Table 0.1: Experiment Nomenclature

Parameter	Abbreviation	Units
Fluid (Water)	W	
Aggregate Material or Sample	R	
Energy	Q	J
Net Energy Exchange [Source – Sink]	$Q_{net}[W-R]$	J
Time Step Energy Exchange [Source – Sink]	$Q(t)[W-R]$	J
Volumetric Heat Capacity of Fluid (Water)	Cv_W	$\frac{J}{L*K}$
Bulk Specific Heat of Aggregate	c_R	$\frac{kJ}{kg*K}$
Vessel Residency Time	t_V	s
Aggregate Bulk Specific Gravity	ρ_R	
Aggregate Bulk Thermal Conductivity	κ_R	$\frac{W}{m*K}$
Aggregate Bulk Thermal Diffusivity	α_R	$\frac{m^2}{s}$
Aggregate Mass	m_R	kg
Average Top Sensor Temperature	$T[TOP]$	^oC
Time Stepped Bottom Sensor Temperature	$T(t)[BOTTOM]$	^oC
Fluid Flow Rate (L/s)	ν_W	$\frac{L}{s}$
Top - Bottom temperature difference	$\Delta T[TB]$	^oC
Time Stepped $\Delta T[TB]$	$\Delta T(t)[TB]$	^oC
Ambient Temperature	$T[AMBIENT]$	^oC