Will County, IL
Building Automation System
Device & Object Naming Standard

WILL COUNTY, IL

PROJECT

Will County, IL

Building Automation System
Device & Object Naming Standard

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CONTENTS

INTRODUCTION

This Building Automation System (BAS) Device & Object Naming Standard is intended to standardize the names of BAS, Lighting, Metering, and other devices and control objects. Character limitations vary between BAS products.

The provided diagrams are intended to aid the BAS technician in finding the appropriate names and tags for each object. The diagrams show generic HVAC, lighting, metering, and other equipment containing control points and objects, some of which may or may not be present in a particular application.

All device and object naming shall be submitted to Will County for review and approval prior to implementation – any system objects implemented prior to approval shall be corrected by the contractor at no additional cost to Will County.

Any control object, tag or point that is not represented in this standards document must be submitted via RFI. A response will be generated identifying the name that should be used for the application. If the supplied name is not currently represented in the standard document, it may be added.

It is understood that the object names for some products cannot be modified (i.e. "canned application" or "pre-configured" controllers.) These devices/object names shall be submitted with an indication that the controller cannot be customized.

Object Units Descriptions

Object units are suggested in parentheses, such as: (°F)

For analog points, the engineering units are provided. Engineering units are standardized, and The Owner should be consulted where the standard units are inappropriate for the measurement or application.

Generally, analog outputs are expressed in percent (%, or pct). For valves and dampers, %open/%closed is used. 0% open would indicate that the control object is closed. 100% open would indicate that the control object is open. For mixing dampers, diverting valves, face/bypass dampers, etc., see unit indications where objects are found in diagrams in this document.

Binary outputs are generally expressed with (Off/On). Other binary units are provided depending on the application. The order of the state text labels is determined by the default position of the device. For example, a damper that is normally closed would use the units (Closed/Open), whereas a damper that is normally open would use (Open/Closed).

PROCESS

This Object Naming Standard shall be implemented according to the following process:

1) Engineer automation system to understand what objects are required.
2) Using the Device & Object Naming Standard document (this document), identify and document the standardized names for the control objects and devices.
3) Submit the proposed names to Will County.
4) Receive comments back, correct errors, and resubmit. Repeat process until all issues are resolved.
5) Object naming is approved by Will County.
6) Implement names into the BAS database and programming.

Failure to follow and complete these steps in order may result in substantial re-work by and at the expense of the BAS contractor.

SCOPE

This Object Naming Standard covers all BACnet-discoverable devices and objects. These include:

- AI, AO, AV, BI, BO, BV, MO, & MV point types
- Calendar objects (Cldr)
- Schedule objects (Sched)
- Trend Log objects (Td)
- Event Enrollment objects (Evt)
- Notification Class objects (Not)
- File objects (File)
- Command objects (Cmd)
- Devices

This Standard also covers all points, registers, etc. (objects) that are mapped using a driver, integration device, or system, and any additional objects created in the integration device or system. For example, registers mapped from a 3rd-party Modbus device to a BAS controller or integration device using a driver must be named using this Standard.

UNDERSTANDING THE STANDARD

In order to properly implement this Object Naming Standard, it is important to understand the goal it is intended to accomplish, the design philosophy of the naming system, and the methodology used to meet those goals.

GOAL:
Ensure that the way BAS devices and objects are named enables any user of the system or system data to instantly identify the device or object and understand the function of system objects, whether they are sensors, actuators, schedules, trend logs, etc. A user can be a human operator, but it can also be a computer that stores or processes information from the system.

PHILOSOPHY:
To allow a human to instantly identify a device or object simply by reading the name, at minimum the name must indicate which building it is in, what equipment or system it is associated with, what type of object it is, and what it does. These parts of the name must be human-readable using standardized abbreviations. These standardizations allow an operator or analyst to read, search, sort, group, and filter objects with ease.

A computer interpreter of a name would be able to use the building and equipment/system indications to group objects. To make the function of an object clear to a machine, the object type/function portion of the name is composed of standardized "camel-cased" abbreviations that a computer can break apart and use to automatically apply metadata tags. These tags allow applications, such as analytics engines or CMMS, to interpret information directly from the BAS or from a trend archive and create actionable responses and outputs.

METHODOLOGY:
To create names that are both human-readable and machine-readable, the structure and abbreviations of the names are standardized. Each name has three parts separated by underscores: Building Identifier, Equipment Designator, and Object Name. (See the "ANATOMY" page for technical details on structure standardization.) Building identifiers shall be specified by Will County. The Equipment Designator is a free-form field; the mechanical drawings equipment schedule can be used as a guide. The Object Name is a camel-cased, standardized name for the object.

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INTRO

Object Name Anatomy

Building_Equipment_Object

Underscore Delimiter Underscore Delimiter

BBBB_EEEEEEEEE_PPPPPPPPPPPPPPP

IMPORTANT
NEVER EXCEED 30 CHARCTERS

See ABRV page for Standard Point Name abbreviations.

Building Identifier
Max 4 characters, always designated by Will County

Equipment/ Location Designation
No formal standard – best practice is to use the equipment designations used in the building's mechanical drawings

Up to 10 characters as-needed

Example

BLDG_RTU01_SATmpSp

Building Abbreviation

Rooftop Unit 1

Supply Air Temperature Set Point

Standard Object Name

Up to 16 characters as-needed

Number of characters available depends on BAS product limitations. At the beginning of a project, the BAS limitation should be considered to ensure that names can be accommodated within the characters available. Some adjustments may be required.

Always use standardized names found in this document.

Device Name Anatomy

Building_Equipment

Examples

BLDG_RTU01 — Building Abbreviation; Rooftop Unit 1

BLDG_AHU01_VAV01 — Building Abbreviation; VAV 1

TYPICAL CONVENTIONS

SUFFIXES:

Ena
Usually applied to BV objects. An "Ena" point indicates that conditions have been met to allow a device to be commanded, but is not the actual command.
Examples:
CHWSysEna, HWSysEna
BlrEna, EconEna

Cmd
Usually applied to BO and AO objects, and sometimes BV and AV objects also. A "Cmd" point commands something – starts a motor, modulates a valve, etc.
Examples:
SFCmd, ChlrCmd
MADmprCmd, BlrCmd
CCVlvCmd, CTDivVlvCmd

Sts
Usually applied to BI objects. Corresponds to the "Cmd" point. This is the actual status of the thing. Examples:
SFSts, ChlrSts
SFVFDSts, CHWPmpSts

Pos
Applied to AI objects, "Pos" is feedback from a device such as a valve or a VFD. Corresponds to "Cmd" in the case of a valve or damper, or "Spd" in the case of a VFD. Examples:
CCVlvPos
MADmprPos, SashPos

Sp
Applied to AV objects, "Sp" is shorthand for Setpoint. Used to indicate the setpoint that corresponds to a control variable.
Examples:
SATmpSp, CHWSTmpSp
SAStPrsSp, HWSFlwRatSp
CHWSysOATmpEnaSp

Alm
Usually applied to BI or BV objects. "Alm" should only be used on objects that have a corresponding event notification. Examples:
BlrAlm, MATmpAlm
LowTempAlm, DAStPrsAlm
FireAlm, ServiceAlm

Td
Applied to the end of an object name to indicate that it is the trend object associated with the control point object.
Examples:
SATmpTd, SFStsTd
CCVlvCmdTd, MATmpSpTd

Sched
Applied to schedule objects.
Examples:
AHU01_Sched, IceSys_Sched
CHW_Sched, EF01_Sched

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ANATOMY

Standard Point Name Abbreviations (Page 1)

A	
AcDn	Access Denied
AcGr	Access Granted
Act	Active
Adj	Adjustable, Adjust
ADR	Automatic Demand Response
AFMS	Air Flow Measuring Station
AHU	Air Handling Unit
Air	AIR
AirCond	Air Conditioning
AirDry	Air Dryer
Alm	Alarm (Off/On)
Alt	Alternate
Amp	Amperage/Current
AppPwr	Apparent Power (kVA)
Aprch	Approach
Asp	Aspirating
ATS	Automatic Transfer Switch
Auth	Authority
Auto	Automatic / Automatic Operation
Aux	Auxiliary
Avg	Average
B	
Base	Baseline
Batt	Battery
Bb	Baseboard
Bldg	Building
Blr	Boiler
Box	Box
Brnch	Branch
Bstr	Booster
Btn	Button
BTU	British Thermal Unit
Buzz	Buzzer
Byp	Bypass
C	
Cap	Capacity
CC	Cooling Coil
CD	Cold Deck
Cd	Condenser
CdPan	Condenser Pan
Cfctr	C-factor
CFM	Cubic Feet Per Minute
Chg	Change/Changeover/Switchover
Chlr	Chiller
CHW	Chilled Water
CHWP	Chilled Water Pump
CHWR	Chilled Water Return
CHWS	Chilled Water Supply
Cir	Circulating/Circulation
Ckt	Circuit
Clg	Cooling
Cls	Close
Clsd	Closed
Cmbs	Combustion
Cmd	Command (Off/On)
Cmn	Common
Cmpr	Compressor
Cnd	Condensate
CO2	Carbon Dioxide
Coeff	Coefficient
Comb	Combiner
Cond	Conditioning
Cont	Contactor
Conv	Convector
Cplry	Capillary
CRAC	Computer Room Air Conditioner

C (continued)	
CT	Cooling Tower
CtRatio	Current Transformer Ratio
Ctrl	Control
Cur	Current
CDW	Condenser Water
CDWP	Condenser Water Pump
CDWR	Condenser Water Return
CDWS	Condenser Water Supply
D	
DA	Unit Discharge Air
Day	Day
Db	Deadband
DC	Direct Current
DCV	Demand-Controlled Ventilation
Dec	Decrease
Deck	Deck
Det	Detector
Dew	Dewpoint (°F)
DHW	Domestic Hot Water
Dif	Differential
DirAct	Direct Acting
DirNorm	Direct Normal
Dis	Discharge
Div	Diverting
Dly	Delay
Dmd	Demand
Dmp	Damper
Door	Door
DR	Demand Response
DryB	Dry Bulb
Duct	Duct
DW	Domestic Water
Dwg	Drawing
DX	Direct Expansion
E	
East	East
Econ	Economizer
EDH	Electric Duct Heater
Eff	Effective
Elec	Electric
Enrg	Energy (kWh)
Elmt	Element
Emer	Emergency
Eject	Ejection
Ena	Enable
EVID	Electric Vehicle Identification
Ent	Enter/Entering
Enth	Enthalpy
ESS	Emergency Stop Switch
Ev	Evaporator
Exh	Exhaust
EA	Exhaust Air
EF	Exhaust Fan
F	
Fbyp	Face/Bypass
Fail	Failure
Fan	Fan
Fbk	Feedback
Freq	Frequency
Fclg	Free Cooling
FCU	Fan Coil Unit
FF	Flame Fail
Flt	Filter
Flg	Flange
Flr	Floor
Fault	Fault

