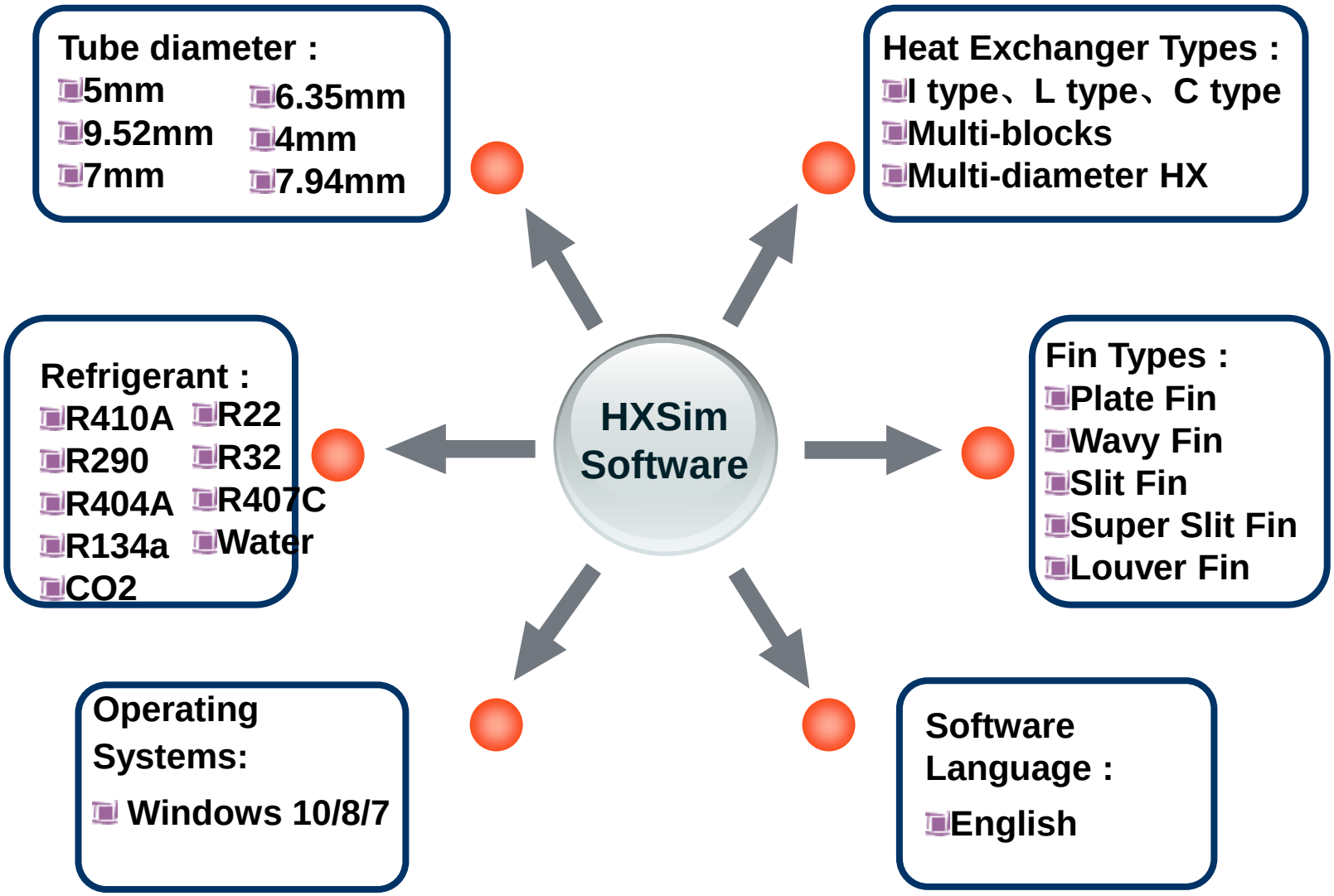
Cu Copper Alliance

HXSim Simulation Software
GETTING STARTED

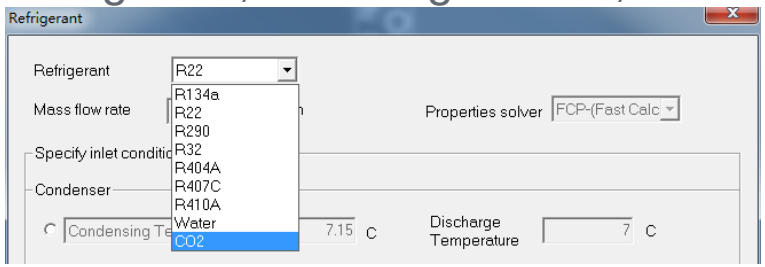
V3.3
2021

Brief

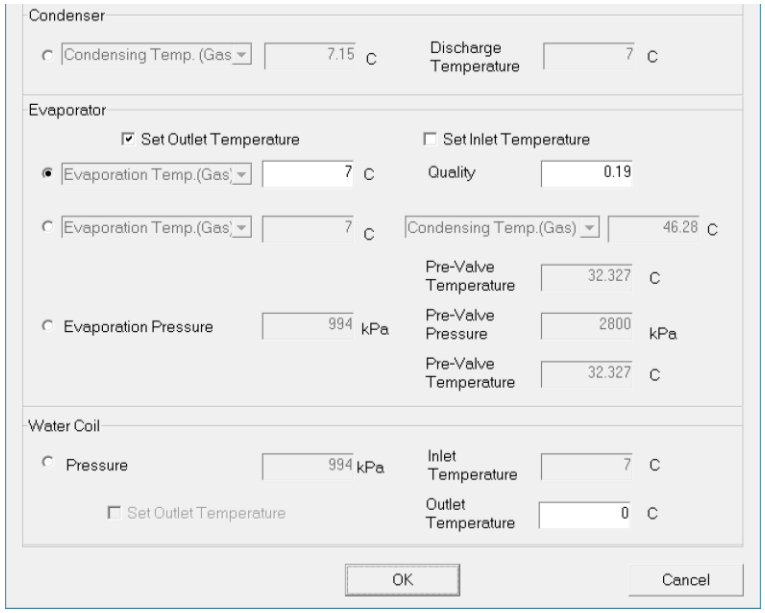

Tube diameter :
5mm
6.35mm
9.52mm
4mm
7mm
7.94mm
Heat Exchanger Types :
I type、L type、C type
Multi-blocks
Multi-diameter HX
Refrigerant :
R410A
R22
R290
R32
R404A
R407C
R134a
Water
CO2
HXSim Software
Fin Types :
Plate Fin
Wavy Fin
Slit Fin
Super Slit Fin
Louver Fin
Operating Systems:
Windows 10/8/7
Software Language :
English

Improvement of Latest Version HXSim v3.3

- ✓ Add 5 kinds of new refrigerant, including R404A, R407C, R134a, Water, CO_2.

