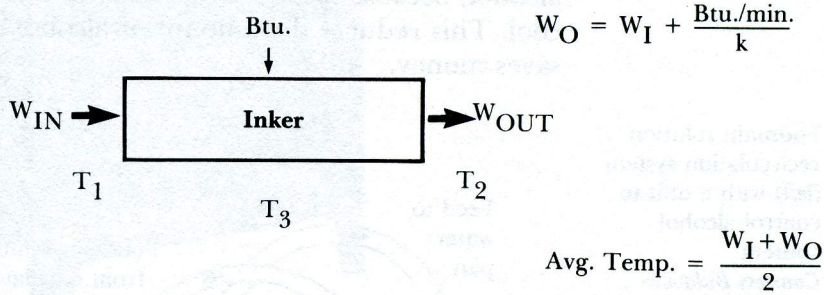


Water-Cooled Ink Vibrators

When the press is running, inking system temperatures have been known to get as high as 165°F (74°C) or more, sufficient to cause some heatset inks to begin setting on the rollers. For this reason, water-cooled ink vibrators have become common on web offset presses. By chilled water circulating through the ink vibrators, much of the heat generated is drained off before temperatures can rise to a level at which the ink is affected. The system should be equipped to heat the inking system to the desired temperature on start-up and then to cool it to maintain that temperature during running.

Some water-cooled vibrators are single-ended, with water inflow and outflow at the same end of the roller. Others are double-ended, with the water inflow at one end and outflow at the other. Double-ended vibrators generally cool the roller more uniformly across its width.

Water-cooled inking system



	Btu./Min.	k	W(I)	W(O)	Avg. Temp.
Thermostat at T₁	100	5	65°F	85°F	75°F
	200	5	65	105	85
	300	5	65	125	95
Thermostat at T₂	100	5	85	105	95
	200	5	65	105	85
	300	5	45	105	75
Thermostat at T₃	100	5	75	95	85
	200	5	65	105	85
	300	5	55	115	85