

Catalytic Filter Module and Catalytic Filter System Comprising Same

Abstract

A catalytic filter module for gaseous fluids is proposed which may be incorporated with a high packing density in a filter system. The filter module comprises a block-shaped filter element, a catalytic element and a clean gas collecting and discharge arrangement. The catalytic element is substantially coextensive with the filter element, said filter element has a feed face and on its opposite side a discharge face from which filtrate exits to be received by the upstream face of the catalytic element. The gaseous fluid exits the catalytic element as clean gas at a clean gas face thereof opposite to the upstream face. The clean gas collecting and discharge arrangement comprises one or more channels extending across the whole clean gas face of the catalytic element deflecting and directing the clean gas flow transverse to the vertical of the clean gas face of the catalytic element to a clean gas discharge opening of the filter module at a side face thereof.

Fig. 1A