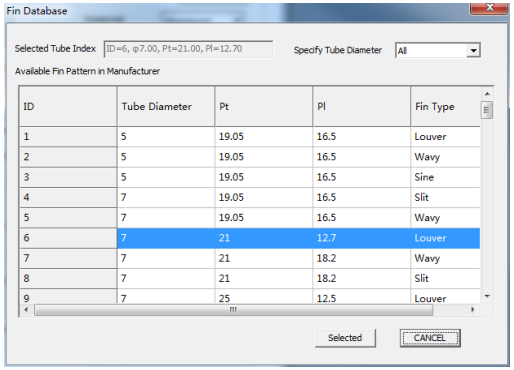


- ✓ Add different heat exchanger roles, including condenser, evaporator and water coil.

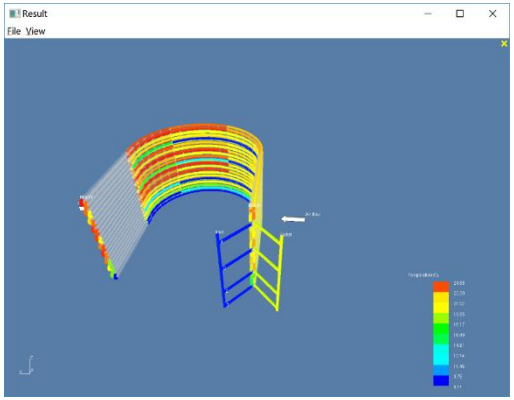


Improvement of Latest Version HXSim v3.3

- ✓ Add 5 kinds of new 5mm tubes and 12 kinds of 5mm fins. And switch to database.



- ✓ Optimize the algorithm to make calculation faster. And update the graphical display to show the different temperature.



Installation and Registration

- ✓ Run HXSim.msi, the following dialog will pop out for register as shown in Fig.1. Send the registered ID via email to yyli@craheta.org, you will get the registered code within 1-2 days.
- ✓ Input the registered code as Fig.2. Click the button “Register”, a dialog of “Succeed to login” will pop out to finish the installation.

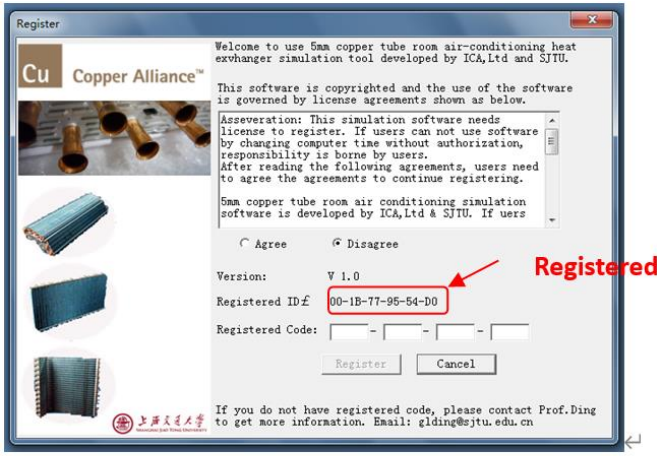


Fig.1

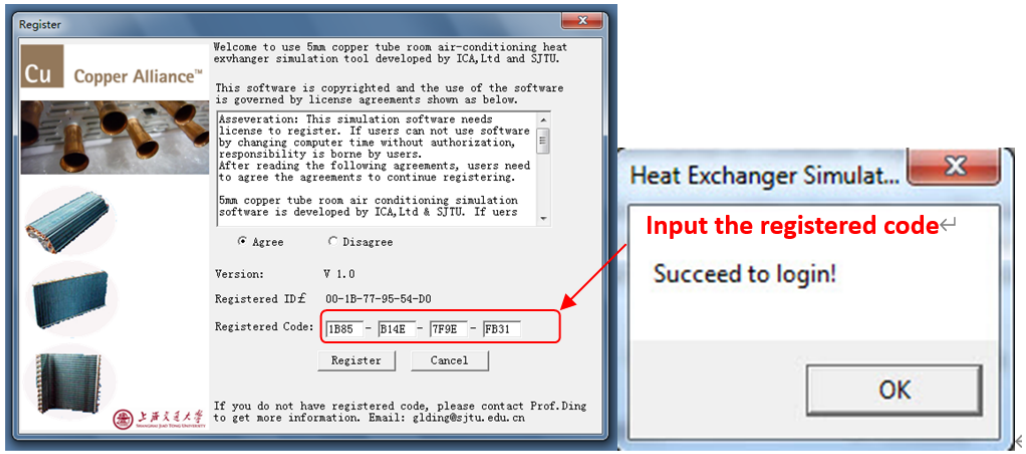
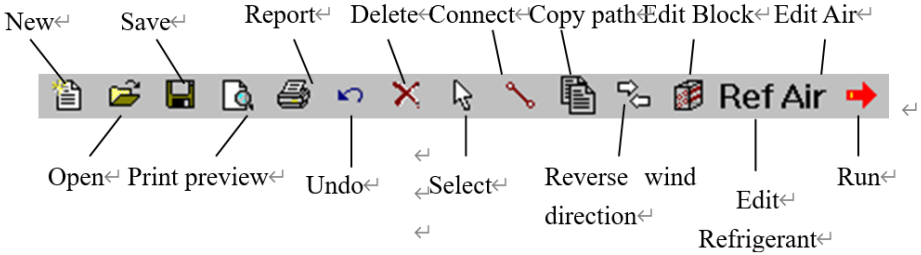
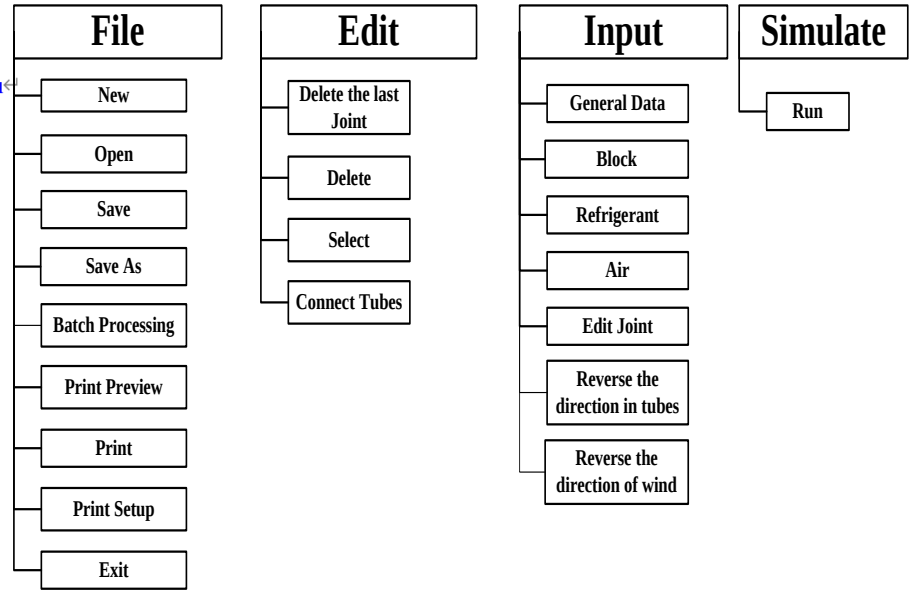
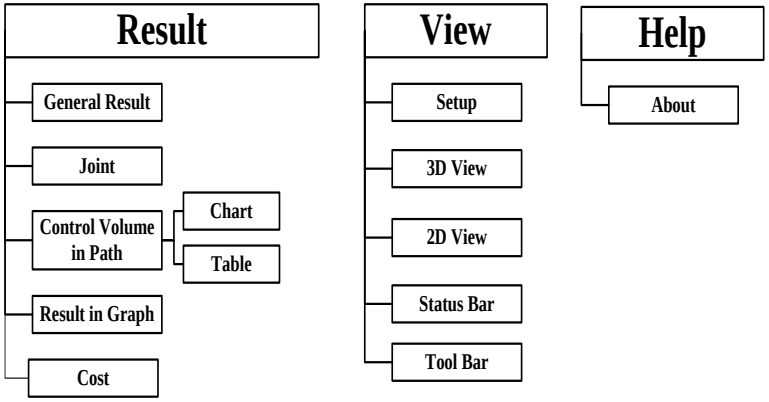


