DDS-CAD HVAC/Plumbing 7

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Smart BIM/CAD Core

	02	10	02	10
Common intelligent BIM/CAD core developed by DDS, runs on Windows™ 2000, XP, Vista and Windows™ 7	●	●	●	●
Import and Export of all common formats for example DWG, DXF, 3DS, BMP and JPG	●	●	●	●
DXF/DWG Converter and editor with intelligent symbol recognition - "Click & Learn"	●	●	●	●
Fully Integrated, powerful DWG/DXF Editor, including "Copy & Paste"	●	●	●	●
Network aware and multi-user capability at the project level	●	●	●	●
Multiple windows and views, any number of drawings (2D, 3D, Zoom)	●	●	●	●
Multi-Discipline project management, customisable automatic title field assignment	●	●	●	●
Intelligent Symbol/Component selection with preview, symbol creation and editing	●	●	●	●
Print and plot at any scale with user friendly "plot assistant"	●	●	●	●
Structured BOM (parts list) which can be filtered by storey, room, circuit or distibution board	●	●	●	●
Wide range of interfaces with calculation programs, export to Word/Excel	●	●	●	●

Intelligent 3D Building Model

	02	10	02	10
Flexible and easy planning of floor plans and facilities	●	●	●	●
Intelligent discipline specific data exchange via buildingSMART/IFC 2x3	●	●	●	●
Automatic space definition from DWG/DXF files including windows, doors, room labels	●	●	●	●
Configurable, automatic room labels; automatic associative dimensioning	●	●	●	●
Intelligent construction of roofs, dormers, and roof windows	●	●	●	●
Simple editing of the building model for example due to change by the architect	●	●	●	●
Surface area and volume calculations include consideration of spatial roofs and dormers	●	●	●	●
Intelligent planning of solar collectors	●	●	●	●
Builderswork chase and opening planning with automatic discipline specific labelling	●	●	●	●
Automatic, multi-discipline layer administration	●	●	●	●
3-D color model, hidden line views and multi-discipline collision detection	●	●	●	●
Automatic building model consolidation for presentation, visualisation and project BOQ/BOM	●	●	●	●
Definable sections, views and elevations for various model presentations	●	●	●	●

Plumbing & Heating Functionality

	02	10	02	10
Flexible, integrated 2D/3D development of pipe systems with smart "connect functions"	●	●		
Multi-storey logic and smart building model , including volume and area calculation	●	●		
Calculation of U-value and heat loss requirement according to EN 12831 and other standards	●	●		
Automatic heating element (radiator) placement based on the building information model	●	●		
Installation and system sizing (in combination with other heating systems, e.g. electric, underfloor)	●	●		
Heating network calculation (2-pipe system or reverse return) with automatic updating	●	●		
Pressure loss calculation with hydraulic valve adjustment and valve settings	●	●		
Planning of underfloor heating based on EN 1264	●	●		
Plumbing pipe network calculation according to EN806/circulation according to DVGW W553		●		
2D or 3D construction of plumbing pipe network schematics		●		
Presentation and construction of wastewater systems		●		
Intelligent 2D/3D construction of plumbing distributor schematics		●		
Associative and freely configurable object, equipment and pipe labels and descriptions	●	●		
Parametric symbols with automatic placement and mounting height check	●	●		
Manufacturer data can be integrated via data interface standards, BDH and VDI 3805	●	●		
Execution and assembly drawings, in addition to schematics and equipment arrangements	●	●		

Ventilation Functionality

	02	10	02	10
Flexible, integrated 2D/3D development of pipe systems with smart "connect functions"			●	●
Supports circular, rectangular and oval duct profiles			●	●
Parametric symbols with built in automatic placement and mounting height check			●	●
Multi-storey logic and automatic building model, including volume and surface calculation			●	●
Automatic connection of outlets, mounting height check and collision detection			●	●
Duct sizing and pressure loss calculation with hydraulic balancing				●
Hydraulic balancing with screens, dampers or adjustable air outlets				●
Flow-rate calculation for each individual branch (with dimension defaults)				●
Complete planning and calculation for domestic ventilation				●
Intelligent and configurable total project storey check				●
Associative and freely configurable object, equipment and duct labels and descriptions			●	●
Execution and assembly drawings, in addition to schematics and equipment arrangements			●	●
Parametric symbols with automatic placement and mounting height check			●	●

DATA DESIGN SYSTEM