Title 24 2013 Compliance Software: CBECC-Com

"California Building Energy Code Compliance for Commercial Buildings"

Defining Packaged HVAC Systems

Training Module 7

Objective: Create Air Systems

- 1. Create Air System
- 2. Create Air Segments
- 3. Create Cooling Coil
- 4. Create Heating Coil
- 5. Create Fan
- 6. Add Economizer System

Training Module 7: EnergyPlus HVAC Representation - PSZ



Training Module 7: Create Air System

For Help, press F1

- Right-click on Building Name (Acme Office) then select Create > AirSystem
- ✤ A new dialog box opens fill in the AirSystem Name and then click OK

3 08-Acme-Terminal.cibd - CBECC-Com 2013				
File Edit Ruleset View Tools Help				
	2			
Envelope Mechanical			Create AirSystem	x
Project: 'Acme Project' Acme Office (1 story / 4,750 cond CurveLinears: CurveQuadratics: CurveQuadratics: CurveQuadratics: CurveDoubleQuadratics:	ft2) Edit Rename Delete Copy Paste Contract		AirSystem Creation Option: Create New Object AirSystem Name: AirSystem 3 Parent Component: Acme Office Copy Data From: - none - OK Cance	
	Create	BuildingStory ExternalShadingObject ThermalZone AirSystem ZoneSystem		

Training Module 7: Create Air System

Typical view of the Air System Data Screen

uilding Model Data	Phone Surg Tax	Carlas And	in an and the second	? ×
Air System Data	a			
	Currently Active Air System: PVAV1		•	
Name:	PVAV1	Availability Schedule:	- none -	
Type:	PVAV Status: New	Night Cycle Control:	CycleOnCallAnyZone	×
Sub Type:	SinglePackage Count: 1	Ventilation Control:	AverageFlow	Design OA Flow: 424 cfm
Control Zone:	- none -	Control Type:	DDCToZone 💌	
Description:		Reheat Control:	DualMaximum 🔹	
Net Capacity*: *Reflects capacit Fan Position: Supply Temp C	87,000 Btu/h 89,680 by of a single system if Count is >1 DrawThrough • Control: WarmestResetFlowFirst •	Btu/h 3,000	cfm	
Fixed Supply T	emp: F			
Setpoint Temp	Sch: - none -	•		
Reset Supply H	High: 62.0 °F @ Outdoor Temp:	۰F		
Reset Supply L	_ow: 55.0 °F @ Outdoor Temp:	°F		
				(<u> </u>

Training Module 7: Create Air Segments

- Right-click on System Name (AirSystem 3) then select Create > AirSegment
- ✤ A new dialog box opens fill in the AirSegment Name and then click OK

File Edit Ruleset View Tools H	Jolo					
Envelope Mechanical						
Project: 'Acme Project' Acme Office (1 story / PVAV1 (PVAV)	/ 4,750 cond ft2)		Create AirSe	egment AirSegment Creation Option:	Create New Object	
AirSystem 3 CurveLinears: CurveQuadratics: CurveCubics:	Edit Rename Delete			AirSegment Name: Parent Component: Copy Data From:	AirSegment 5 AirSystem 3 - none -	•
CurveDoubleQuadr:	Copy Paste				OK Car	ncel
	Expand					
	Create 🔸	AirSegment				
		TerminalUnit OutsideAirControl				

Training Module 7: Create Air Segment

Typical view of the Air Segment Data Screen

Air Segmen	t Data	
Currently A	ctive Air Segment: Sys1 Supply	•
Name:	Sys1 Supply	
Type:	Supply 👻	
Path:	Ducted 💌	
	NotApplicable Direct	
	Ducted DiscurrZenee	
	[PienumZones	
		Πκ

Training Module 7: Create Cooling Coil

- Right-click on Air Segment Name (AirSegment 5) then select Create > CoilCooling
- A new dialog box opens fill in the CoilCooling Name and then click OK

98-Acme-Terminal.cibd - CBECC-Com 201	3	Training		
File Edit Ruleset View Tools Help				
	e ?			
Envelope Mechanical				
Project: 'Acme Project'	cond ft2)	Create CoilCoolir	- Ig	×
PVAV1 (PVAV)	(CoilCooling Creation Option: Create New Object CoilCooling Name: CoilCooling 3	
AirSegment 5	Edit		Parent Component: AirSegment 5	•
CurveQuadratics:	Rename		Copy Data From: - none -	-
CurveCubics:	Delete		OK	Cancel
CurveDoubleQuadratics.	Сору			y
	Paste			
	Expand			
	Create +	CoilCooling		
		CoilHeating Fan		

