periodically check the water in the tank. If dirty, provide the emptying and cleaning of the tank and replace the water.

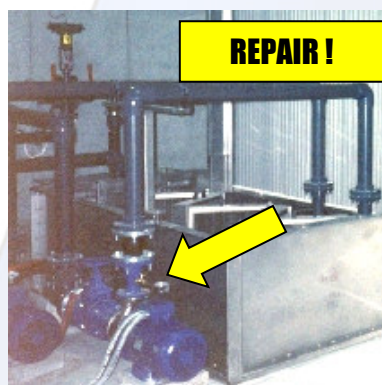




5 Periodically check the functioning of the electrical pumps, checking the pressure reading the installed manometer.



6 If one of the two electric pumps is burned, repair it and close its exclusion shutter.



7 Periodically check the degree of air saturation with a psychrometer. If it is less than 90%, check the pumps, sprayer nozzles and drop separators.

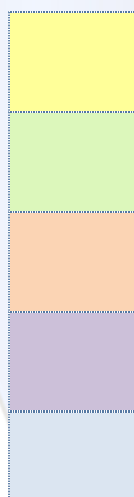




## LISTA DI MANUTENZIONE

For a proper maintenance of the system, all the components and the running mechanisms should be visually checked every day.

Spare part	Frequency of intervention					
	Weekly	Monthly	Every 3 months	Every 6 months	Every year	Every 2 years
Nozzles MB			Clean with water			
Grey PVC PN16 'candels'					Clean with water	
PVC blades water separators			Clean with water			
Static filters			Clean with water			
Pump						



**Check the status of the component**

**Change the component (advised)**

**Change the component (max time)**

**Grease**

**We advice to keep one piece or set in your storehouse**



## SPARE PARTS LIST

The number and type of the item here below, depends to the model and dimension of the airwasher.

pos	ITEM	
1	Nozzles MB type	
2	Blades for drop separator	
3	Spacing for drop separator	
4	Water pump	
5	Static filter	