

**CBECC-Com Input Data Model changes from 2019.1.2 (6205, Feb 2020) to 2019.1.3 (6365, Sep 2020):**

The compliance engine includes a backward compatibility mechanism that automatically addresses most data model changes, where property names or enumeration strings are revised or removed as the data model evolves. This mechanism also includes logic to write messages to project logs when backward compatibility for certain properties is expected to impact compliance analysis of a previous vs. current version of the tool. Additions to the data model or changes that require user input to determine the appropriate translation of properties/enumerations from previous to a current tool version are not something that the compliance engine supports in most cases.

Proj	Project				
<b>ADDED</b>	HlthCareFacility	HealthCareFacility	Integer	-	Defaulted input
	TakeCentralElecDHWSolPVCred	TakeCentralElectricDHWSolarPVCredit	Integer	-	Optional input
	CentralElecDHWSolPVCredPct	CentralElectricDHWSolarPVCreditPercent	Float	- Units: %	Optional (0 <= # <= 100)
	HRRVentSysChange	HighRiseResidentialVentilationSystemChange	Integer	-	Defaulted input
Batt	Battery				
<b>CHANGED</b>	Ctrl	Control	Enumeration	-	Defaulted input
		default: "Basic"			
		1: "Basic"			
		2: "Time of Use"			
		3: "Ranked Day DR Control"			<b>New Option</b>
		4: "Advanced DR Control"			
<b>ADDED</b>	NumRankedDays	NumberRankedDays	Integer	-	Defaulted input (default: 20)
SpcFuncDefaults	SpaceFunctionDefaults				
<b>CHANGED</b>	VentSpcFunc	VentilationSpaceFunction	Enumeration	-	Defaulted input
		When: SpcFuncDefaults:SpcFunc = "All other"			
		default: 58			
		51: "General - Unoccupied"			
		58: "Misc - All others"			
		27: "Exhaust - Cells with toilet"			<b>New Option</b>
		88: "Sports/Entertainment - Game arcades"			<b>New Option</b>
		When: SpcFuncDefaults:SpcFunc = "Audience Seating Area"			
		default: 1			
		1: "Assembly - Auditorium seating area"			
		2: "Assembly - Courtrooms"			
		3: "Assembly - Legislative chambers"			
		25: "Exhaust - Arenas"			
		58: "Misc - All others"			

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85: "Sports/Entertainment - Bowling alley (seating)"
92: "Sports/Entertainment - Spectator areas"
When: SpcFuncDefaults:SpcFunc = "Auditorium Area"
default: 1
1: "Assembly - Auditorium seating area"
2: "Assembly - Courtrooms"
3: "Assembly - Legislative chambers"
25: "Exhaust - Arenas"
58: "Misc - All others"
When: SpcFuncDefaults:SpcFunc = "Auto Repair / Maintenance Area"
default: 26
26: "Exhaust - Auto repair rooms"
When: SpcFuncDefaults:SpcFunc = "Beauty Salon Area"
default: 79
78: "Retail - Barbershop"
79: "Retail - Beauty and nail salons"
When: SpcFuncDefaults:SpcFunc = "Civic Meeting Place Area"
default: 3
1: "Assembly - Auditorium seating area"
2: "Assembly - Courtrooms"
3: "Assembly - Legislative chambers"
48: "General - Conference/meeting"
58: "Misc - All others"
When: SpcFuncDefaults:SpcFunc = "Classroom, Lecture, Training, Vocational Areas"
default: 10
9: "Education - Art classroom"
10: "Education - Classrooms (ages 9-18)"
11: "Education - Classrooms (ages 5-8)"
12: "Education - Computer lab"
13: "Education - Daycare (through age 4)"
14: "Education - Daycare sickroom"
15: "Education - Lecture hall (fixed seats)"
16: "Education - Lecture/postsecondary classroom"
17: "Education - Media center"
19: "Education - Multiuse assembly"
20: "Education - Music/theater/dance"
23: "Education - Wood shop"
18: "Education - Metal shop"
26: "Exhaust - Auto repair rooms"
41: "Exhaust - Woodwork shop/classrooms"
58: "Misc - All others"
78: "Retail - Barbershop"
79: "Retail - Beauty and nail salons"
When: SpcFuncDefaults:SpcFunc = "Commercial/Industrial Storage (Refrigerated)"
default: 62
35: "Exhaust - Refrigerating machinery rooms"
58: "Misc - All others"
62: "Misc - Freezer and refrigerated spaces (<50F)"
When: SpcFuncDefaults:SpcFunc = "Commercial/Industrial Storage (Shipping & Handling)"
default: 66
66: "Misc - Shipping/receiving"
When: SpcFuncDefaults:SpcFunc = "Commercial/Industrial Storage (Warehouse)"
default: 70
38: "Exhaust - Storage rooms, chemical"

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New Option

50: "General - Occupiable storage rooms for liquids or gels"  
58: "Misc - All others"  
70: "Misc - Warehouses"  
73: "Office - Occupiable storage rooms for dry materials"  
When: SpcFuncDefaults:SpcFunc = "Computer Room"  
default: 61  
12: "Education - Computer lab"  
17: "Education - Media center"  
58: "Misc - All others"  
61: "Misc - Computer (not printing)"  
76: "Office - Telephone/data entry"  
When: SpcFuncDefaults:SpcFunc = "Concourse and Atria Area"  
default: 81  
5: "Assembly - Lobbies"  
49: "General - Corridors"  
56: "Lodging - Lobbies/pre-function"  
58: "Misc - All others"  
69: "Misc - Transportation waiting"  
72: "Office - Main entry lobbies"  
81: "Retail - Mall common areas"  
When: SpcFuncDefaults:SpcFunc = "Convention, Conference, Multipurpose and Meeting Area"  
default: 48  
2: "Assembly - Courtrooms"  
3: "Assembly - Legislative chambers"  
8: "Assembly - Places of religious worship"  
15: "Education - Lecture hall (fixed seats)"  
19: "Education - Multiuse assembly"  
48: "General - Conference/meeting"  
57: "Lodging - Multipurpose assembly"  
58: "Misc - All others"  
When: SpcFuncDefaults:SpcFunc = "Copy Room"  
default: 28  
28: "Exhaust - Copy, printing rooms"  
When: SpcFuncDefaults:SpcFunc = "Corridor Area"  
default: 49  
49: "General - Corridors"  
56: "Lodging - Lobbies/pre-function"  
69: "Misc - Transportation waiting"  
77: "Residential - Common corridors"  
81: "Retail - Mall common areas"  
When: SpcFuncDefaults:SpcFunc = "Dining Area (Bar/Lounge and Fine Dining)"  
default: 45  
42: "Food Service - Bars, cocktail lounges"  
45: "Food Service - Restaurant dining rooms"  
When: SpcFuncDefaults:SpcFunc = "Dining Area (Cafeteria/Fast Food)"  
default: 43  
43: "Food Service - Cafeteria/fast-food dining"  
When: SpcFuncDefaults:SpcFunc = "Dining Area (Family and Leisure)"  
default: 43  
42: "Food Service - Bars, cocktail lounges"  
43: "Food Service - Cafeteria/fast-food dining"  
45: "Food Service - Restaurant dining rooms"  
When: SpcFuncDefaults:SpcFunc = "Electrical, Mechanical, Telephone Rooms"  
default: 68

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35: "Exhaust - Refrigerating machinery rooms"
51: "General - Unoccupied"
58: "Misc - All others"
68: "Misc - Telephone closets"
When: SpcFuncDefaults:SpcFunc = "Exercise/Fitness Center and Gymnasium Areas"
default: 89
19: "Education - Multiuse assembly"
20: "Education - Music/theater/dance"
86: "Sports/Entertainment - Disco/dance floors"
89: "Sports/Entertainment - Gym, sports arena (play area)"
90: "Sports/Entertainment - Health club/aerobics room"
91: "Sports/Entertainment - Health club/weight rooms"
94: "Sports/Entertainment - Swimming (deck)"
95: "Sports/Entertainment - Swimming (pool)"
When: SpcFuncDefaults:SpcFunc = "Financial Transaction Area"
default: 60
59: "Misc - Bank vaults/safe deposit"
60: "Misc - Banks or bank lobbies"
74: "Office - Office space"
When: SpcFuncDefaults:SpcFunc = "General/Commercial & Industrial Work Area (High Bay)"
default: 63
28: "Exhaust - Copy, printing rooms"
29: "Exhaust - Darkrooms"
33: "Exhaust - Paint spray booths"
41: "Exhaust - Woodwork shop/classrooms"
58: "Misc - All others"
63: "Misc - General manufacturing (excludes heavy industrial and process using chemicals)"
67: "Misc - Sorting, packing, light assembly"
When: SpcFuncDefaults:SpcFunc = "General/Commercial & Industrial Work Area (Low Bay)"
default: 63
28: "Exhaust - Copy, printing rooms"
29: "Exhaust - Darkrooms"
30: "Exhaust - Janitor closets, trash rooms, recycling"
33: "Exhaust - Paint spray booths"
41: "Exhaust - Woodwork shop/classrooms"
55: "Lodging - Laundry rooms, central"
58: "Misc - All others"
63: "Misc - General manufacturing (excludes heavy industrial and process using chemicals)"
67: "Misc - Sorting, packing, light assembly"
When: SpcFuncDefaults:SpcFunc = "General/Commercial & Industrial Work Area (Precision)"
default: 63
28: "Exhaust - Copy, printing rooms"
29: "Exhaust - Darkrooms"
33: "Exhaust - Paint spray booths"
41: "Exhaust - Woodwork shop/classrooms"
58: "Misc - All others"
63: "Misc - General manufacturing (excludes heavy industrial and process using chemicals)"
67: "Misc - Sorting, packing, light assembly"
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Exam/Treatment Room)"
default: 58
58: "Misc - All others"
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Imaging Room)"
default: 58
58: "Misc - All others"

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When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Medical Supply Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Nursery)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Nurse's Station)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Imaging Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Operating Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Patient Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Physical Therapy Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "Healthcare Facility and Hospitals (Recovery Room)" default: 58 58: "Misc - All others"	New Conditional List
When: SpcFuncDefaults:SpcFunc = "High-Rise Residential Living Spaces" default: 96 96: "NA"	
When: SpcFuncDefaults:SpcFunc = "Hotel Function Area" default: 57 48: "General - Conference/meeting" 56: "Lodging - Lobbies/pre-function" 57: "Lodging - Multipurpose assembly" 87: "Sports/Entertainment - Gambling casinos"	
When: SpcFuncDefaults:SpcFunc = "Hotel/Motel Guest Room" default: 53 52: "Lodging - Barracks sleeping areas" 53: "Lodging - Bedroom/living room"	
When: SpcFuncDefaults:SpcFunc = "Kitchen/Food Preparation Area" default: 44 44: "Food Service - Kitchen (cooking)"	
When: SpcFuncDefaults:SpcFunc = "Kitchenette or Residential Kitchen" default: 31 31: "Exhaust - Kitchenettes"	
When: SpcFuncDefaults:SpcFunc = "Laundry Area" default: 55 37: "Exhaust - Soiled laundry storage rooms" 54: "Lodging - Laundry rooms within dwelling units" 55: "Lodging - Laundry rooms, central" 80: "Retail - Coin-operated laundries"	
When: SpcFuncDefaults:SpcFunc = "Library (Reading Area)" default: 4 4: "Assembly - Libraries (reading rooms and stack areas)"	
When: SpcFuncDefaults:SpcFunc = "Library (Stacks Area)" default: 4	