Fig2

Main Menu and Toolbar

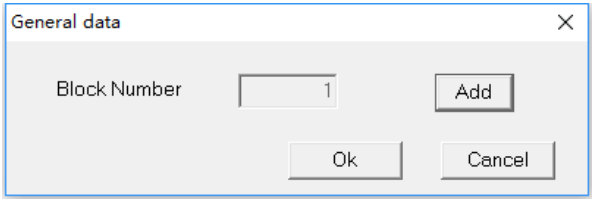




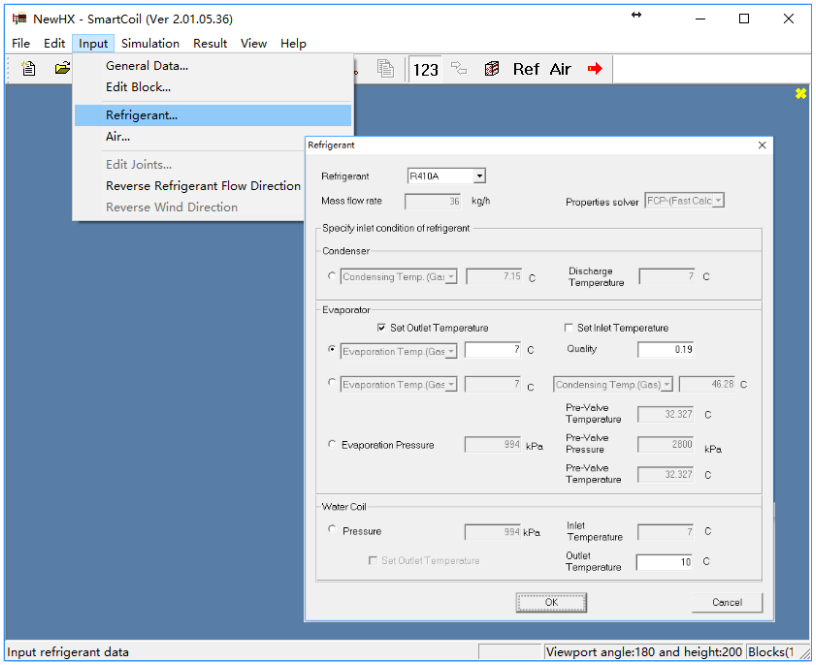


Data Input

- ✓ General data input window

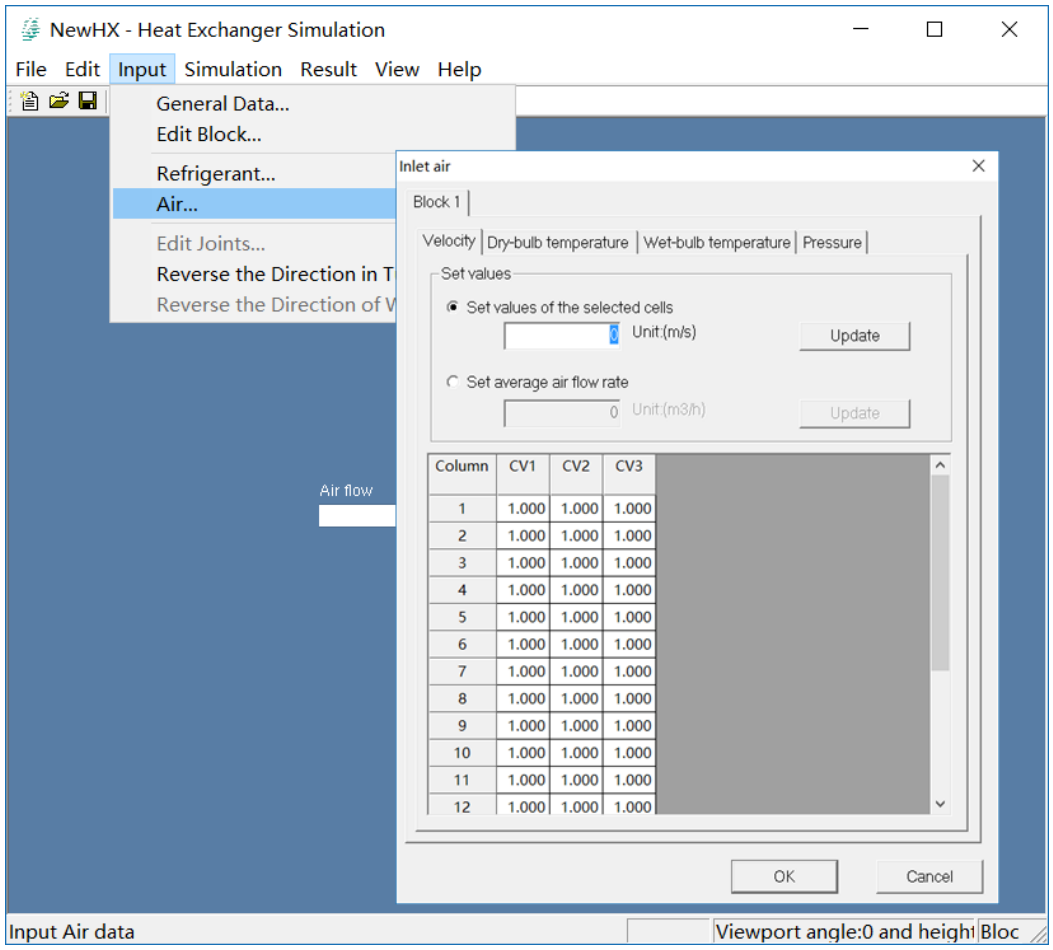


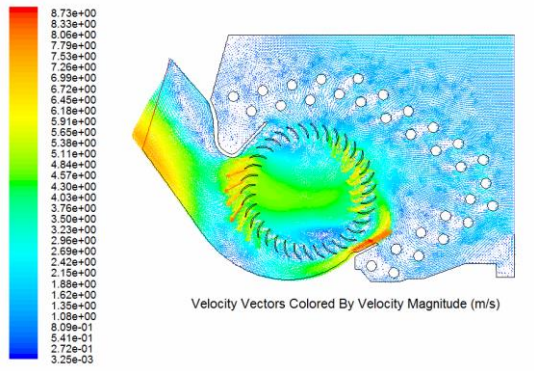
- ✓ Refrigerant status input window

