
User's Guide

LK Systems Manifold Selection MagiCAD plug-in

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Chapter 1. General

About this document

This document contains instructions on using *LK Systems Manifolds MagiCAD plugin*.

LK Systems Manifolds MagiCAD plug-in allows inserting of LK Systems Manifolds to the MagiCAD drawing.

Installing the software

Required third-party software

LK Systems Manifolds MagiCAD plugin works with the following MagiCAD for AutoCAD versions

- MagiCAD 2014.4/2014.11 and AutoCAD 2010-2015
- MagiCAD 2015.4 or newer and AutoCAD 2010-2016

Installation

1. Download setup file from
<https://portal.magicad.com/download/ProductSearch?searchStr=LK&categoryId=3>
2. Install LK Systems Manifolds MagiCAD plug-in.

Administrator privileges are recommended for installation. **Note if you have several AutoCAD versions on your workstation:** Before you run the installation program, start MagiCAD to make sure that *LK Systems Manifolds MagiCAD Plugin* installs on the same AutoCAD platform as MagiCAD.

Starting the program

Before you start using *LK Systems Manifolds MagiCAD plug-in*, (re)-start MagiCAD and open a Heating and piping project.

If AutoCAD 2013 or later is used, the plug-in is automatically loaded and is ready to be used once AutoCAD is started next time after installing the plug-in. For older AutoCAD versions plug-in CUI-file needs to be loaded manually.

Run **CUILOAD** in AutoCAD, and browse the customization file from following directory:

Directory for cui/cuix-file is by default for

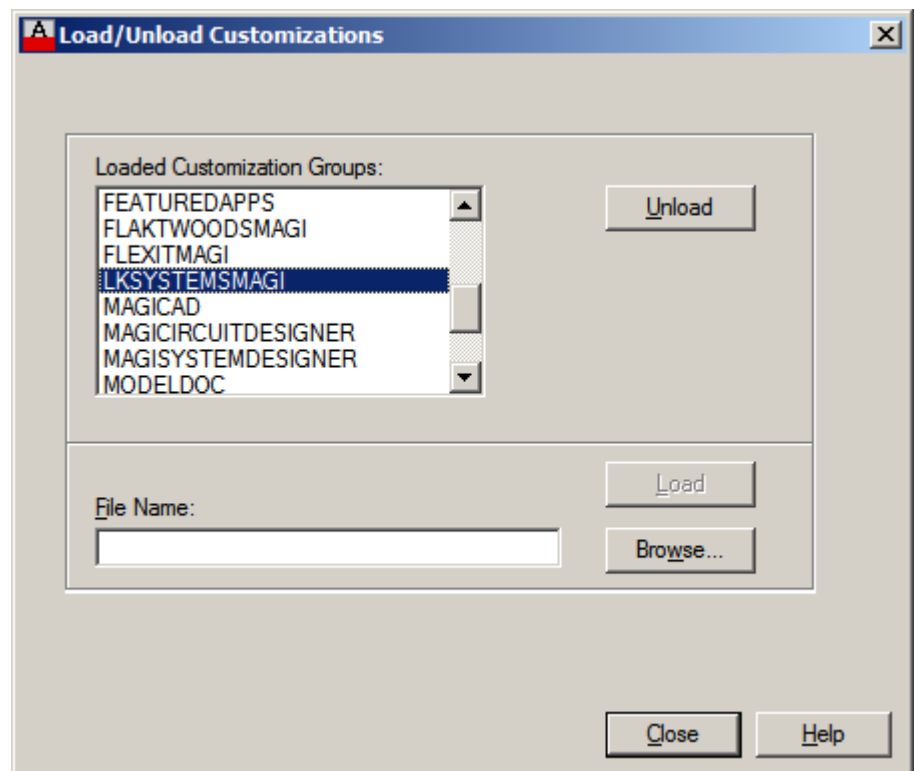
XP: *C:\Documents and Settings\All Users\Application Data\LK Systems Manifolds MagiCAD plugin*

Win7: *C:\Users\All Users\LK Systems Manifolds MagiCAD plugin* or

C:\ProgramData\LK Systems Manifolds MagiCAD plugin

Win8/Win8.1: *C:\ProgramData\LK Systems Manifolds MagiCAD plugin*

The CUILOAD steps are required only if you are running AutoCAD version older than 2013.



When you click *Load*, *LK Systems Manifolds ribbon bar* is loaded.



LK Systems Manifolds Ribbon/Toolbar functions.