4: "Assembly - Libraries (reading rooms and stack areas)"  
When: SpcFuncDefaults:SpcFunc = "Locker Room"  
default: 32  
24: "Exhaust - All other locker rooms"  
32: "Exhaust - Locker rooms for athletic or industrial facilities"  
36: "Exhaust - Shower rooms"  
When: SpcFuncDefaults:SpcFunc = "Lounge, Breakroom, or Waiting Area"  
default: 46  
46: "General - Break rooms"  
47: "General - Coffee Stations"  
58: "Misc - All others"  
69: "Misc - Transportation waiting"  
71: "Office - Breakrooms"  
75: "Office - Reception areas"  
When: SpcFuncDefaults:SpcFunc = "Main Entry Lobby"  
default: 72  
5: "Assembly - Lobbies"  
56: "Lodging - Lobbies/pre-function"  
60: "Misc - Banks or bank lobbies"  
72: "Office - Main entry lobbies"  
When: SpcFuncDefaults:SpcFunc = "Museum Area (Exhibition/Display)"  
default: 7  
6: "Assembly - Museums (childrens)"  
7: "Assembly - Museums/galleries"  
When: SpcFuncDefaults:SpcFunc = "Museum Area (Restoration Room)"  
default: 63  
9: "Education - Art classroom"  
23: "Education - Wood shop"  
28: "Exhaust - Copy, printing rooms"  
29: "Exhaust - Darkrooms"  
41: "Exhaust - Woodwork shop/classrooms"  
50: "General - Occupiable storage rooms for liquids or gels"  
58: "Misc - All others"  
63: "Misc - General manufacturing (excludes heavy industrial and process using chemicals)"  
65: "Misc - Photo studios"  
67: "Misc - Sorting, packing, light assembly"  
When: SpcFuncDefaults:SpcFunc = "Office Area (<250 square feet)"  
default: 74  
74: "Office - Office space"  
When: SpcFuncDefaults:SpcFunc = "Office Area (>250 square feet)"  
default: 74  
74: "Office - Office space"  
When: SpcFuncDefaults:SpcFunc = "Office Area (Open plan office)"  
default: 74  
74: "Office - Office space"  
When: SpcFuncDefaults:SpcFunc = "Parking Garage Area (Daylight Adaptation Zones)"  
default: 34  
34: "Exhaust - Parking garages"  
When: SpcFuncDefaults:SpcFunc = "Parking Garage Area (Dedicated Ramps)"  
default: 34  
34: "Exhaust - Parking garages"  
When: SpcFuncDefaults:SpcFunc = "Parking Garage Area (Parking Zone)"  
default: 34  
34: "Exhaust - Parking garages"

When: SpcFuncDefaults:SpcFunc = "Pharmacy Area"  
default: 64  
64: "Misc - Pharmacy (preparation area)"

When: SpcFuncDefaults:SpcFunc = "Religious Worship Area"  
default: 8  
8: "Assembly - Places of religious worship"

When: SpcFuncDefaults:SpcFunc = "Restrooms"  
default: 40  
36: "Exhaust - Shower rooms"  
39: "Exhaust - Toilets, private"  
40: "Exhaust - Toilets, public"

When: SpcFuncDefaults:SpcFunc = "Retail Sales Area (Fitting Room)"  
default: 83  
83: "Retail - Sales"  
58: "Misc - All others"

When: SpcFuncDefaults:SpcFunc = "Retail Sales Area (Grocery Sales)"  
default: 84  
84: "Retail - Supermarket"

When: SpcFuncDefaults:SpcFunc = "Retail Sales Area (Retail Merchandise Sales)"  
default: 83  
83: "Retail - Sales"  
82: "Retail - Pet shops (animal areas)"

When: SpcFuncDefaults:SpcFunc = "Scientific Laboratory Area"  
default: 22  
21: "Education - Science laboratories"  
22: "Education - University/college laboratories"  
58: "Misc - All others"  
63: "Misc - General manufacturing (excludes heavy industrial and process using chemicals)"  
64: "Misc - Pharmacy (preparation area)"

When: SpcFuncDefaults:SpcFunc = "Sports Arena - Playing Area (> 5,000 Spectators)"  
default: 89  
25: "Exhaust - Arenas"  
89: "Sports/Entertainment - Gym, sports arena (play area)"  
94: "Sports/Entertainment - Swimming (deck)"  
95: "Sports/Entertainment - Swimming (pool)"

When: SpcFuncDefaults:SpcFunc = "Sports Arena - Playing Area (2,000 - 5,000 Spectators)"  
default: 89  
25: "Exhaust - Arenas"  
89: "Sports/Entertainment - Gym, sports arena (play area)"  
94: "Sports/Entertainment - Swimming (deck)"  
95: "Sports/Entertainment - Swimming (pool)"

When: SpcFuncDefaults:SpcFunc = "Sports Arena - Playing Area (< 2,000 Spectators)"  
default: 89  
25: "Exhaust - Arenas"  
89: "Sports/Entertainment - Gym, sports arena (play area)"  
94: "Sports/Entertainment - Swimming (deck)"  
95: "Sports/Entertainment - Swimming (pool)"

When: SpcFuncDefaults:SpcFunc = "Sports Arena - Playing Area (Recreational)"  
default: 89  
89: "Sports/Entertainment - Gym, sports arena (play area)"  
90: "Sports/Entertainment - Health club/aerobics room"  
91: "Sports/Entertainment - Health club/weight rooms"  
94: "Sports/Entertainment - Swimming (deck)"  
95: "Sports/Entertainment - Swimming (pool)"

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When: SpcFuncDefaults:SpcFunc = "Stairwell"
      default: 49
           49: "General - Corridors"
           51: "General - Unoccupied"
           77: "Residential - Common corridors"
When: SpcFuncDefaults:SpcFunc = "Theater Area (Motion Picture)"
      default: 1
           1: "Assembly - Auditorium seating area"
When: SpcFuncDefaults:SpcFunc = "Theater Area (Performance)"
      default: 93
           20: "Education - Music/theater/dance"
           58: "Misc - All others"
           93: "Sports/Entertainment - Stages, studios"
When: SpcFuncDefaults:SpcFunc = "Transportation Function (Baggage Area)"
      default: 69
           67: "Misc - Sorting, packing, light assembly"
           69: "Misc - Transportation waiting"
When: SpcFuncDefaults:SpcFunc = "Transportation Function (Ticketing Area)"
      default: 69
           5: "Assembly - Lobbies"
           69: "Misc - Transportation waiting"
When: SpcFuncDefaults:SpcFunc = "Unleased Tenant Area"
      default: 74
           83: "Retail - Sales"
           43: "Food Service - Cafeteria/fast-food dining"
           45: "Food Service - Restaurant dining rooms"
           58: "Misc - All others"
           70: "Misc - Warehouses"
           74: "Office - Office space"
When: SpcFuncDefaults:SpcFunc = "Unoccupied-Exclude from Gross Floor Area"
      default: 96
           96: "NA"
When: SpcFuncDefaults:SpcFunc = "Unoccupied-Include in Gross Floor Area"
      default: 96
           96: "NA"
When: SpcFuncDefaults:SpcFunc = "Videoconferencing Studio"
      default: 48
           48: "General - Conference/meeting"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Corridor Area)"
      default: 49
           49: "General - Corridors"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Dining)"
      default: 43
           43: "Food Service - Cafeteria/fast-food dining"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Lounge/Waiting Area)"
      default: 46
           46: "General - Break rooms"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Main Entry Lobby)"
      default: 72
           72: "Office - Main entry lobbies"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Multipurpose Room)"
      default: 48
           48: "General - Conference/meeting"
When: SpcFuncDefaults:SpcFunc = "Aging Eye/Low-vision (Religious Worship Area)"

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**New Conditional List**

**New Conditional List**

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        default: 0
            0: "- none specified -"
            5: "WhiteOrChalkBoard"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Concourse and Atria Area"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Convention, Conference, Multipurpose and Meeting Area"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Dining Area (Bar/Lounge and Fine Dining)"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Dining Area (Cafeteria/Fast Food)"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Dining Area (Family and Leisure)"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Electrical, Mechanical, Telephone Rooms"
        default: 0
            0: "- none specified -"
            1: "DetailedTaskWork"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Financial Transaction Area"
        default: 0
            0: "- none specified -"
            3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "General/Commercial & Industrial Work Area (High Bay)"
        default: 0
            0: "- none specified -"
            1: "DetailedTaskWork"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "General/Commercial & Industrial Work Area (Low Bay)"
        default: 0
            0: "- none specified -"
            1: "DetailedTaskWork"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "General/Commercial & Industrial Work Area (Precision)"
        default: 0
            0: "- none specified -"
            4: "PrecisionWork"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
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and: IntLtgSys:ParentSpFunc = "Hotel Function Area"
default: 0
      0: "- none specified -"
      3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Library (Reading Area)"
default: 0
      0: "- none specified -"
      3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Lounge, Breakroom, or Waiting Area"
default: 0
      0: "- none specified -"
      3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Main Entry Lobby"
default: 0
      0: "- none specified -"
      3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Museum Area (Exhibition/Display)"
default: 0
      0: "- none specified -"
      7: "AccentDisplayFeatureMuseum"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Museum Area (Restoration Room)"
default: 0
      0: "- none specified -"
      1: "DetailedTaskWork"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Office Area (<250 square feet)"
default: 0
      0: "- none specified -"
      11: "PortableLightingForOffice"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Office Area (>250 square feet)"
default: 0
      0: "- none specified -"
      11: "PortableLightingForOffice"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Office Area (Open plan office)"
default: 0
      0: "- none specified -"
      11: "PortableLightingForOffice"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Parking Garage Area (Parking Zone)"
default: 0
      0: "- none specified -"
      10: "ParkingGarageATMLighting"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Pharmacy Area"
default: 0
      0: "- none specified -"
      2: "SpecializedTaskWork"

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Renamed Option

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When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Religious Worship Area"
default: 0
0: "- none specified -"
3: "Ornamental"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Restrooms"
default: 0
0: "- none specified -"
6: "AccentDisplayFeature"
8: "Decorative"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Retail Sales Area (Fitting Room)"
default: 0
0: "- none specified -"
12: "ExternalIlluminatedMirror"
13: "InternalIlluminatedMirror"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Retail Sales Area (Grocery Sales)"
default: 0
0: "- none specified -"
6: "AccentDisplayFeature"
8: "Decorative"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Retail Sales Area (Retail Merchandise Sales)"
default: 0
0: "- none specified -"
6: "AccentDisplayFeature"
8: "Decorative"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Scientific Laboratory Area"
default: 0
0: "- none specified -"
2: "SpecializedTaskWork"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Stairwell"
default: 0
0: "- none specified -"
6: "AccentDisplayFeature"
8: "Decorative"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Theater Area (Motion Picture)"
default: 0
0: "- none specified -"
3: "Ornamental"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Theater Area (Performance)"
default: 0
0: "- none specified -"
3: "Ornamental"

