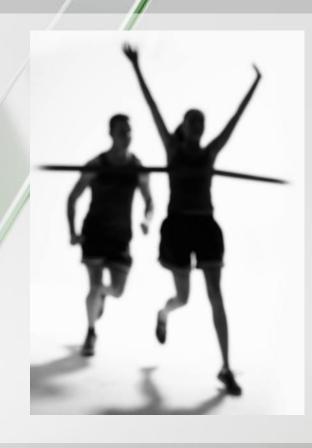






#### WHY?

It's all about getting across the finish line on time, on budget, and feeling good!



#### Learning objectives:

- Import files from loads programs (Trane, Elite CHVAC, gbXML, Taco Load Tool) into HVAC Solution.
- Build your air handlers, airflow, hydronic, steam, and control schematics and then optimize and run simulations on systems.
- Automatically select equipment from HVAC manufacturers that meet system design capacities. Create equipment and control schedules, BOMs, DXF™ files and more!
- Use the new Revit add-in to import your schedules and schematics into Revit! Or you can map your equipment to a Revit family instance, then transfer HVAC Solution equipment design data to shared parameters of the mapped Revit family instance. We then automatically create schedules using the Revit API.



# How HVAC Solution and Revit are used to take a project from Concept to Completion

#### Concept: HVAC Solution

The concept staff:

- Develops the design ideas and comes up with systems.
- Sells the design/systems to the client.
- Communicates the design for completion to the detail staff.

#### Completion: Revit

The completion/detail staff:

- Details out the design given to them by the concept staff.
- Completes the design under the supervision of the concept staff.





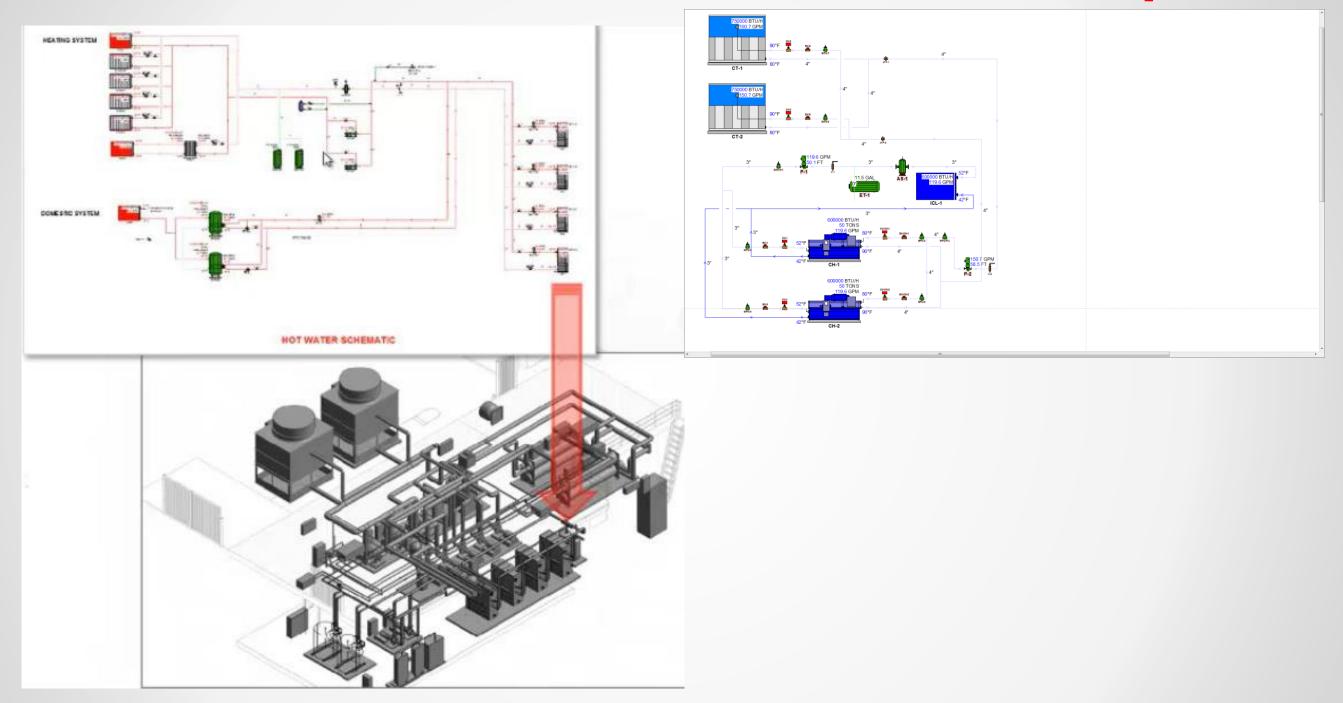
# The Concept Staff and Completion/Detail Staff can be the same or a different person

#### Depending on the following:

- Knowledge and experience of systems and software.
- Size and type of projects.
- Size of firm.
- Who is most cost effective and/or who will be most profitable?



#### **An HVAC Solution Schematic Concept**



#### **And the Revit Completion**



# Current tools employed in going from Concept to Completion

- 1) Loads program Trane Trace, Elite CHVAC, gbXML, Taco Load Tool.
- 2) HVAC Solution Professional software.
- 3) Integrated manufacturers selection software! We have over 40 manufacturer partners.
- 4) Autodesk products AutoCAD, Revit MEP.