Training Module 7: Create Cooling Coil

Typical view of the Cooling Coil Data Screen

uilding Model Data	Phone Streng Tax	· · · · · · · · · · · · · · · · · · ·
Cooling Coil Dat	a Performance Curves	
	Currently Active Cooling Coil: Clg Coil 1	
Name:	Clg Coil 1	Condenser Type: Air 💌
Status: Fuel Source:	- specify - ChilledWater DirectExpansion	Input Code Minimum SEER:
Capacity (For si Num. Cooling	ingle system/terminal if Component Qty > 1) Stages: 1	
Rated Net Ca _l	pacity: 87,000 Btu/h	
		OK

Training Module 7: Create Heating Coil

- Right-click on Air Segment Name (AirSegment 5) then select Create > CoilHeating
- A new dialog box opens fill in the CoilHeating Name and then click OK



Training Module 7: Create Heating Coil

Typical view of the Heating Coil Data Screen

Building Model Data	8 ×
Heating Coil Data Per	Informance Curves
Current	tly Active Heating Coil: Htg Coil 1
Name: Htg (Coil 1
Type: Furna	ace
Status: New	Component Qty: 1
Fuel Source: Natur	ralGas 🔹
Capacity (For single syst Num. Heating Stages: Rated Gross Capacity: Furnace Data Thermal Efficiency: AFUE:	tem/terminal if Component Qty > 1) 1 40,000 Btu/h User Input Code Minimum 0.810 0.780 0.780
Ignition Type:	IntermittentIgnitionDevice
	<u></u> ОК

Training Module 7: Create Fan

- Right-click on Air Segment Name (AirSegment 5) then select Create > Fan
- ✤ A new dialog box opens fill in the Fan Name and then click OK



Training Module 7: Create Fan

Typical view of the Fan Data Screen

ding Model Data	-	a Burry Your	100	40.000	5. F	8 ×
	Currently Act	ive Fan: <mark> Fan 1</mark>		•		
Name: Control Method: Status: Classification: Centifugal Type: Capacity and Pow Flow Capacity: Flow Minimum: Position: Modeling Method Total Static Pres Fan Efficiency: Motor Brake HP Power Per Flow	Fan 1 Variable SpeedDrive New Centrifugal AirFoil ver (For single system 3,00 58 DrawThrough d: StaticPressu ssure: 3.50 0.60 : 2.75 (Ref): 0.76	Component Qt Component Qt Component Qt Component Compone	y: 1	Motor Information Position: Nameplate HP: Type: Pole Count: Motor Efficiency:	InAirStream ▼ 3.000 hp Open ▼ 4 0.900	
						[<u> </u>

Training Module 7: Mechanical Schedule

AIR HANDLER SCHEDULE										
System Name	Sy	System Type		SAT Reset		SAT Reset Temp.		Economizer		
PVAV1	Pa	ckaged VAV	Warr	nest Reset Flow First		High- 62 F		Differentia	alDryBulb-Integrated	
PVAV2	Pa	ckaged VAV	Warr	nest Reset Flow First		High- 62 F		Differentia	alDryBulb-Integrated	
COOLING COIL SCHEDULE										
						Cooling				
System Name	ame Type			Net Capacity (Btu/h) Gross Ca (Btu/		Gross Capac (Btu/h)	ity	SEER	EER	
PVAV1		Direct Expa	nsion	87,000		92,000		-	11.5	
PVAV2		Direct Expa	nsion	83,100		86,700		-	11.5	
			HEAT	NG COIL SCHEDU	JLI	E				
				Heatin	g					
System Name		Туре		Gross Capacity (Btu/I	h)	AFUE	E	Гhermal fficiency		
PVAV1		Furnace		40,000	0.78			0.81		
PVAV2		Furnace 27,000 0.78 0.81								
FAN SCHEDULE										

