

ABSTRACT OF THE DISCLOSURE

5 A FAN UNIT

10 A fan unit comprises a housing, which possesses a first housing wall having an air inlet, and an opposite parallel second housing wall having an air outlet, and a side wall arrangement connecting the first housing wall with the second housing wall. A holding plate is arranged between
15 the first housing wall and the second housing wall adjacent to the air inlet for a suction blower drawing air from the air inlet and having a blower motor, said blower impeller being arranged between the air inlet and the holding plate, said blower impeller being adapted to blow drawn in air
20 radially outward. The area of the holding plate is at least twice as large as the area of the air inlet and the holding plate together with the first housing wall constitutes a diffusor for the radially emerging blower air. This improves the efficiency of the fan unit and an increase
25 in pressure is achieved which makes possible a reduction in the speed of rotation.

(Figure 1)