Chapter 2. Functions

LK Systems Manifolds MagiCAD plug-in

Plug-in contains following functions:



UNI Potable water UNI Heating/Cooling

- - Open the LK Systems Manifolds Potable water or LK Systems Manifolds Heating/Cooling web page and insert new LK Systems UNI manifold to the MagiCAD drawing.



RF Floor heating

- - Open the LK Systems Manifolds Floor heating web page and insert new LK Systems Floor heating manifold to the MagiCAD drawing.



Material list

- - Export the list of materials for the selected LK Systems manifolds.

Insert UNI manifold



UNI Potable water UNI Heating/Cooling

Click the UNI Potable water or UNI Heating/Cooling button on AutoCAD LK Systems Manifolds Ribbon/Toolbar.

Follow these steps for Inserting LK Systems UNI manifold to the MagiCAD drawing:

1. Add products to Cold potable water / Supply manifold / Lower manifold and Hot potable water / Return manifold / Upper manifolds by repeating the following steps
 - 1.1 Select appropriate manifold type.
 - 1.2 Select appropriate manifold from the list of products of selected manifold type.
 - 1.3 Specify size and type of outlet connections.
 - 1.4 Press Add button to add manifold to supply or return to manifold. The product on the top of the list will be most left in the manifold.
2. Select feed pipe position and possible ball valve for the manifold.
 - If the feed pipe is not straight and valve is not selected - the angle would be a part is a part of the manifold as on a picture below.
 - If the feed pipe is not straight and a valve selected - the angle on a picture below is just a schematic and angle valve will be inserted.
3. Cabinet and cabinet's frame can be removed if needed.
4. Enter the amount of accessories for the manifolds. For the automatically generated accessories the amount is read-only.
5. Select the MagiCAD system for the manifolds.
6. Select pipe series for the pipes if manifold valves are selected.
7. Enter the installation height.
8. Enter the user code for MagiCAD.
9. Enter description for MagiCAD and material list.
10. Press Install button to install the manifold or cancel to close the dialog.

LK Systems Manifold Selection

LK Systems

POTABLE WATER

MANIFOLD

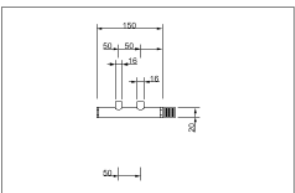

Manifold type: UNI 1/2"

Manifold: UNI 2-1/2" / Up

Outlet connections: 1 2

Size: 16 20

Type: Press Compress

COLD POTABLE WATER MANIFOLD / LOWER

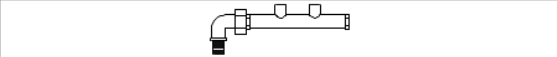
UNI 2-1/2" / Up

Add

Feed pipe position: [Left/Right]

Ball valve:

Manifold preview: Click on image to open dimensional drawing.



HOT POTABLE WATER MANIFOLD / UPPER

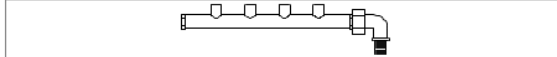
UNI 2-1/2" / Up
UNI 2-1/2" / Up

Add

Feed pipe position: [Left/Right]

Ball valve:

Manifold preview: Click on image to open dimensional drawing.



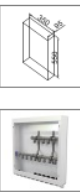
CABINET

Cabinet:

LK Manifold Cabinet UNI 350

Frame:

If you need pre-assembled or customized cabinets with manifolds, with or without water meter, please contact LK Prefab at info@lkprefab.se



ACCESSORIES

Cap	
LK Cap 1/2"	0
LK Cap 3/4"	0
Plain adapter	
Plain adapter 15	0
Plain adapter 20	0
Pipe inlet	

MagiCAD system: W1 "Tap water 1"

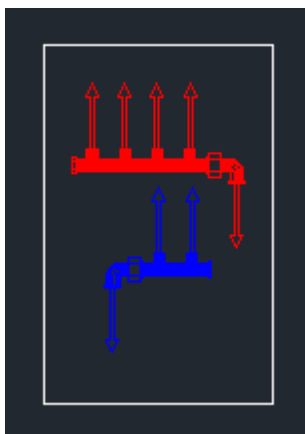
Installation height (mm): 400

User code: LKPW1

Pipe serie: LKPEX "LK PE-X Universal"

Description: LK Potable water manifold

Install Cancel



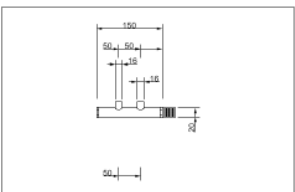

LK Systems Manifold Selection

LK Systems

HEATING/COOLING

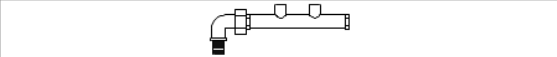
MANIFOLD

Manifold type: UNI 1/2"
 Manifold: UNI 2-1/2" / Up
 Outlet connections: 1 2
 Size: 16 20
 Type: Press Compress

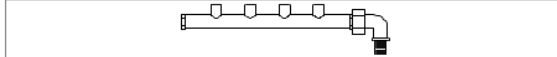
SUPPLY MANIFOLD / LOWER

UNI 2-1/2" / Up
 Add
 Feed pipe position: [up/down arrows]
 Ball valve:
 Manifold preview: Click on image to open dimensional drawing.