Name	Serving	Туре	Capacity (cfm)	Flow Min (cfm)	Static Pressure (in. H20)	Overall Fan Eff	BHP (hp)	Motor Nameplate HP	Motor Eff	
Fan 1	PVAV1	VSD	3,000	580	3.50	0.600	2.758	3.00	0.900	1
Fan 2	PVAV2	VSD	2,800	935	3.50	0.600	2.574	3.00	0.865	

Training Module 8

Objective: Create Terminal Units

- 1. Create Terminal Unit
- 2. Select Type
- 3. Create Reheat Coils

Training Module 8: EnergyPlus HVAC Representation - PSZ



Training Module 8: EnergyPlus HVAC Representation – PVAV



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Training Module 8: Create Terminal Unit

- Right-click on Air System Name (AirSystem 3) then select Create > TerminalUnit
- ✤ A new dialog box opens fill in the TerminalUnit Name and then click OK
- A new dialog box opens- Select Type and PrimaryAirSegmentReference and click ok

3 08-Acme-Terminal.cibd - CBECC-Co	om 2013		allowed in		
File Edit Ruleset View Tools	Help				
Envelope Mechanical					
Project: 'Acme Project'			Create TerminalUnit		×
Acme Office (1 story	/ 4,750 cond ft2)))		Term	ninalUnit Creation Option: Creation	ate New Object
AirSystem 3	Edit Rename Delete	pansion) -)		ivystem 3	
CurveLinears:	Copy Paste		Torminall Init 9' [Vinner Data	
CurveCubics:	Contract			-initiary Data	
	Create 🕨 🕨	AirSegment		Туре:	Uncontrolled <u> </u>
		TerminalUnit		ZoneServedReference:	<u> </u>
		OutsideAirControl	PrimaryAirSegmentReference	maryAirSegmentReference:	
	1	-			- create/import AirSegment (and apply Sys1 Supply
					sysz supply

Training Module 8: Create Terminal Unit / Select Type

Typical view of the Terminal Unit Data Screen

Building Model Data	8 ×
Terminal Unit Data	
Currently Active Terminal Unit: Open Office N VAV	•
Name: Open Office N VAV	Availability Schedule: - none -
Type: VAVReheatBox • # of Terminal Units: 1	Min. Air Frac. Schedule: - none -
Status: New Component Qty: 1	
Zone Served: Open Office North Zn 💌	
Primary AirSeg Ref: Sys1 Supply -	
Air Flow (For single terminal if # Terminals or Component Qty > 1)	
Max. Primary Flow: 2,100 cfm 1.01 cfm/ft2	5.05 ACH
Min. Primary Flow: 420 cfm 0.20 cfm/ft2	1.01 ACH
Max. Heating Flow: 1,050 cfm	
Reheat Ctrl Method: DualMaximum	
Fan Powered Terminals	
Induced Air Zone:	Terminal Fan Power: W/cfm
Induction Ratio:	Parallel Box Flow Frac:
Parallel Box Ctrl	
	<u> </u>

Training Module 8: Create Reheat Coils

- Right-click on Terminal Unit (TerminalUnit 7) then select Create > CoilHeating
- Follow the same steps as you followed for Heating Coil to create the Reheat coil

No. Acme-Terminal.cibd - CBECC-Com 2013			
File Edit Ruleset View Tools Help			
Envelope Mechanical			
Project: 'Acme Project' Acme Office (1 story / 4,750 cond ft2) PVAV1 (PVAV) PVAV2 (PVAV)			
AirSystem 3	pansion) -)	Create CoilHeating	DilHeating Creation Option: Create New Object
CurveLinears:	Edit Rename Delete		Copy Data From: - none -
- Currebouncedunanes.	Copy Paste Expand		
	Create +	CoilHeating	
		Fan ZoneServedReference InducedAirZoneReference	

Training Module 8: VAV Box Schedule

			Max.	Min.	Max.	Deheet	Reheat Coil		
Name	Zone Served	System	Primary Flow (cfm)	rimary Primary Heating Flow Flow Flow (cfm) (cfm) (cfm)		Control Method	Туре	Gross Capacity (Btuh)	
Open Office N VAV	Open Office N Zn	PVAV1	2,100	420	1,050	DualMax	Electric Resistance	36,000	
Lobby VAV	Lobby Zn	PVAV1	400	80	200	DualMax	Electric Resistance	6,840	
Private Office VAV	Private Office Zn	PVAV1	400	80	200	DualMax	Electric Resistance	6,840	
Conference VAV	Conference Zn	PVAV2	500	485	485	DualMax	Electric Resistance	16,500	
RestRm VAV	RestRm Zn	PVAV2	135	25	68	DualMax	Electric Resistance	2,400	
Open Office S VAV	Open Office S Zn	PVAV2	2,000	400	1000	DualMax	Electric Resistance	34,200	

