

AUTOFLUID 10 training

Beginner's program (Page 1/3)

Objectives : Designing 2D drawings using AUTOFLUID 10 in AutoCAD / BricsCad / ZWCAD

Prerequisites : For engineers, experienced draughtsmen and technicians
Proficient in operating the Autocad package or similar on a regular basis
Proficient in working with Microsoft Windows and Internet

Duration : 2 days

Basic settings

- > Preference file
- > Working unit
- > Drawing scale

Sizes computation

- There are 2 types of computations : local or on a network**
- > Computation of air duct sizes
 - > Computation of fluid duct sizes
 - > Computation of sanitary duct sizes

Draughting

- > Introduction to double line drawing
- > Duct structure
- > Specification knowledge
- > Double line or single line routing of :
 - > rigid circular ducts
 - > flexible circular ducts
 - > rectangular ducts
 - > pressure holding tubes
 - > drain pipes
 - > single line set of pipes
- > Cross section drawings and the distance between the centers within the set of pipes
- > Insertion of standard components in line or on already drafted ducts
- > Network intersections :
 - > hidden intersections
 - > cut intersections with offset
- > Customizable air conditioning terminal drawings (AHU, cassette...)

Arrows

- > Automatic drawing and positioning of arrows indicating directions of flows
- > Automatic adjustment of the arrows directions
- > Representation of slopes

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Texts

- > Proportions
- > Choosing a style
- > Create automatic texts, frames, leader lines
- > Formatting of the most common information using prefixes and suffixes
- > Dimensioning

The openings

- > Sizing and drawing openings using existing network drawings
- > Drawing openings without a network
- > Modifying openings
- > Creating a list in the paper space
- > Exporting the list into Microsoft Excel

Quick Modifications Tools

- > Swapping objects
- > Changing profiles
- > Changing text
- > Deleting an object
- > Moving an object onto a duct

Bills

- > Creating zones
- > Network's bills
- > Bills of materials
- > Finding equipment using marker tags
- > Creating lists in the presentation space
- > Export lists into Microsoft Excel

Others

- > Automatic redrawing of ducts after they are cut
- > Working with layers (freeze, transfer, lock, etc.)
- > Changing thicknesses

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Laying out drawings

- > Automatic composition of the drawing in the layout
- > Automatic inserting of title blocks formatting
- > Creating detail views
- > Updating the scale of the views automatically
- > Inserting the file name, its file path and the list of related XREF in the margin automatically

AutoCOUPE

- > Inserting the cutting plane on a cross section automatically
- > Creating accurate base maps from the top view of a plan
- > Module for inserting technical data while on the top view of a plan
- > Module for deleting technical data
- > Rendering and previewing a cross section
- > Automatic drawing of cross section and perfect positioning in the layout
- > Module for quick adjustments to the thickness of slabs level, suspended ceilings and raised floors

Pressure drops computation

- > Nearly all objects dimensions data is already available to the software because it is embedded in every object draughted in AUTOFLUID, as soon as they are created
- > Insert flow, flow direction, hidden lengths and equipment to complete the necessary information
- > Simply click on a selected segment of the chosen route to compute pressure drops
- > Display a schematic view of the route
- > Excel spreadsheet tracking linear and singular pressure drops
- > Tables and computation processes from reference studies in the industry (MEMENTO I.E IDEL'CIK, Air conditioning course PORCHER)

Other computations

- > Fast computation of cumulated flow rates for basic sanitary feeds
- > Computation of levels while routing
- > Computation of levels in an existing drainage network drawing
- > Computation of levels in the case of a vertical displacement of a network in a cross section