RETURN MANIFOLD / UPPER

UNI 2-1/2" / Up
 UNI 2-1/2" / Up
 Add
 Feed pipe position: [up/down arrows]
 Ball valve:
 Manifold preview: Click on image to open dimensional drawing.



CABINET

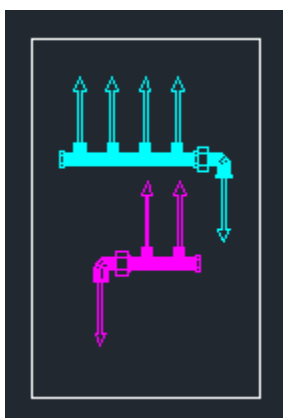
Cabinet:
 LK Manifold Cabinet UNI 350
 Frame:
 If you need pre-assembled or customized cabinets with manifolds, with or without water meter, please contact LK Prefab at info@lkprefab.se

ACCESSORIES

Cap	
LK Cap 1/2"	0
LK Cap 3/4"	0
Plain adapter	
Plain adapter 15	0
Plain adapter 20	0
Pipe inlet	

MagiCAD system: C1 "Cooling 1" Installation height (mm): 400 User code: LKHC1
 Pipe serie: LKPEX "LK PE-X Universal" Description: Lk Heating-Cooling manifold
 Install Cancel



Insert Floor Heating Manifold



RF Floor heating

Click the Floor button on AutoCAD LK Systems Manifolds Ribbon/Toolbar.

Follow these steps for Inserting LK Systems RF floor heating manifold to the MagiCAD drawing:

1. Select appropriate manifold type.
2. Select the size of outlet dimension.
3. Select LK Manifold Shunt VS or Flow or Return ball valves.
4. Select feed pipe position.
5. Cabinet can be removed if necessary.
6. The base for the Cabinet can be selected if the Cabinet is selected.
7. Enter the amount of accessories for the manifolds. For the automatically generated accessories the amount is read-only.
8. Select the MagiCAD system for the supply and return sides.
9. Select pipe series for the pipes if manifold valves are selected.
10. Enter the installation height.
11. Enter the user code for MagiCAD.
12. Enter description for MagiCAD and material list.
13. Press Install button to install the manifold or cancel to close the dialog.

Note: If manifold with the shunt is selected, the pressure drop and the power of the shunt should be filled to connection node of the primary circuit.

LK Systems Manifold Selection

LK Systems

FLOOR HEATING

MANIFOLD

Manifold
 Outlet dimension 12 16 20

LK Manifold Shunt VS

Flow
 Ball valve

Return
 Ball valve OptiFlow EVO II

Feed pipe position → ←

CABINET

Cabinet

Base Only for outside wall mounting

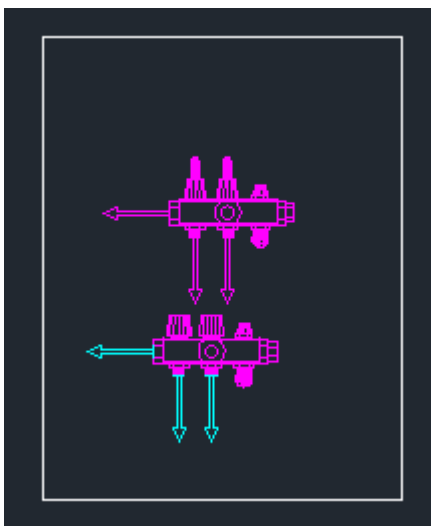
ACCESSORIES

By-Pass
 LK By-Pass RF

Connection Set
 LK Connection Set Straight 1"m x 25x2,3
 LK Connection Set Straight 1"m x 32x2,9
 LK Connection Set Angle 1"m x 25x2,3
 LK Connection Set Angle 1"m x 32x2,9