F (continued)	
Flw	Flow
FPM	Feet Per Minute
Frst	Frost
Fast	Fast Fan Speed
G	
Gal	Gallon
Gas	Butane, Natural Gas, etc.
Gen	Generator
GH	Gas Heater
Glb	Global
Gly	Ethylene Glycol
GlyR	Glycol Return
GlyS	Glycol Supply
GPM	Gallons Per Minute
Grd	Ground
Grn	Green
H	
Hand	Manual
HC	Heating Coil
HD	Hot Deck
Hi	High
High	High Fan Speed
HL	High Limit
HOA	Hand/Off/Auto
Hor	Horizontal
HP	Horse Power
HPrs	High Pressure
Hr	Hour
HTCO	High Temp Cut Out
Htg	Heating
Htr	Heater
Hum	Humidifier
HW	Hot Water
HWP	Hot Water Pump
HWR	Hot Water Return
HWS	Hot Water Supply
HX	Heat Exchanger
Hz	Hertz
I	
IAQ	Indoor Air Quality
IEQ	Indoor Environmental Quality
IGV	Inlet Guide Vanes
In	Input
Inc	Increase
Ind	Indicator
Inf	Infectious
Inlet	Fan Air Inlet
Inv	Inverter
INWC	Inches of Water Column
Irg	Irrigation
Irrad	Irradiance
Iso	Isolation
K	
Kfctr	K-factor
KVA	Kilo-Volt-Amperes
KVAR	Kilo-Volt-Amperes Reactive
Kw	Kilowatt
KwD	Kilowatt Demand
KwH	Kilowatt Hours
L	
Lb	Pound
Lck	Lockout
Ldlg	Lead/Lag
Lkd	Locked
LL	Low Limit
Lmt	Limit

L (continued)	
Lnk	Link
Lo	Low
Loop	Loop
Low	Low Fan Speed
LPrs	Low Pressure
LPrsStm	Low Pressure Steam
LTCO	Low temp Cut out
LtL	Line-to-Line
LtN	Line-to-Neutral
Lvg	Leaving
Lvl	Level
Lvr	Louver
M	
MA	Mixed Air
Man	Manual
Max	Maximum
MCDN	Morning Cool-Down
Med	Medium Fan Speed
Mf	Manifold
Mfr	Manufacturer
Min	Minimum
Misc	Miscellaneous
Mix	Mixing
Mod	Modulation, Modulating
Mode	Operating Mode
MPrs	Medium-Pressure
Mtr	Meter
MU	Make-Up
Multi	Multiple/Multi
MWUP	Morning Warm-Up
N	
North	North
Neg	Negative
Neut	Neutral
Nght	Night
NormClsd	Normally Closed
NormOpn	Normally Open
NR	Network Riser
Ntfcn	Notification
O	
OA	Outside Air
OAF	Outside Air Fan
Occ	Occupied
Off	Off
Offst	Offset
Oil	Oil
OL	OverLoad
On	On
Open	Open
Oper	Operation, Operator
OT	OverTime
OTL	Held Open Too Long
Out	Ouput
Ovrd	Override
P	
Par	Parallel
PC	Pre-Cool
Pct	Percent
PDU	Power Distribution Unit
Peak	Peak
Perf	Performance
PH	Preheat
PhsRev	Phase Reversal
PID	Proportional/Integral/Derivative
PIU	Power Induction Unit
Plnt	Plant

P (continued)	
Pls	Pulse, Pulses
Plt	Pilot
Pmp	Pump
Pneu	Pneumatic
Pnl	Panel
POA	Plane of Array
Pos	Position (%)
PPM	Parts Per Million
Precip	Precipitation
Prev	Previous
Pri	Primary
Prop	Proportional
Prot	Protective
Prs	Pressure (psi, inWC)
PtRatio	Potential Transformer Ratio
PVTS	Photovoltaic System
Pwr	Power (kW)
PwrFct	Power Factor
R	
RA	Return Air
Rad	Radiant
Rat	Rate
Rcl	Recool
RctPwr	Reactive Power (kVAR)
Rcv	Recovery, Recovered
Rec	Recovery
Rej	Rejection, Rejected
RelHum	Relative Humidity (%)
RelPwr	Real Power (kW)
Rem	Remaining
Req	Required
Rev	Reversing
RevAct	Reverse Acting
RF	Return Fan
Rfg	Refrigerant
RH	Re-Heat
Rlf	Relief
Rly	Relay
Rm	Room
Rmt	Remote
Rng	Range
RnTm	Run Time (hours)
RO	Relay Output
RPM	Revolutions Per Minute
Rptr	Repeater
Rst	Reset
RstH	High End of Reset Scale
RstL	Low End of Reset Scale
Rtn	Return
Rto	Ratio
RTU	Roof Top Unit
Run	Run
S	
South	South
SA	Supply Air
Sched	Schedule
Sct	Suction
Sec	Secondary
Sel	Select/Selection
Seq	Sequence
Ser	Series, Service
Serial	Serial Number
SF	Supply Fan
Slow	Slow Fan Speed
Smk	Smoke
Snsr	Sensor

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ABRV-1

Standard Point Name Abbreviations (Page 2)

S (continued)	
Snw	Snow, Snow-melt
Sp	Setpoint
Spd	Speed Control Command (%)
SqFt	Square Feet
SS	Start-Stop
Stby	Standby
Std	Standard
Stg	Stage
Stm	Steam
Stop	Stop
Str	Strainer
Strt	Start
Strts	Starts
Sts	Status (Off/On)
Sump	Sump
Sumr	Summer
Sup	Supply
Sw	Switch
Sys	System
T	
Td	Trend (History)
THD	Total Harmonic Distortion
Tm	Time
Tmp	Temperature (°F)
Tmpr	Tamper
Tmr	Timer (s)
Tnk	Tank
TOD	Time Of Day
Tons	Tons of Refrigeration
Tot	Total
Trk	Tracking
TWP	Tempered Water Pump
TWR	Tempered Water Return
TWS	Tempered Water Supply
U	
UL	Underwriters Laboratories
Ulkd	Unlocked
Unbal	Unbalanced
Unit	Unit
UnitHtr	Unit Heater
UnitVent	Unit Ventilator
Uoc	Unoccupied
UPS	Uninterruptible Power Supply
Util	Utility
UTC	Universal Time Clock
Usr	Zone Occupant (User)
V	
VA	Volt Amperes/ Variable Air
VAC	Volts Alternating Current
Val	Value
VAV	Variable Air Volume
VDC	Volts Direct Current
Vel	Velocity
Vib	Vibration
Vent	Ventilation
VFD	Variable Frequency Drive
Vlv	Valve
Vol	Volume
Vlt	Voltage
VOC	Volatile Organic Compounds
W	
West	West
Warn	Warning
Wtr	Water
WTS	Water Treatment System
WetB	Wet Bulb

W (continued)	
Wntr	Winter
Wh	Wheel
WmCl	Warm/Cool
Wrls	Wireless
Z	
Zn	Zone

Standard Engineering Units & Unit Abbreviations

Temperature:	Degrees Fahrenheit (°F)
Water Pressure:	Pounds per Square Inch (psiG)
Water Pressure Differential:	Pounds per Square Inch Differential (psiD)
Air Pressure:	Inches of Water Column (inWC, "WC)
Air Pressure Differential:	Inches of Water Column Differential (inWCD, "WCD)
Relative Humidity:	Percent (%)
Modulating Command:	Percent (%open/ %closed)
Time:	Seconds (s)
	Minutes (m)
	Hours (h)
Water Volume:	Gallons (Gal)
Natural Gas Volume:	Cubic Feet (CF)
	Hundred Cubit Feet (CCF)
	Thousand Cubit Feet (MCF)
Thermal Energy:	British Thermal Unit (BTU)
	Thousand BTU (MBTU)
	Million BTU (MMBTU)
	Tons of Cooling (Tons)
Electrical Power (real):	Watt (W)
	Kilowatt (kW)
	Megawatt (MW)
	Gigawatt (GW)
Electrical Energy (real):	Watt-hour (Wh)
	Kilowatt-hour (kWh)
	MW-hour (MWh)
Electrical Power (apparent):	Volt-amperes (VA)
	Kilovolt-amperes (kVA)
Electrical Energy (apparent):	Volt-ampere-hour (VAh)
	Kilovolt-ampere-hour (kVAh)
Electrical Voltage:	Direct Current Volts (VDC)
	Alternating Current Volts (VAC)
	Millivolts (mV)
Electrical Current:	Amperes (A)
	Milliamps (mA)
Carbon Dioxide (CO2):	Parts per Million (ppm)
Carbon Monoxide (CO):	Parts per Million (ppm)
Volatile Organic Compound (VOC):	Parts per Million (ppm)
Air Flow Volume:	Cubic Feet per Minute (cfm)
Air Flow Velocity:	Feet per minute (fpm)

Min/Max/Hi/Lo/HL/LL Usage

Min = Lowest value in a set
Max = Highest value in a set

Avg = Average or mean of a set

Hi = Value is considered too high
Lo = Value is considered too low

HL = Highest allowable value – high limit
LL = Lowest allowable value – low limit

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Boiler	Boiler
Condenser / Chiller / Evaporator	Water-Cooled Chiller
	Cooling Tower
Chiller	Air-Cooled Chiller
Tank	Storage Tank
	Fan or Pump
	Ductwork

HX	Air-to-Air Heat Exchanger
	Coil
VFD	Variable Frequency Drive
	DX Compressor
C / C	Cooling Coil
H / C	Heating Coil
D / X	DX Coil
G / H	Gas Duct Heater
RH / C	Reheat Coil

PH / C	Pre-Heating Coil
PC / C	Pre-Cooling Coil
H/C / C	2-Pipe Heating/ Cooling Coil
H / X	Heat Exchanger Coil
C / D	Condenser Coil
AFMS	Air Flow Measuring Station
	Filter
	Control Damper
	Face/Bypass Damper