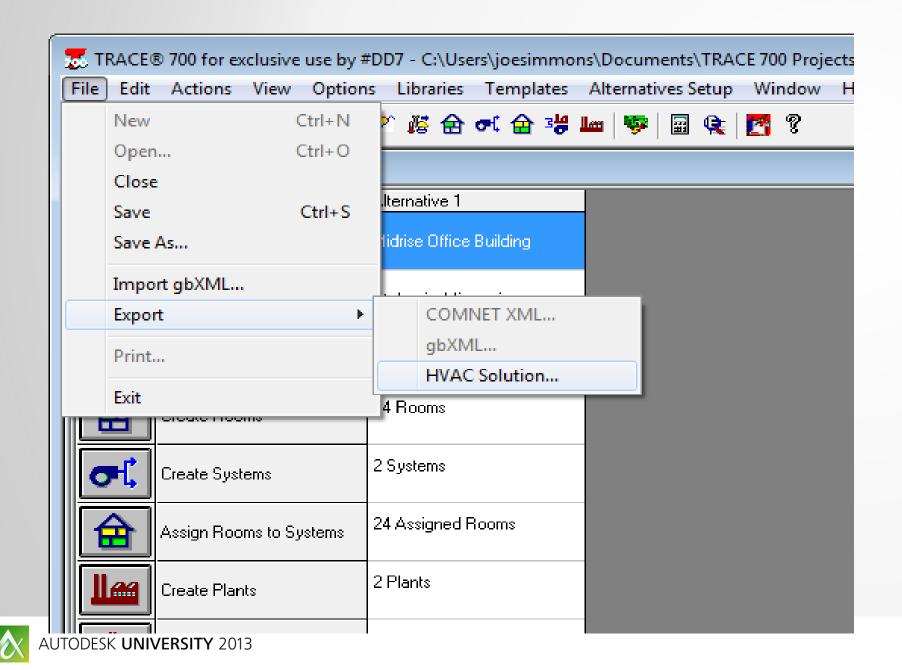
## Information required from a loads program for HVAC Solution

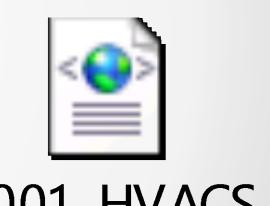
- Altitude, location
- Outside air conditions
- Space air temperature
- Space heating and cooling airflows
- Number of people
- Space sensible heating loss
- Exhaust airflow.
- Systems should be modeled in HVAC Solution as closely as possible to the way they were modeled in your loads program to insure similar results.



#### 1) Import a file from a Trane Trace 700 loads program!

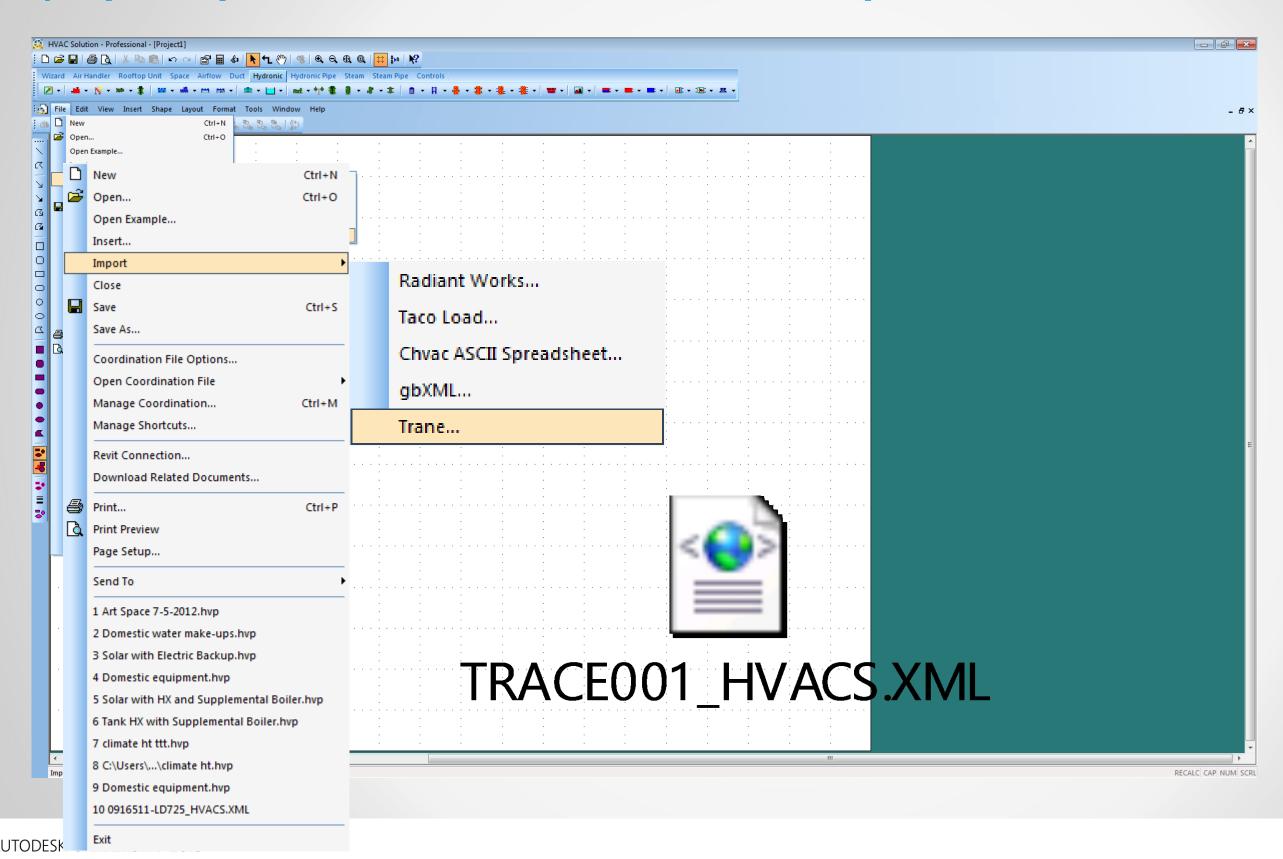
Go to "File", "Export", and select "HVAC Solution". This will create the following file to import into HVAC Solution.