Training Module 9

Objective: Create Thermal Zones

- 1. Create Thermal Zone
- 2. Assign Terminal Unit
- **3.** Assign to Spaces

Training Module 9: Schematic Zoning Diagram



Training Module 9: Create Thermal Zone

- Right-click on Building Name(Acme Office) then select Create > Thermal Zone
- A new dialog box opens fill in the TheramalZone Name and then click OK

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File Edit Ruleset View Tools Help						
Envelope Mechanical			Create ThermalZone			X
Project: 'Acme Project'		-	ThermalZ	one Creation Option:	Greate New Object	-
Acme Office (1 story / 4,750 cond ft2) Acme Office (1 story / 4,750 cond ft2) Acme Office (1 story / 4,750 cond ft2) D Acme Office (1 story / 4,750 cond ft2) D	Edit Rename Delete Copy Paste			ThermalZone Name Parent Component	Acme Office	T ncel
CurveCubics:	Contract					
	Create 🔸	BuildingStory ExternalShading	Object			
		ThermalZone				
		AirSystem ZoneSystem				
	L					

Training Module 9: Create Thermal Zone and Assign System

Typical view of the Thermal Zone Data Screen

uilding Model Data		Passes Rooms 1	and the second		100.0	2 ×
Thermal Zone Dat	ta Ventilati	on and Exhaust Day	lighting			
	·		OF N. 41 7-		1	
	Currently Activ	e Thermal Zone: JOpen	Office North Zh			
Name:	Open Office	North Zn	HVAC	Zone Count: 1	Floor Area:	2,080 ft2
Type:	Conditioned	•	Zone	Multiplier: 1	Num. Occupants	20.8 people
Ventilation:	Forced	•				
Description:						
HVAC Systems						
Primary Htg/Clg	g System: PV	AV1	•	Supply Plenum Zone	: - none -	•
Ventilation Sys	stem: PV	AV1	•	Return Plenum Zone	- none -	•
Thermostat Setp	oints and Sizin	g Parameters		C-20 2040111		<u>12</u>
		Cooling		Heating		
Thermostat Sch	h:	- none -	-	- none -	<u> </u>	
Design Supply	Air Temp:	55.0 °F		95.0 °F		
Supply Air-to-R	Rm Difference:	20.0 °F		20.0 °F		
Design Supply	Flow:	cfm		cfm		
Design Flow Si	izing Factor:	1.00		1.00		
Max Flow Fraction in Heating: 1						
						Г <u>ОК</u>

