

Symbol	Description	Units
A_C	Heating coil surface area	m ²
A_{in}	Surface area over which heat is transferred in	m ²
A_{out}	Surface area over which heat is transferred out	m ²
A_P	Phase change material surface area	m ²
C	Specific heat capacity	J/(kg·°C)
C^L	Specific heat capacity of a liquid	J/(kg·°C)
C^S	Specific heat capacity of a solid	J/(kg·°C)
C^V	Specific heat capacity of a vapour	J/(kg·°C)
C_W	Specific heat capacity of water	J/(kg·°C)
C_P^L	Specific heat capacity of PCM as a liquid	J/(kg·°C)
C_P^S	Specific heat capacity of PCM as a solid	J/(kg·°C)
D	Diameter of tank	m
E	Sensible heat	J
E_P	Change in heat energy in the PCM	J
E_W	Change in heat energy in the water	J
$E_{P_{melt}}^{init}$	Change in heat energy in the PCM at the instant when melting begins	J