



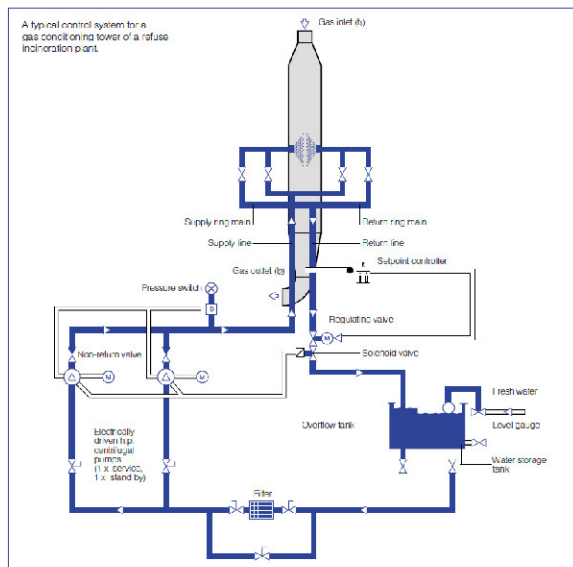
ServoTech
INDUSTRIES

Technology Center:
25580 Brest RD, Taylor, MI 48180 USA
Email: servotech@servotechco.com
Phone: (734) 697-5555
www.servotechco.com

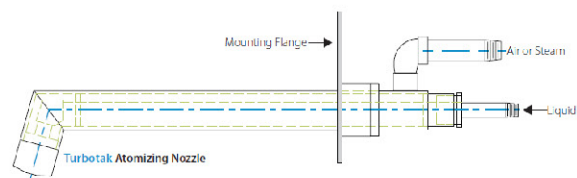
SPRAY EVAPORATIVE COOLERS

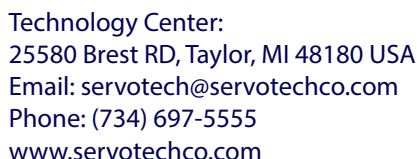
In anticipation of more stringent regulations for the control of dioxin / furan I-TEQ emissions from steel producing electric arc furnaces, cement kilns, and secondary aluminum recovery operations, Amerair re-introduces its spray evaporative cooler product line.

The first of the two design features upon which successful spray evaporative coolers are based is proper spray atomization. To this end Amerair offers both hydraulic “spill back” and compressed air atomized nozzles. Spill back spray nozzles utilize high pressure hydraulic pumps with return throttling valves to provide the feed spray as shown in the schematic below:



Alternately, compressed air atomization systems are used when lower gas volumes or lower inlet temperatures dictate. An example of such is shown to the right.





The second design feature required for successful evaporative cooler design is proper gas flow distribution that ensures spray distribution in the gas and eliminates side wall wetting. Amerair utilizes CFD modeling in all of its spray tower designs to position and size its proprietary inlet and outlet distribution devices for proper flow distribution and flawless performance.

CFD Model

Whether meeting CISWI standards, EAF I-TEQ requirements or other process gas cooling needs, let the experts at Amerair provide the correct tower application and sizing.