	Electric Duct Heater
	Terminal Unit Damper
	Lab Fume Hood
	Water-to-Water Heat Exchanger
	Electric Vehicle
Z / Y / K	Pulse Output
OUTPUT / INPUT	Open Collector Output
	Electric Meter
	Gas Meter
	Water Meter

BTU	Thermal Energy Meter
	Wireless
	Electric Meter
	Electric Meter
	Fuse
	Reversing Valve
	3-Way Valve
	2-Way Valve
	Damper Actuator
	Solenoid Valve
	Direct-Expansion Valve
	Strainer
T	Air Temperature Duct Sensor
P	Static Air Pressure Duct Sensor
RH	Relative Humidity Duct Sensor
IAQ	Air Quality Duct Sensor

T	Averaging Duct Temperature Sensor
SW	Averaging Duct Temperature Switch
SMK	Duct Smoke Detector
T	Well Temperature Sensor
P	Hydronic Pressure Sensor
P	Hydronic Pressure Differential Sensor
F	Hydronic Flow Sensor
SW	Air Pressure Differential Switch
SW	Air Pressure Differential Switch
T	OSA Temperature Sensor
RH	OSA Relative Humidity Sensor
IAQ	OSA Air Quality Sensor
	Pyranometer

	Weather Station
T	Space Temperature Sensor
RH	Space Relative Humidity Sensor
IAQ	Space Air Quality Sensor
	Space Occupancy Sensor
	Lighting Load
	Lighting Level
	Wall
P	Air Pressure Differential Sensor
	Calendar
	Schedule
	Refrigerant
	Delta
	Compressor

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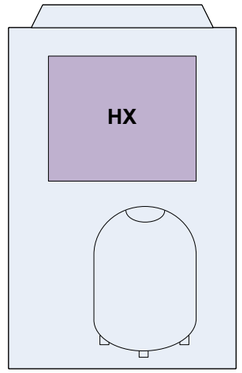
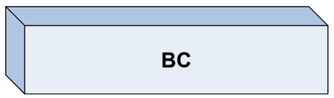
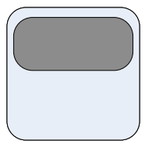
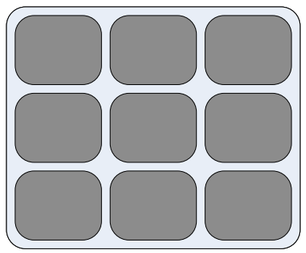
DRAWN BY: McKinstry

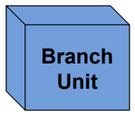
REV. DATE: **4/22/26**

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LEGEND-1

	Variable Refrigerant Flow (VRF) Outdoor Unit
	Variable Refrigerant Flow (VRF) Indoor Unit
	Variable Refrigerant Flow (VRF) Branch Controller
	Variable Refrigerant Flow (VRF) Wireless Sensor
	Variable Refrigerant Flow (VRF) Wired Sensor
	Variable Refrigerant Flow (VRF) Central Remote Controller

	VRF Separation (Y) Tube
	VRF Refrigerant Branch Unit

WILL COUNTY, IL

PROJECT

Will County, IL

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STATUS: Rev1

DRAWN BY: McKinstry

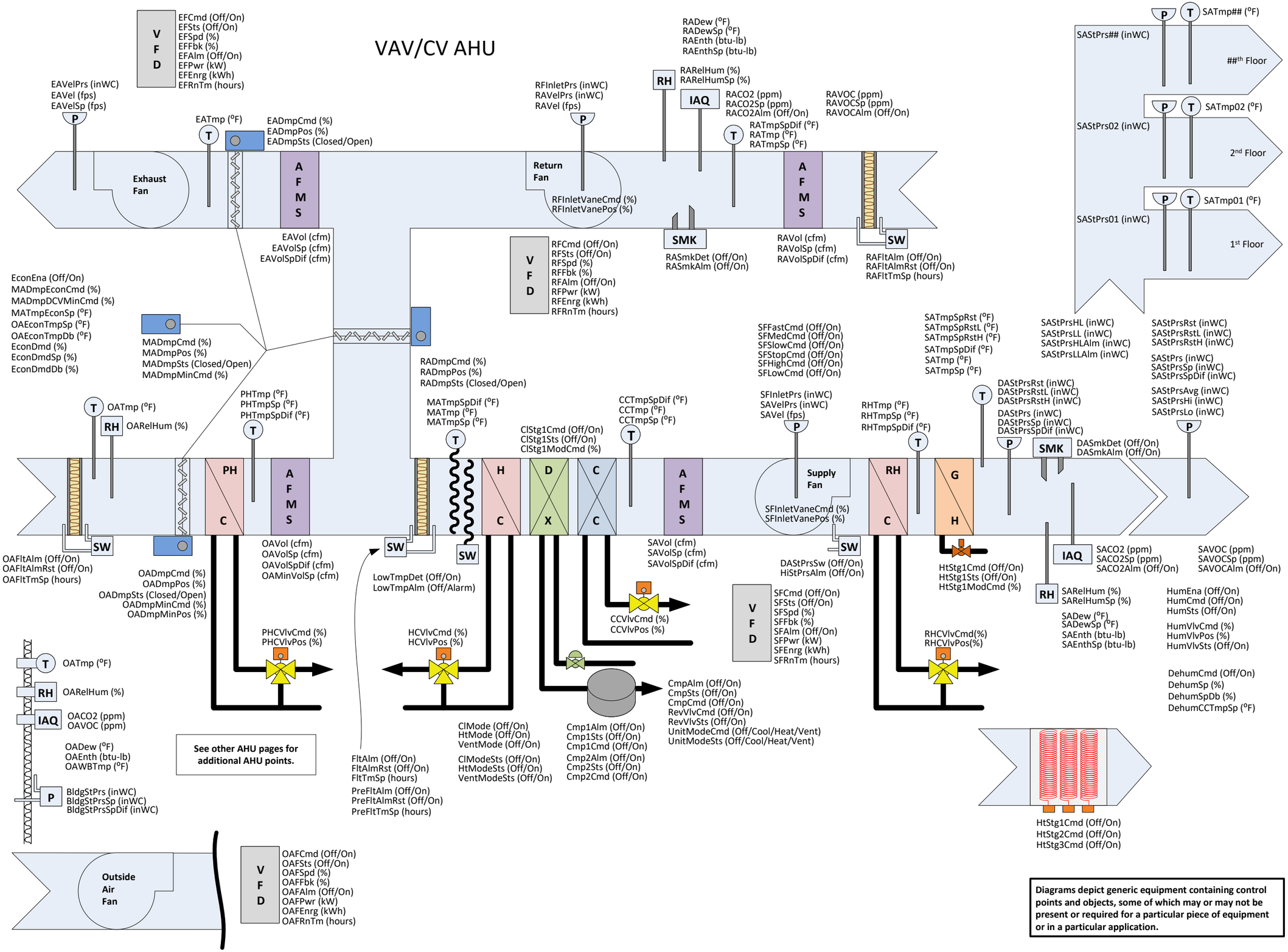
REV. DATE: **4/22/26**

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LEGEND-2

VAV/CV AHU



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STATUS: Rev1

DRAWN BY: McKinstry

REV. DATE: **4/22/26**

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AHUVAV

AHU Control Parameters

Equipment Enable

SysEna (Off/On)
Ena (Off/On)

Equipment Schedule

SchedCmd (Off/On)
SchedSts (Off/On)
SchedEna (Off/On)

Occupied Mode

OccCmd (Occ/Uoc)
OccSts (Occ/Uoc)
EffOcc (Occ/Uoc)

Override Mode

OvrdCmd (Off/Ovrd)
OvrdSts (Off/Ovrd)
ManOvrdCmd (Off/Ovrd)
ManOvrdSts (Off/Ovrd)
OvrdTmSp (sec, min, hours)
OvrdTmr (sec, min, hours)
OvrdCnt (count)

Overtime Hours

OTOccCmd (Occ/Uoc)
OTOccSts (Occ/Uoc)
OTOccTm (hours)

Misc

StartDelay (sec)
AuxContact (Off/On)
RemoteSp (use applicable units)

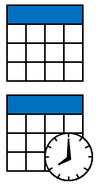
Equipment Runtime

Ideally equipment runtime objects should use hours for the engineering units and should not refer to the units in the name. However, where multiple objects are used to express runtime for a single piece of equipment with different time units, the following names should be used (SFRnTm is used as an example):

SFRnTm (hours)
SFRnTmSec (seconds)
SFRnTmHr (hours)
SFRnTmDay (days)

Equipment Schedule

SchedCmd (Off/On)
SchedSts (Off/On)
SchedEna (Off/On)



Cldr

Sched

Cooling/Heating/Ventilating

ClgEna (Off/On)
ClgEnaSp (°F)
ClgDmd (Off/On)

HtgEna (Off/On)
HtgEnaSp (°F)
HtgDmd (Off/On)

VentEna (Off/On)

Lockout Points

ClgLckCmd (Off/On)
ClgLckSts (Off/On)
ClgLckTmpSp (°F)
ClgLckTmpDb (°F)

HtgLckCmd (Off/On)
HtgLckSts (Off/On)
HtgLckTmpSp (°F)
HtgLckTmpDb (°F)

StmLck (Off/On)
RHtLck (Off/On)
PHtLck (Off/On)

Warm-Up/Cool-Down Modes

CoolDnMode (Off/On)
CoolDnCmd (Off/On)
CoolDnSts (Off/On)
CoolDnSATmpSp (°F)
CoolDnRmTmpSp (°F)

WarmUpMode (Off/On)
WarmUpCmd (Off/On)
WarmUpSts (Off/On)
WarmUpSATmpSp (°F)
WarmUpRmTmpSp (°F)

Uoccupied Modes

UocLLEna (Off/On)
UocLLCmd (Off/LL)
UocLLSts (Off/LL)

UocHLEna (Off/On)
UocHLCmd (Off/HL)
UocHLSts (Off/HL)

Alarm/Safety Objects

UnitAlm (Off/On)
ServiceAlm (Off/On)

SmkAlm (Off/On)
FireAlm (Off/On)

FireAlmShutdown (Off/On)

ShutdownRelay (Off/On)

FltAlm (Off/On)
FltAlmRst (Off/On)
FltTmSp (hours)
FltTm (hours)

