

ABSTRACT

PIVOTAL DIRECT DRIVE MOTOR FOR EXHAUST ASSEMBLY

An exhaust assembly is provided for expelling contaminated air from a building. The assembly includes a plenum, a fan assembly attached to the plenum, and a windband mounted on top of the fan assembly. The fan assembly is constructed of cylindrical outer and inner walls which define a drive chamber and surrounding annular space. A fan driven by a motor whose shaft extends downward from the drive chamber draws exhaust air from the plenum and blows it up through the annular space to a nozzle at the top of the fan assembly. The motor is pivotally mounted inside the assembly to provide access to the motor components when it is desired to perform inspection and maintenance.

Figure 1