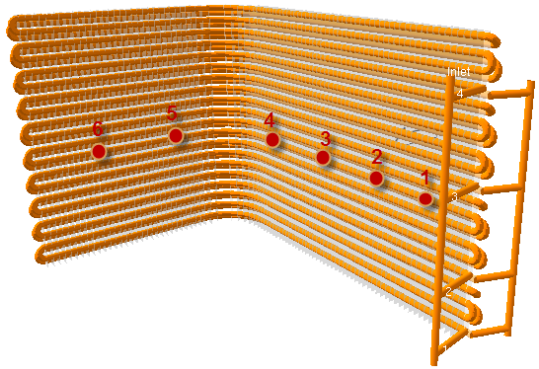


Data Input

- ✓ Inlet airflow input window

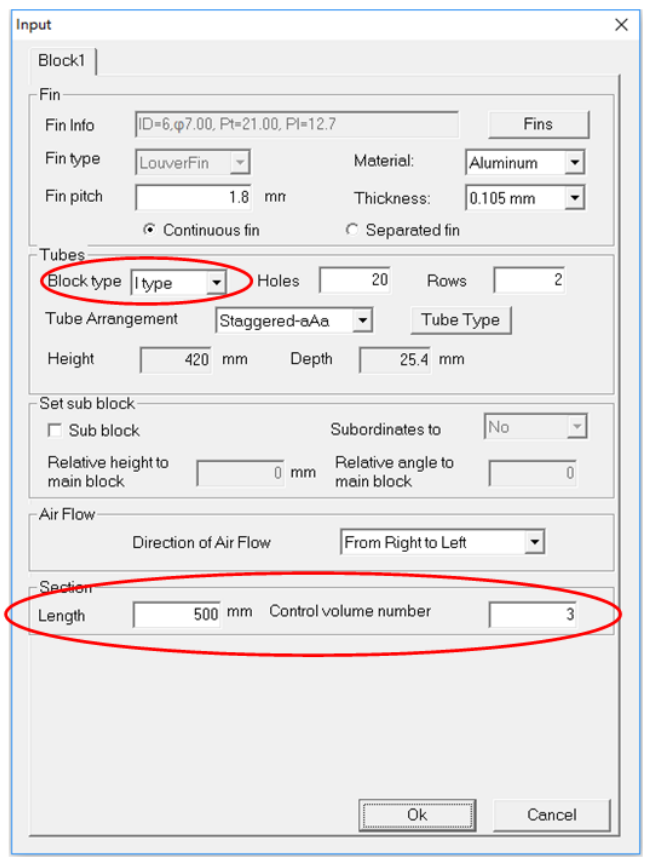




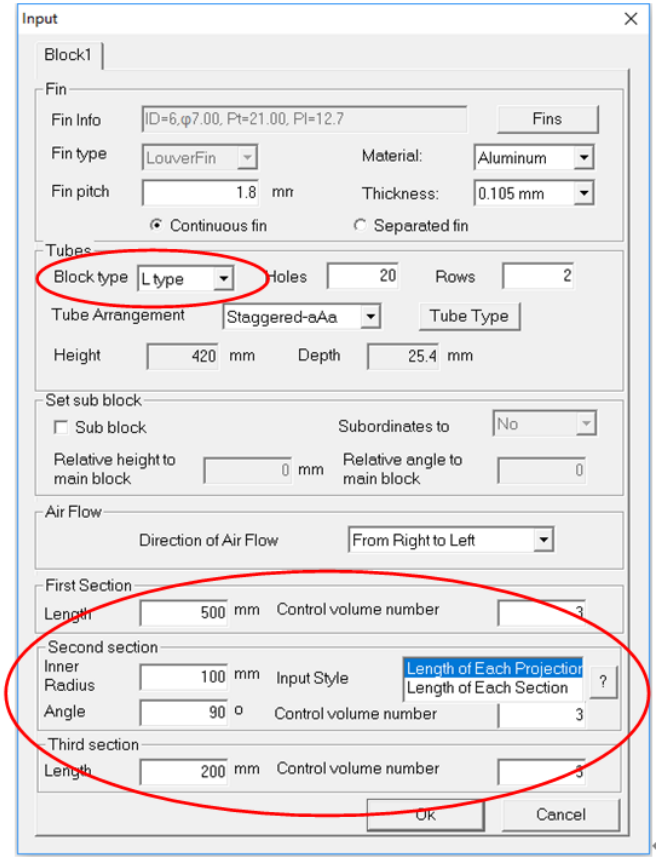


Data Input

- ✓ Heat exchanger dimension input window



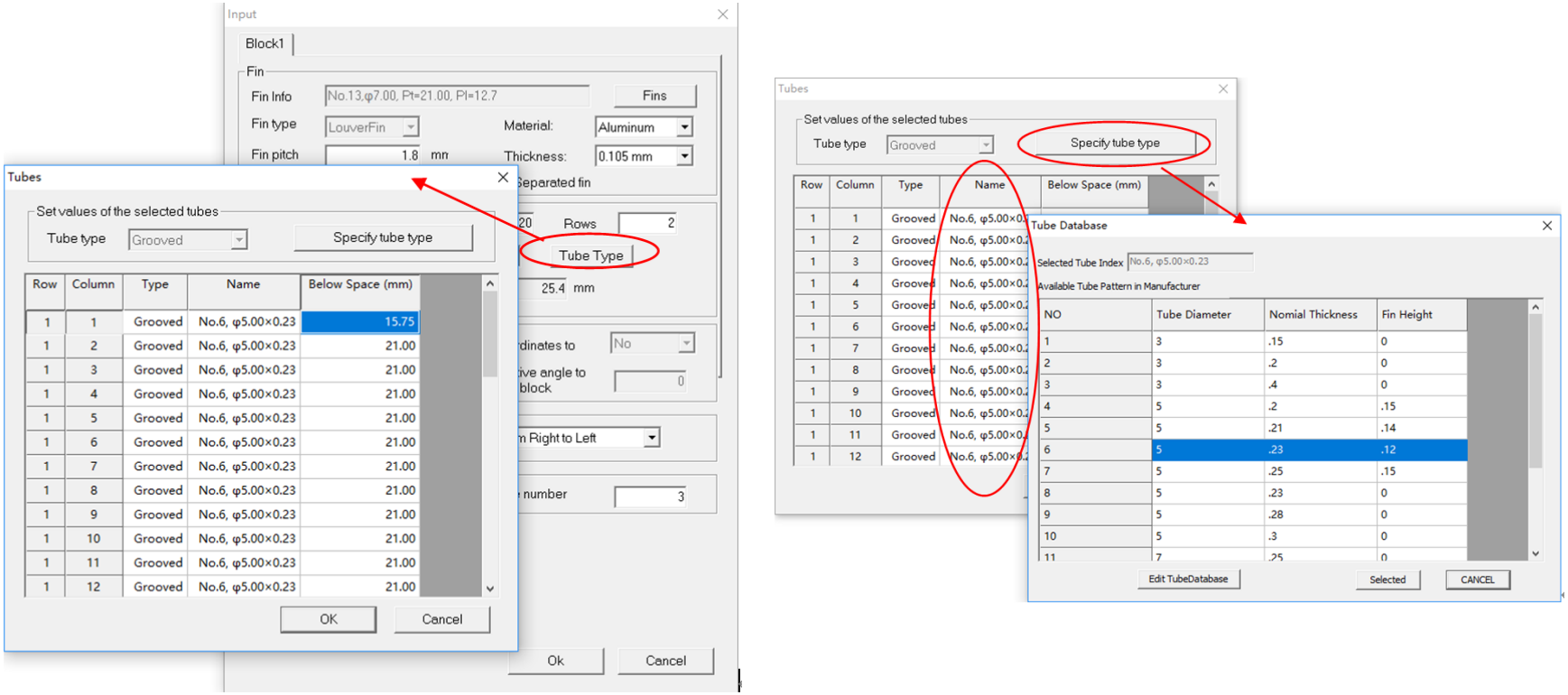
(a) I type



(b)L type