When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Transportation Function (Ticketing Area)"
default: 0
0: "- none specified -"
```

```
        6: "AccentDisplayFeature"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = "Videoconferencing Studio"
default: 0
        0: "- none specified -"
        9: "VideoconferencingStudioLighting"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 269
default: 0
        0: "- none specified -"
        8: "Decorative"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 270
default: 0
        0: "- none specified -"
        3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 271
default: 0
        0: "- none specified -"
        3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 272
default: 0
        0: "- none specified -"
        3: "Ornamental"
        14: "TransitionLightingOffAtNight"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 273
default: 0
        0: "- none specified -"
        3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 274
default: 0
        0: "- none specified -"
        3: "Ornamental"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 275
default: 0
        0: "- none specified -"
        6: "AccentDisplayFeature"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 279
default: 0
        0: "- none specified -"
        15: "TunableWhiteOrDimToWarm"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 280
default: 0
        0: "- none specified -"
        15: "TunableWhiteOrDimToWarm"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
and: IntLtgSys:ParentSpFunc = 282
```

```

    default: 0
           0: "- none specified -"
           8: "Decorative"
           15: "TunableWhiteOrDimToWarm"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
    and: IntLtgSys:ParentSpFunc = 283
    default: 0
           0: "- none specified -"
           15: "TunableWhiteOrDimToWarm"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
    and: IntLtgSys:ParentSpFunc = 284
    default: 0
           0: "- none specified -"
           15: "TunableWhiteOrDimToWarm"
When: IntLtgSys:IntLtgSpecMthd = "AreaCategoryMethod"
    default: 0
           0: "- none specified -"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
    and: IntLtgSys:ParentSpFunc = "Auditorium Area"
    default: 0
           0: "- none specified -"
           111: "TailoredWallDisplayAllowance"
           112: "TailoredFloorDisplayAllowance"
           113: "TailoredTaskAllowance"
           114: "TailoredOrnamentalAndSpecialEffectAllowance"
           115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
    and: IntLtgSys:ParentSpFunc = "Convention, Conference, Multipurpose and Meeting Area"
    default: 0
           0: "- none specified -"
           111: "TailoredWallDisplayAllowance"
           112: "TailoredFloorDisplayAllowance"
           113: "TailoredTaskAllowance"
           114: "TailoredOrnamentalAndSpecialEffectAllowance"
           115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
    and: IntLtgSys:ParentSpFunc = "Dining Area (Bar/Lounge and Fine Dining)"
    default: 0
           0: "- none specified -"
           111: "TailoredWallDisplayAllowance"
           112: "TailoredFloorDisplayAllowance"
           113: "TailoredTaskAllowance"
           114: "TailoredOrnamentalAndSpecialEffectAllowance"
           115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
    and: IntLtgSys:ParentSpFunc = "Dining Area (Cafeteria/Fast Food)"
    default: 0
           0: "- none specified -"
           111: "TailoredWallDisplayAllowance"
           112: "TailoredFloorDisplayAllowance"
           113: "TailoredTaskAllowance"
           114: "TailoredOrnamentalAndSpecialEffectAllowance"
           115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"

```

New Conditional List

```

and: IntLtgSys:ParentSpFunc = "Dining Area (Family and Leisure)"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Hotel Function Area"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Main Entry Lobby"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Hotel Function Area"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Main Entry Lobby"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Museum Area (Exhibition/Display)"
default: 0
      0: "- none specified -"
      111: "TailoredWallDisplayAllowance"
      112: "TailoredFloorDisplayAllowance"
      113: "TailoredTaskAllowance"
      114: "TailoredOrnamentalAndSpecialEffectAllowance"
      115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"

```

```
and: IntLtgSys:ParentSpFunc = "Religious Worship Area"
default: 0
0: "- none specified -"
111: "TailoredWallDisplayAllowance"
112: "TailoredFloorDisplayAllowance"
113: "TailoredTaskAllowance"
114: "TailoredOrnamentalAndSpecialEffectAllowance"
115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Retail Sales Area (Grocery Sales)"
default: 0
0: "- none specified -"
111: "TailoredWallDisplayAllowance"
112: "TailoredFloorDisplayAllowance"
113: "TailoredTaskAllowance"
114: "TailoredOrnamentalAndSpecialEffectAllowance"
115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Retail Sales Area (Retail Merchandise Sales)"
default: 0
0: "- none specified -"
111: "TailoredWallDisplayAllowance"
112: "TailoredFloorDisplayAllowance"
113: "TailoredTaskAllowance"
114: "TailoredOrnamentalAndSpecialEffectAllowance"
115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Theater Area (Motion Picture)"
default: 0
0: "- none specified -"
111: "TailoredWallDisplayAllowance"
112: "TailoredFloorDisplayAllowance"
113: "TailoredTaskAllowance"
114: "TailoredOrnamentalAndSpecialEffectAllowance"
115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
and: IntLtgSys:ParentSpFunc = "Theater Area (Performance)"
default: 0
0: "- none specified -"
111: "TailoredWallDisplayAllowance"
112: "TailoredFloorDisplayAllowance"
113: "TailoredTaskAllowance"
114: "TailoredOrnamentalAndSpecialEffectAllowance"
115: "TailoredVeryValuableDisplayCaseAllowance"
When: IntLtgSys:IntLtgSpecMthd = "TailoredMethod"
default: 0
0: "- none specified -"
```



Thrm1Zn	ThermalZone				
<b>CHANGED</b>	Type	Type	Enumeration	- - - -	Compulsory input
		default: -1			
		0: "- specify -"			
		1: "SZAC"			
		2: "SZHP"			
		9: "SPVAC"			
		10: "SPVHP"			
		3: "FPFC"			
		4: "WSHP"			
		5: "PTAC"			
		6: "PTHP"			
		11: "VRF"			
		12: "MiniSplitAC"			
		13: "MiniSplitHP"			
		14: "Furnace"	Revised Order		
		21: "Baseboard"	Revised Order & Value		
		22: "PassiveBeam"	Revised Order & Value		
		31: "Exhaust"	Revised Order & Value		
		32: "VentilationOnly"	Revised Order & Value		
RtdHtRcvryEff	RatedHeatRecoveryEffectiveness		Float	- Units: ASRE/100	CondRequired input
			Error if not:	0 <= Value <= 1	
<b>ADDED</b>	HtRcvryCertification	HeatRecoveryCertification	Enumeration	- - - -	Defaulted input
		default: -1			
		1: "AHRI"			
		2: "HVI"			
HXType	Type	Type	Enumeration	- - - -	Defaulted input
		default: -1			
		1: "Plate"			
		2: "Wheel"			
HasHXByPass	HasHeatExchangerBypass	HasHeatExchangerBypass	Enumeration	- - - -	Defaulted input
		default: -1			
		1: "Yes"			
		2: "No"			
RcvryType	RecoveryType	RecoveryType	Enumeration	- - - -	Defaulted input
		default: -1			
		1: "Total"			
		2: "SensibleOnly"			
HtgSensEff100	HeatingSensibleEffectiveness100	HeatingSensibleEffectiveness100	Float	- - - -	Defaulted input
HtgSensEff75	HeatingSensibleEffectiveness75	HeatingSensibleEffectiveness75	Float	- - - -	Defaulted input
HtgTotEff100	HeatingTotalEffectiveness100	HeatingTotalEffectiveness100	Float	- - - -	Defaulted input
HtgTotEff75	HeatingTotalEffectiveness75	HeatingTotalEffectiveness75	Float	- - - -	Defaulted input
HtgLatEff100	HeatingLatentEffectiveness100	HeatingLatentEffectiveness100	Float	- - - -	Defaulted input
HtgLatEff75	HeatingLatentEffectiveness75	HeatingLatentEffectiveness75	Float	- - - -	Defaulted input
ClgSensEff100	CoolingSensibleEffectiveness100	CoolingSensibleEffectiveness100	Float	- - - -	Defaulted input
ClgSensEff75	CoolingSensibleEffectiveness75	CoolingSensibleEffectiveness75	Float	- - - -	Defaulted input
ClgTotEff100	CoolingTotalEffectiveness100	CoolingTotalEffectiveness100	Float	- - - -	Defaulted input
ClgTotEff75	CoolingTotalEffectiveness75	CoolingTotalEffectiveness75	Float	- - - -	Defaulted input
ClgLatEff100	CoolingLatentEffectiveness100	CoolingLatentEffectiveness100	Float	- - - -	Defaulted input

*CBECC-Com Input Data Model changes from 2019.1.2 (6205, Feb 2020) to 2019.1.3 (6365, Sep 2020)*

ClgLatEff75	CoolingLatentEffectiveness75	Float	- - - -	Defaulted input
TempCtrl	TemperatureControl	Enumeration	- - - -	Defaulted input
	default: -1			
	1: "None"			
	2: "Fixed"			
	3: "Scheduled"			
FixedSupTemp	FixedSupplyTemperature	Float	Units: °F	Defaulted input
TempSetptSchRef	TemperatureSetpointScheduleReference	ObjectRef	- - - -	CondRequired input
	Sch (Sch:Type = "Temperature")			
DefrostCtrl	DefrostControl	Enumeration	- - - -	Defaulted input
	default: -1			
	1: "None"			
	2: "ExhaustAirRecirculation"			
	3: "ExhaustOnly"			
	4: "MinimumExhaustTemperature"			
DefrostCtrlTemp	DefrostControlTemperature	Float	Units: °F	Defaulted input

**VRFSys                    VariableRefrigerantFlowSystem**

<b>ADDED</b>				
SEER	SEER	Float	- - - -	CondRequired input
HSPF	HSPF	Float	- - - -	CondRequired input
BypassMinEffCheck	BypassMinimumEfficiencyCheck	Integer	- - - -	Defaulted input

**ResDHWSys                ResidentialDHWSystem**

<b>ADDED / UPDATED</b>				
CentralHPWHSysDesc	CentralHPWHSystemDescription	Enumeration	- - - -	CondRequired input
	default: 0			
	0: "- select system description -"			
	1: "Small, Integrated, Packaged System"			
	2: "Large Single Pass Primary"			
CentralHPWHCprsrType	CentralHPWHCompressorType	Enumeration	- - - -	(see next line)
	Required for Central HPWH Systems of type 'Large Single Pass Primary'			
	default: 0			
	0: "- select CHPWH type -"			
	48: "Colmac CxV-5 (10kW cap @ 40F)"			
	49: "Colmac CxA-10 (21kW cap @ 40F)"			
	50: "Colmac CxA-15 (29kW cap @ 40F)"			
	45: "Colmac CxA-20 (41kW cap @ 40F)"			
	51: "Colmac CxA-25 (49kW cap @ 40F)"			
	52: "Colmac CxA-30 (57kW cap @ 40F)"			
	53: "Nyle C25A (5kW cap @ 40F)"			
	54: "Nyle C60A (11kW cap @ 40F)"			
	55: "Nyle C90A (20kW cap @ 40F)"			
	56: "Nyle C125A (26kW cap @ 40F)"			
	46: "Nyle C185A (40kW cap @ 40F)"			
	47: "Nyle C250A (45kW cap @ 40F)"			
	67: "Nyle C60A-C (11kW cap @ 40F)"			
	68: "Nyle C90A-C (20kW cap @ 40F)"			
	69: "Nyle C125A-C (26kW cap @ 40F)"			

