Sustainable Air Distribution with CradleVent

Halfround KE-Hybrid System with MV laser holes (Medium Velocity), Cradle to Cradle

KE Cradle-to-Cradle textile ducts

The gym B43-1 in Heilsbronn, Germany, is ventilated with consideration for the environment and sustainability with the certified KE Cradle-to-Cradle textile ducts.

CradleVent is the world's first textile duct to be certified by the accredited EPEA Institute in Hamburg according to the Cradle to Cradle System.

A total of 24,000 m³ of air is distributed through different KE Fibertec textile duct systems in the different room dimensions of the B43-1 gym.

Halfround (D) KE-Interior System (KE Low Impulse), Cradle to Cradle

> **Satisfaction is our highest demand.**
>
> That is the slogan of Manager Peter Kirchberg, Werner Seßner and Ramona Kvesic. The innovative gym B43-1 GmbH is TÜV-certified according to DIN standard 33961 and thereby offers a unique proof of quality of their professional, qualitative, and health-oriented fitness equipment.

Case: Gym B43-1, Heilsbronn, DE

Half-round (D) KE-Interior System (KE Low Impulse), Cradle to Cradle

½ D-KE-Interior System (KE Low Impulse) - Cradle to Cradle

Responsibility for the environment

Gym B43-1 also focuses on sustainability and the environment. For their various room sizes they chose a textile based ventilation system from KE Fibertec that is Cradle to Cradle certified by the German EPEA Institute.

KE Fibertec takes responsibility for the environment and seeks to leave as little impact on the environment as possible.

TECHNICAL DATA:

Construction year:	2019
System:	KE-Interior/ KE-Hybrid
Colour:	White (RAL 9010)/ Black (RAL 9005)
Material:	GreenWeave CradleVent
Suspension:	Safetrack

Experience another dimension of fitness

In an area of approx. 2500 square metres B43-1 offers all kinds of training. Whether it is classic strength training, circuit training, varied courses, health sports, functional training, or wellness.

The KE-Interior solution has been installed in several rooms either as a half-round or quarter-round system.

The KE-Interior System ensures uniform distribution of fresh air along the entire system, avoiding drafts as well as dead zones in the room.

An optimally designed half-round system ensures savings in energy consumption due to the very low pressure drop.

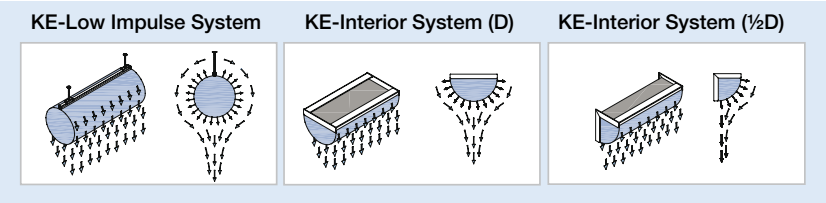
Case: Gym B43-1, Heilsbronn, DE

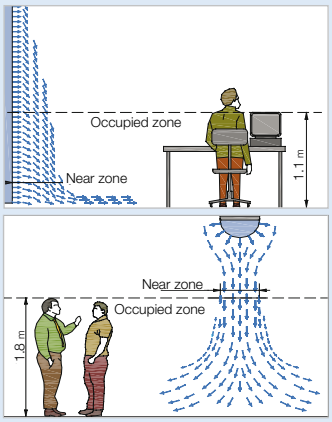
KE-Low Impulse System

KE Fibertec markets two products for textile based low impulse ventilation: the KE-Low Impulse System and KE-Interior System.

The KE-Low Impulse System is produced using round ducts (Ø), while the KE-Interior System is produced using half-round (D) or quarter-round (½D) ducts.

There is basically no difference in the air distribution principle when using these product versions.





OCCUPIED ZONE FOR LOW IMPULSE SYSTEMS

The occupied zone is the area in a room which people occupy for a long period of time and is defined as the area where efforts are made to maintain the indoor climate at a general level.

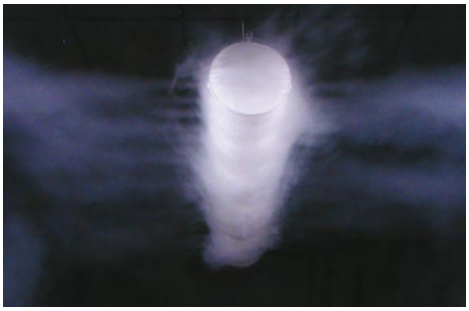
The occupied zone is not a standardised area, but a zone which is defined from one project to another in consultation with the architect and client. The occupied zone is often defined as the zone from the floor up to a height of 1.8 m above people who are in a standing position doing their job, while this height is set to 1.1 m for people who are seated

NEAR ZONE FOR LOW IMPULSE SYSTEMS

In the case of horizontal low impulse systems, the near zone is defined as the zone under the textile ducting where there is the biggest risk of a "cold downdraught" or of draughts in general. The width of the near zone can be reckoned to be no more than three times the duct diameter.

