

Title (en)  
MANIFOLD HOUSING SYSTEM

Title (de)  
GEHÄUSESYSTEM FÜR EINE SAUGROHRANLAGE

Title (fr)  
SYSTEME DE CARTER DE COLLECTEUR

Publication  
**EP 1090223 B1 20020814 (EN)**

Application  
**EP 99928949 A 19990625**

Priority  
• CA 9900592 W 19990625  
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Abstract (en)  
[origin: WO0077384A1] A field replaceable unitary manifold housing for providing combustion air and combustion fuel to an internal combustion engine is disclosed. The housing (16) includes an air purification cavity (22) having a spaced apart air intake (14) and air discharge. The housing also includes a filter (30) for purifying air disposed in the air purification cavity intermediate the air intake and the air discharge. The housing also includes a hollow elongate member (70) having a first end (74) coupled to the filter and a second end coupled to a plenum chamber (22) for directing the air, the plenum chamber being integral with the air purification cavity. The housing also includes a plurality of channels (122), each channel integral with the housing and having a first end integral with the plenum chamber and a second end coupled to a cylinder head of the engine. The air intake induces air into the air purification cavity, the induced air is purified by the filter, the hollow elongate member directs the air from the filter to the plenum chamber, and the plurality of channels direct the air from the plenum chamber to the cylinder head.

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