

Title (en)  
Method and apparatus for heat exchange

Title (de)  
Verfahren und Vorrichtung zum Wärmeaustausch

Title (fr)  
Procédé et dispositif d'échange de chaleur

Publication  
**EP 1150082 A1 20011031 (DE)**

Application  
**EP 00115776 A 20000721**

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Abstract (en)  
Process for the indirect heat exchange of gas streams (14, 15, 16) with a hot/cold carrier in heat exchanger blocks (23a, 23b, 23c, 23d, 23e) comprises passing the gas streams through a number of heat exchange passages which terminate at two front surfaces of the heat exchange blocks. The gas streams are introduced via a collector/distributor which extends over the whole front surface of the blocks. An Independent claim is also included for a heat exchanger for the indirect heat exchange of gas streams with a hot/cold carrier in heat exchanger blocks. Preferred Features: Each of the gas streams are introduced through a separate heat exchanger block. The gas streams are under a pressure of 1.1-1.8 bar. The gas streams are obtained by the low temperature decomposition of process air.

Abstract (de)  
Die Erfindung betrifft ein Verfahren zum indirekten Wärmeaustausch von mehreren Gasströmen (14, 15, 16) mit einem Wärme-/Kälteträger (2, 7) in Wärmetauscherblöcken (23a, b, c, d, e), in denen die Gasströme (14, 15, 16) durch eine Vielzahl von Wärmeaustauschpassagen geleitet werden. Hierbei wird durch mindestens einen Wärmetauscherblock (23a, b, c, d, e) nur einer der Gasströme (14, 15, 16) geleitet. Die Wärmeaustauschpassagen des Wärmetauscherblocks (23a, b, c, d, e), durch den dieser Gasstrom (14, 15, 16) enden an zwei Stirnflächen des Wärmetauscherblocks (23a, b, c, d, e) Der Gasstrom (23a, b, c, d, e) wird diesen Wärmeaustauschpassagen über jeweils einen mit dem Wärmetauscherblock (23a, b, c, d, e) verbundenen Sammler/Verteiler (41) zugeführt und entnommen, welcher sich jeweils über die gesamte Stirnfläche des Wärmetauscherblocks (23a, b, c, d, e) erstreckt. <IMAGE>

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