In the case of vertical low impulse systems, the near zone is defined as the local zone around the duct where the air velocity is too high in relation to the room's comfort requirements (depending on the room category).

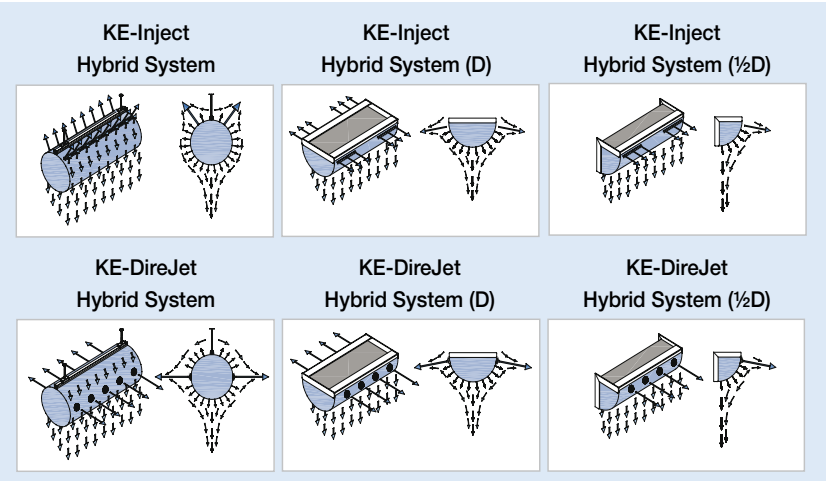
KE-Hybrid System

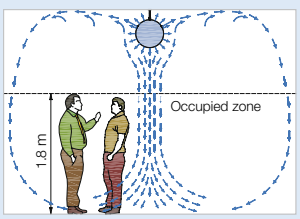


In a nutshell, hybrid systems comprise low impulse ducts which are made active by using holes or nozzles.

Just a few rows of holes or nozzles can change the flow from a passive low impulse system to an active mixing system.

The KE-Inject (with laser-cut holes) and the KE-DireJet (with nozzles) Hybrid System are available as round (Ø), half-round (D), or quarter-round (½ D) textile ducts.





OCCUPIED ZONE FOR HYBRID SYSTEMS

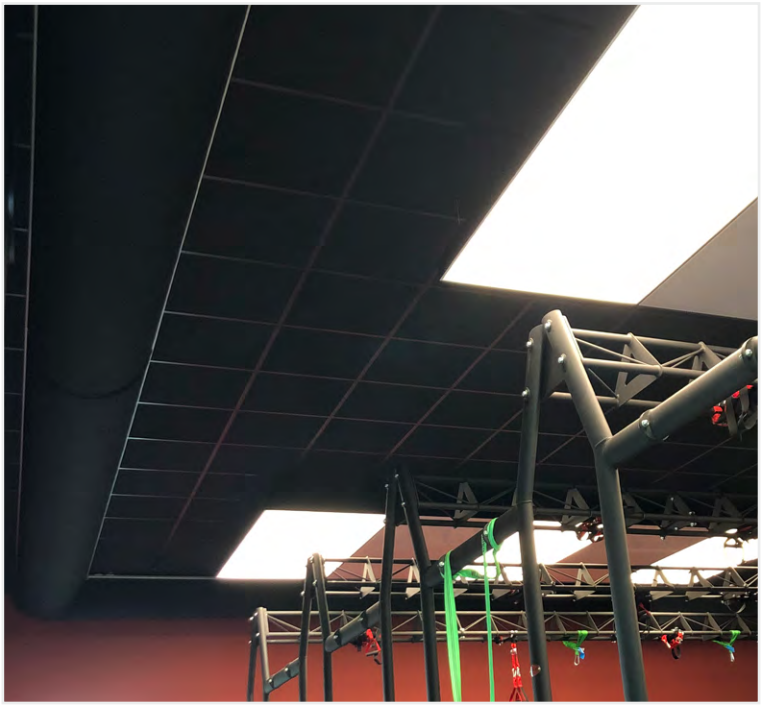
As with low impulse ventilation, the occupied zone is not a standardised area, but a zone which is defined from one project to another in consultation with the architect and client. The occupied zone is often defined as the zone from the floor up to a height of 1.8 m above people who are in a standing position doing their job, while this height is set to 1.1 m for people who are seated.

Case: Gym B43-1, Heilsbronn, DE

KE Fibertec AS is market leader in Textile Based Ventilation. We create good indoor climate through our tailored textile ducts for installation in sports arenas, offices, laboratories, schools etc.

Textile ducts are customizable, easy to install, washable, hygienic, and come in all shapes and colours.

For more information please visit our website: www.ke-fibertec.com.



Training room - half-round (D) KE-Interior System (KE Low Impulse), Cradle to Cradle

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