HydroSens™

-AHU 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:

- 1-2 AHU humidity control
- 7 Steps modulating control, 0-10 V
- Modulating MAX sensor
- FRQ pump 4-600 liter
- Ethernet/IP
- Datalog, microSD slot
- SafeSens
- HygienicSens
- EnergySens

HydroSens optional features:

- 3th AHU humidity control
- FRQ pump 800 or 1200 liter
- MODBUS RTU master/slave
- MODBUS TCP
- Scada remote control
- 4-10 mA control signal

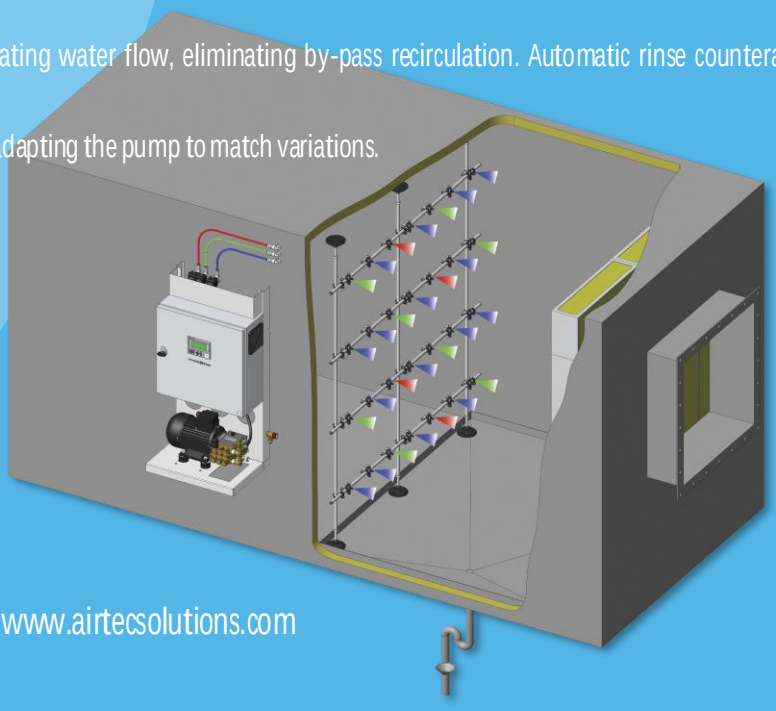
SafeSens monitors the water flow in each zone, communicating with room sensors, evaluating requirements and aligning system operations to comply at any give moment.

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

EnergySens optimizes the electrical performance, adapting the pump to match variations.



HydroFlex



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HydroSens AHU

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 / BMS 0-10 V PID		
On/Off control	✓		
Control	2/3 AHU		
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	Seperate input to allow AHU operation		
Alarm log	✓		
Alarm out, potential free	✓		
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		
Noice level , dB (A)	< 70		
VDI 6022 compliant	✓		
Scada remote control	Option		
MODBUS RTU (RS232/485)	Option (Analog input 4-20 mA not optional)		
Analog input 4-20 mA	Option (MODBUS RTU not optional)		

	HydroFlex PA	HydroFlex SS
Water capacity l/h, max.	5	5
Nozzles	1	1
Water pressure, bar	50	50
Noice level, dB (A)	< 40,5	< 40,5
Temperature range	0-45 °C/32-113°F	0-80 °C/32-176°F

Specifications can change without notice!