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*the Blanks | November 2020 Prediction | Language Academy PTE NAATI CCL Experts ~~Recognizing and Sustaining Process Control Value The Prediction Of Pressure Drop~~*

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analysis model [1, 2, 3, 4, 5] and experimental statistical model [6, 7, 8, 9, 10]. Although lots of academic research and experimental study have been carried out, there is no universal pressure drop prediction model which can suitable for wet gas flow.

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~~Prediction of Pressure Drop and Flow Distribution in Disc ...~~

Neglecting the pressure drop in the plenums, the total heat sink pressure drop can be expressed as

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(5)  $\Delta P_{pred} = \Delta P_{c1} + \Delta P_{c2} + \Delta P_{sp,d} + \Delta P_{sp,f} + \Delta P_{tp} + \Delta P_{e2} + \Delta P_{e1}$ , where  $\Delta P_{c1}$  and  $\Delta P_{c2}$  are the inlet contraction pressure losses,  $\Delta P_{e2}$  and  $\Delta P_{e1}$  are the outlet expansion pressure recoveries,  $\Delta P_{sp,d}$  and  $\Delta P_{sp,f}$  denote pressure drops in the single-phase developing and fully developed sub-regions, and  $\Delta P_{tp}$  is the pressure drop in the two-phase region.

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In designing of condensers, the prediction of pressure drop is as important as the prediction of heat transfer coefficient. Modeling of two phase flow, particularly liquid - vapor flow under diabatic conditions inside a horizontal tube using CFD analysis is difficult with the



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Generally, the total pressure drop across a sieve tray operating in

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