TRACE001\_HVACS.XML

#### 1) Open up HVAC Solution. Select File, Import, Trane from the menu.





## 2) Answer questions asked by our Import Wizard and it will build the schematics for you.

Air Handler/Rooftop Unit - Systems	:	? <b>x</b>
- Systems		
Number of systems:	2	
B. di I		
Detail level		
System     ■     System     ■     System     ■     System     ■     System     ■     System     Syste		
C Teminal zone		
C Space		
	< Back Next > Ca	ancel

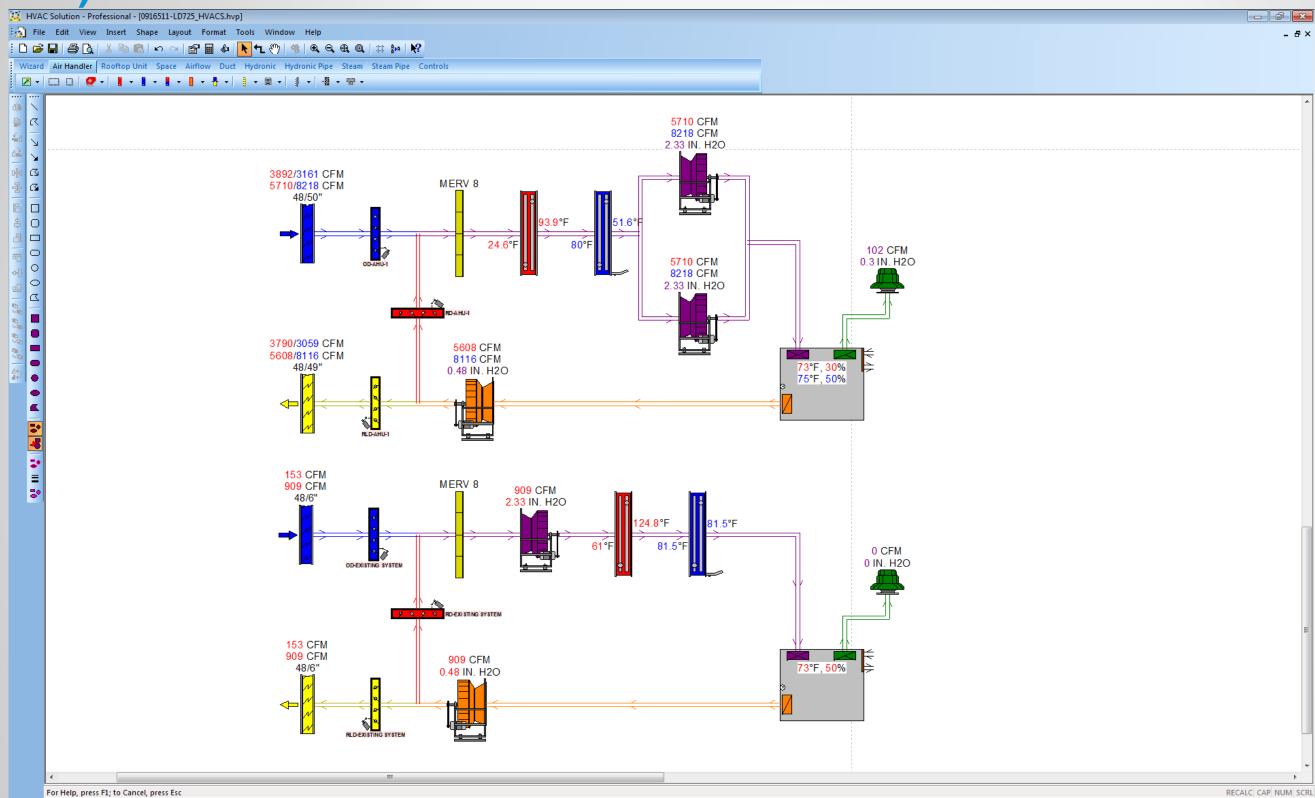


#### 2a) Air handler schematic!



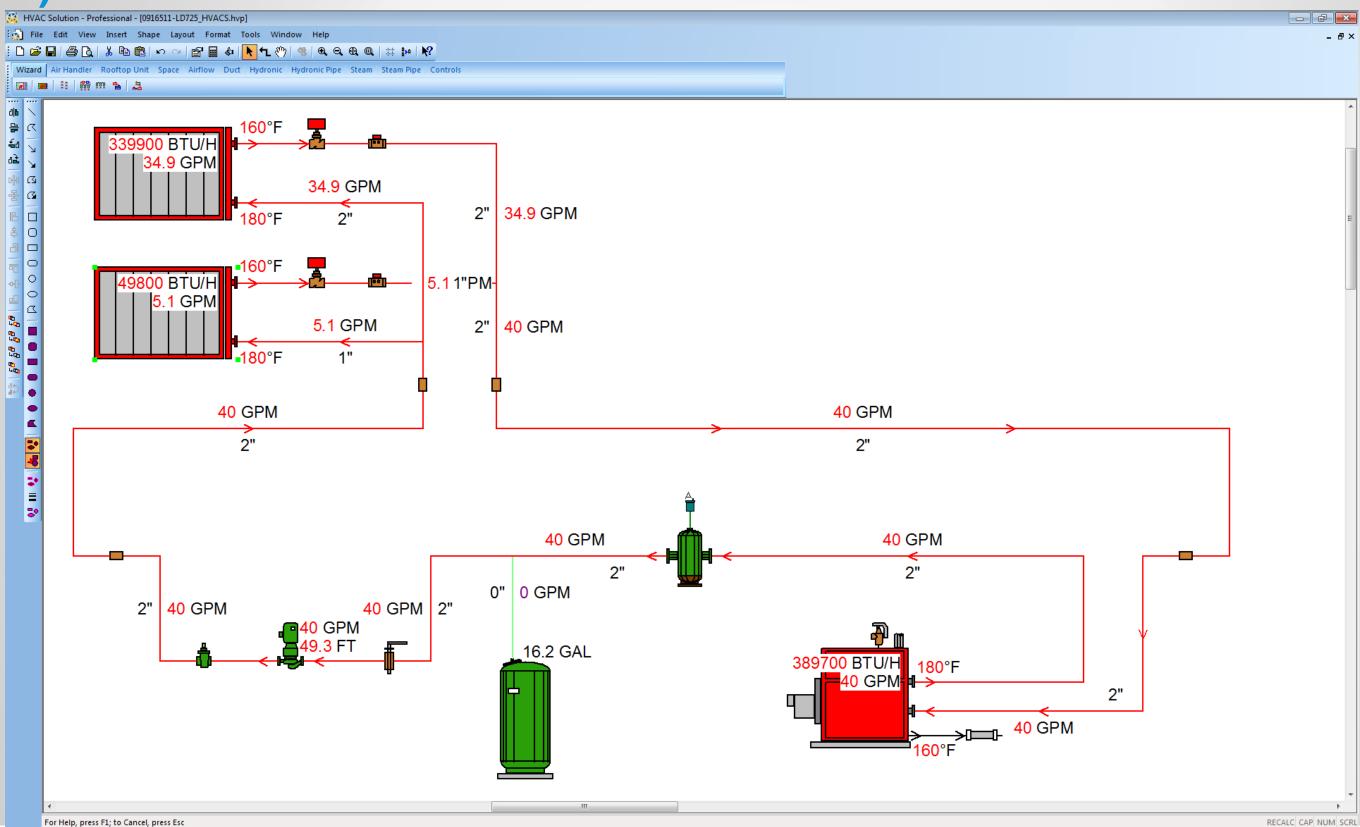


#### 2b) Airflow schematic!

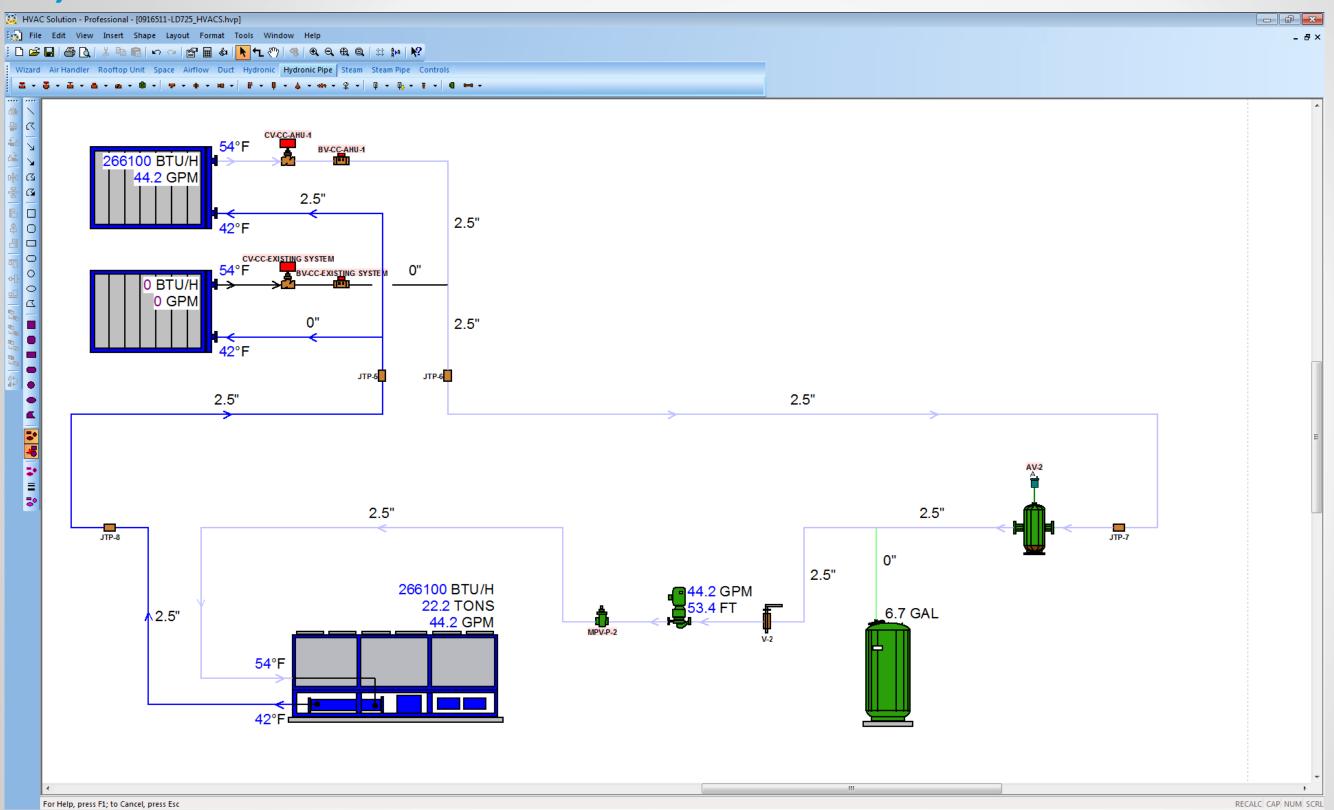




