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**Nomenclature**

SYMBOL	DESCRIPTION	UNITS
D	Diameter of cylinder.	m
L	Length	m
LCD	Liquid crystal display	----
Re	Reynolds Number	----
SPL	Sound pressure level	dB
U	Air flow velocity.	m/s
St	Strouhal Number.	----
$f$	vortex shedding frequency.	Hz
$\rho$	density	Kg/m <sup>3</sup>
DNS	Direct Numerical Simulation	----
TDIBC	time domain impedance boundary condition	----
LEE	Large Euler Equations	

**Subscript**

**a= air**