Tables

Table 1 - Pressure Acoustic Boundary Conditions

Index	Domain and Boundary condition	Equations
1. Boundary	Pressure Boundary	P = Po
2. Boundary	Sound soft boundary	- n.¿P) = 0
3. Boundary	Sound hard boundary	$P_t = 0$
4. Boundary	Axis-symmetric coordinate	r = 0

Table 2 - Laminar Flow Boundary Conditions

Index	Domain and Boundary condition	Equations
1. Boundary	Wall Boundary (slip)	-n.u= 0
2. Boundary	Wall Boundary (no slip)	u = 0
3. Boundary	Axial Symmetry	r = 0
4. Domain	Volumetric Force	F = $\frac{2\alpha I}{\rho C}\ \frac{N}{m^3}$

Table 3 - Heat Transfer Boundary Conditions

Index	Domain and Boundary condition	Equations
1. Domain	Cell suspension domain (volumetric heat source active, isothermal)	$Q_g = \frac{Input\ Power \times conv.factor}{sample\ volume}$
2. Domain	Tube wall domain (tube material – polypropylene)	
3. Domain	Ice-bath domain	
4. Boundary	Insulation	n.q = -n.q = 0
5. Boundary	Axial Symmetry	r=0