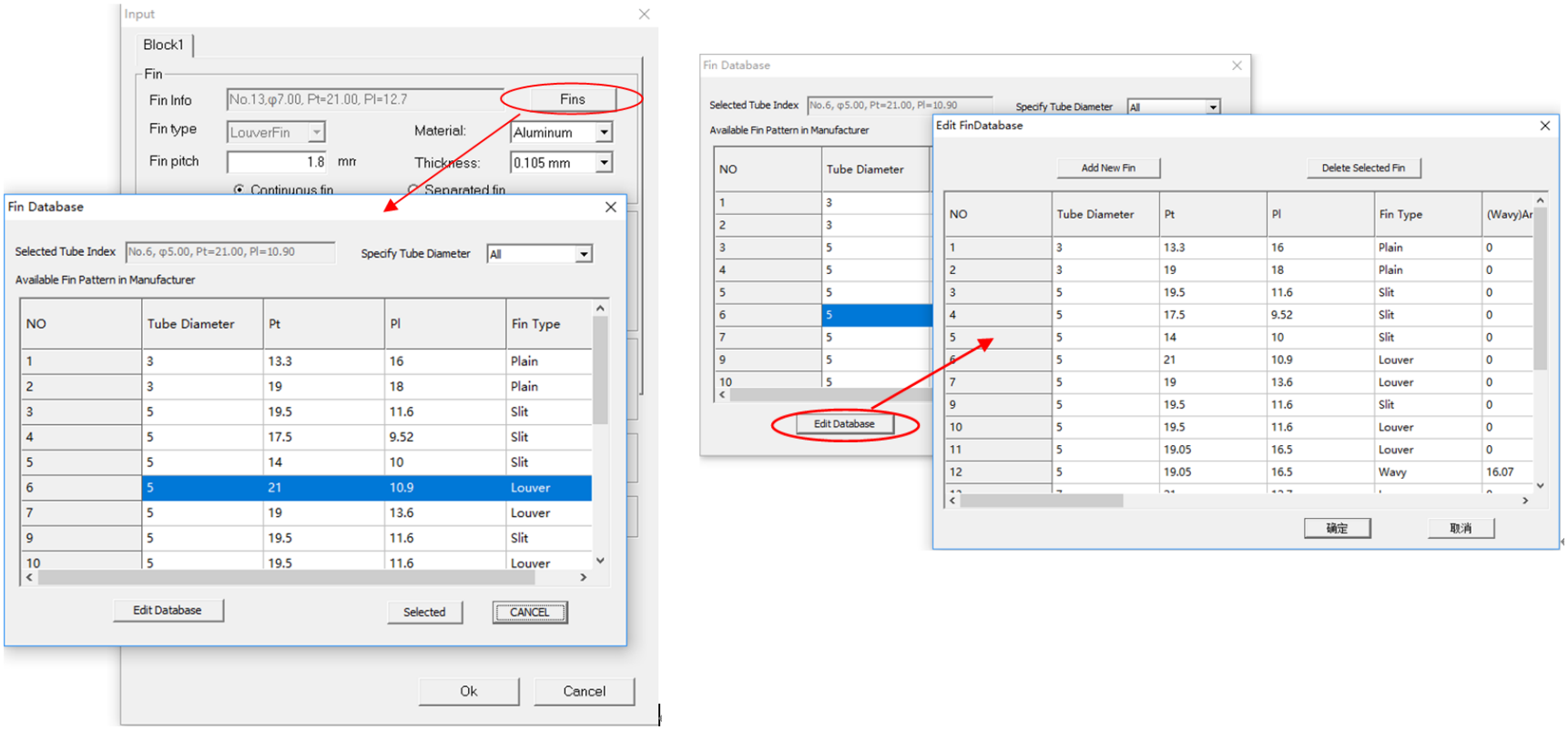
Data Input

- ✓ Tube structure input window

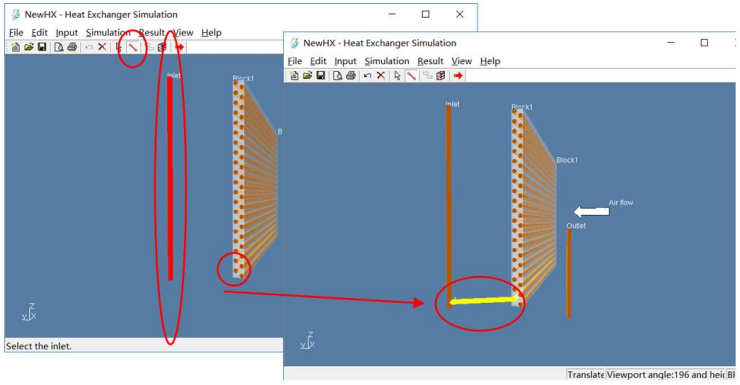


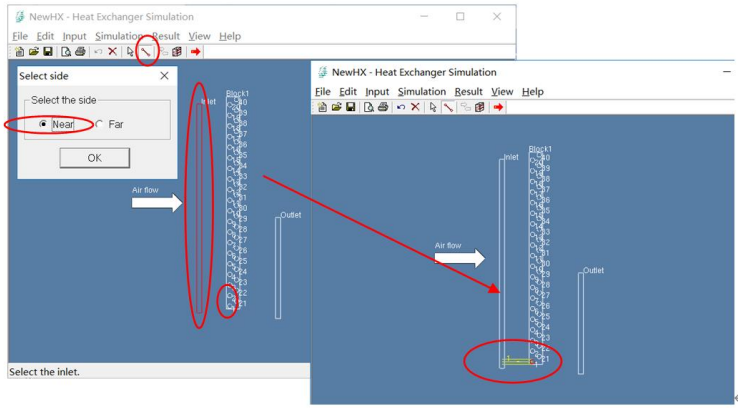
Data Input

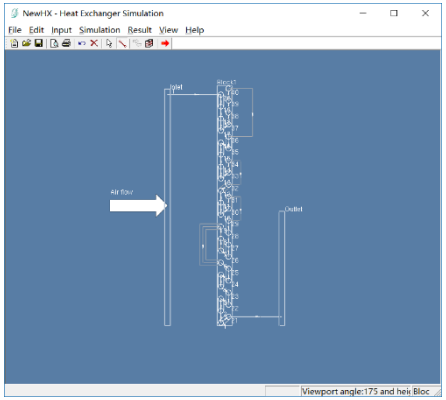
- ✓ Fin type input window

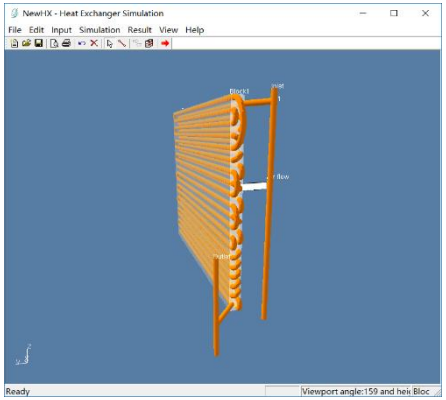