```

70: "Nyle C185A-C (40kW cap @ 40F)"
71: "Nyle C250A-C (45kW cap @ 40F)"
57: "Sanden GS3-45HPA-US (4kW cap @ 40F)"
153: "Lochinvar AHP025-*-*N**** (5kW cap @ 40F)"
154: "Lochinvar AHP060-*-*N**** (11kW cap @ 40F)"
155: "Lochinvar AHP090-*-*N**** (20kW cap @ 40F)"
156: "Lochinvar AHP125-*-*N**** (26kW cap @ 40F)"
146: "Lochinvar AHP185-*-*N**** (40kW cap @ 40F)"
147: "Lochinvar AHP250-*-*N**** (45kW cap @ 40F)"
253: "A. O. Smith AHPA-25-*-*N**** (5kW cap @ 40F)"
254: "A. O. Smith AHPA-60-*-*N**** (11kW cap @ 40F)"
255: "A. O. Smith AHPA-90-*-*N**** (20kW cap @ 40F)"
256: "A. O. Smith AHPA-125-*-*N**** (26kW cap @ 40F)"
246: "A. O. Smith AHPA-185-*-*N**** (40kW cap @ 40F)"
247: "A. O. Smith AHPA-250-*-*N**** (45kW cap @ 40F)"
353: "State SHPA-25-*-*N**** (5kW cap @ 40F)"
354: "State SHPA-60-*-*N**** (11kW cap @ 40F)"
355: "State SHPA-90-*-*N**** (20kW cap @ 40F)"
356: "State SHPA-125-*-*N**** (26kW cap @ 40F)"
346: "State SHPA-185-*-*N**** (40kW cap @ 40F)"
347: "State SHPA-250-*-*N**** (45kW cap @ 40F)"
167: "Lochinvar AHP060-*-*C**** (11kW cap @ 40F)"
168: "Lochinvar AHP090-*-*C**** (20kW cap @ 40F)"
169: "Lochinvar AHP125-*-*C**** (26kW cap @ 40F)"
170: "Lochinvar AHP185-*-*C**** (40kW cap @ 40F)"
171: "Lochinvar AHP250-*-*C**** (45kW cap @ 40F)"
267: "A. O. Smith AHPA-60-*-*C**** (11kW cap @ 40F)"
268: "A. O. Smith AHPA-90-*-*C**** (20kW cap @ 40F)"
269: "A. O. Smith AHPA-125-*-*C**** (26kW cap @ 40F)"
270: "A. O. Smith AHPA-185-*-*C**** (40kW cap @ 40F)"
271: "A. O. Smith AHPA-250-*-*C**** (45kW cap @ 40F)"
367: "State SHPA-60-*-*C**** (11kW cap @ 40F)"
368: "State SHPA-90-*-*C**** (20kW cap @ 40F)"
369: "State SHPA-125-*-*C**** (26kW cap @ 40F)"
370: "State SHPA-185-*-*C**** (40kW cap @ 40F)"
371: "State SHPA-250-*-*C**** (45kW cap @ 40F)"

```

CentralHPWHBrand

CentralHPWHBrand

Enumeration - - - - (see next line)

Required for Central HPWH Systems of type 'Small, Integrated, Packaged System'

```

default: 1
1: "- select Brand -"
11: "A. O. Smith"
12: "American"
13: "Bradford White"
14: "EcoSense"
15: "GE"
16: "Kenmore"
17: "Lochinvar"
18: "Reliance"
19: "Rheem"
20: "Richmond"
21: "Ruud"
22: "Sanden"
23: "State"
24: "Stiebel Eltron"

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```

                25: "US Craftmaster"
                26: "Whirlpool"
                99: "(generic)"
CentralHPWHModel      CentralHPWHModel      Enumeration - - - - (see next line)
                                Required for Central HPWH Systems of type 'Small, Integrated, Packaged System'
When: ResDHWSys:CentralHPWHBrand = 0
      default: 0
            0: "n/a"
When: ResDHWSys:CentralHPWHBrand = "- select Brand -"
      default: 0
            0: "n/a"
When: ResDHWSys:CentralHPWHBrand = "A. O. Smith"
      default: 1
            1: "- select Model -"
              110113: "FPTU 50 120 (50 gal)"
              110214: "FPTU 66 120 (66 gal)"
              110315: "FPTU 80 120 (80 gal)"
              110412: "HHPT 80 102 (80 gal)"
              110513: "HP10-50H45DV (50 gal)"
              110615: "HP10-80H45DV (80 gal)"
              110713: "HPTU 50 120 (50 gal)"
              110813: "HPTU 50N 120 (50 gal)"
              110914: "HPTU 66 120 (66 gal)"
              111014: "HPTU 66N 120 (66 gal)"
              111115: "HPTU 80 120 (80 gal)"
              111215: "HPTU 80N 120 (80 gal)"
              111311: "PHPT 60 (60 gal)"
              111412: "PHPT 80 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "American"
      default: 1
            1: "- select Model -"
              120111: "HPE10260H045DV (60 gal)"
              120212: "HPE10280H045DV (80 gal)"
              120312: "HPE6280H045DV 102 (80 gal)"
              120413: "HPHE10250H045DV 120 (50 gal)"
              120513: "HPHE10250H045DVN 120 (50 gal)"
              120614: "HPHE10266H045DV 120 (66 gal)"
              120714: "HPHE10266H045DVN 120 (66 gal)"
              120815: "HPHE10280H045DV 120 (80 gal)"
              120915: "HPHE10280H045DVN 120 (80 gal)"
              121013: "HPHE6250H045DV (50 gal)"
              121114: "HPHE6266H045DV 120 (66 gal)"
              121215: "HPHE6280H045DV 120 (80 gal)"
              121313: "HPHE650H045DV 120 (50 gal)"
When: ResDHWSys:CentralHPWHBrand = "Bradford White"
      default: 1
            1: "- select Model -"
              130119: "RE2H50R10B-1NCWT (50 gal)"
              130358: "RE2H65T10-1NCWT (65 gal)"
              130223: "RE2H80R10B-1NCWT (80 gal)"
              130419: "RE2H50S6-1NCWT (50 gal)"
              130558: "RE2H65T6-1NCWT (65 gal)"
              130623: "RE2H80T6-1NCWT (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "EcoSense"

```

