

## DDS-CAD Ventilation

### Includes all features from DDS-CAD Building

02 10

Intelligent BIM/CAD core (for details see functional overview DDS-CAD Building)	●	●
Intelligent building model (for details see functional overview DDS-CAD Building)	●	●

### Discipline specific features

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Integrated design of climate and ventilation systems	●	●
Flexible planning of round, oval and rectangular duct systems (also in combination)	●	●
Intelligent duct network design in 2D and 3D with automatic object connection	●	●
Flexible representation of the duct network: double line with insulation, flood fill and 3D	●	●
Intelligent storey logic for intelligent duct network connections via ceiling and floor	●	●
Automatic connection of air terminals and mounting height control	●	●
Flexible creation of line and system diagrams with symbols according to EN 12792	●	●
Associative and freely configurable labeling of objects and duct segments	●	●
Automated model quality checks, cross-discipline collision detection and real-time clash prevention	●	●

### Integrated calculations

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Consideration of mechanical ventilation systems in the heat load calculation according to EN 12831	●	●
Air flow specification and calculation of mechanical supply and extract air on an individual room level	●	●
Automatic adjustment of all air terminals in the building taking into account the room air flow	●	●
Design and calculation of controlled ventilation systems according to DIN 1946-6	●	●
Flexible zone function for defining usage units for residential ventilation systems	●	●
Fully automatic updating of ventilation system with associative labeling of calculation results	●	●
Automatic duct dimensioning and pressure loss calculation with hydraulic adjustment		●
Configurable velocity and dimensioning specification per duct segment		●
Visual presentation of air velocity tolerances after system calculation		●

### Add-on modules for DDS-CAD Ventilation

KL-VOB	Automatic duct sheet metal output according to VOB DIN 18379
KL-SPB	Sound level calculation for complete duct systems