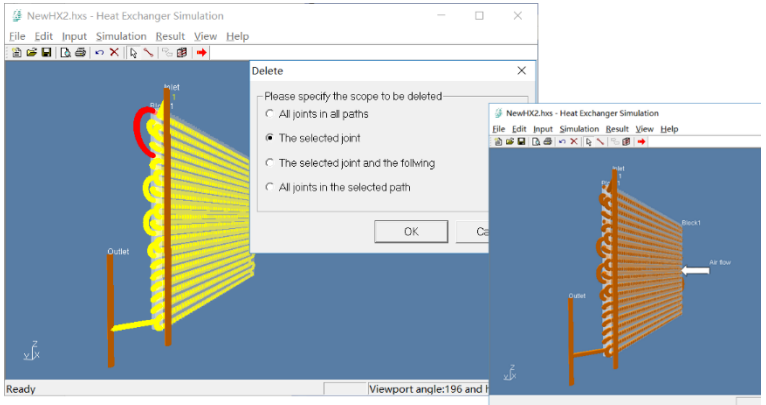
Connect Tubes



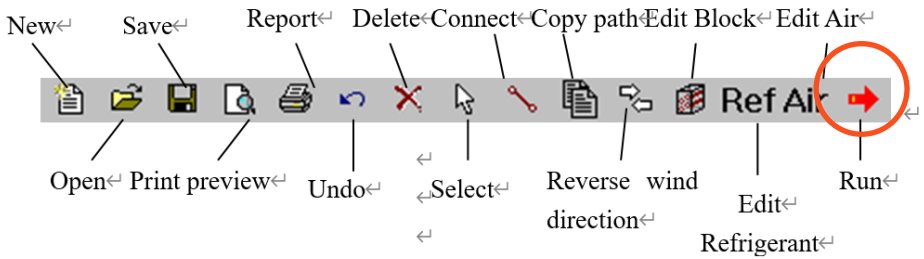


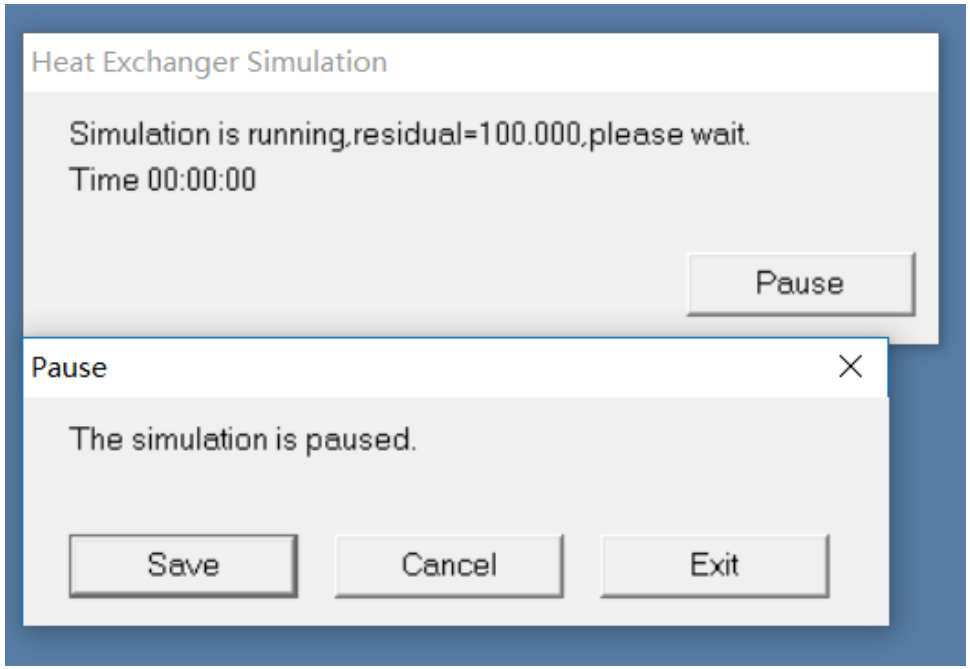






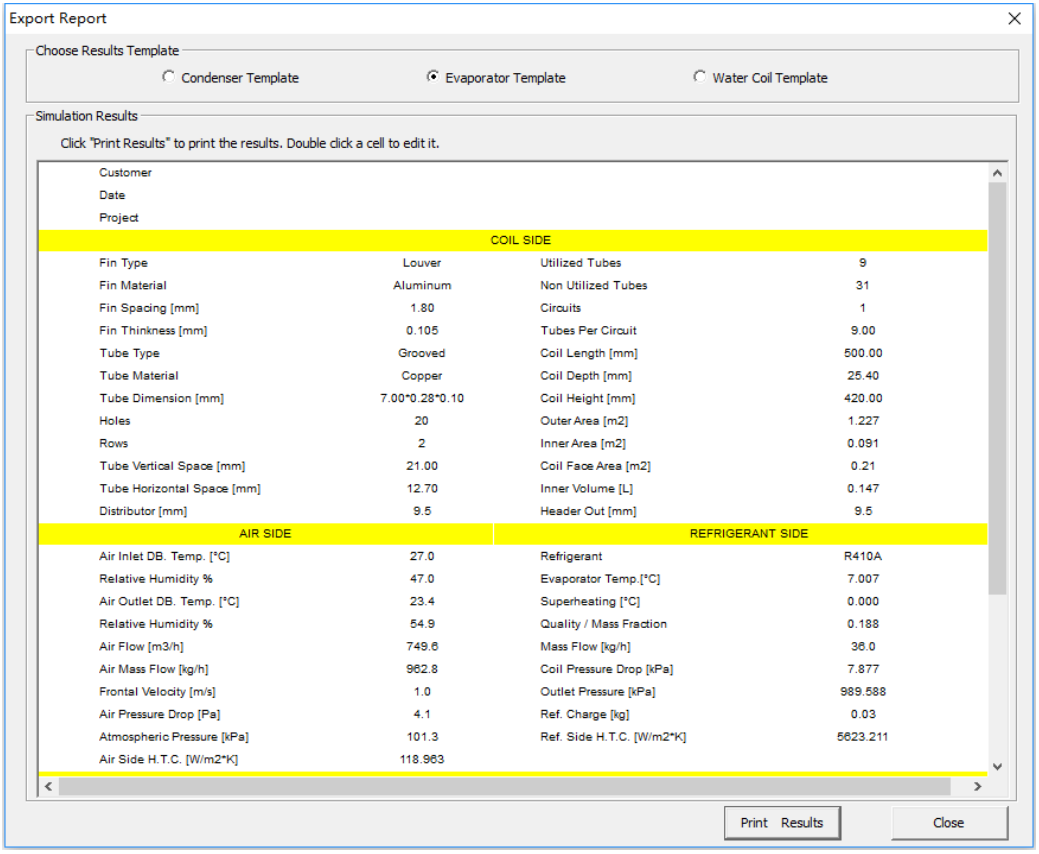
Run a Simulation

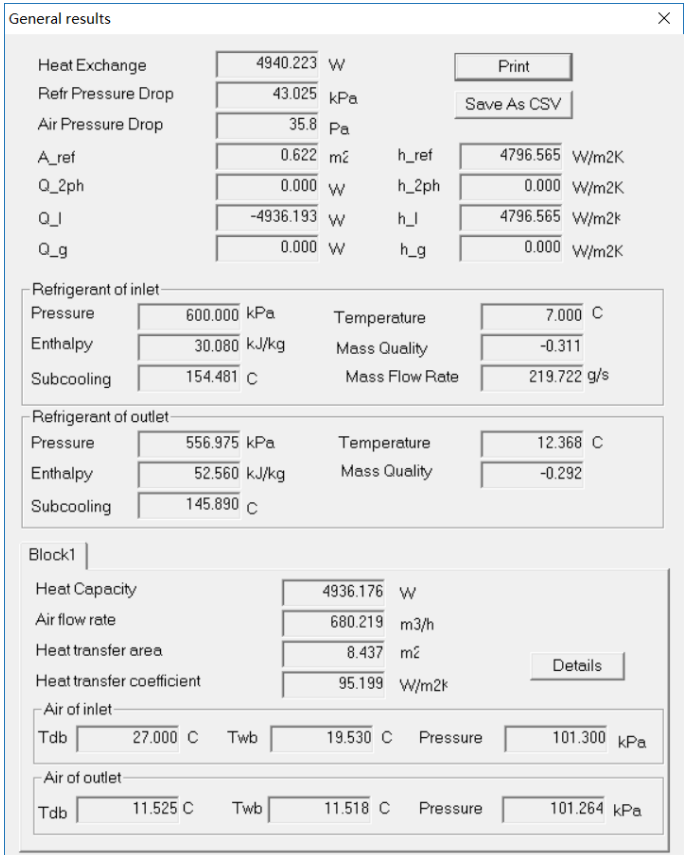




Simulation Results

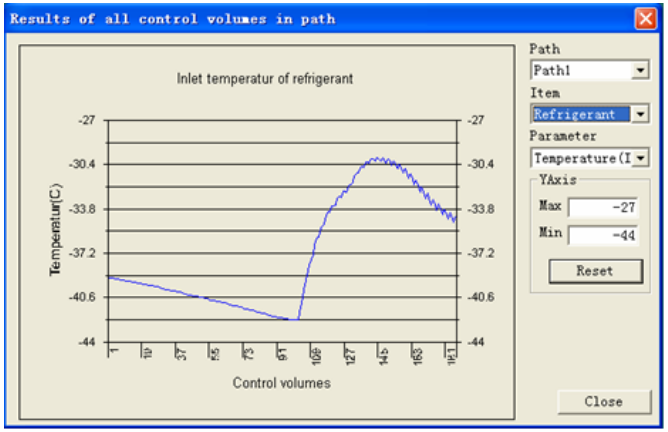
