















the Froude number increases, both air flow discharge ( $Q_a$ ) and aeration coefficient ( $\beta$ ) increase linearly.

#### NOMENCLATURE

$h$	water depth	m
$Q_{air}$	air discharge	$m^3s^{-1}$
$Q_w$	water discharge	$m^3s^{-1}$
$Y_{C90}$	water depth where $C=90\%$	m
$T_u$	turbulent intensity	
$L_C$	cavity length	m
$u'$	velocity fluctuation	$ms^{-2}$
$U$	mean velocity	$ms^{-2}$
$Z$	height from the bottom of water body	m
Greek letters		
$\theta$	aerator ramp angle	deg
$\beta$	aeration coefficient	
$\rho$	water density	$kg.m^{-3}$
$\varphi$	chute angle	deg

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