

Online supporting data:

Table 1: Comparison of cavitation detection from experiment and simulation.

Detection method		Flow rate, mL min ⁻¹							
		8	9	10	11*	12	16	20	26
Experimental	Noise	no	no	no	no	yes	yes	yes	yes
	TPA	no	no	no	no	yes	yes	yes	yes
CFD model		no	n.d.	no	yes/no	yes	n.d.	yes	yes

*Several cells at the beginning of the reduction contained a small amount of vapor. n.d., not determined.