

INDUCED FLOW FAN WITH OUTLET FLOW MEASUREMENT

Abstract

An induced flow fan assembly is provided with a pressure tap arrangement at the outlet for measuring the output flow of the assembly. The pressure sensing arrangement includes two rings of piezometers mounted to an outlet windband, one ring at the wider upstream end of the wind band and the other at the narrower downstream end. Data regarding the pressure differential across the windband is acquired electronically and used to determine total output flow of inlet and entrained air streams. The fan assembly is suitable as an exhaust assembly for expelling contaminated air from a building.

Figure 1