

Balancing plenum boxes TAK and PAK



The balancing plenum boxes TAK and PAK are an excellent choice for balancing plenum boxes as they fulfil the accuracy class 1 of the type approval requirements ($\pm 5\%$) and feature an accurate measurement of the pressure difference over the adjustment element.

TAK and PAK fulfil the tightness class C requirements at a pressure difference of 1,000 Pa. TAK has an extremely low structural height and is easy to install. PAK, designed for exhaust air, opens easily for superior ease of cleaning, for example in connection with duct sweeping.

The TAK balancing plenum box ensures a constant, silent airflow to supply air diffusers. With TAK and PAK, you can adjust the airflow accurately, exactly to specification and at the same time efficiently dampening the sound from the ducts. The adjustment element can be locked, ensuring that the adjustment position will not change even if the adjustment element is removed, for example when cleaning the ducts.

Materials and surface treatment

TAK and PAK are manufactured from galvanised sheet steel. Their robust construction ensures tightness and secure installation, combined with perfect performance even in difficult locations. Both products are delivered with galvanised steel surface as standard. By special order, TAK and PAK can be painted in any colour in the RAL K1 colour chart, and also with antibacterial paint.

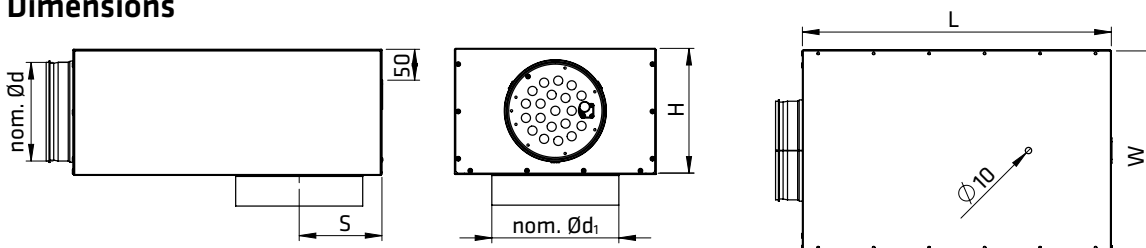
Patented adjustment element

The balancing plenum boxes TAK and PAK are high-quality airflow measurement and adjustment devices with a patented adjustment element. The TAK ensures a constant airflow to supply air diffusers, while slowing down the airflow velocity accurately and silently and dampening the sound from the ducts. The standard dampening material is polyester fibre (Dacron) that does not emit loose fibres or particles. The performance values of the type-approved TAK and PAK have been measured according to standards ISO 5135 and EN 1751, and they meet D2 and E7 requirements.

Why TAK or PAK?

- A good energy efficiency of a ventilation system is achieved through accurate, high-quality components
- Easy installation and adjustment
- Superior ease of cleaning
- Decades of manufacturing experience
- Type approved
- The choice of the professional

Dimensions



	nom. Ød	nom. Ød ₁	L	H	W	S	kg
TAK/PAK-100/125	100	125	440	140	250	92	3,7
TAK/PAK-125/160	125	160	440	165	250	110	4,0
TAK/PAK-160/200	160	200	490	200	320	130	5,3
TAK/PAK-200/250	200	250	560	240	380	155	7,4
TAK/PAK-250/315	250	315	690	290	430	187	10,2

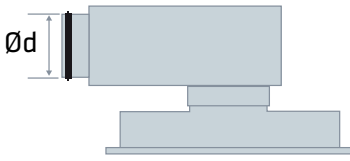
Minimum air volumes at measured pressure difference 15 Pa:

TAK and PAK 100/125	9 l/s
TAK and PAK 125/160	14 l/s
TAK and PAK 160/200	20 l/s
TAK and PAK 200/250	40 l/s
TAK and PAK 250/315	80 l/s

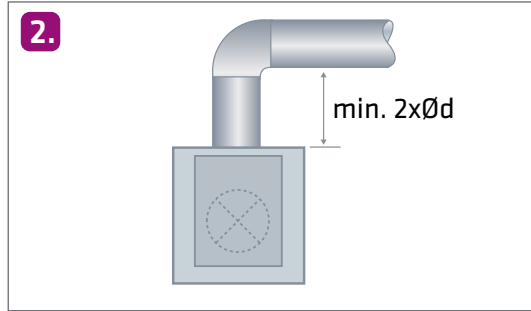
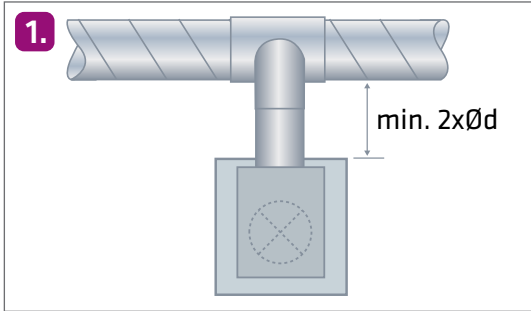
NOTE! The balancing plenum box for exhaust air is PAK. Dimensions the same as TAK.

TAK 100/125
100 = Balancing plenum box duct size
125 = Size of the connected diffuser

Safety distances



The safety distances has the following effects on the balancing plenum box sound level and airflow measuring accuracy:



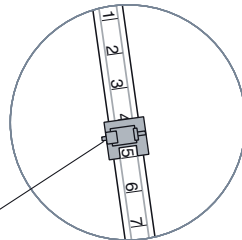
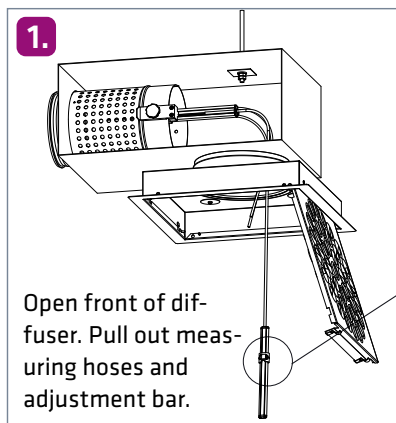
1. After T joint

Airflow measuring accuracy class 1 ($\pm 5\%$). The sound level will increase depending on the airflow velocity and the safety distances, as well as the combined effect of the T joint, balancing plenum box and terminal device, when the balancing plenum box is installed in the branching duct.

2. After bend

Airflow measuring accuracy class 1 ($\pm 5\%$). Sound level increase +4 dB(A).

Easy maintenance



Do not open adjustment lock.