PreFltAlm (Off/On)
PreFltAlmRst (Off/On)
PreFltTmSp (hours)
PreFltTm (hours)

LowTmpAlm (Off/Alarm)

Loop Control Objects

Loop control variables, where they are being assigned using system objects, should use the following names:

[process]LpPv (use process variable units)
[process]LpCv (use control variable units)
[process]LpSp (use process variable units)
[process]LpPGain (pgain)
[process]LpIGain (igain)
[process]LpDGain (dgain)
[process]LpErr (use process variable units)
[process]LpTm (sec)
[process]LpBias (use control variable units)
[process]LpDb (use process variable units)
[process]LpCvHL (use control variable units)
[process]LpCvLL (use control variable units)

Example using a simple Supply Air Temperature control loop controlling a Cooling Coil Valve:

SATmpLpPv (°F) ...or SATmp (°F)
SATmpLpCv (%) ...or CCVlvCmd (%)
SATmpLpSp (°F) ...or SATmpSp (°F)
SATmpLpPGain (pgain)
SATmpLpIGain (igain)
SATmpLpDGain (dgain)
SATmpLpError (°F)
SATmpLpTm (sec) ...or 1
SATmpLpBias (%) ...or 50
SATmpLpDb (°F)
SATmpLpCvHL (%) ...or 100
SATmpLpCvLL (%) ...or 0

Example using a Temperature control loop controlling a Cooling Coil Valve and a Heating Coil Valve, with multiple temperature inputs and set-points depending on mode:

TmpLpPv (°F) ...SATmp during Occ, RATmp during Uoc
TmpLpCv (null) ...Cv controls CCVlvCmd & HCVlvCmd
TmpLpSp (°F) ...SATmpSp during Occ, RATmpSp during Uoc
TmpLpPGain (pgain)
TmpLpIGain (igain)
TmpLpDGain (dgain)
TmpLpError (°F)
TmpLpTm (sec) ...or 1
TmpLpBias (null) ... or 0
TmpLpDb (°F)
TmpLpCvHL (null) ...100, 0 through 100 is for the cooling coil valve
TmpLpCvLL (null) ...-100, 0 through -100 is for the heating coil valve

Optimal Start Stop (OSS)

OSS Objects (SSTO/SSTOCO)

OptStZn (null)
OptStMode (null)
OptStNextStrtTm (min)
OptStNextStopTm (min)
OptStErlyStrtTm (min)
OptStLateStrtTm (min)
OptStNextOccTm (min)
OptStErlyStopTm (min)
OptStLateStopTm (min)
OptStNextUocTm (min)
OptStAdjStrtTm (min)
OptStAdjStopTm (min)
OptStSeason (Summer/Winter)
OptStZnTmp (°F)
OptStOATmp (°F)
OptStClgSp (°F)
OptStClgCoeff1 (hours)
OptStClgCoeff2 (hours)
OptStClgCoeff3 (hours)
OptStClgCoeff4 (hours)
OptStHtgSp (°F)
OptStHtgCoeff1 (hours)
OptStHtgCoeff2 (hours)
OptStHtgCoeff3 (hours)
OptStHtgCoeff4 (hours)

OSS Objects (Zone Optimization)

OptStClgSp (°F)
OptStHtgSp (°F)
OptStDesOper (null)
OptStEffClgSp (°F)
OptStEffHtgSp (°F)
OptStMode (null)
OptStLastMode (null)
OptStNextMode (null)
OptStNextOccTmr (min)
OptStNextOccTm (min)
OptStNextStrtTmr (min)
OptStNextStopTmr (min)
OptStNextStopTm (min)
OptStNextStrtTm (min)
OptStNextUocTmr (min)
OptStNextUocTm (min)
OptStOATmp (°F)
OptStOATmpStop (°F)
OptStOATmpStrt (°F)
OptStOccClgSp (°F)
OptStOccHtgSp (°F)
OptStLastOccTm (min)
OptStPhase (null)
OptStStopDrtn (min)
OptStStopMode (null)
OptStStopTm (min)
OptStStrtDrtn (min)
OptStStrtMode (null)
OptStStrtTm (min)
OptStStopTmpDif (°F)
OptStStrtTmpDif (°F)
OptStStopTGTmp (°F)
OptStStrtTGTmp (°F)
OptStAdjStrtTm (min)
OptStAdjStopTm (min)
OptStUocClgSp (°F)
OptStUocHtgSp (°F)
OptStUocTm (min)
OptStZnTmp (°F)
OptStZnTmpStop (°F)
OptStZnTmpStrt (°F)

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WILL COUNTY, IL

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Will County, IL

Building Automation System Device & Object Naming Standard

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STATUS: Rev1
DRAWN BY: McKinstry
REV. DATE: **4/22/26**

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AHUMISC

Zone Control

Zn##OccCmd (Off/On)

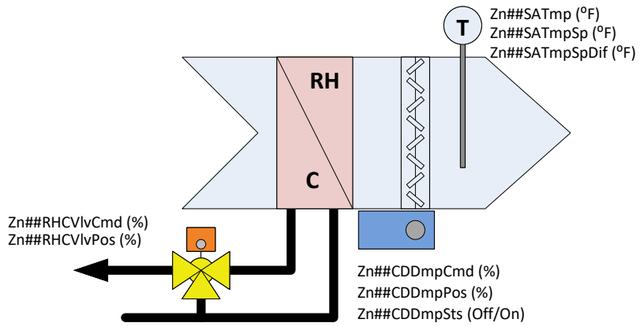
Zn##EffTmp (°F)
Zn##EffSp (°F)
Zn##OccClgSp (°F)
Zn##OccHtgSp (°F)
Zn##UocClgSp (°F)
Zn##UocHtgSp (°F)
Zn##StbyClgSp (°F)
Zn##StbyHtgSp (°F)

T
Zn##Tmp (°F)
Zn##TmpSp (°F)

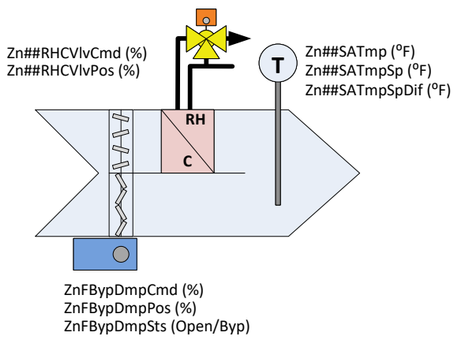
RH
Zn##RelHum (%)
Zn##RelHumSp (%)
Zn##Enth (btu-lb)
Zn##EnthSp (btu-lb)
Zn##Dew (°F)
Zn##DewSp (°F)

IAQ
Zn##CO2 (ppm)
Zn##CO2Sp (ppm)
Zn##CO2Alm (Off/On)
Zn##IAQAlm (Off/On)
Zn##VOC (ppm)
Zn##VOCSp (ppm)
Zn##VOCAlm (Off/On)

Single-duct Zone Damper



Face/Bypass Zone Damper



General Zone Management

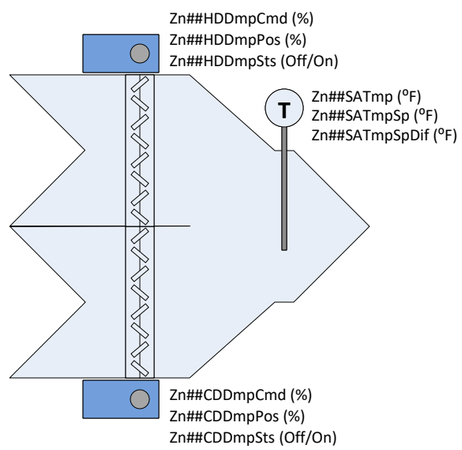
ZnDmpMax (%)
ZnDmpMin (%)
ZnDmpAvg (%)

ZnHDDmpMax (%)
ZnHDDmpMin (%)
ZnHDDmpAvg (%)

ZnCDDmpMax (%)
ZnCDDmpMin (%)
ZnCDDmpAvg (%)

ZnRHCVlvMax (%)
ZnRHCVlvMin (%)
ZnRHCVlvAvg (%)

Dual-duct Zone Dampers



See other AHU pages for additional AHU points.

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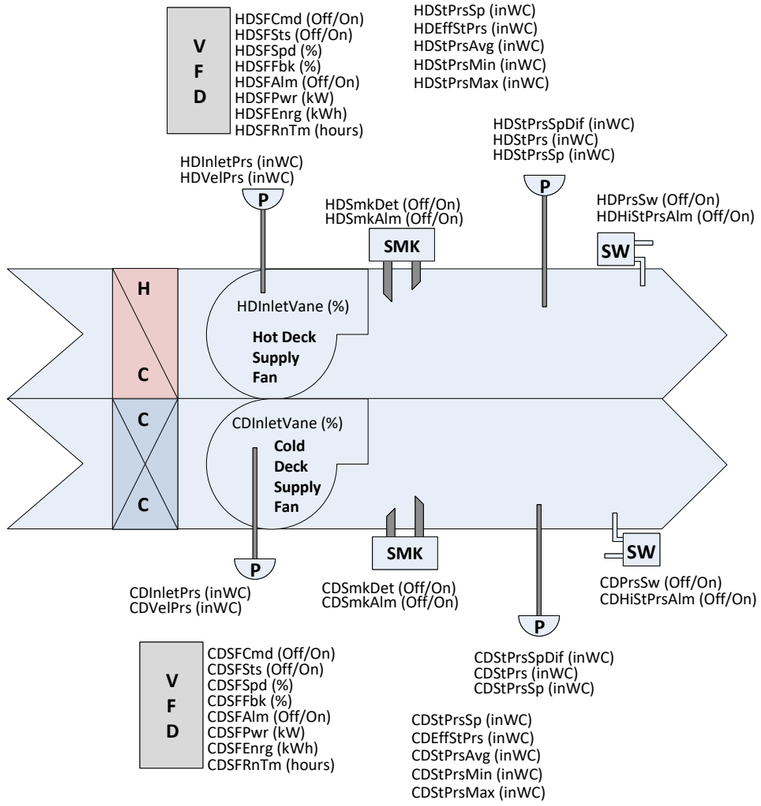
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DRAWN BY: McKinstry
REV. DATE: **4/22/26**