MagiCAD system Installation height (mm) User code

Pipe serie Description



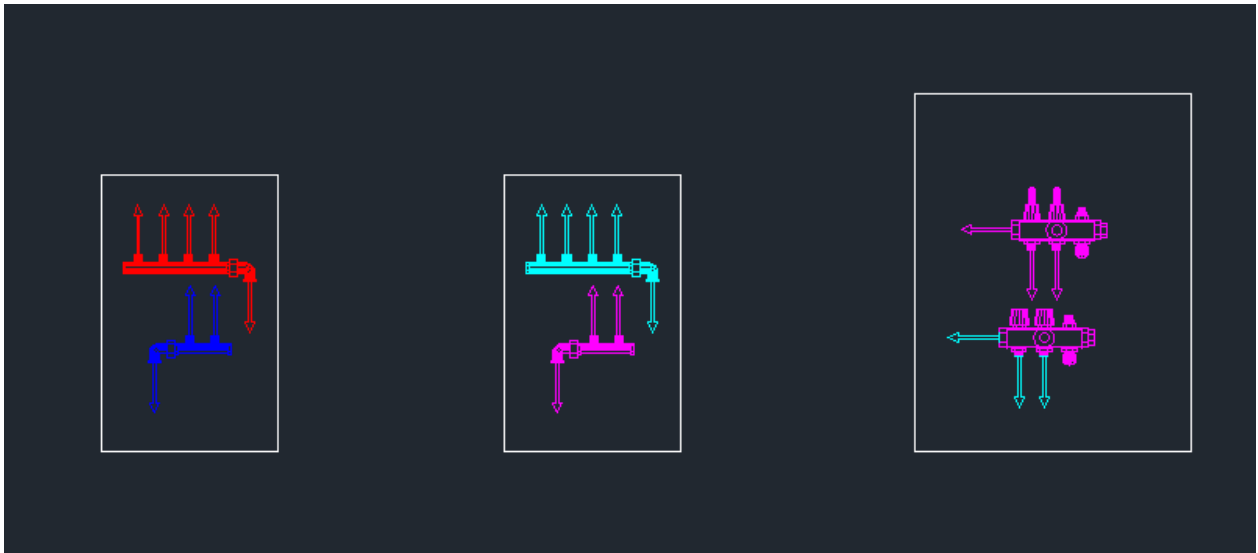
Material list



Material list

Click the Material list button on AutoCAD LK Systems Manifolds Ribbon/Toolbar.

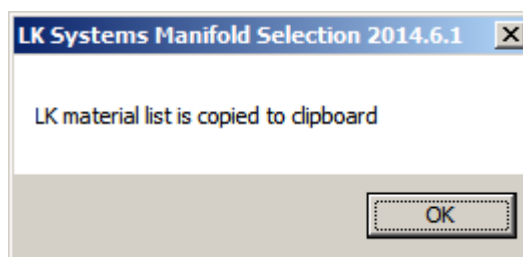
Select the manifolds to export to material list.



Press Enter when all the manifolds are selected.

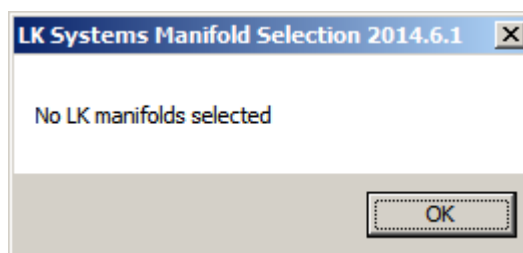
If LK Systems manifolds were found in selected entities

“LK Material list is copied to clipboard” message will appear.



If LK Systems Manifolds were not found in selected entities

“No LK manifolds selected” message will appear.



Exported material list can be pasted to Microsoft Excel.

	A	B	C	D
1	Description	RSK	Product	Quantity
2	Heating/Cooling manifold	187 06 88	UNI 2-1/2"	3
3	Heating/Cooling manifold	187 44 77	LK Manifold Cabinet UNI 350	1
4	Heating/Cooling manifold	187 44 80	LK Frame with lid for UNI cabinet 350	1
5	Heating/Cooling manifold	187 66 08	LK Press Connection 1/2" x AX16	6
6	Heating/Cooling manifold	187 06 86	LK End cap 3/4"	2
7	Potable water manifold	187 06 88	UNI 2-1/2"	3
8	Potable water manifold	187 44 77	LK Manifold Cabinet UNI 350	1
9	Potable water manifold	187 44 80	LK Frame with lid for UNI cabinet 350	1
10	Potable water manifold	187 66 08	LK Press Connection 1/2" x AX16	6
11	Potable water manifold	187 06 86	LK End cap 3/4"	2
12	Floor heating manifold	241 93 50	LK Manifold RF - 2	1
13	Floor heating manifold	241 92 96	LK Cabinet WP RF 550	1