

# AccuShower

# **Water Spray System**

Woollard & Henry Limited Stoneywood Park, Dyce Aberdeen Scotland AB21 7DZ Woollard & Henry Office Central Europe Bernardstrasse 112 63067 Offenbach Germany

#### Specification Spray System



- ➤ Increase in Moisture and improved Moisture Control / Profile
- ➤ Remoisturizing process: controllable range 0 3,0 %
- > Profile Control: Peak to Peak max 0,25% moisture difference
- ➤ Installation Position: Dryer Section, Cooling Cylinder or before Calender
- ➤ No water drops or water mist outside the spray system
- ➤ Working width: 0 9000 mm
- ➤ Nozzle centres: 100 mm / double row (off-set) to give 50mm

# Water Application AccuSpray



In the Air / Water nozzle the controlled amount of water will be atomized in extremely small water particles.

W&H uses the latest fluid nozzle technology based on our experience and detailed FEM calculations.

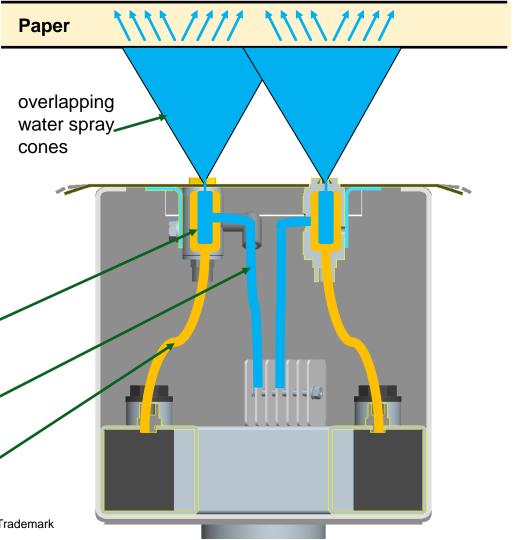
The 50 mm offset of the air water nozzles create a perfect water application in the form of a continuous water mist without any water drops

The water mist will be absorbed by the paper sheet and rewet the complete paper in each direction

Air / Water Nozzle

controlled water flow

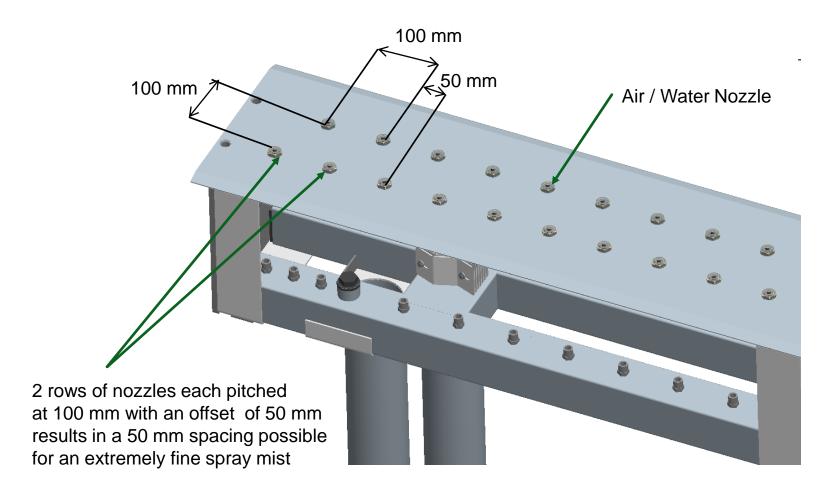
air supply



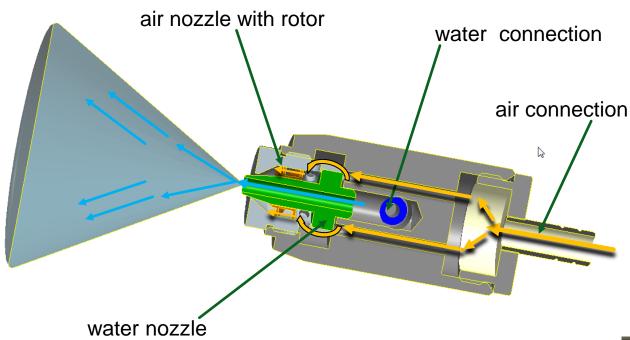
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# AccuShower Nozzle Spacing W00LLARD & HENRY



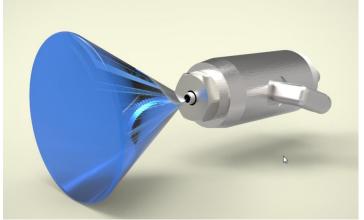


# AccuShower Nozzle Technology W00LLARD & HENRY



#### Available water nozzle size:

- Dia 1 mm = 0 4 l/h
- Dia 2 mm = 0 6 l/h
- Dia 3 mm = 0 10 l/h
- Dia 4 mm = 0 16 l/h
- Dia 5 mm = 0 30 l/h

