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	02	10
Integrated design of climate and ventilation systems	●	●
Flexible planning of round, oval and rectangular duct systems, also in combination	●	●
Intelligent duct network design with automatic object connection	●	●
Flexible representation of the duct network: double line with insulation, flood fill and 3D	●	●
Intelligent storey logic for 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	02	10
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 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	●	●
Definition of ventilation zones and usage units plus consideration of multiple ventilation systems in a building	●	●
Fully automatic updating of flexible labeling for duct work based on calculation results	●	●
Pressure loss calculation with hydraulic adjustments for dampers and air terminals	●	●
Nominal and balanced pressure loss calculation with automatic dimensioning and flow control		●
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 reporting of duct sheet metal output according to VOB DIN 18379