

PHP obviously. The optimal filling ratio in this paper was 50%. Finally, the appropriate inclined angle of PHP was 90°.

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NOMENCLATURE

- Q electric heating capacity/heat input, W
 R thermal resistance of the PHP, °C/W

T_e	temperature of the condensation section, °C
T_c	temperature of the condensation section, °C
T_i	average temperature of the thermocouple at steady state, °C
U_{\max}	expected maximum uncertainty