- ✓ General results

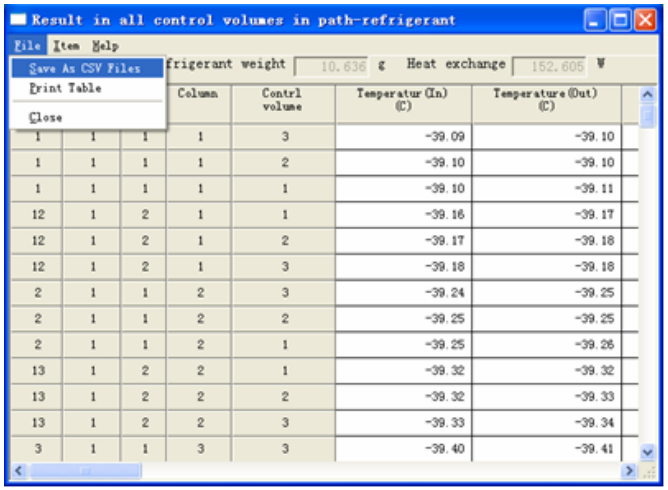




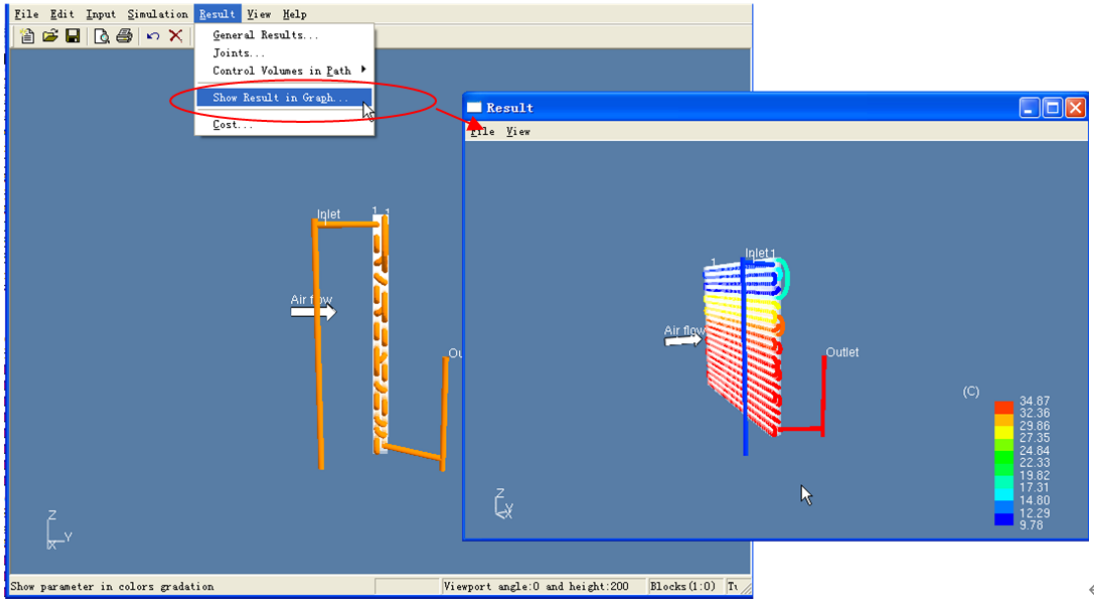
Simulation Results

- ✓ Simulation results of path





1	1	1	1	3	-39.09	-39.10
1	1	1	1	2	-39.10	-39.10
1	1	1	1	1	-39.10	-39.11
12	1	2	1	1	-39.16	-39.17
12	1	2	1	2	-39.17	-39.18
12	1	2	1	3	-39.18	-39.18
2	1	1	2	3	-39.24	-39.25
2	1	1	2	2	-39.25	-39.25
2	1	1	2	1	-39.25	-39.26
13	1	2	2	1	-39.32	-39.32
13	1	2	2	2	-39.32	-39.33
13	1	2	2	3	-39.33	-39.34
3	1	1	3	3	-39.40	-39.41



Thank you

For more information, please contact

kerry.song@copperalliance.org