```

default: 1
1: "- select Model -"
140121: "HB50ES (50 gal)"
When: ResDHWSys:CentralHPWHBrand = "GE"
default: 1
1: "- select Model -"
150119: "BEH50DCEJSB (50 gal)"
150223: "BEH80DCEJSB (80 gal)"
150319: "GEH50DEEJSC (50 gal)"
150419: "GEH50DEEJXXX (50 gal)"
150519: "GEH50DFEJSR (50 gal)"
150619: "GEH50DHEKSC (50 gal)"
150723: "GEH80DEEJSC (80 gal)"
150823: "GEH80DFEJSR (80 gal)"
150923: "GEH80DHEKSC (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Kenmore"
default: 1
1: "- select Model -"
160111: "153.32116 (60 gal)"
160212: "153.32118 (80 gal)"
160313: "153.5925 (50 gal)"
160414: "153.5926 (66 gal)"
160515: "153.5928 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Lochinvar"
default: 1
1: "- select Model -"
170113: "HPA051KD 120 (50 gal)"
170213: "HPA052KD 120 (50 gal)"
170314: "HPA067KD 120 (66 gal)"
170414: "HPA068KD 120 (66 gal)"
170515: "HPA081KD 120 (80 gal)"
170615: "HPA082KD 120 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Reliance"
default: 1
1: "- select Model -"
180113: "10 50 DHPHT 120 (50 gal)"
180213: "10 50 DHPHTNE 120 (50 gal)"
180311: "10 60 DHPT (60 gal)"
180414: "10 66 DHPHT 120 (66 gal)"
180514: "10 66 DHPHTN 120 (66 gal)"
180615: "10 80 DHPHT 120 (80 gal)"
180715: "10 80 DHPHTNE 120 (80 gal)"
180812: "10 80 DHPT (80 gal)"
180913: "6 50 DHPHT 120 (50 gal)"
181014: "6 66 DHPHT 120 (66 gal)"
181115: "6 80 DHPHT 120 (80 gal)"
181215: "6 80 DHPT 102 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Rheem"
default: 1
1: "- select Model -"
193259: "PROPH40 T2 RH375-15 (40 gal)"
193360: "PROPH50 T2 RH375-15 (50 gal)"
193461: "PROPH65 T2 RH375-15 (65 gal)"
193562: "PROPH80 T2 RH375-15 (80 gal)"

```

193659: "PROPH40 T2 RH375-30 (40 gal)"  
 193760: "PROPH50 T2 RH375-30 (50 gal)"  
 193861: "PROPH65 T2 RH375-30 (65 gal)"  
 193962: "PROPH80 T2 RH375-30 (80 gal)"  
 194059: "PROPH40 T2 RH375-SO (40 gal)"  
 194160: "PROPH50 T2 RH375-SO (50 gal)"  
 194261: "PROPH65 T2 RH375-SO (65 gal)"  
 194362: "PROPH80 T2 RH375-SO (80 gal)"  
 194459: "XE40T10H22U0 (40 gal)"  
 194560: "XE50T10H22U0 (50 gal)"  
 194661: "XE65T10H22U0 (65 gal)"  
 194762: "XE80T10H22U0 (80 gal)"  
 194859: "XE40T10H45U0 (40 gal)"  
 194960: "XE50T10H45U0 (50 gal)"  
 195061: "XE65T10H45U0 (65 gal)"  
 195162: "XE80T10H45U0 (80 gal)"  
 195259: "XE40T10HS45U0 (40 gal)"  
 195360: "XE50T10HS45U0 (50 gal)"  
 195461: "XE65T10HS45U0 (65 gal)"  
 195562: "XE80T10HS45U0 (80 gal)"  
 195663: "PRO H40 T2 RH310BM (40 gal)"  
 195764: "PRO H50 T2 RH310BM (50 gal)"  
 195865: "PRO H65 T2 RH310BM (65 gal)"  
 195966: "PRO H80 T2 RH310BM (80 gal)"  
 190121: "HB50RH (50 gal)"  
 190221: "PROPH50 T2 RH245 (50 gal)"  
 190339: "PROPH50 T2 RH350 D (50 gal)"  
 190440: "PROPH65 T2 RH350 D (65 gal)"  
 190534: "PROPH80 T2 RH245 (80 gal)"  
 190641: "PROPH80 T2 RH350 D (80 gal)"  
 190739: "XE50T10HD50U0 (50 gal)"  
 190821: "XE50T12EH45U0 (50 gal)"  
 190921: "XE50T12EH45U0W (50 gal)"  
 191040: "XE65T10HD50U0 (65 gal)"  
 191141: "XE80T10HD50U0 (80 gal)"  
 191234: "XE80T12EH45U0 (80 gal)"  
 191334: "XE80T12EH45U0W (80 gal)"  
 191439: "PROPH50 T2 RH350 DC (50 gal)"  
 191540: "PROPH65 T2 RH350 DC (65 gal)"  
 191641: "PROPH80 T2 RH350 DC (80 gal)"  
 191739: "HPLD50 (50 gal)"  
 191840: "HPLD65 (65 gal)"  
 191941: "HPLD80 (80 gal)"  
 192042: "XE50T10HD22U0 (50 gal)"  
 192139: "XE50T10HD50U1 (50 gal)"  
 192243: "XE65T10HD22U0 (65 gal)"  
 192340: "XE65T10HD50U1 (65 gal)"  
 192444: "XE80T10HD22U0 (80 gal)"  
 192541: "XE80T10HD50U1 (80 gal)"  
 192642: "PROPH50 T2 RH350 D15 (50 gal)"  
 192739: "PROPH50 T2 RH350 DCB (50 gal)"  
 192843: "PROPH65 T2 RH350 D15 (65 gal)"  
 192940: "PROPH65 T2 RH350 DCB (65 gal)"  
 193044: "PROPH80 T2 RH350 D15 (80 gal)"

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193141: "PROPH80 T2 RH350 DCB (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Richmond"
default: 1
1: "- select Model -"
201059: "10E40-HP515 (40 gal)"
201160: "10E50-HP515 (50 gal)"
201261: "10E65-HP515 (65 gal)"
201362: "10E80-HP515 (80 gal)"
201459: "10E40-HP530 (40 gal)"
201560: "10E50-HP530 (50 gal)"
201661: "10E65-HP530 (65 gal)"
201762: "10E80-HP530 (80 gal)"
201859: "10E40-HP5S30 (40 gal)"
201960: "10E50-HP5S30 (50 gal)"
202061: "10E65-HP5S30 (65 gal)"
202162: "10E80-HP5S30 (80 gal)"
200139: "10E50-HP4D (50 gal)"
200240: "10E65-HP4D (65 gal)"
200341: "10E80-HP4D (80 gal)"
200421: "12E50-HP (50 gal)"
200534: "12E80-HP (80 gal)"
200621: "HB50RM (50 gal)"
200742: "10E50-HP4D15 (50 gal)"
200843: "10E65-HP4D15 (65 gal)"
200944: "10E80-HP4D15 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Ruud"
default: 1
1: "- select Model -"
211359: "PROUH40 T2 RU375-15 (40 gal)"
211460: "PROUH50 T2 RU375-15 (50 gal)"
211561: "PROUH65 T2 RU375-15 (65 gal)"
211662: "PROUH80 T2 RU375-15 (80 gal)"
211759: "PROUH40 T2 RU375-30 (40 gal)"
211860: "PROUH50 T2 RU375-30 (50 gal)"
211961: "PROUH65 T2 RU375-30 (65 gal)"
212062: "PROUH80 T2 RU375-30 (80 gal)"
212159: "PROUH40 T2 RU375-SO (40 gal)"
212260: "PROUH50 T2 RU375-SO (50 gal)"
212361: "PROUH65 T2 RU375-SO (65 gal)"
212462: "PROUH80 T2 RU375-SO (80 gal)"
212563: "PRO H40 T2 RU310BM (40 gal)"
212664: "PRO H50 T2 RU310BM (50 gal)"
212765: "PRO H65 T2 RU310BM (65 gal)"
212866: "PRO H80 T2 RU310BM (80 gal)"
210121: "HB50RU (50 gal)"
210221: "PROUH50 T2 RU245 (50 gal)"
210339: "PROUH50 T2 RU350 D (50 gal)"
210440: "PROUH65 T2 RU350 D (65 gal)"
210534: "PROUH80 T2 RU245 (80 gal)"
210641: "PROUH80 T2 RU350 D (80 gal)"
210742: "PROUH50 T2 RU350 D15 (50 gal)"
210839: "PROUH50 T2 RU350 DCB (50 gal)"
210943: "PROUH65 T2 RU350 D15 (65 gal)"
211040: "PROUH65 T2 RU350 DCB (65 gal)"

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211144: "PROUH80 T2 RU350 D15 (80 gal)"
211241: "PROUH80 T2 RU350 DCB (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Sanden"
default: 1
1: "- select Model -"
220116: "GS3-45HPA-US & SAN-43SSAQA (43 gal)"
220216: "GS3-45HPA-US & GAUS-160QTA (43 gal)"
220317: "GS3-45HPA-US & SAN-83SSAQA (83 gal)"
220417: "GS3-45HPA-US & GAUS-315EQTD (83 gal)"
220517: "GUS-45HPA-US & SAN-83SSAQA (83 gal)"
220617: "GUS-45HPA-US & GAUS-315EQTD (83 gal)"
When: ResDHWSys:CentralHPWHBrand = "State"
default: 1
1: "- select Model -"
230112: "EP6 80 DHPT 102 (80 gal)"
230211: "EPX 60 DHPT (60 gal)"
230312: "EPX 80 DHPT (80 gal)"
230413: "HP6 50 DHPT 120 (50 gal)"
230514: "HP6 66 DHPT 120 (66 gal)"
230615: "HP6 80 DHPT 120 (80 gal)"
230713: "HPX 50 DHPT 120 (50 gal)"
230813: "HPX 50 DHPTNE 120 (50 gal)"
230914: "HPX 66 DHPT 120 (66 gal)"
231014: "HPX 66 DHPTNE 120 (66 gal)"
231115: "HPX 80 DHPT 120 (80 gal)"
231215: "HPX 80 DHPTNE 120 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Stiebel Eltron"
default: 1
1: "- select Model -"
240122: "Accelera 220 E (58 gal)"
240212: "Accelera 300/WHP 300 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "US Craftmaster"
default: 1
1: "- select Model -"
250112: "HPE2F80HD045VU 102 (80 gal)"
250211: "HPE2K60HD045V (60 gal)"
250312: "HPE2K80HD045V (80 gal)"
250413: "HPHE2F50HD045VU 120 (50 gal)"
250514: "HPHE2F66HD045VU 120 (66 gal)"
250615: "HPHE2F80HD045VU 120 (80 gal)"
250713: "HPHE2K50HD045VUN 120 (50 gal)"
250814: "HPHE2K66HD045VUN 120 (66 gal)"
250915: "HPHE2K80HD045VUN 120 (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "Whirlpool"
default: 1
1: "- select Model -"
260111: "HPE2K60HD045V (60 gal)"
260212: "HPE2K80HD045V (80 gal)"
260313: "HPHE2K50HD045V 120 (50 gal)"
260413: "HPHE2K50HD045VC 120 (50 gal)"
260513: "HPHE2K50HD045VN 120 (50 gal)"
260614: "HPHE2K66HD045V 120 (66 gal)"
260714: "HPHE2K66HD045VC 120 (66 gal)"
260815: "HPHE2K80HD045V 120 (80 gal)"

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                260915: "HPHE2K80HD045VC 120 (80 gal)"
                261032: "HPSE2K50HD045V 100 (WP) (50 gal)"
                261132: "HPSE2K50HD045VC 100 (WP) (50 gal)"
                261212: "HPSE2K80HD045V (80 gal)"
                261312: "HPSE2K80HD045VC (80 gal)"
When: ResDHWSys:CentralHPWHBrand = "(generic)"
    default: 1
           1: "- select Model -"
           990138: "UEF 2 (50 gal)"
else:
    default: 0
           0: "n/a"
CentralHPWHCprsrCnt      CentralHPWHCompressorCount      Integer      - - - - - (see next line)
                                                                Required for Central HPWH Systems
CentralHPWHPriTankVol    CentralHPWHPrimaryTankVolume      Float      - - - Units: gal (see next line)
                                                                Required for Central HPWH Systems of type 'Large Single Pass Primary'
CentralHPWHTankCnt       CentralHPWHTankCount              Integer      - - - - - (see next line)
                                                                Required for Central HPWH Systems of type 'Large Single Pass Primary'
CentralHPWHTankRVal      CentralHPWHTankRValue             Float      Units: °F-ft2-h/Btu Defaulted input
CentralHPWHTankLctn     CentralHPWHTankLocation           Enumeration  - - - - - (see next line)
                                                                Required for Central HPWH Systems
    default: 0
           0: "- select tank location -"
           1: "Outside"
           2: "Unconditioned Zone"
           3: "Conditioned Zone"
CentralHPWHAirSrc        CentralHPWHAirSource              Enumeration  - - - - - (see next line)
                                                                Required for Central HPWH Systems
    default: 0
           0: "- select air source -"
           1: "Outside"
           2: "Unconditioned Zone"
           3: "Conditioned Zone"
CentralHPWHLpTankType    CentralHPWHLoopTankType           Enumeration  - - - - - CondRequired input
When: ResDHWSys:CentralHPWHSysDesc = "Small, Integrated, Packaged System"
    default: 0
           0: "- none -"
           1: "Electric Resistance"
           2: "NEEA HPWH"
When: ResDHWSys:CentralHPWHSysDesc = "Large Single Pass Primary"
    default: 0
           0: "- none -"
           1: "Electric Resistance"
           3: "Large HPWH/Compressor"
else:
    default: 0
           0: "- none -"
CentralHPWHLpTankCprsrType CentralHPWHLoopTankCompressorType Enumeration  - - - - - (see next line)
                                                                Required for Central HPWH System Loop Tanks of type 'Large HPWH/Compressor'
    default: 0
           0: "- select CHPWH type -"
           48: "Colmac CxV-5 (10kW cap @ 40F)"
           49: "Colmac CxA-10 (21kW cap @ 40F)"
           50: "Colmac CxA-15 (29kW cap @ 40F)"

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45: "Colmac CxA-20 (41kW cap @ 40F)"
51: "Colmac CxA-25 (49kW cap @ 40F)"
52: "Colmac CxA-30 (57kW cap @ 40F)"
53: "Nyle C25A (5kW cap @ 40F)"
54: "Nyle C60A (11kW cap @ 40F)"
55: "Nyle C90A (20kW cap @ 40F)"
56: "Nyle C125A (26kW cap @ 40F)"
46: "Nyle C185A (40kW cap @ 40F)"
47: "Nyle C250A (45kW cap @ 40F)"
67: "Nyle C60A-C (11kW cap @ 40F)"
68: "Nyle C90A-C (20kW cap @ 40F)"
69: "Nyle C125A-C (26kW cap @ 40F)"
70: "Nyle C185A-C (40kW cap @ 40F)"
71: "Nyle C250A-C (45kW cap @ 40F)"
57: "Sanden GS3-45HPA-US (4kW cap @ 40F)"
153: "Lochinvar AHP025-*-*N**** (5kW cap @ 40F)"
154: "Lochinvar AHP060-*-*N**** (11kW cap @ 40F)"
155: "Lochinvar AHP090-*-*N**** (20kW cap @ 40F)"
156: "Lochinvar AHP125-*-*N**** (26kW cap @ 40F)"
146: "Lochinvar AHP185-*-*N**** (40kW cap @ 40F)"
147: "Lochinvar AHP250-*-*N**** (45kW cap @ 40F)"
253: "A. O. Smith AHPA-25-*-*N**** (5kW cap @ 40F)"
254: "A. O. Smith AHPA-60-*-*N**** (11kW cap @ 40F)"
255: "A. O. Smith AHPA-90-*-*N**** (20kW cap @ 40F)"
256: "A. O. Smith AHPA-125-*-*N**** (26kW cap @ 40F)"
246: "A. O. Smith AHPA-185-*-*N**** (40kW cap @ 40F)"
247: "A. O. Smith AHPA-250-*-*N**** (45kW cap @ 40F)"
353: "State SHPA-25-*-*N**** (5kW cap @ 40F)"
354: "State SHPA-60-*-*N**** (11kW cap @ 40F)"
355: "State SHPA-90-*-*N**** (20kW cap @ 40F)"
356: "State SHPA-125-*-*N**** (26kW cap @ 40F)"
346: "State SHPA-185-*-*N**** (40kW cap @ 40F)"
347: "State SHPA-250-*-*N**** (45kW cap @ 40F)"
167: "Lochinvar AHP060-*-*C**** (11kW cap @ 40F)"
168: "Lochinvar AHP090-*-*C**** (20kW cap @ 40F)"
169: "Lochinvar AHP125-*-*C**** (26kW cap @ 40F)"
170: "Lochinvar AHP185-*-*C**** (40kW cap @ 40F)"
171: "Lochinvar AHP250-*-*C**** (45kW cap @ 40F)"
267: "A. O. Smith AHPA-60-*-*C**** (11kW cap @ 40F)"
268: "A. O. Smith AHPA-90-*-*C**** (20kW cap @ 40F)"
269: "A. O. Smith AHPA-125-*-*C**** (26kW cap @ 40F)"
270: "A. O. Smith AHPA-185-*-*C**** (40kW cap @ 40F)"