Training Module 9: Assign Thermal Zone

Double-click on Space Name(Conference) then assign Thermal Zone as shown below

Space Data Ventilation and Exhaust Daylighting Process Loads Currently Active Space: Conference (daylighting not available w/ simplified geometry) Space Name: Conference Multiplier: 1 Space Status Conditioning Type: DirectlyConditioned Fir-to-Clg Ht: 12.0 ft Envelope: New Internal Zone Ref: Conference Zn Space Area: 480.0 ft2 Lighting: New Open Office Noth Zn Open Office Noth Zn Open Office Noth Zn Open Office Noth Zn Private Office Zn Occupancy Class: One Office South Zn Provate Office Zn Occupancy: 67.00 people/1,000 ft2 245.0 Bu/h-person Fisto Bu/h-person Inone - onone - on	ling Model Data									8
Currently Active Space: Conference (daylighting not available w/ simplified geometry) Space Name: Conference Multiplier: 1 Space Name: Conference Multiplier: 1 Conditioning Type: DirectlyConditioned Fir-to-Clg Ht: 12.0 ft Envelope: New Conference Zn Space Area: 480.0 ft 2 Lighting: New Open Office North Zn Private Office Zn Occupancy: Open Office South Zn Private Office Zn Occupancy: 67.00 people/1,000 ft 2 245.0 Btu/h-person 55.0 Btu/h-person none - none - none - rone - Fraction to Space DHW RecircSys Ref: -none - Fraction to Space Radiant Fraction Schedule Name* none - none - none - none - none - yradion of the Compound o	Space Data Ventilat	ion and Exhaust Daylighting	Process Load	l at						
Space Name: Conference Multiplier: 1 Space Status Conditioning Type: DirectlyConditioned Image: Fir-to-Clg Ht; 12.0 ft Envelope: New Image: New Thermal Zone Ref: Conference Zn Image: Space Area; 480.0 ft2 Lighting: New Image: New Supply Plenum Space: Open Office North Zn Image: Space Area; 480.0 ft2 Lighting: New Image: New Image: Space Area; 480.0 ft2 Lighting: New Image: New Image: Space Area; 480.0 ft2 Lighting: New Image: Space Area; 480.0 ft3 Overall: New Image: Space Area; 480.0 ft3 Overall: New Image: Space Area; 480.0 ft3 Overall: New Image: Space Area; Space Area; ft400.0 ft40.0 ft40.0	Currently	Active Space: Conference		•			(daylighting not a	available w/ sin	nplified geometry)	
Conditioning Type: DirectlyConditioned	Space Name:	Conference	7	Multiplier:	1		Space Status);		
Thermal Zone Ref: Conference Zn Space Area: 480.0 ft2 Lighting: New Supply Plenum Space: - create new ThermalZone (and apply only here) - Open Office Noth Zn Lobby Zn ohume: 5,760 ft3 Overall: New Return Plenum Space: - Orderence Zn Private Office Zn - Orderence Zn Orderence Zn New - Gocupancy Class: RestRm Zn Private Office South Zn - Open Office South Zn - New - Function Defaults: - none - - - - - Function: Convention, Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly - Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person - none - - Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: PHW Supply - none - - - Electric Use DHW RecircSys Ref: - none - - - - - - IntLPDReg*: 0.00 0.00 0.00 0.00 - - - - Plug Loads: <	Conditioning Type:	DirectlyConditioned	<u>•</u>	Flr-to-Clg Ht:	12.0	ft	Envelope:	New	•	
Supply Plenum Space: -create new ThermalZone (and apply only here) - Open Office North Zn - Neturn Plenum Space: -Den Office North Zn - Private Office Zn - - Coupancy Class: RestRm Zn - Function Defaults: -none - • Function: Convertion, Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly • Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person -none - • Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: DHW Supply • -none - • Electric Use DHW RecircSys Ref: -none - • • -none - • Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 0.00 0.00 -none - • Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis -none - •	Thermal Zone Ref:	Conference Zn	•	Space Area:	480.0	ft2	Lighting:	New	•	
Return Plenum Space: Lobby Zn Private Office Zn RestRm Zn Open Office South Zn Function Defaults: - none - Function: Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly Sensible Latent Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref. DHW Supply Electric Use DHW RecircSys Ref: - none - Ltg. Specification: AreaCategory/Method Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 0.00 0.00 - none - Plug Loads: 1.00 W/t2 * Schedules will be defaulted for compliance analysis - none -	Supply Plenum Space:	- create new ThermalZone (and Open Office North Zn	apply only here) -	olume:	5,760	ft3	Overall:	New		
Occupancy Class: Conference Zn RestRm Zn Open Office South Zn Function Defaults: - none - Function: Convention, Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person - none - Image: Convention - no	Return Plenum Space:	Lobby Zn Private Office Zn								
- Open Office South Zn Function Defaults: - none - Function: Convention, Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person - none - Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: DHW Supply - none - - Electric Use DHW RecircSys Ref: - none - - - Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 W/ft2 0.00 0.00 - none - - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none - -	Occupancy Class:	Conference Zn RestRm Zn								
Function: Convention, Conference, Multipurpose and Meeting Center Areas Schedule Group: Assembly Occupancy: 67.00 people/1,000 ft2 Sensible Latent Schedule Name* Hot Water Use: 0.09 gal/h-person 155.0 Btu/h-person - none - - Electric Use DHW RecircSys Ref: - none - - - Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 W/ft2 0.00 0.00 - none - - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none - -	Function Defaults: - r	-Open Office South Zn none -	×							
Sensible Latent Schedule Name* Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person - none - - Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: DHW Supply - - none - - Electric Use DHW RecircSys Ref: - none - - - - Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 W/tt2 0.00 0.00 - none - - Plug Loads: 1.00 W/tt2 * Schedules will be defaulted for compliance analysis - none - -	Function: Conven	tion, Conference, Multipurpose a	nd Meeting Center	r Areas 💌		Sch	nedule Group:	Assembly	•	
Occupancy: 67.00 people/1,000 ft2 245.0 Btu/h-person 155.0 Btu/h-person - none - • Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: DHW Supply • - none - • Electric Use DHW RecircSys Ref: - none - • • • • Ltg. Specification: AreaCategoryMethod • Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 0.00 0.00 • • • • NonReg. Lighting: 0.00 W/ft2 0.00 0.00 • • • • Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis • none - • •			Sensible	Later	ıt			Schedule Nam	10*	
Hot Water Use: 0.09 gal/h-person SHW FluidSeg Ref: DHW Supply Inclusion DHW RecircSys Ref: - none - - Ltg. Specification: AreaCategoryMethod • IntLPDReg*: 0.00 Watts/ft2 0.00 0.00 NonReg. Lighting: 0.00 W/ft2 0.00 0.00 - none - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none - •	Occupancy:	67.00 people/1,000 ft2	245.0 Bt	u/h-person	155.0 Bt	u/h-pe	erson	- none -		<u> </u>
DHW RecircSys Ref: - none - Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* - none - - none - NonReg. Lighting: 0.00 W/ft2 0.00 0.00 - none - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none -	Hot Water Use:	0.09 gal/h-person	SHW FluidSeg	Ref: DHW Sup	ply		•	- none -		•
Ltg. Specification: AreaCategoryMethod Fraction to Space Radiant Fraction Schedule Name* IntLPDReg*: 0.00 0.00 0.00 - none - - NonReg. Lighting: 0.00 W/ft2 0.00 0.00 - none - - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none - -	Flectric Use		DHW RecircSy	rs Ref: - none -			-			
IntLPDReg*: 0.00 Watts/ft2 0.00 0.00 - none - NonReg. Lighting: 0.00 W/ft2 0.00 0.00 - none - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none -	Ltg. Specification:	AreaCategoryMethod 🔹	Fraction to Sos	ace Radiant	Fraction			Schedule Nam	e*	
NonReg. Lighting: 0.00 W/ft2 0.00 0.00 - none - Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none -	IntLPDReg*:	0.00 Watts/ft2	0.00	0.	00			- none -		•
Plug Loads: 1.00 W/ft2 * Schedules will be defaulted for compliance analysis - none -	NonReg. Lighting:	0.00 W/ft2	0.00	0.	00			- none -		•
	Plug Loads:	1.00 W/ft2	* Scl	hedules will be de	aulted for	comp	liance analysis	- none -		•
										DK

