



# HYDROSENS™

- INROOM HUMIDITY CONTROL

Sense is defined as perceiving stimuli through hearing, seeing, smell, taste and touch.

Airtec® HydroSens perceives stimuli from a range of sensors; humidity, flow, power, pressure, temperature and timers, applying optimized performance to any given situation.

- ISO 9001, ISO 14001, ISO 22000. Airtec accredited by Norske Veritas.



HydroSens basic features:

- 1-4 zones humidity control
- FRQ pump 4-600 liter
- Ethernet/IP
- Datalog, microSD slot
- SafeSens
- HygienicSens
- EnergySens

HydroSens optional features:

- 5-10 zones humidity control
- FRQ pump 800 or 1200 liter
- MODBUS RTU master/slave
- MODBUS TCP
- Scada remote control

SafeSens monitors the water flow in each zone, communicating with room sensors, evaluating requirements and aligning system operations to comply at any give moment.

HygienicSens monitors pump performance, calibrates water flow, eliminating by-pass recirculation. Automatic rinse counteracts stagnation and unnessasary heating of the water.

EnergySens optimizes the electrical performance of the system, trimming pump and ventilator operations.



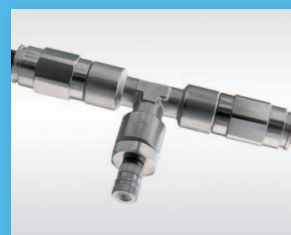
HydroJet



HydroTrio



HydroOne



HydroFlex

**HYDROSENS INROOM**

Flow l/h	4-600	24-800	84-1200
Power supply	230/240 V, 50/60 Hz. 16 Amp 1P+ N + PE		3x400/230 to 480/240 V 16 Amp 3P + N + PE
P2, power output available kW	3	3	9
Frequency inverter kW	1,5		2,2
Ventilator supply	13 Amp available		
Supply water pressure, bar	2 - 7		
Supply water connection	ø14 mm		
Sensor control	0-10 V		
On/Off control	✓		
Control	4/8/10 zones humidity or 2/4/5 zones humi./temp.		
Pulsing function	✓		
Hygienic rinse system	✓		
Ethernet/ MODBUS TCP	✓		
microSD slot	4-32 Gb SDSC or SDHC class 6 or 10 (not included)		
Datalog	✓ (microSD card required)		
Maintenance indicator	✓		
External stop	1 input available to stop 1 or more zones		
Alarm log	✓		
Alarm out, potential free	✓		
External alarm in	1 input available to stop system in alarm, reset required		
Thermal pump control	✓		
Flow control	✓		
Low water pressure alarm	✓		
High/low humidity alarm	✓		
Dimensions (W x D x H)	590 x 365 x 1030 mm 23,2" x 14,4" x 40,5"		
Weight	53 kg/116,8 lbs	61 kg/134,5 lbs	68 kg/149,9 lbs
Ambient temperature range	1-20 °C (35 °C) 34-68 °F (95 °F)		
Protection class	IP 52		
Noise level , dB (A)	< 70		
Ventilator start/stop	Option		
Scada remote control	Option		
MODBUS RTU (RS232/485)	Option		

	HYDROJET	HYDROTRIO	HYDROONE	HYDROFLEX PA	HYDROFLEX SS
Water capacity l/h, max.	32	15	4	5	5
Nozzles	6	3	1	1	1
Water pressure, bar	50	50	50	50	50
Ventilator type	Axial	Centrifugal	Axial	-	-
Power supply, V AC	230	230	230	-	-
Operating Voltage Range V AC	± 10 %	± 10%	± 10%	-	-
Frequency Hz	50/60	50/60	50/60	-	-
Power supply, W	80/110	65/80	20/19	-	-
Power supply, A	0,34	0,34	0,13/0,11	-	-
Ventilator RPM	870	1000	2650/2950	-	-
Ventilator m <sup>3</sup> /h	1850	645	150/167	-	-
Noise level, dB (A)	< 70	< 70	< 43/48	< 40,5	< 40,5
Dimensions (W x D x H)	430 x 430 x 490 mm 17" x 17" x 19,5"	300 x 240 x 500 mm 12" x 9,5" x 20"	125 x 150 x 125 mm 5" x 6" x 5"	-	-
Weight	7 kg/15,4 lbs	5 kg/11 lbs	2 kg/4,4 lbs	-	-
Temperature range	0-45 °C/32-113°F	0-45 °C/32-113°F	0-45 °C/32-113°F	0-45 °C/32-113°F	0-80 °C/32-176°F
Humidity up to, %RH	65 at 22 °C/72°F	65 at 22 °C/72°F	65 at 22 °C/72°F	95	95
Protection class	IP 13	IP 03	IP 20	-	-

Specifications can change without notice!