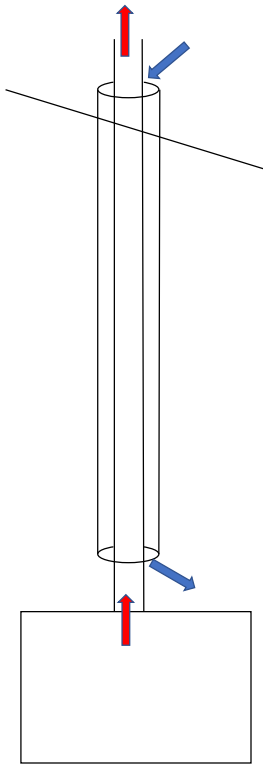


D-IA SINGLE CHANNEL HEATEXCHANGER

Introduction

Companies feel the need to adjust to the government policy to reduce energy use for 50% at 2030 and to be energyneutral at 2050. A problem is to recover ventilation energy in production plants. Especially when the air is polluted for example by a welding machine. Countercurrent heatexchangers can generally not be cleaned because of the thin air channels in these compact units. However a production plant has usually a height of at least 6 m what has the opportunity of a single channel countercurrent heatexchanger.



Problem description

- An energy model for the countercurrent single channel heatexchanger should be made
- The dimensions for the inner tube, outer tube, length, heatexchanging fins and isolation should be calculated regarding the exhaust flow and temperature of a welding machine.
- The heatexchanger should be materialised with products of the regular market.

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