#### 2c) Hot water schematic!

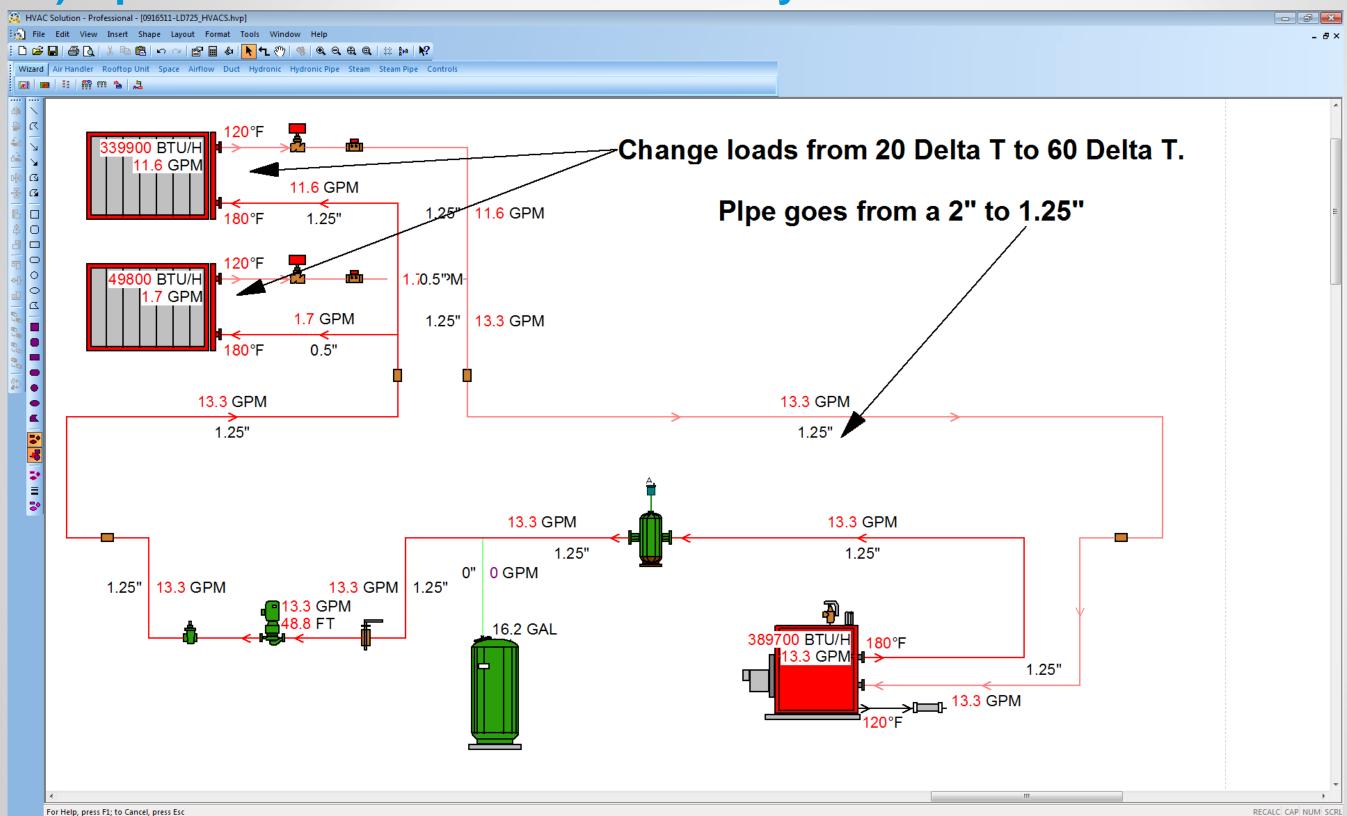


#### 2d) Chilled water schematic!





#### 2e) Optimize and run simulations on systems!



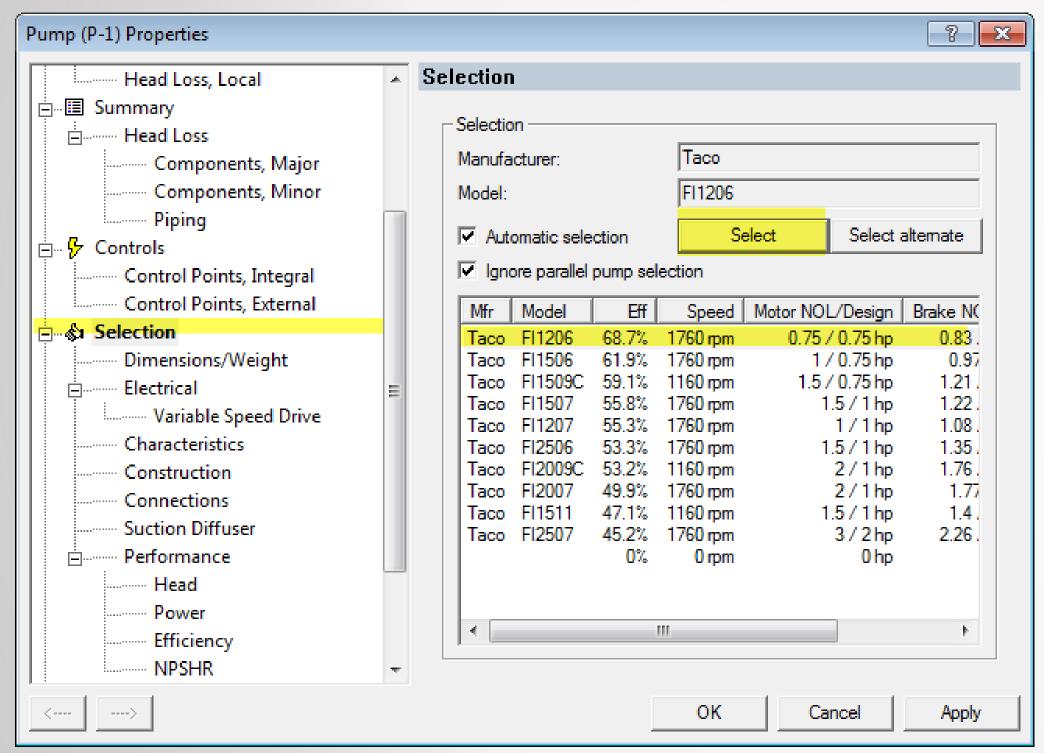


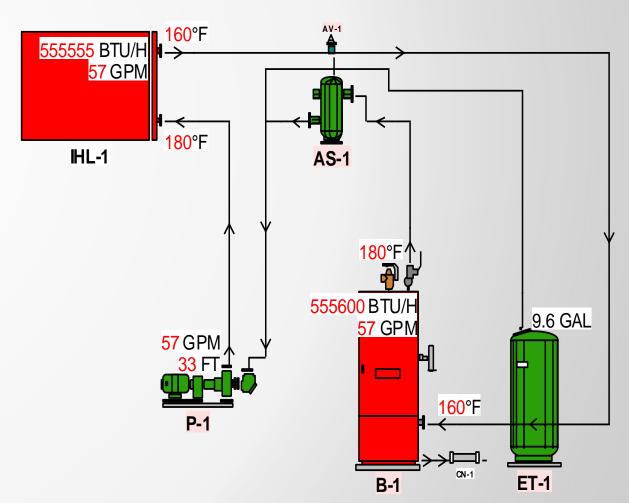
#### 2f) Optimize and run simulations on systems!