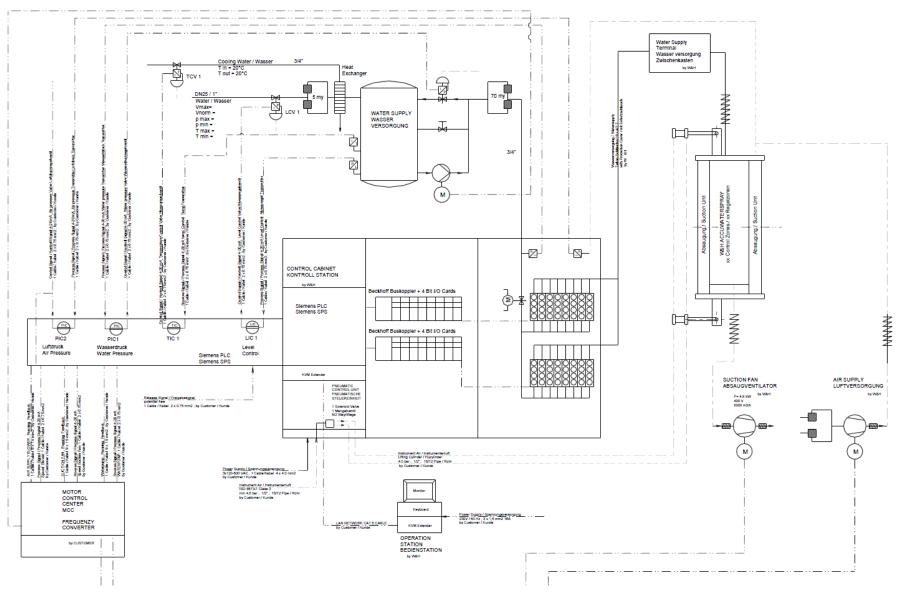




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# AccuShower System Layout





### AccuShower Control Cabinet



Left Side Water Flow Control



- ➤ 4-bit digital valve blocks
- > PLC Unit from Siemens
- link connection to every QCS/DCS
- Electronic control loops for air pressure, water pressure and water temperature
- operation by touch panel or workstation in the control ro

Standard Rittal Cabinet



Right Side Electronic Part



Universal

Power Supply

Siemens Embedded Industrial PC; no turning parts, no fan, memory card technology

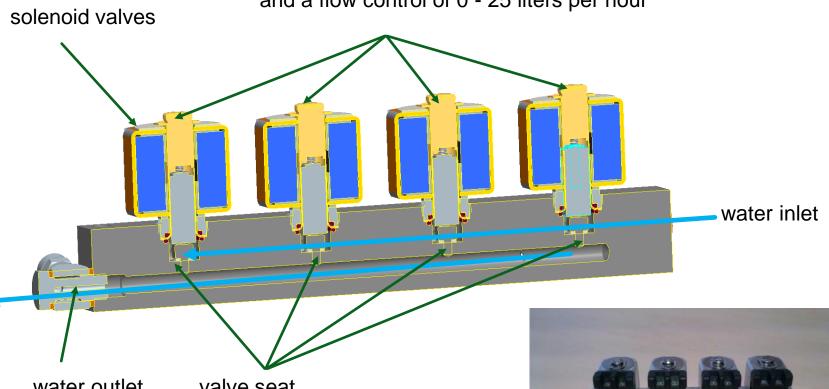
Siemens I/O`s

workstation in the control room All Copyrights by Woollard & Henry 2023, AccuShower is a registered Trademark

## Digital Control Block



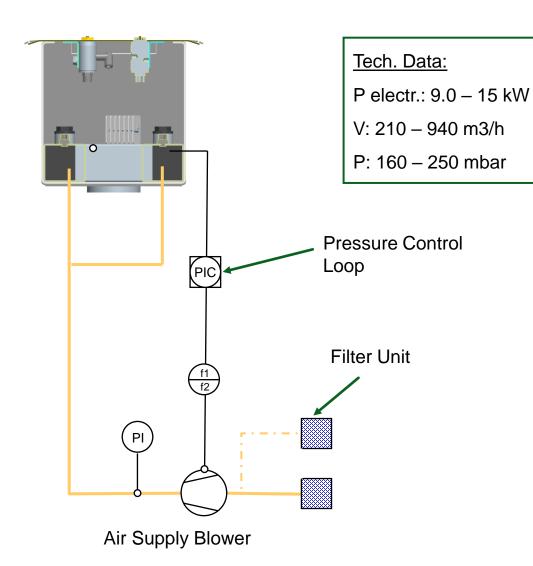
A combination of 4 solenoid ON/OFF valves with different valve seats allows 16 steps and a flow control of 0 - 25 liters per hour



water outlet connected to spray nozzle valve seat dia. 0.2 – 0.75 mm

# Air Supply Station



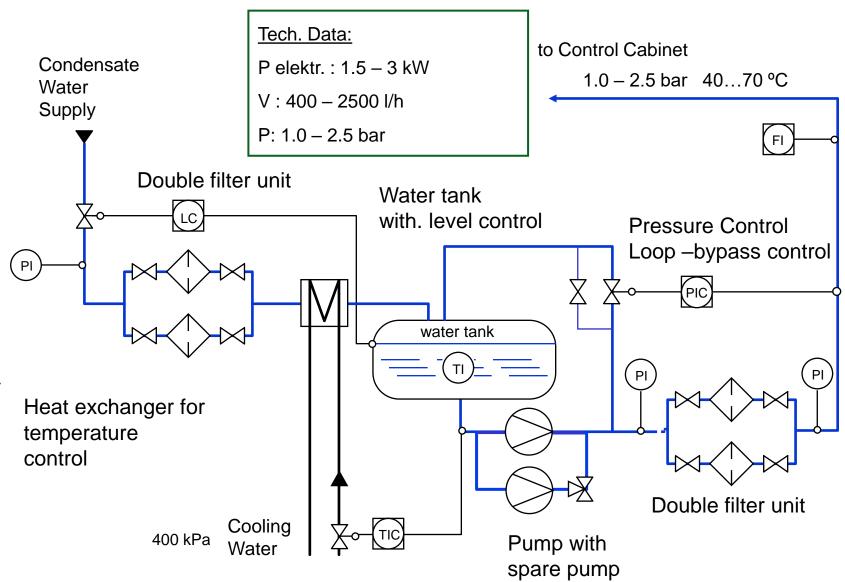


Air Supply Blower



## Water Supply Station





## Water Supply Station (Simple)



