



## TDA

Exhaust unit with presence detection for MEV



**Presence detection: starts the basic airflow as soon as a presence is detected.**



**Easy to maintain: removable grille for easy cleaning.**



**Easy adjustment of the basic airflow according to the number of occupants.**

**Battery (9 V) or 12 VAC supply.**

**Output to relay (specific version) to operate external device (light, etc.) upon presence detection.**

### Detecting presence to adapt the airflow

TDA exhaust units directly adapt the exhaust airflow to the presence detected in the room. A simple initial adjustment of the basic airflow according to the usual number of occupants is sufficient to ensure permanent air quality. When the room is unoccupied, the airflow is automatically reduced, allowing savings averaging 50% on thermal losses due to ventilation.

#### Precise detection of presence (1)

The presence detection module comprises a pyroelectric sensor that detects infrared radiation focused by a Fresnel lens. With a 4-meter range and a 100° angle of detection, this is very effective. The infrared radiation focused on the sensor is continually analysed; when a variation is perceived, a signal is sent to the electronic board, which analyses it and then activates the motor controlling the opening of the exhaust unit shutters. The detection module can discriminate between human heat and heaters or lights. The “basic” airflow is started as soon as a presence is detected: the TDA returns to the reduced airflow 20 minutes after the last detection. When the room is empty, this saves up to 50% heating energy (compared to constant ventilation with the same air quality).

#### A simple adjustment determines the basic airflow (2)

A cursor can be used at any time to set the number of people in the office, which determines the basic airflow activated by the detection process (from 25 to 100 m<sup>3</sup>/h).

#### Output to relay

A specific version has an output to operate a relay (6 VDC, I<sub>max</sub>. 100 mA), which can be used to activate an external device such as the light, for example.





# TDA

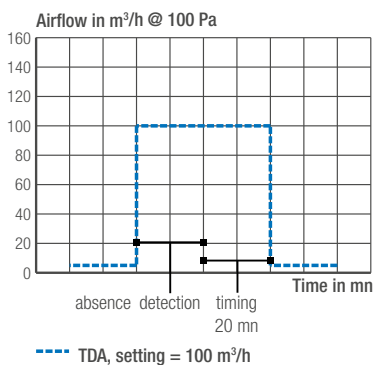
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		TDA 9V TDA874	TDA 12V TDA873	TDA 12V TDA930	TDF TDF875
<b>Standard code</b>					
<b>Airflow characteristics</b>					
Humidity sensitive		-	-	-	-
With boost airflow		■	■	■	fix
Boost airflow activated by presence detection		■	■	■	-
Min. airflow @ 100 Pa	m <sup>3</sup> /h	5	5	5	25 / 50 / 75 / 100
Max. airflow @ 100 Pa	m <sup>3</sup> /h	25 / 50 / 75 / 100	25 / 50 / 75 / 100	25 / 50 / 75 / 100	-
<b>Acoustics</b>					
Sound power level Lw @ 25 m <sup>3</sup> /h - 100 Pa	dB(A)	30	30	30	30
Sound power level Lw @ 100 m <sup>3</sup> /h - 100 Pa	dB(A)	33.3	33.3	33.3	33.3
<b>Power supply</b>					
Battery 9V DC		■	-	-	-
12 VAC supply (integrated)		-	■	■	-
<b>Characteristics</b>					
Weight	g	250	250	250	250
Colour		white	white	white	white
Material (main)		PS	PS	PS	PS
LED detection signal		-	■	■	-
Output for relay connection* (relay = 6 VDC, I <sub>max.</sub> = 100 mA)		-	-	■	-
<b>Installation</b>					
Duct compatibility	mm	ø125	ø125	ø125	ø125
Destination room			office / meeting room (1 TDA for 4 people) / toilets		

\*allows connection to an external relay to control a light for example

■ standard

Airflow characteristics



Dimensions in mm