271: "A. O. Smith AHPA-250-*-*C**** (45kW cap @ 40F)"
367: "State SHPA-60-*-*C**** (11kW cap @ 40F)"
368: "State SHPA-90-*-*C**** (20kW cap @ 40F)"
369: "State SHPA-125-*-*C**** (26kW cap @ 40F)"
370: "State SHPA-185-*-*C**** (40kW cap @ 40F)"
371: "State SHPA-250-*-*C**** (45kW cap @ 40F)"

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CentralHPWHLpTankBrand

CentralHPWHLoopTankBrand

Enumeration - - - - - (see next line)  
 Required for Central HPWH System Loop Tanks of type 'NEEA HPWH'

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default: 1
1: "- select Brand -"
11: "A. O. Smith"
12: "American"

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13: "Bradford White"
14: "EcoSense"
15: "GE"
16: "Kenmore"
17: "Lochinvar"
18: "Reliance"
19: "Rheem"
20: "Richmond"
21: "Ruud"
22: "Sanden"
23: "State"
24: "Stiebel Eltron"
25: "US Craftmaster"
26: "Whirlpool"
99: "(generic)"

CentralHPWHLpTankModel      CentralHPWHLoopTankModel      Enumeration - - - - - (see next line)
                             Required for Central HPWH System Loop Tanks of type 'NEEA HPWH'

When: ResDHWSys:CentralHPWHLpTankBrand = 0
      default: 0
          0: "n/a"
When: ResDHWSys:CentralHPWHLpTankBrand = "- select Brand -"
      default: 0
          0: "n/a"
When: ResDHWSys:CentralHPWHLpTankBrand = "A. O. Smith"
      default: 1
          1: "- select Model -"
110113: "FPTU 50 120 (50 gal)"
110214: "FPTU 66 120 (66 gal)"
110315: "FPTU 80 120 (80 gal)"
110412: "HHPT 80 102 (80 gal)"
110513: "HP10-50H45DV (50 gal)"
110615: "HP10-80H45DV (80 gal)"
110713: "HPTU 50 120 (50 gal)"
110813: "HPTU 50N 120 (50 gal)"
110914: "HPTU 66 120 (66 gal)"
111014: "HPTU 66N 120 (66 gal)"
111115: "HPTU 80 120 (80 gal)"
111215: "HPTU 80N 120 (80 gal)"
111311: "PHPT 60 (60 gal)"
111412: "PHPT 80 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "American"
      default: 1
          1: "- select Model -"
120111: "HPE10260H045DV (60 gal)"
120212: "HPE10280H045DV (80 gal)"
120312: "HPE6280H045DV 102 (80 gal)"
120413: "HPHE10250H045DV 120 (50 gal)"
120513: "HPHE10250H045DVN 120 (50 gal)"
120614: "HPHE10266H045DV 120 (66 gal)"
120714: "HPHE10266H045DVN 120 (66 gal)"
120815: "HPHE10280H045DV 120 (80 gal)"
120915: "HPHE10280H045DVN 120 (80 gal)"
121013: "HPHE6250H045DV (50 gal)"
121114: "HPHE6266H045DV 120 (66 gal)"

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121215: "HPHE6280H045DV 120 (80 gal)"
121313: "HPHE650H045DV 120 (50 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Bradford White"
default: 1
1: "- select Model -"
130119: "RE2H50R10B-1NCWT (50 gal)"
130358: "RE2H65T10-1NCWT (65 gal)"
130223: "RE2H80R10B-1NCWT (80 gal)"
130419: "RE2H50S6-1NCWT (50 gal)"
130558: "RE2H65T6-1NCWT (65 gal)"
130623: "RE2H80T6-1NCWT (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "EcoSense"
default: 1
1: "- select Model -"
140121: "HB50ES (50 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "GE"
default: 1
1: "- select Model -"
150119: "BEH50DCEJSB (50 gal)"
150223: "BEH80DCEJSB (80 gal)"
150319: "GEH50DEEJSC (50 gal)"
150419: "GEH50DEEJXXX (50 gal)"
150519: "GEH50DFEJSR (50 gal)"
150619: "GEH50DHEKSC (50 gal)"
150723: "GEH80DEEJSC (80 gal)"
150823: "GEH80DFEJSR (80 gal)"
150923: "GEH80DHEKSC (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Kenmore"
default: 1
1: "- select Model -"
160111: "153.32116 (60 gal)"
160212: "153.32118 (80 gal)"
160313: "153.5925 (50 gal)"
160414: "153.5926 (66 gal)"
160515: "153.5928 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Lochinvar"
default: 1
1: "- select Model -"
170113: "HPA051KD 120 (50 gal)"
170213: "HPA052KD 120 (50 gal)"
170314: "HPA067KD 120 (66 gal)"
170414: "HPA068KD 120 (66 gal)"
170515: "HPA081KD 120 (80 gal)"
170615: "HPA082KD 120 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Reliance"
default: 1
1: "- select Model -"
180113: "10 50 DHPHT 120 (50 gal)"
180213: "10 50 DHPHTNE 120 (50 gal)"
180311: "10 60 DHPT (60 gal)"
180414: "10 66 DHPHT 120 (66 gal)"
180514: "10 66 DHPHTN 120 (66 gal)"
180615: "10 80 DHPHT 120 (80 gal)"
180715: "10 80 DHPHTNE 120 (80 gal)"

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180812: "10 80 DHPT (80 gal)"
180913: "6 50 DHPHT 120 (50 gal)"
181014: "6 66 DHPHT 120 (66 gal)"
181115: "6 80 DHPHT 120 (80 gal)"
181215: "6 80 DHPT 102 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Rheem"
default: 1
1: "- select Model -"
193259: "PROPH40 T2 RH375-15 (40 gal)"
193360: "PROPH50 T2 RH375-15 (50 gal)"
193461: "PROPH65 T2 RH375-15 (65 gal)"
193562: "PROPH80 T2 RH375-15 (80 gal)"
193659: "PROPH40 T2 RH375-30 (40 gal)"
193760: "PROPH50 T2 RH375-30 (50 gal)"
193861: "PROPH65 T2 RH375-30 (65 gal)"
193962: "PROPH80 T2 RH375-30 (80 gal)"
194059: "PROPH40 T2 RH375-SO (40 gal)"
194160: "PROPH50 T2 RH375-SO (50 gal)"
194261: "PROPH65 T2 RH375-SO (65 gal)"
194362: "PROPH80 T2 RH375-SO (80 gal)"
194459: "XE40T10H22U0 (40 gal)"
194560: "XE50T10H22U0 (50 gal)"
194661: "XE65T10H22U0 (65 gal)"
194762: "XE80T10H22U0 (80 gal)"
194859: "XE40T10H45U0 (40 gal)"
194960: "XE50T10H45U0 (50 gal)"
195061: "XE65T10H45U0 (65 gal)"
195162: "XE80T10H45U0 (80 gal)"
195259: "XE40T10HS45U0 (40 gal)"
195360: "XE50T10HS45U0 (50 gal)"
195461: "XE65T10HS45U0 (65 gal)"
195562: "XE80T10HS45U0 (80 gal)"
195663: "PRO H40 T2 RH310BM (40 gal)"
195764: "PRO H50 T2 RH310BM (50 gal)"
195865: "PRO H65 T2 RH310BM (65 gal)"
195966: "PRO H80 T2 RH310BM (80 gal)"
190121: "HB50RH (50 gal)"
190221: "PROPH50 T2 RH245 (50 gal)"
190339: "PROPH50 T2 RH350 D (50 gal)"
190440: "PROPH65 T2 RH350 D (65 gal)"
190534: "PROPH80 T2 RH245 (80 gal)"
190641: "PROPH80 T2 RH350 D (80 gal)"
190739: "XE50T10HD50U0 (50 gal)"
190821: "XE50T12EH45U0 (50 gal)"
190921: "XE50T12EH45U0W (50 gal)"
191040: "XE65T10HD50U0 (65 gal)"
191141: "XE80T10HD50U0 (80 gal)"
191234: "XE80T12EH45U0 (80 gal)"
191334: "XE80T12EH45U0W (80 gal)"
191439: "PROPH50 T2 RH350 DC (50 gal)"
191540: "PROPH65 T2 RH350 DC (65 gal)"
191641: "PROPH80 T2 RH350 DC (80 gal)"
191739: "HPLD50 (50 gal)"
191840: "HPLD65 (65 gal)"

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191941: "HPLD80 (80 gal)"
192042: "XE50T10HD22U0 (50 gal)"
192139: "XE50T10HD50U1 (50 gal)"
192243: "XE65T10HD22U0 (65 gal)"
192340: "XE65T10HD50U1 (65 gal)"
192444: "XE80T10HD22U0 (80 gal)"
192541: "XE80T10HD50U1 (80 gal)"
192642: "PROPH50 T2 RH350 D15 (50 gal)"
192739: "PROPH50 T2 RH350 DCB (50 gal)"
192843: "PROPH65 T2 RH350 D15 (65 gal)"
192940: "PROPH65 T2 RH350 DCB (65 gal)"
193044: "PROPH80 T2 RH350 D15 (80 gal)"
193141: "PROPH80 T2 RH350 DCB (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Richmond"
default: 1
1: "- select Model -"
201059: "10E40-HP515 (40 gal)"
201160: "10E50-HP515 (50 gal)"
201261: "10E65-HP515 (65 gal)"
201362: "10E80-HP515 (80 gal)"
201459: "10E40-HP530 (40 gal)"
201560: "10E50-HP530 (50 gal)"
201661: "10E65-HP530 (65 gal)"
201762: "10E80-HP530 (80 gal)"
201859: "10E40-HP5S30 (40 gal)"
201960: "10E50-HP5S30 (50 gal)"
202061: "10E65-HP5S30 (65 gal)"
202162: "10E80-HP5S30 (80 gal)"
200139: "10E50-HP4D (50 gal)"
200240: "10E65-HP4D (65 gal)"
200341: "10E80-HP4D (80 gal)"
200421: "12E50-HP (50 gal)"
200534: "12E80-HP (80 gal)"
200621: "HB50RM (50 gal)"
200742: "10E50-HP4D15 (50 gal)"
200843: "10E65-HP4D15 (65 gal)"
200944: "10E80-HP4D15 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Ruud"
default: 1
1: "- select Model -"
211359: "PROUH40 T2 RU375-15 (40 gal)"
211460: "PROUH50 T2 RU375-15 (50 gal)"
211561: "PROUH65 T2 RU375-15 (65 gal)"
211662: "PROUH80 T2 RU375-15 (80 gal)"
211759: "PROUH40 T2 RU375-30 (40 gal)"
211860: "PROUH50 T2 RU375-30 (50 gal)"
211961: "PROUH65 T2 RU375-30 (65 gal)"
212062: "PROUH80 T2 RU375-30 (80 gal)"
212159: "PROUH40 T2 RU375-SO (40 gal)"
212260: "PROUH50 T2 RU375-SO (50 gal)"
212361: "PROUH65 T2 RU375-SO (65 gal)"
212462: "PROUH80 T2 RU375-SO (80 gal)"
212563: "PRO H40 T2 RU310BM (40 gal)"
212664: "PRO H50 T2 RU310BM (50 gal)"

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212765: "PRO H65 T2 RU310BM (65 gal)"
212866: "PRO H80 T2 RU310BM (80 gal)"
210121: "HB50RU (50 gal)"
210221: "PROUH50 T2 RU245 (50 gal)"
210339: "PROUH50 T2 RU350 D (50 gal)"
210440: "PROUH65 T2 RU350 D (65 gal)"
210534: "PROUH80 T2 RU245 (80 gal)"
210641: "PROUH80 T2 RU350 D (80 gal)"
210742: "PROUH50 T2 RU350 D15 (50 gal)"
210839: "PROUH50 T2 RU350 DCB (50 gal)"
210943: "PROUH65 T2 RU350 D15 (65 gal)"
211040: "PROUH65 T2 RU350 DCB (65 gal)"
211144: "PROUH80 T2 RU350 D15 (80 gal)"
211241: "PROUH80 T2 RU350 DCB (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Sanden"
default: 1
1: "- select Model -"
220116: "GS3-45HPA-US & SAN-43SSAQA (43 gal)"
220216: "GS3-45HPA-US & GAUS-160QTA (43 gal)"
220317: "GS3-45HPA-US & SAN-83SSAQA (83 gal)"
220417: "GS3-45HPA-US & GAUS-315EQTD (83 gal)"
220517: "GUS-45HPA-US & SAN-83SSAQA (83 gal)"
220617: "GUS-45HPA-US & GAUS-315EQTD (83 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "State"
default: 1
1: "- select Model -"
230112: "EP6 80 DHPT 102 (80 gal)"
230211: "EPX 60 DHPT (60 gal)"
230312: "EPX 80 DHPT (80 gal)"
230413: "HP6 50 DHPT 120 (50 gal)"
230514: "HP6 66 DHPT 120 (66 gal)"
230615: "HP6 80 DHPT 120 (80 gal)"
230713: "HPX 50 DHPT 120 (50 gal)"
230813: "HPX 50 DHPTNE 120 (50 gal)"
230914: "HPX 66 DHPT 120 (66 gal)"
231014: "HPX 66 DHPTNE 120 (66 gal)"
231115: "HPX 80 DHPT 120 (80 gal)"
231215: "HPX 80 DHPTNE 120 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Stiebel Eltron"
default: 1
1: "- select Model -"
240122: "Accelera 220 E (58 gal)"
240212: "Accelera 300/WHP 300 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "US Craftmaster"
default: 1
1: "- select Model -"
250112: "HPE2F80HD045VU 102 (80 gal)"
250211: "HPE2K60HD045V (60 gal)"
250312: "HPE2K80HD045V (80 gal)"
250413: "HPHE2F50HD045VU 120 (50 gal)"
250514: "HPHE2F66HD045VU 120 (66 gal)"
250615: "HPHE2F80HD045VU 120 (80 gal)"
250713: "HPHE2K50HD045VUN 120 (50 gal)"
250814: "HPHE2K66HD045VUN 120 (66 gal)"

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                250915: "HPHE2K80HD045VUN 120 (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "Whirlpool"
    default: 1
        1: "- select Model -"
        260111: "HPE2K60HD045V (60 gal)"
        260212: "HPE2K80HD045V (80 gal)"
        260313: "HPHE2K50HD045V 120 (50 gal)"
        260413: "HPHE2K50HD045VC 120 (50 gal)"
        260513: "HPHE2K50HD045VN 120 (50 gal)"
        260614: "HPHE2K66HD045V 120 (66 gal)"
        260714: "HPHE2K66HD045VC 120 (66 gal)"
        260815: "HPHE2K80HD045V 120 (80 gal)"
        260915: "HPHE2K80HD045VC 120 (80 gal)"
        261032: "HPSE2K50HD045V 100 (WP) (50 gal)"
        261132: "HPSE2K50HD045VC 100 (WP) (50 gal)"
        261212: "HPSE2K80HD045V (80 gal)"
        261312: "HPSE2K80HD045VC (80 gal)"
When: ResDHWSys:CentralHPWHLpTankBrand = "(generic)"
    default: 1
        1: "- select Model -"
        990138: "UEF 2 (50 gal)"
else:
    default: 0
        0: "n/a"
CentralHPWHLpTankCprsrCnt  CentralHPWHLoopTankCompressorCount      Integer      - - - - - (see next line)
                                Required for Central HPWH Systems with Loop Tank
CentralHPWHLpTankVol      CentralHPWHLoopTankVolume      Float      - - - Units: gal (see next line)
                                Required for Central HPWH Systems with 'Large Single Pass Primary' Loop Tank
CentralHPWHLpTankCnt      CentralHPWHLoopTankCount      Integer      - - - - - (see next line)
                                Required for Central HPWH Systems with 'Large Single Pass Primary' Loop Tank
CentralHPWHLpTankRVal     CentralHPWHTankRValue      Float      Units: °F-ft2-h/Btu Defaulted input
CentralHPWHLpTankLctn     CentralHPWHTankLocation     Enumeration  - - - - - (see next line)
                                Required for Central HPWH Systems with Loop Tank
                                default: 0
                                0: "- select tank location -"
                                1: "Outside"
                                2: "Unconditioned Zone"
                                3: "Conditioned Zone"
CentralHPWHLpTankAirSrc   CentralHPWHAirSource      Enumeration  - - - - - (see next line)
                                Required for Central HPWH Systems with Loop Tank
                                default: 0
                                0: "- select air source -"
                                1: "Outside"
                                2: "Unconditioned Zone"
                                3: "Conditioned Zone"