- Change pipe sizes and look at actual head loss.
- Change pipe material to see how roughness changes the head loss.
- Look at different pump types for greater efficiencies and lower BHP.
- Compare pipe fitting factors to actual number and type of fittings.
- See the effect of glycol and the percentage in your systems.
- Compare different piping distribution types direct return, reverse return, and single pipe system.
- Compare different pump configurations manifold, primary, primary secondary.



## 3) Automatically select equipment from HVAC manufacturers that meet system capacities







## 3a) Automatically create BOM, controls, electric equipment and transfer air schedules, reports, schematics!

Bill of Materials Excel (xls) BuyTaco Quote File Proprietary Controls Schedule Excel (xls) Detailed Report Rich Text Format (.rtf) ✓ Electrical Schedule Excel (xls) Equipment Schedule AutoCAD (.dxf) & Excel (xds) Related Documents Report Rich Text Format (.rtf) ✓ Schematic AutoCAD (.dxf) Transfer Air Schedule Excel (xls)

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	ABN			REIGHT	FITTING							
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<b>超-2</b>			UMBEN, ANYUMAYIK									

	AIR SEPARATOR SCHEDULE											
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1. ASME REPUBLIER

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	<b>日本人工第一</b> 1	BREEZE CHSO	ABB-1	BETTING ALB	NUMBLAT	OFFUSER	5857	0.026	MULEO	97037		
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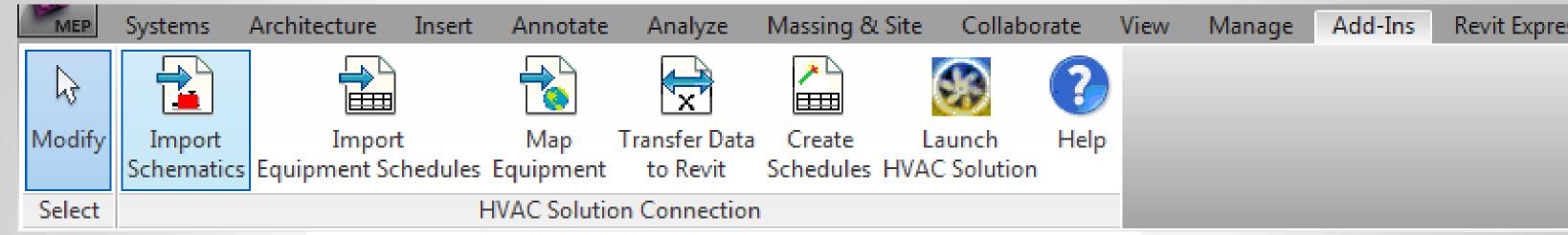
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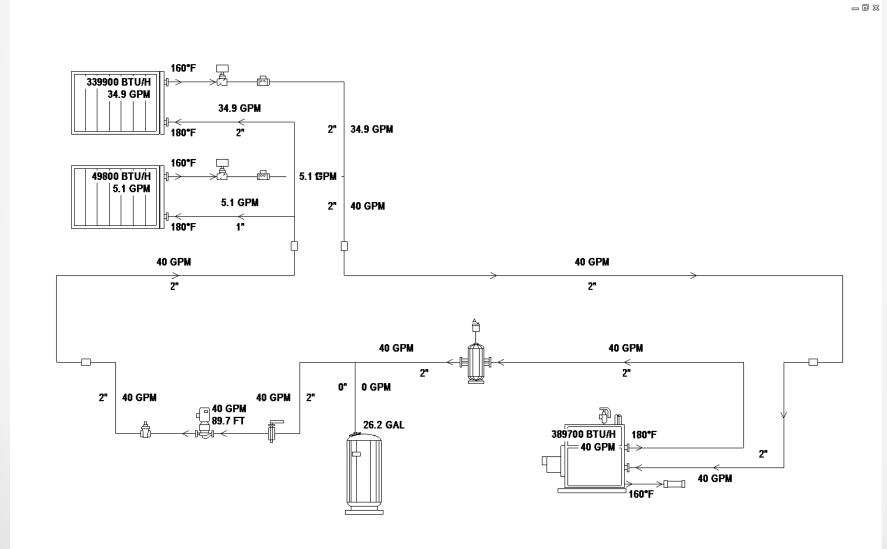
#### 3c) Control schedules!