Training Module 9: Assign Terminal Unit

Double-click on Terminal Unit then assign Thermal Zone as shown below

Iding Model Data	Phone Komp Text	ALC: UNKERST	8 X
Terminal Unit Data			
С	urrently Active Terminal Unit: Conference VAV		
Name: Cor	ference VAV	Availability Schedule: - none -	•
Type: VAV	/ReheatBox 🔹 # of Terminal Units: 1	Min. Air Frac. Schedule: - none -	•
Status: New	Component Qty: 1		
Zone Served:	Conference Zn		
Primary AirSeg Re	f create new ThermalZone (and apply only here) -	7	
Air Flow (For singl	e t Lobby Zn Private Office Zn		
Max. Primary Flo	Conference Zn PestEm Zn	5.21 ACH	
Min. Primary Flo	W: Open Office South Zn	5.05 ACH	
Max. Heating Flo	w: 485 cfm		
Reheat Ctrl Meth	od: DualMaximum 💌		
Fan Powered Term	inals		
Induced Air Zone	- none -	Terminal Fan Power: W/cfm	
Induction Ratio:		Parallel Box Flow Frac:	
Parallel Box Ctrl			

Training Module 9: Space Data – Thermal Zones

Space Name	Thermal Zone Name
Conference West	Conference Zn
Lobby	Lobby Zn
Men RR	RestRm Zn
Open Office North	Open Office N Zn
Open Office South	Open Office S Zn
Private Office North	Private Office North Zn
Women RR	RestRm Zn