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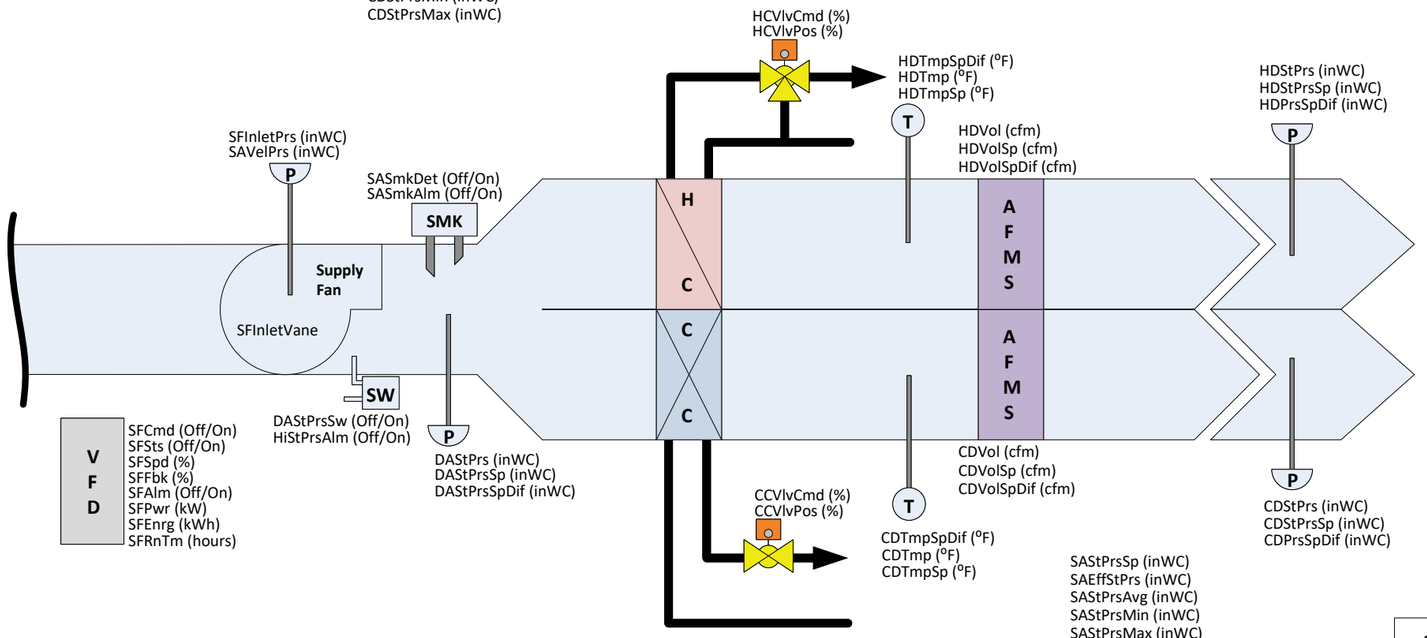
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AHUMZ

Dual Supply Fan Dual Duct AHU



Single Supply Fan Dual Duct AHU



AHU Control Parameters

Unit Control Points

ManOvrdCmd (Off/On)

ScheduleCmd (Off/On)
ScheduleSts (Off/On)

OccCmd (Occ/Uoc)
OvrdCmd (Off/Ovrd)
OccSts (Occ/Uoc)
EffOcc (Occ/Uoc)
OTOcc (Occ/Uoc)
OTOccTm (hours)

NightLLCmd (Off/LL)
NightHLCmd (Off/HL)

ClgEna (Off/On)
ClgDmd (Off/On)
HtgEna (Off/On)
HtgDmd (Off/On)

RemoteSp (use applicable units)

StartDelay (sec)

Miscellaneous Points

AuxContact (Off/On)
ShutdownRelay (Off/On)
UnitAlm (Off/On)
ServiceAlm (Off/On)

SmkAlm (Off/On)
FireAlm (Off/On)

Lockout Points

ClgLckCmd (Off/On)
ClgLckSts (Off/On)
ClgLckTmpSp (°F)
ClgLckTmpDb (°F)

HtgLckCmd (Off/On)
HtgLckSts (Off/On)
HtgLckTmpSp (°F)
HtgLckTmpDb (°F)

StmLck (Off/On)
RHtLck (Off/On)
PHtLck (Off/On)

Zone Control Setpoints

OccCmd (Occ/Uoc)
UocOvrdCmd (Uoc/Ovrd)
OvrdTimeSp (hours)

T
Tmp (°F)
TmpSp (°F)

EffTmp (°F)
EffSp (°F)
OccClgSp (°F)
OccHtgSp (°F)
UocClgSp (°F)
UocHtgSp (°F)
StbyClgSp (°F)
StbyHtgSp (°F)

UserSpAdjEna (Off/On)
UserSpAdjRng (°F)
UserSpAdjHL (°F)
UserSpAdjLL (°F)
UserSpAdj (°F)
EffUserSp (°F)
OccSnsrSts (Off/On)

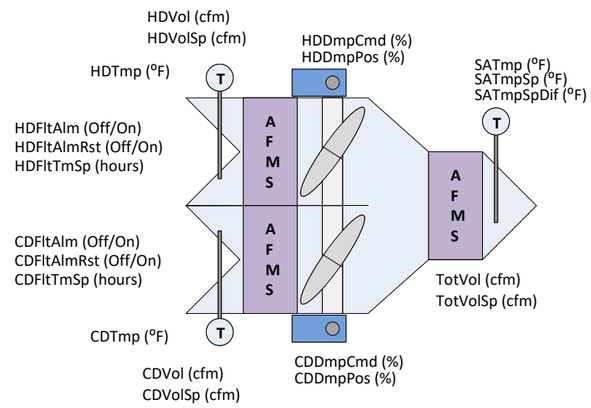
MinClVolSp (cfm)
MaxClVolSp (cfm)
MinHtVolSp (cfm)
MaxHtVolSp (cfm)
MinTotVolSp (cfm)
MaxTotVolSp (cfm)

AirFlowPct (%)
AirFlowPctSp (%)

OccAirVolSp (cfm)
UocAirVolSp (cfm)

HDDuctArea (sqft)
HDVolCoeff (coeff)
CDDuctArea (sqft)
CDVolCoeff (coeff)

Dual-Duct Terminal Unit



See other AHU pages for additional AHU points.

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STATUS: Rev1

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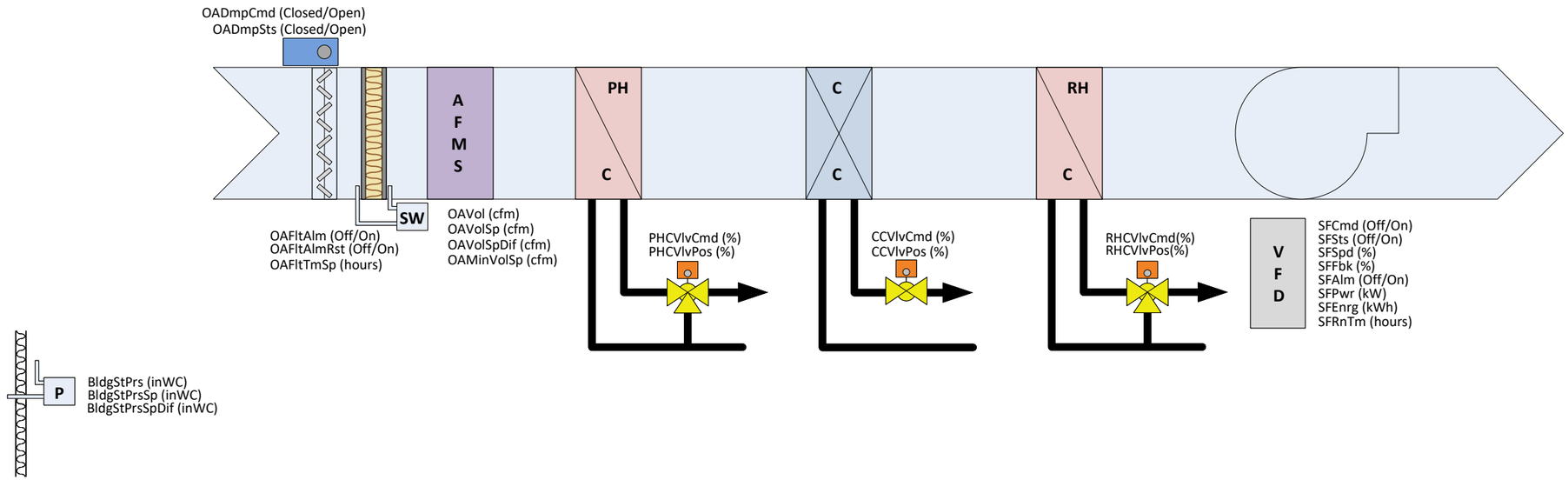
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AHUDD

OSA AHU/MUA AHU



See other AHU pages for additional AHU points.

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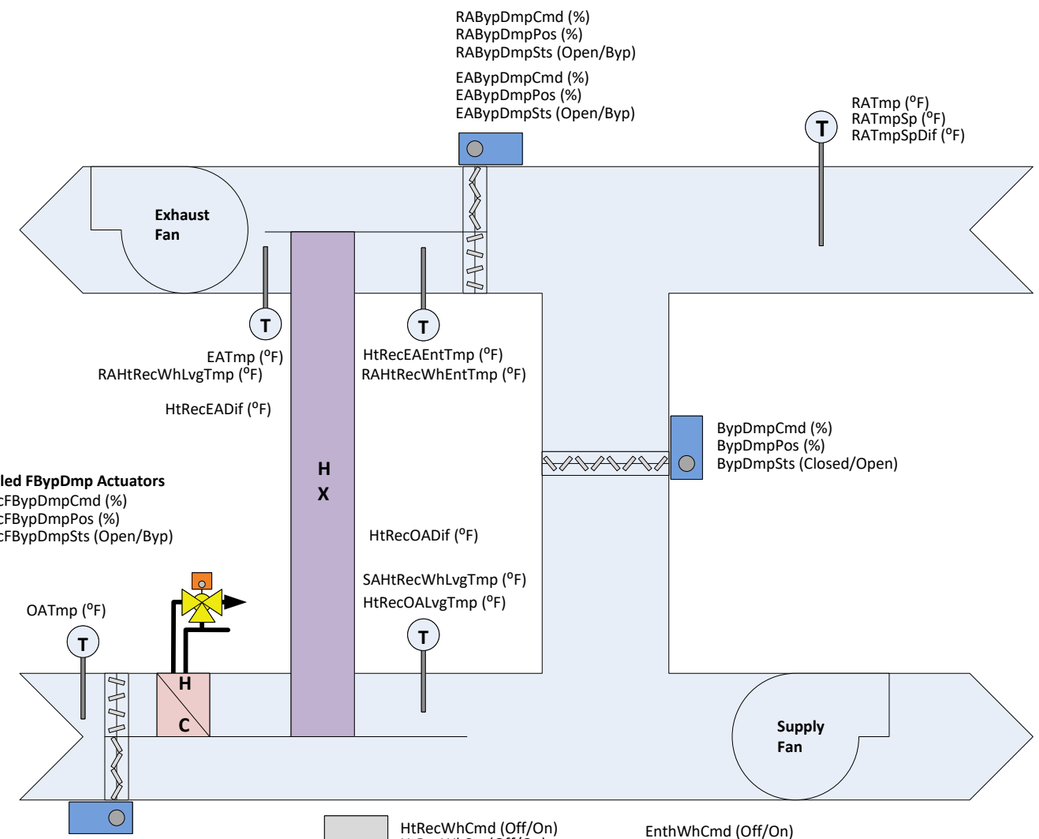
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AHUOA