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2			AIR TEMPERATURE, OUTSIDE	Al	TEMPERATURE SENSOR				
3			DAYLIGHT DETECTION	DI	PHOTO SENSOR				
4	AIR HANDLER		AIR DIFFERENTIAL PRESSURE, BUILDING INTERIOR	Al	DIFFERENTIAL PRESSURE SENSOR				
5	AIR HANDLER		AIR RELATIVE HUMIDITY, OUTSIDE	Al	HUMIDITY SENSOR				
6	AIR HANDLER		AIR TEMPERATURE, OUTSIDE	Al	TEMPERATURE SENSOR				
7	AIR HANDLER	AHU-1	AIR DIFFERENTIAL PRESSURE, RETURN	Al	DIFFERENTIAL PRESSURE SENSOR				
8	AIR HANDLER	AHU-1	AIR DIFFERENTIAL PRESSURE, SUPPLY	Al	DIFFERENTIAL PRESSURE SENSOR				
9	AIR HANDLER	AHU-1	AIR RELATIVE HUMIDITY, MIXED	Al	HUMIDITY SENSOR				
10	AIR HANDLER	AHU-1	AIR RELATIVE HUMIDITY, RETURN	Al	HUMIDITY SENSOR				
11	AIR HANDLER	AHU-1	AIR RELATIVE HUMIDITY, SUPPLY	Al	HUMIDITY SENSOR				
12	AIR HANDLER	AHU-1	AIR TEMPERATURE, MIXED	Al	TEMPERATURE SENSOR				
13	AIR HANDLER	AHU-1	AIR TEMPERATURE, RETURN	Al	TEMPERATURE SENSOR				
14	AIR HANDLER	AHU-1	AIR TEMPERATURE, SUPPLY	Al	TEMPERATURE SENSOR				
15	AIR HANDLER	AHU-1	AIRFLOW, OUTSIDE	Al	AIRFLOW STATION				
16	AIR HANDLER	AHU-1	AIRFLOW, RETURN	Al	AIRFLOW STATION				
17	AIR HANDLER	AHU-1	AIRFLOW, SUPPLY	Al	AIRFLOW STATION				
18	AIR HANDLER	AHU-1	CO2 LEVEL	Al	CO2 SENSOR				
19	AIR HANDLER	AHU-1	FREEZE DETECTION	DI	FREEZE STAT				
20	AIR HANDLER	AHU-1	SMOKE DETECTION, RETURN	DI	SMOKE DETECTOR				
21	AIR HANDLER	AHU-1	SMOKE DETECTION, SUPPLY	DI	SMOKE DETECTOR				
22	AIR HANDLER	AHU-1	START/STOP	DO	REMOTE RELAY				
23	AIR HANDLER	AHU-1	STATUS	DI	CURRENT SENSOR				
24	AIR HANDLER	EXISTING SYSTEM	AIR DIFFERENTIAL PRESSURE, RETURN	Al	DIFFERENTIAL PRESSURE SENSOR				
25	AIR HANDLER	EXISTING SYSTEM	AIR DIFFERENTIAL PRESSURE, SUPPLY	Al	DIFFERENTIAL PRESSURE SENSOR				
26	AIR HANDLER	EXISTING SYSTEM	AIR RELATIVE HUMIDITY, MIXED	Al	HUMIDITY SENSOR				
27	AIR HANDLER	EXISTING SYSTEM	AIR RELATIVE HUMIDITY, RETURN	Al	HUMIDITY SENSOR				
28	AIR HANDLER	EXISTING SYSTEM	AIR RELATIVE HUMIDITY, SUPPLY	Al	HUMIDITY SENSOR				
29	AIR HANDLER	EXISTING SYSTEM	AIR TEMPERATURE, MIXED	Al	TEMPERATURE SENSOR				
30	AIR HANDLER	EXISTING SYSTEM	AIR TEMPERATURE, RETURN	Al	TEMPERATURE SENSOR				
31	AIR HANDLER	EXISTING SYSTEM	AIR TEMPERATURE, SUPPLY	Al	TEMPERATURE SENSOR				
32	AIR HANDLER	EXISTING SYSTEM	AIRFLOW, OUTSIDE	Al	AIRFLOW STATION				
33	AIR HANDLER	EXISTING SYSTEM	AIRFLOW, RETURN	Al	AIRFLOW STATION				
34	AIR HANDLER	EXISTING SYSTEM	AIRFLOW, SUPPLY	Al	AIRFLOW STATION				
35	AIR HANDLER	EXISTING SYSTEM	CO2 LEVEL	Al	CO2 SENSOR				
36	AIR HANDLER	EXISTING SYSTEM	FREEZE DETECTION	DI	FREEZE STAT				
37	AIR HANDLER	EXISTING SYSTEM	SMOKE DETECTION, RETURN	DI	SMOKE DETECTOR				
38	AIR HANDLER	EXISTING SYSTEM	SMOKE DETECTION, SUPPLY	DI	SMOKE DETECTOR		1		
39	AIR HANDLER	EXISTING SYSTEM	START/STOP	DO	REMOTE RELAY		1		
	AIR HANDLER	EXISTING SYSTEM	STATUS	DI	CURRENT SENSOR		1		
40			FULL TEMPERATURE PRIMARY RETURN	Al	TEMPERATURE SENSOR		4		
40 41	BOILER		FLUID TEMPERATURE, PRIMARY, RETURN	AI	TEMPERATURE SENSOR		1		
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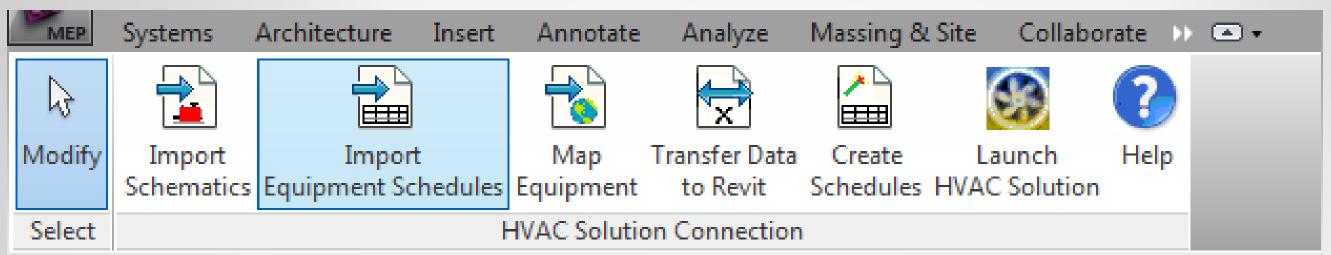
#### 4a) Use the Revit add-in to import your schematics into Revit MEP!







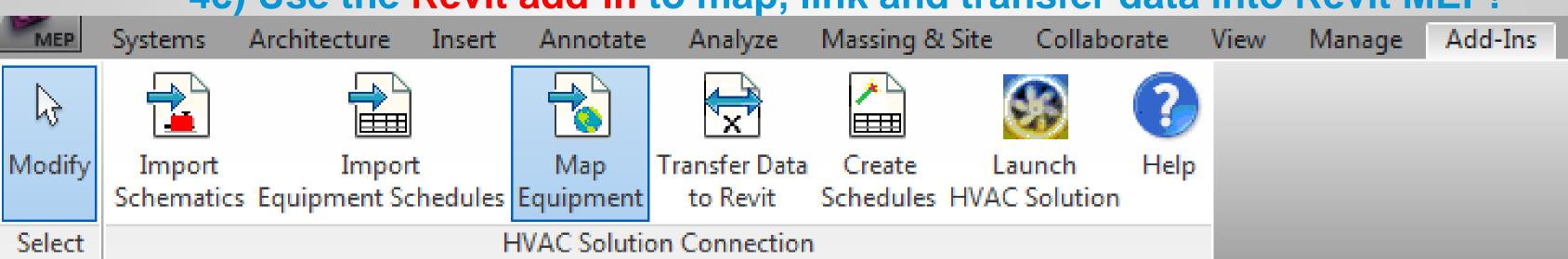
#### 4b) Use the Revit add-in to import your schedules into Revit MEP!