```



**ResWtrHtr ResidentialWaterHeater**

**ADDED**

```

AirSrcHtPumpTempSrc      AirSourceHeatPumpTemperatureSource      Enumeration - - - Optional input
                        default: 0
                        0: "- select air source -"
                        1: "Outside"
                        2: "Unconditioned Zone"
                        3: "Conditioned Zone"
    
```

**CHANGED**

```

HPWHModel                HeatPumpWaterHeaterModel                Enumeration - - - CondRequired input
When: ResWtrHtr:HPWHBrand = 0
                        default: 0
                        0: "n/a"
When: ResWtrHtr:HPWHBrand = "- select Brand -"
                        default: 0
                        0: "n/a"
When: ResWtrHtr:HPWHBrand = "A. O. Smith"
                        default: 1
                        1: "- select Model -"
                        110113: "FPTU 50 120 (50 gal)"
                        110214: "FPTU 66 120 (66 gal)"
                        110315: "FPTU 80 120 (80 gal)"
                        110412: "HHPT 80 102 (80 gal)"
                        110513: "HP10-50H45DV (50 gal)"
                        110615: "HP10-80H45DV (80 gal)"
                        110713: "HPTU 50 120 (50 gal)"
                        110813: "HPTU 50N 120 (50 gal)"
                        110914: "HPTU 66 120 (66 gal)"
                        111014: "HPTU 66N 120 (66 gal)"
                        111115: "HPTU 80 120 (80 gal)"
                        111215: "HPTU 80N 120 (80 gal)"
                        111311: "PHPT 60 (60 gal)"
                        111412: "PHPT 80 (80 gal)"
When: ResWtrHtr:HPWHBrand = "American"
                        default: 1
                        1: "- select Model -"
                        120111: "HPE10260H045DV (60 gal)"
                        120212: "HPE10280H045DV (80 gal)"
                        120312: "HPE6280H045DV 102 (80 gal)"
                        120413: "HPHE10250H045DV 120 (50 gal)"
                        120513: "HPHE10250H045DVN 120 (50 gal)"
                        120614: "HPHE10266H045DV 120 (66 gal)"
                        120714: "HPHE10266H045DVN 120 (66 gal)"
                        120815: "HPHE10280H045DV 120 (80 gal)"
                        120915: "HPHE10280H045DVN 120 (80 gal)"
                        121013: "HPHE6250H045DV (50 gal)"
                        121114: "HPHE6266H045DV 120 (66 gal)"
                        121215: "HPHE6280H045DV 120 (80 gal)"
                        121313: "HPHE650H045DV 120 (50 gal)"
When: ResWtrHtr:HPWHBrand = "Bradford White"
                        default: 1
    
```

```

1: "- select Model -"
130119: "RE2H50R10B-1NCWT (50 gal)"
130358: "RE2H65T10-1NCWT (65 gal)"
130223: "RE2H80R10B-1NCWT (80 gal)"
130419: "RE2H50S6-1NCWT (50 gal)"
130558: "RE2H65T6-1NCWT (65 gal)"
130623: "RE2H80T6-1NCWT (80 gal)"
When: ResWtrHtr:HPWHBrand = "EcoSense"
default: 1
1: "- select Model -"
140121: "HB50ES (50 gal)"
When: ResWtrHtr:HPWHBrand = "GE"
default: 1
1: "- select Model -"
150119: "BEH50DCEJSB (50 gal)"
150223: "BEH80DCEJSB (80 gal)"
150319: "GEH50DEEJSC (50 gal)"
150419: "GEH50DEEJXXX (50 gal)"
150519: "GEH50DFEJSR (50 gal)"
150619: "GEH50DHEKSC (50 gal)"
150723: "GEH80DEEJSC (80 gal)"
150823: "GEH80DFEJSR (80 gal)"
150923: "GEH80DHEKSC (80 gal)"
When: ResWtrHtr:HPWHBrand = "Kenmore"
default: 1
1: "- select Model -"
160111: "153.32116 (60 gal)"
160212: "153.32118 (80 gal)"
160313: "153.5925 (50 gal)"
160414: "153.5926 (66 gal)"
160515: "153.5928 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Lochinvar"
default: 1
1: "- select Model -"
170113: "HPA051KD 120 (50 gal)"
170213: "HPA052KD 120 (50 gal)"
170314: "HPA067KD 120 (66 gal)"
170414: "HPA068KD 120 (66 gal)"
170515: "HPA081KD 120 (80 gal)"
170615: "HPA082KD 120 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Reliance"
default: 1
1: "- select Model -"
180113: "10 50 DHPHT 120 (50 gal)"
180213: "10 50 DHPHTNE 120 (50 gal)"
180311: "10 60 DHPT (60 gal)"
180414: "10 66 DHPHT 120 (66 gal)"
180514: "10 66 DHPHTN 120 (66 gal)"
180615: "10 80 DHPHT 120 (80 gal)"
180715: "10 80 DHPHTNE 120 (80 gal)"
180812: "10 80 DHPT (80 gal)"
180913: "6 50 DHPHT 120 (50 gal)"
181014: "6 66 DHPHT 120 (66 gal)"
181115: "6 80 DHPHT 120 (80 gal)"