Air-to-Air Heat Recovery



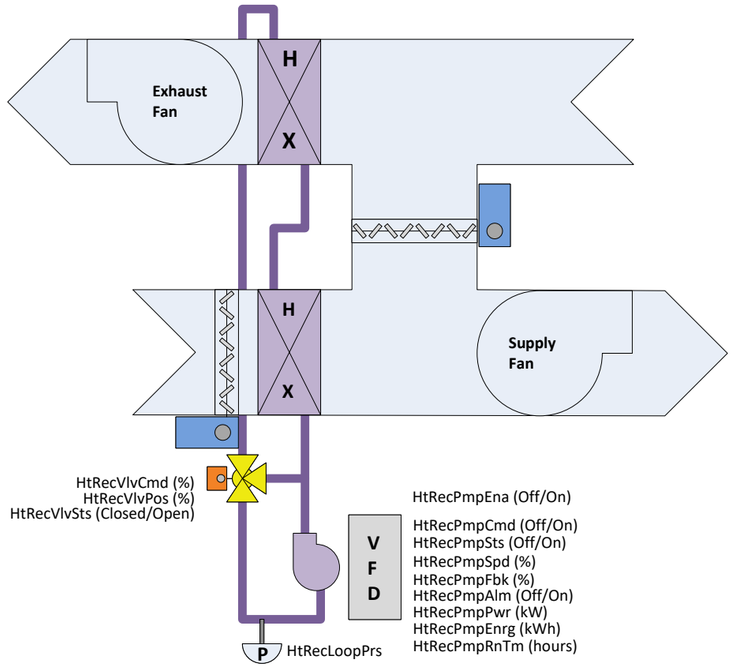
Coupled FBypDmp Actuators
HtRecFBypDmpCmd (%)
HtRecFBypDmpPos (%)
HtRecFBypDmpSts (Open/Byp)

Heat Recovery Control Points

HtRecEna (Off/On)
HtRecMode (Recover/Reject)
HtRcvMode (Off/On)
HtRejMode (Off/On)
HtRecDif (°F)
HtRecDifSp (°F)
HtRecovered (btu)
HtRejected (btu)
HtRecEff (%)
HtRecEffBase (%)

HtRcvModeSp (°F)
HtRejModeSp (°F)
HtRcvModeDb (°F)
HtRejModeDb (°F)
HtRecOATmpSp (°F)
HtRecOATmpDb (°F)
HtRecDifSp (°F)
HtRecDifDb (°F)

Hydronic Heat Recovery



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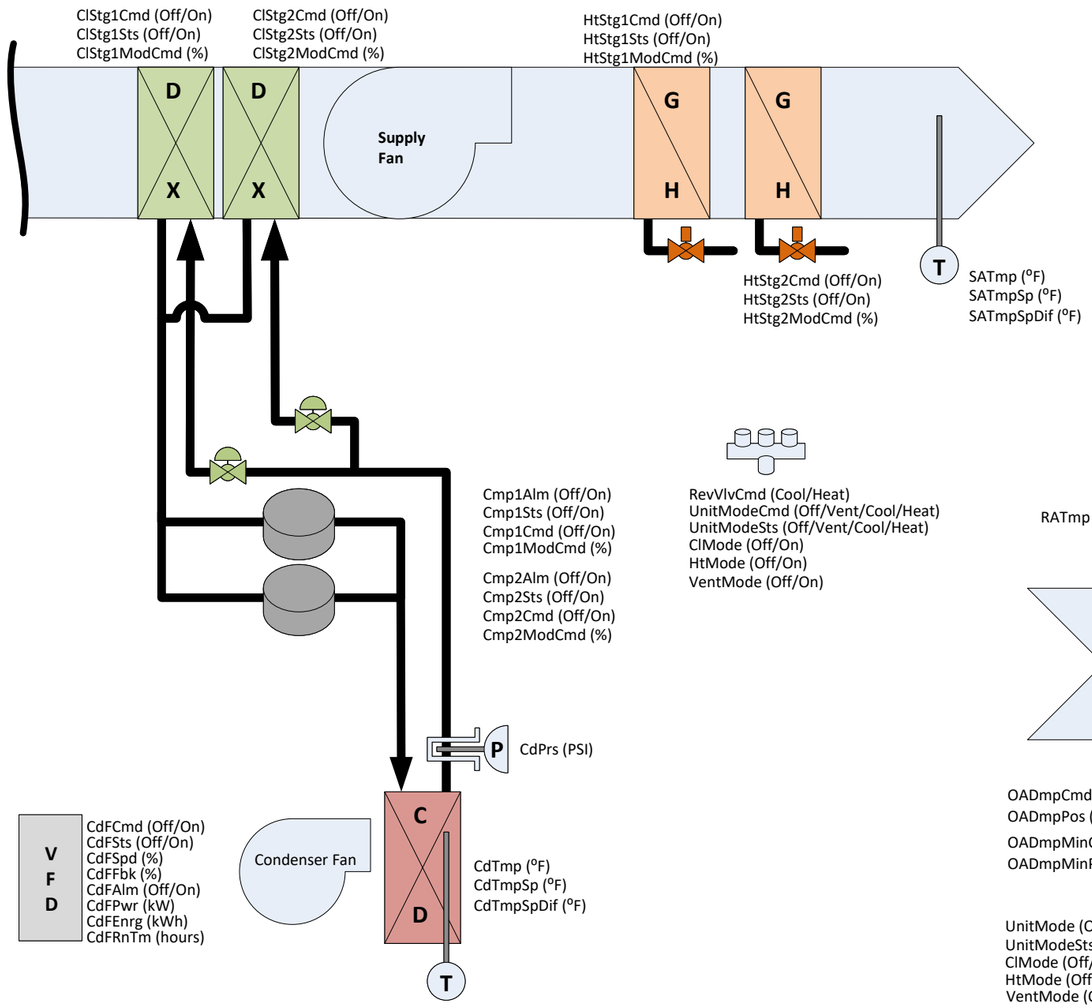
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REV. DATE: **4/22/26**

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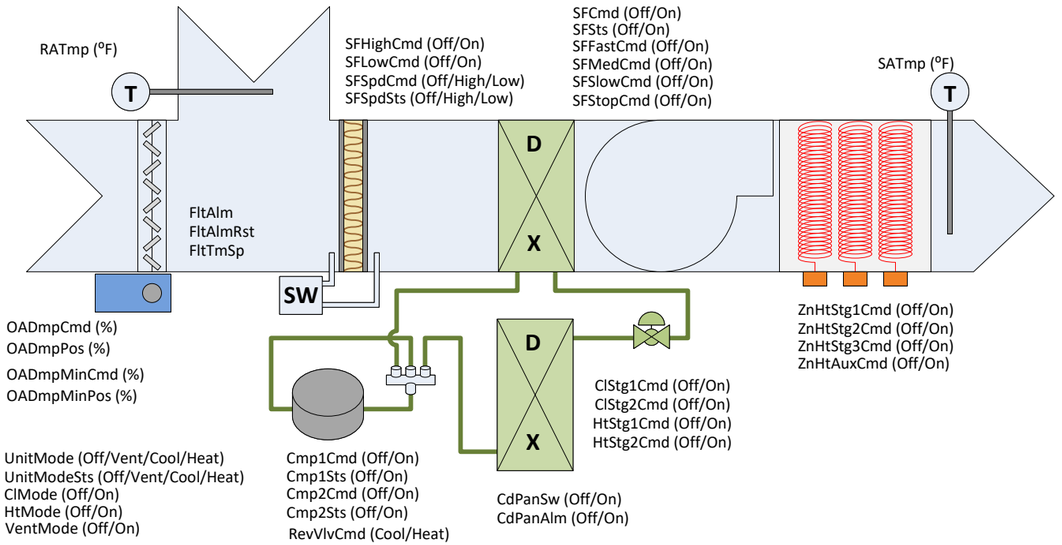
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AHUHX

DX AHU w/ Gas Heat



Unit Ventilator/Heat Pump



See other AHU pages for additional AHU points.