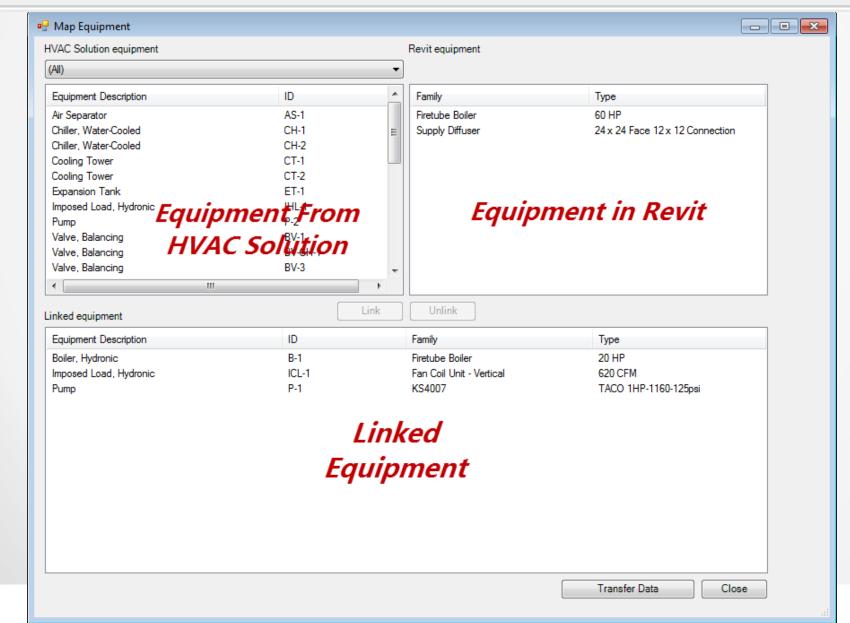


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UI-1 STIIG SYSTER	IAIIFAC TILEL UI IOIEL IIIIEL IAIIFAC TILEL	LOCATION	16136 369 III WPE :011E15180,	FOLCEI	FREE MPE	HYDRO    PIT   100	DE-ALI-I-STILE SYSTEM  PARTY I GARAGE  PARTY I	LER SCI RIII ROTE SPI) M  LER SCI RIII ROTE SPI) M  LER S	EITELIIGE EITELIIGE EITELIIGE EITE.  EITELIIGE EITE.  EITELIIGE EITE.  EITELIIGE EITE.  EITELIIGE EITELIIGUN EITELIIIGUN EITELIIGUN EITELIIGU	E LE
UI-I THE SYSTES	IAIIFAC TILEL UI IOIEL IIIIEL IAIIFAC TILEL	LOCATION	WPE	FOLCEI	FIEL WPE EATOAS	HYDRO    PIT   10/21   12/104	DE-ALI-I- STHE SYSTEM  PATENT 10 AT 10 AT 10 AT 11 TI 10 FROT 11 TI 10 FROT 11	LER SCI RUII TROY LUTE TROY LUTE TROY LUTE LUTE LUTE LUTE LUTE LUTE LUTE LUTE	ESTERIO ELEXYIDO ESTERIO (TO) KAZIEN  FORENTA (TO) KAZIEN  FORENTA (TO)	E LE
UI-I THE SYSTES	IAIIFAC TILEL UI IOIEL IIIIEL IAIIFAC TILEL	LOCATION	WPE	FOLCEI	FIEL WPE EATOAS	HYDRO    PIT   10/21   12/104	DE-ALI-I- STHE SYSTEM  PATENT 10 AT 10 AT 10 AT 11 TI 10 FROT 11 TI 10 FROT 11	LER SCI RIII FROT LITE SPEE 10	ESTERIO ELEXYIDO ESTERIO (TO) KAZIEN  FORENTA (TO) KAZIEN  FORENTA (TO)	E LE
UI-I THE SYSTES	IAIIFAC TILEL UI IOIEL IIIIEL IAIIFAC TILEL	LOCATION	WPE LECIPIOCA	FOLCEI	FIEL WPE EATOAS	HYDRO    PIT   10/21   12/104	DE-ALI-I-STHE SYSTEM  DELITE STHE SYSTEM  DELI	LER SCI RUII RATE SPID H  LLER S  LLER	ESTELIA ELEXYIDO ELEXYIDO ELEXYIDO ELEXYIDO ELEXYIDO ELEXYIDO ELEXPIDADO ELEX	E LE



#### 4c) Use the Revit add-in to map, link and transfer data into Revit MEP!





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#### 4d) HVAC Solution equipment design data is placed in the

#### mapped Revit family instance for schedule creation.

MEP	Systems	Architecture	Insert Annotate	e Analyze	Massing & Sit	te Collaborate	View	Manage	Add-Ins
W				×		3			
Modify	Import Schematics	Import Equipment Sch	Map nedules Equipment	Transfer Data to Revit	Create Schedules H	Launch Help			
Select			HVAC Soluti	on Connection	Create	e Schedules			
			Flow Efficiency System Classification System Name Identity Data Comments Mark Phasing Phase Created Phase Demolished Data	6 New Construc None	nic Supply, Hydron   tion				
			Equipment Description ID (HVAC Solution) Manufacturer (HVAC S	Solution) HVAC Solution In (HVAC Pump P-2 Solution) Taco	n				
			Model (HVAC Solution		_				

# The remainder of this presentation will demonstrate HVAC Solution and Revit, from Concept to Completion.









