

Abstract

The invention relates to a diffuser (3) for a fan (2) of axial, radial or diagonal type of construction, having an inlet opening (10) and having an outlet opening (20) for a gaseous medium which flows through a diffuser interior (I), which is enclosed by an outer housing (30), in an axially oriented main flow direction (S) from the inlet opening (10) to the outlet opening (20), wherein the cross section (21) of the outlet opening (20) is larger than the cross section (11) of the inlet opening (10), and the cross section of the diffuser interior (I) increases from the cross section (11) of the inlet opening to the cross section (21) of the outlet opening (20), wherein the outer housing (30) forms an outer diffuser part (AD) which delimits the diffuser interior (I) to the outside. To obtain improvements in operating behavior with regard to efficiency and noise with little outlay in terms of construction, it is proposed that, along the main flow direction (S), the cross section of the outer diffuser part (AD) changes from a circular cross section (31) at the inlet opening (10) to a non-circular cross section (32) at the outlet opening (20).

Figure 4