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STATUS: Rev1

DRAWN BY: McKinstry

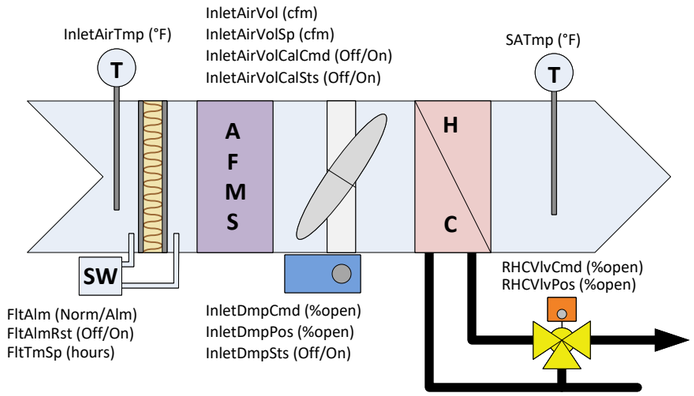
REV. DATE: **4/22/26**

SHEET TITLE & NUMBER:

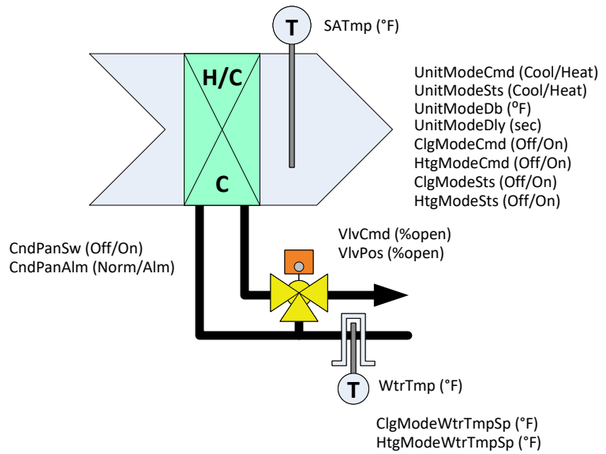
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AHUDX

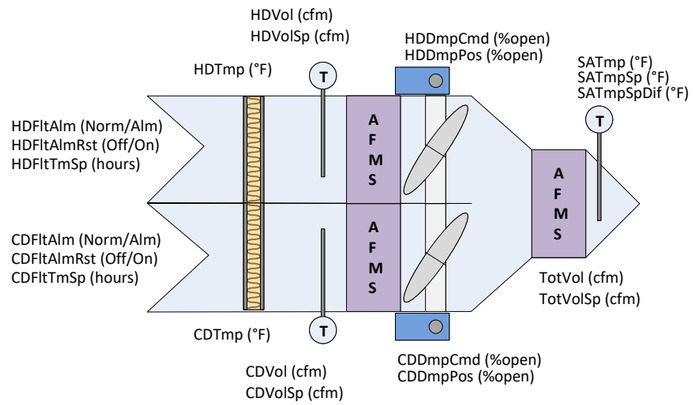
CV/VAV/VVT w/ HW Reheat



2-Pipe Coil



Dual-Duct Terminal Unit



See other pages for additional terminal unit points.

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VAV CV VVT

Zone Control Points

OccCmd (Occ/Uoc)
UocOvrdCmd (Uoc/Ovrd)
OvrdTmSp (hours)

OccRmTmpSp (°F)
UocRmTmpSp (°F)

EffRmTmp (°F)
EffRmTmpSp (°F)
OccClgSp (°F)
OccHtgSp (°F)
UocClgSp (°F)
UocHtgSp (°F)
StbyClgSp (°F)
StbyHtgSp (°F)
EffHtgSp (°F)
EffClgSp (°F)

UserSpAdjEna (Off/On)
UserSpAdjRng (°F)
UserSpAdjHL (°F)
UserSpAdjLL (°F)
UserSpAdj (°F)
EffUserSp (°F)
OccSnsrSts (Off/On)

OvrdEna (Off/On)
OvrdCmd (Uoc/Ovrd)
OvrdTmRem (min)

T
RmTmp (°F)
RmTmpSp (°F)
RmTmpSpHL (°F)
RmTmpSpLL (°F)

RH
RmRelHum (%)
RmRelHumSp (%)
RmEnth (btu-lb)
RmEnthSp (btu-lb)
RmDew (°F)
RmDewSp (°F)

IAQ
RmCO2 (ppm)
RmCO2Sp (ppm)
RmCO2Alm (Off/On)
RmIAQAlm (Off/On)
RmVOC (ppm)
RmVOCSp (ppm)
RmVOCAlm (Off/On)

UnitModeCmd (Cool/Heat)
UnitModeSts (Cool/Heat)
UnitModeDb (°F)
UnitModeDly (sec)

ClgModeSts (Off/On)
HtgModeSts (Off/On)
VentModeSts (Off/On)
StbyModeSts (Off/On)

Baseboard Heat Points

BbHtgEna (Off/On)
BbHtgOATmpSp (°F)
BbHtgOATmpSpDb (°F)

BbHtgVlvCmd (Off/On)
BbHtgVlvCmd (%)

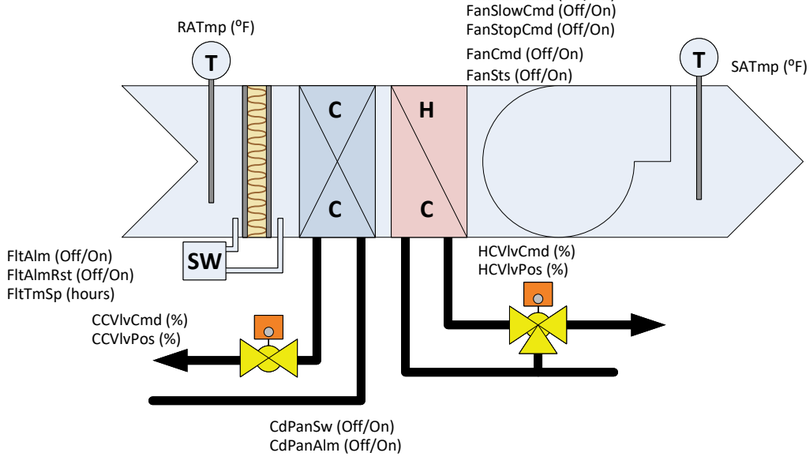
BbHtgCmd (Off/On)

Fan Coil Unit w/ 4-Pipe Cooling & Heating

FanHighCmd (Off/On)
FanLowCmd (Off/On)
FanSpdCmd (Off/Low/High)
FanSpdSts (Off/Low/High)

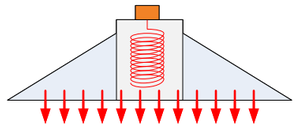
FanFastCmd (Off/On)
FanMedCmd (Off/On)
FanSlowCmd (Off/On)
FanStopCmd (Off/On)

FanCmd (Off/On)
FanSts (Off/On)



Radiant Heat Points

RadHtgEna (Off/On)
RadHtgOATmpSp (°F)
RadHtgOATmpSpDb (°F)



RadHtgCmd (Off/On)

See other AHU and Terminal Units pages for additional points.

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FCU

Chiller Objects

Objects shown for single- or dual-compressor centrifugal chiller.

"BLDG" is an example building number.

BLDG_CHL01_ChlrEna (Off/On)
BLDG_CHL01_ChlrCmd (Off/On)

BLDG_CHL01_ChlrSts (Off/On)
CHL01A_ChlrSts (Off/On)
CHL01B_ChlrSts (Off/On)

BLDG_CHL01A_ChlrAlm (Norm/Alm)
CHL01B_ChlrAlm (Norm/Alm)

"CHL01A" refers to the "A" compressor or circuit. "CHL01B" refers to the "B" compressor or circuit. Use this example for other objects as required.

Power, Energy, & Capacity

ChlrPwr (kW)
ChlrEnrg (kWh)
ChlrCur (Amps)

CHWLoad (tons)
CDWLoad (tons)
ChlrNomCap (tons, btu, mbtu)
ChlrActCapPct (%) or ChlrRLA (%)

Water Temps & Pressures & Flows

CdDifPrs (psi)
EvDifPrs (psi)
EvLvgTmp (°F) or CHWSTmp (°F) or GlySTmp (°F)
EvEntTmp (°F) or CHWRTmp (°F) or GlyRTmp (°F)
CDWLvgTmp (°F) or CDWRTmp (°F)
CDWEntTmp (°F) or CDWSTmp (°F)
ChlrEvApproach (°F)
ChlrCdApproach (°F)

CdFlwSw (Off/On)
EvFlowSw (Off/On)

CdFlwRat (gpm)
EvFlowRat (gpm)

Refrigerant Temps & Pressures

EvRfgTmp (°F)
CdRfgTmp (°F)
CdSatRfgTmp (°F)

EvRfgPrs (psi)
CdRfgPrs (psi)

RfgLvl (ppm)
RfgWarn (Norm/Warn)
RfgAlm (Norm/Alm)

Chiller Control

ChlrRnMode (varies)
ChlrOperMode (varies)
ChlrOvrdMode (Off/On)

CHW Temperature Set Point Control

ChlrLocRem (Local/Remote)
ChlrSpCtrlEna (Off/On)
ChlrSpCtrl (Local/Remote)
LocEvLvgTmpSp (°F) or LocCHWSTmpSp (°F)
RemEvLvgTmpSp (°F) or RemCHWSTmpSp (°F)
EvLvgTmpSp (°F) or CHWSTmpSp (°F)
EffEvLvgTmpSp (°F) or EffCHWSTmpSp (°F)

Demand/Capacity Control

ChlrLmtSpActive (Off/On)
ChlrLmtSpPct (%)
ChlrLmtSpPwr (kW)

ChlrBaseLmtSpPct (%)
ChlrBaseLoadReq (Off/On)

Head Pressure Control

ChlrHeadPrs (psi)
ChlrHeadPrsLmt (psi)
ChlrHeadPrsAlm (Norm/Alm)

CDWCtrlVlv (%open)
CHWCtrlVlv (%open)

Pump & Isolation Valve Control

CdPmpRqst (Off/On)
PriPmpRqst (Off/On)

CDWIsoVlv (Off/On)
CHWIsoVlv (Off/On)
CdEntIsoVlv (Off/On)
CdLvgIsoVlv (Off/On)
EvEntIsoVlv (Off/On)
EvLvgIsoVlv (Off/On)

Staging Control

ChlrLeadEna (Off/On)
ChlrLagEna (Off/On)
ChlrSeq (seq)

CTAssigned (CT)

Mechanical Details & Diagnostics

OilTmp (°F)
OilPrs (psi)
OilPrsH (psi)
OilPrsL (psi)

PurgeSts (Off/On)
PurgeTm (sec)

CmpStrts (starts)
CmpRntm (hours)
CmpAvgRntm (min)
ChlrStrts (starts)
ChlrRntm (hours)
ChlrAvgRntm (min)

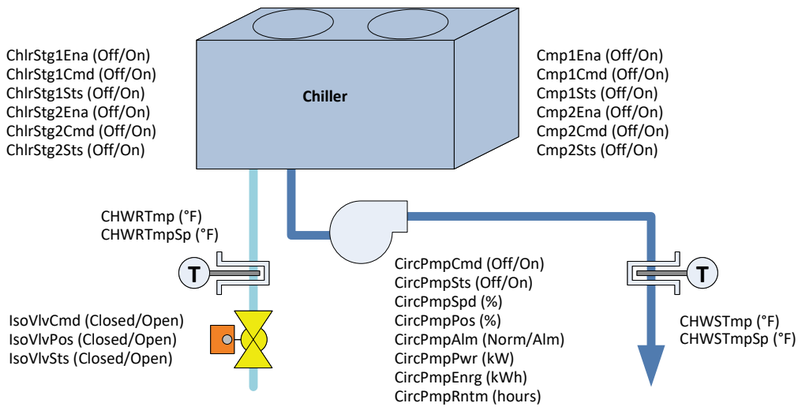
InletGuideVanePos (%open)