```

New Option

New Options

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181215: "6 80 DHPT 102 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Rheem"
default: 1
1: "- select Model -"
193259: "PROPH40 T2 RH375-15 (40 gal)"
193360: "PROPH50 T2 RH375-15 (50 gal)"
193461: "PROPH65 T2 RH375-15 (65 gal)"
193562: "PROPH80 T2 RH375-15 (80 gal)"
193659: "PROPH40 T2 RH375-30 (40 gal)"
193760: "PROPH50 T2 RH375-30 (50 gal)"
193861: "PROPH65 T2 RH375-30 (65 gal)"
193962: "PROPH80 T2 RH375-30 (80 gal)"
194059: "PROPH40 T2 RH375-SO (40 gal)"
194160: "PROPH50 T2 RH375-SO (50 gal)"
194261: "PROPH65 T2 RH375-SO (65 gal)"
194362: "PROPH80 T2 RH375-SO (80 gal)"
194459: "XE40T10H22U0 (40 gal)"
194560: "XE50T10H22U0 (50 gal)"
194661: "XE65T10H22U0 (65 gal)"
194762: "XE80T10H22U0 (80 gal)"
194859: "XE40T10H45U0 (40 gal)"
194960: "XE50T10H45U0 (50 gal)"
195061: "XE65T10H45U0 (65 gal)"
195162: "XE80T10H45U0 (80 gal)"
195259: "XE40T10HS45U0 (40 gal)"
195360: "XE50T10HS45U0 (50 gal)"
195461: "XE65T10HS45U0 (65 gal)"
195562: "XE80T10HS45U0 (80 gal)"
195663: "PRO H40 T2 RH310BM (40 gal)"
195764: "PRO H50 T2 RH310BM (50 gal)"
195865: "PRO H65 T2 RH310BM (65 gal)"
195966: "PRO H80 T2 RH310BM (80 gal)"
190121: "HB50RH (50 gal)"
190221: "PROPH50 T2 RH245 (50 gal)"
190339: "PROPH50 T2 RH350 D (50 gal)"
190440: "PROPH65 T2 RH350 D (65 gal)"
190534: "PROPH80 T2 RH245 (80 gal)"
190641: "PROPH80 T2 RH350 D (80 gal)"
190739: "XE50T10HD50U0 (50 gal)"
190821: "XE50T12EH45U0 (50 gal)"
190921: "XE50T12EH45U0W (50 gal)"
191040: "XE65T10HD50U0 (65 gal)"
191141: "XE80T10HD50U0 (80 gal)"
191234: "XE80T12EH45U0 (80 gal)"
191334: "XE80T12EH45U0W (80 gal)"
191439: "PROPH50 T2 RH350 DC (50 gal)"
191540: "PROPH65 T2 RH350 DC (65 gal)"
191641: "PROPH80 T2 RH350 DC (80 gal)"
191739: "HPLD50 (50 gal)"
191840: "HPLD65 (65 gal)"
191941: "HPLD80 (80 gal)"
192042: "XE50T10HD22U0 (50 gal)"
192139: "XE50T10HD50U1 (50 gal)"
192243: "XE65T10HD22U0 (65 gal)"

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New Options

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192340: "XE65T10HD50U1 (65 gal)"
192444: "XE80T10HD22U0 (80 gal)"
192541: "XE80T10HD50U1 (80 gal)"
192642: "PROPH50 T2 RH350 D15 (50 gal)"
192739: "PROPH50 T2 RH350 DCB (50 gal)"
192843: "PROPH65 T2 RH350 D15 (65 gal)"
192940: "PROPH65 T2 RH350 DCB (65 gal)"
193044: "PROPH80 T2 RH350 D15 (80 gal)"
193141: "PROPH80 T2 RH350 DCB (80 gal)"
When: ResWtrHtr:HPWHBrand = "Richmond"
default: 1
1: "- select Model -"
201059: "10E40-HP515 (40 gal)"
201160: "10E50-HP515 (50 gal)"
201261: "10E65-HP515 (65 gal)"
201362: "10E80-HP515 (80 gal)"
201459: "10E40-HP530 (40 gal)"
201560: "10E50-HP530 (50 gal)"
201661: "10E65-HP530 (65 gal)"
201762: "10E80-HP530 (80 gal)"
201859: "10E40-HP5S30 (40 gal)"
201960: "10E50-HP5S30 (50 gal)"
202061: "10E65-HP5S30 (65 gal)"
202162: "10E80-HP5S30 (80 gal)"
200139: "10E50-HP4D (50 gal)"
200240: "10E65-HP4D (65 gal)"
200341: "10E80-HP4D (80 gal)"
200421: "12E50-HP (50 gal)"
200534: "12E80-HP (80 gal)"
200621: "HB50RM (50 gal)"
200742: "10E50-HP4D15 (50 gal)"
200843: "10E65-HP4D15 (65 gal)"
200944: "10E80-HP4D15 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Ruud"
default: 1
1: "- select Model -"
211359: "PROUH40 T2 RU375-15 (40 gal)"
211460: "PROUH50 T2 RU375-15 (50 gal)"
211561: "PROUH65 T2 RU375-15 (65 gal)"
211662: "PROUH80 T2 RU375-15 (80 gal)"
211759: "PROUH40 T2 RU375-30 (40 gal)"
211860: "PROUH50 T2 RU375-30 (50 gal)"
211961: "PROUH65 T2 RU375-30 (65 gal)"
212062: "PROUH80 T2 RU375-30 (80 gal)"
212159: "PROUH40 T2 RU375-SO (40 gal)"
212260: "PROUH50 T2 RU375-SO (50 gal)"
212361: "PROUH65 T2 RU375-SO (65 gal)"
212462: "PROUH80 T2 RU375-SO (80 gal)"
212563: "PRO H40 T2 RU310BM (40 gal)"
212664: "PRO H50 T2 RU310BM (50 gal)"
212765: "PRO H65 T2 RU310BM (65 gal)"
212866: "PRO H80 T2 RU310BM (80 gal)"
210121: "HB50RU (50 gal)"
210221: "PROUH50 T2 RU245 (50 gal)"

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New Options

New Options

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210339: "PROUH50 T2 RU350 D (50 gal)"
210440: "PROUH65 T2 RU350 D (65 gal)"
210534: "PROUH80 T2 RU245 (80 gal)"
210641: "PROUH80 T2 RU350 D (80 gal)"
210742: "PROUH50 T2 RU350 D15 (50 gal)"
210839: "PROUH50 T2 RU350 DCB (50 gal)"
210943: "PROUH65 T2 RU350 D15 (65 gal)"
211040: "PROUH65 T2 RU350 DCB (65 gal)"
211144: "PROUH80 T2 RU350 D15 (80 gal)"
211241: "PROUH80 T2 RU350 DCB (80 gal)"
When: ResWtrHtr:HPWHBrand = "Sanden"
default: 1
1: "- select Model -"
220116: "GS3-45HPA-US & SAN-43SSAQA (43 gal)"
220216: "GS3-45HPA-US & GAUS-160QTA (43 gal)"
220317: "GS3-45HPA-US & SAN-83SSAQA (83 gal)"
220417: "GS3-45HPA-US & GAUS-315EQTD (83 gal)"
220517: "GUS-45HPA-US & SAN-83SSAQA (83 gal)"
220617: "GUS-45HPA-US & GAUS-315EQTD (83 gal)"
When: ResWtrHtr:HPWHBrand = "State"
default: 1
1: "- select Model -"
230112: "EP6 80 DHPT 102 (80 gal)"
230211: "EPX 60 DHPT (60 gal)"
230312: "EPX 80 DHPT (80 gal)"
230413: "HP6 50 DHPT 120 (50 gal)"
230514: "HP6 66 DHPT 120 (66 gal)"
230615: "HP6 80 DHPT 120 (80 gal)"
230713: "HPX 50 DHPT 120 (50 gal)"
230813: "HPX 50 DHPTNE 120 (50 gal)"
230914: "HPX 66 DHPT 120 (66 gal)"
231014: "HPX 66 DHPTNE 120 (66 gal)"
231115: "HPX 80 DHPT 120 (80 gal)"
231215: "HPX 80 DHPTNE 120 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Stiebel Eltron"
default: 1
1: "- select Model -"
240122: "Accelerera 220 E (58 gal)"
240212: "Accelerera 300/WHP 300 (80 gal)"
When: ResWtrHtr:HPWHBrand = "US Craftmaster"
default: 1
1: "- select Model -"
250112: "HPE2F80HD045VU 102 (80 gal)"
250211: "HPE2K60HD045V (60 gal)"
250312: "HPE2K80HD045V (80 gal)"
250413: "HPHE2F50HD045VU 120 (50 gal)"
250514: "HPHE2F66HD045VU 120 (66 gal)"
250615: "HPHE2F80HD045VU 120 (80 gal)"
250713: "HPHE2K50HD045VUN 120 (50 gal)"
250814: "HPHE2K66HD045VUN 120 (66 gal)"
250915: "HPHE2K80HD045VUN 120 (80 gal)"
When: ResWtrHtr:HPWHBrand = "Whirlpool"
default: 1
1: "- select Model -"

```

```
260111: "HPE2K60HD045V (60 gal)"
260212: "HPE2K80HD045V (80 gal)"
260313: "HPHE2K50HD045V 120 (50 gal)"
260413: "HPHE2K50HD045VC 120 (50 gal)"
260513: "HPHE2K50HD045VN 120 (50 gal)"
260614: "HPHE2K66HD045V 120 (66 gal)"
260714: "HPHE2K66HD045VC 120 (66 gal)"
260815: "HPHE2K80HD045V 120 (80 gal)"
260915: "HPHE2K80HD045VC 120 (80 gal)"
261032: "HPSE2K50HD045V 100 (WP) (50 gal)"
261132: "HPSE2K50HD045VC 100 (WP) (50 gal)"
261212: "HPSE2K80HD045V (80 gal)"
261312: "HPSE2K80HD045VC (80 gal)"
When: ResWtrHtr:HPWHBrand = "(generic)"
      default: 1
           1: "- select Model -"
           990138: "UEF 2 (50 gal)"
else:
      default: 0
           0: "n/a"
```