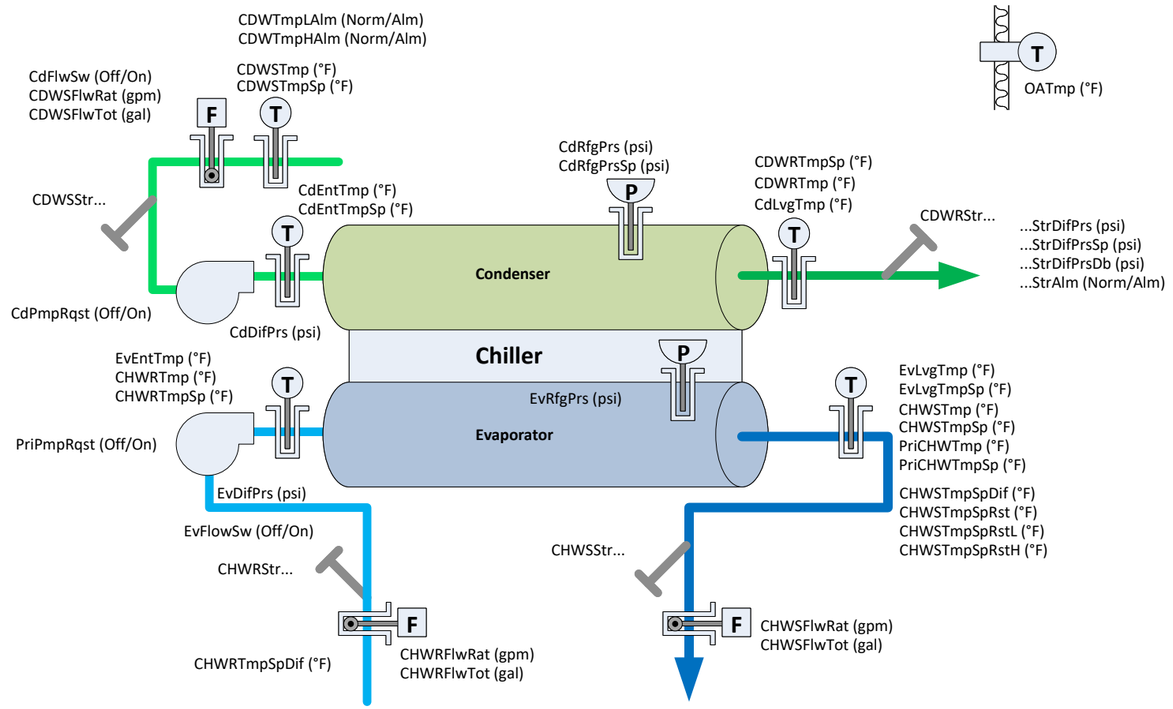
MinRnTmSp (sec, min)
MinRnTmRemain (sec, min)

ChlrHotGasByp (Off/On)
ChlrIceRqst (Off/On)
ChlrIceTermSp (°F)

ManRstReq (Off/On)
AutoRst (Off/On)
DiagWarn (varies)

Air-Cooled Chiller





See other CHW pages for additional CHW points.

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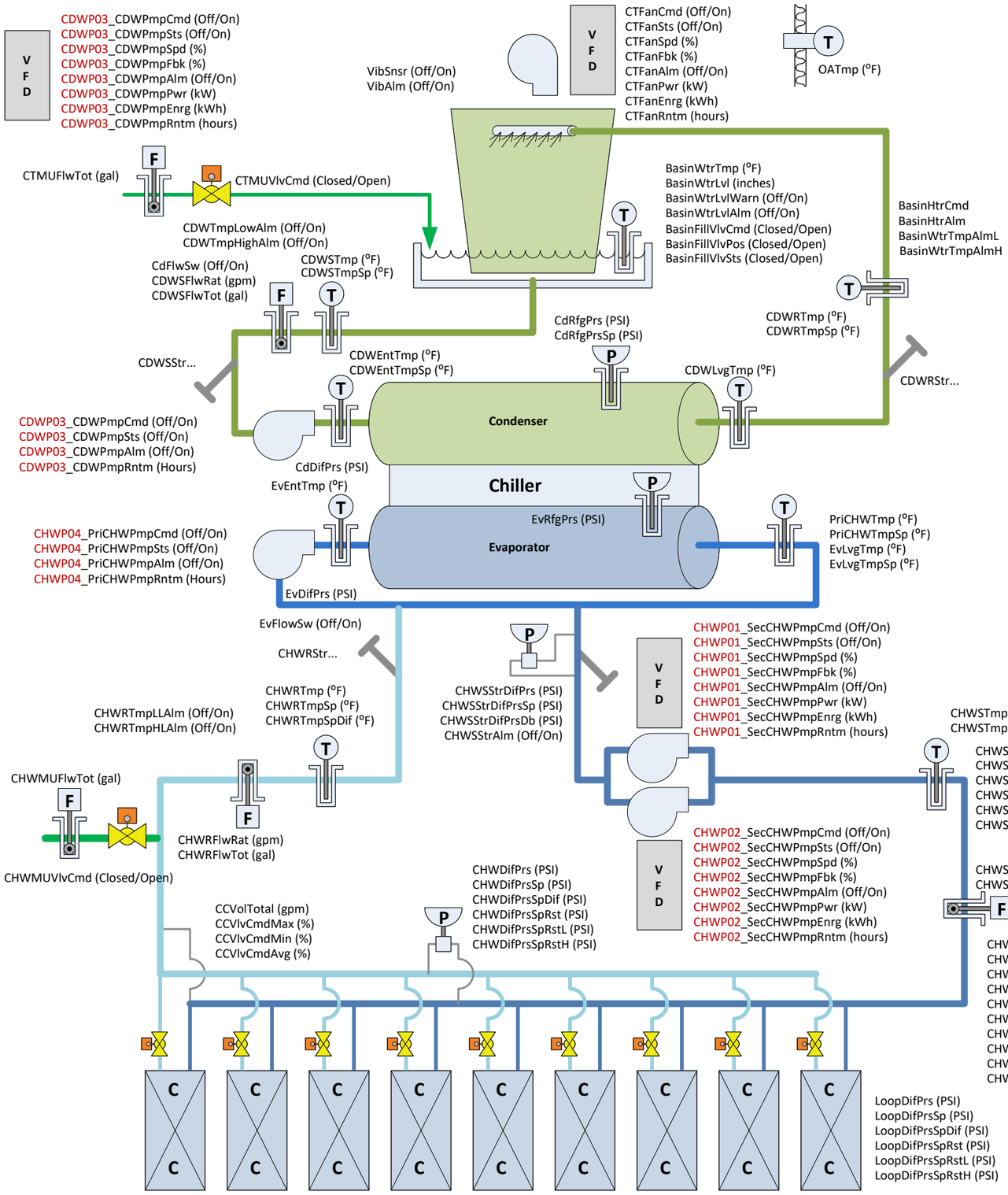
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SHEET TITLE & NUMBER:

CHLR



Chillerplant Control Points

CHWSysEna (Off/On)
CHWSysLoad (tons,kbtu,Mbtu)
CHWSysCap (tons,kbtu,Mbtu)
CHWSysActCap (%)

ClgDmd (Off/On)
ClgLckCmd (Off/On)
ClgLckSts (Off/On)
OATmpLckSp (°F)
OATmpLckDb (°F)
OATmpLckDbL (°F)
OATmpLckDbH (°F)
OATmpSpRstL (°F)
OATmpSpRstH (°F)
OATmpSpRst (Off/On)

ChlrSeq (seq)
ChlrRotCmd (Off/On)
ChlrLead (chiller#)
ChlrLeadCmd (Off/On)
ChlrLagCmd (Off/On)
ChlrStgCmd (stage)
ChlrStg (stage)
ChlrStgDmd (stage)
ChlrRdyTot (chillers)
ChlrStsTot (chillers)

ChlrRotSched

Refrigerant Monitoring

RfgAlm (Norm/Alm)
RfgLvl (ppm)
RfgLvlHL (ppm)
RfgWarn (Norm/Warn)
RfgLvlWarnSp (ppm)
RfgLvlAlmSp (ppm)

FreeClgEna (Off/On)
FreeClgLck (Off/On)
FreeClgCmd (Off/On)
FreeClgOATmpSp (°F)
FreeClgOATmpSpDbH (°F)
FreeClgOATmpSpDbL (°F)
FreeClgOARelHumSp (%)
FreeClgOARelHumSpDbH (%)
FreeClgOARelHumSpDbL (%)
FreeClgOAWBTmpSp (°F)
FreeClgOAWBTmpSpDbH (°F)
FreeClgOAWBTmpSpDbL (°F)
FreeClgCap (tons,kbtu,Mbtu)
FreeClgCDWSTmpSp (°F)

MechClgEna (Off/On)
MechClgLck (Off/On)
MechClgCmd (Off/On)
MechClgOATmpSp (°F)
MechClgOATmpSpDbH (°F)
MechClgOATmpSpDbL (°F)
MechClgOARelHumSp (%)
MechClgOARelHumSpDbH (%)
MechClgOARelHumSpDbL (%)
MechClgOAWBTmpSp (°F)
MechClgOAWBTmpSpDbH (°F)
MechClgOAWBTmpSpDbL (°F)
MechClgCap (tons,kbtu,Mbtu)
MechClgCDWSTmpSp (°F)

HybrClgEna (Off/On)
HybrClgLck (Off/On)
HybrClgCmd (Off/On)
HybrClgOATmpSp (°F)
HybrClgOATmpSpDbH (°F)
HybrClgOATmpSpDbL (°F)
HybrClgOARelHumSp (%)
HybrClgOARelHumSpDbH (%)
HybrClgOARelHumSpDbL (%)
HybrClgOAWBTmpSp (°F)
HybrClgOAWBTmpSpDbH (°F)
HybrClgOAWBTmpSpDbL (°F)
HybrClgCap (tons,kbtu,Mbtu)
HybrClgCDWSTmpSp (°F)
HybrClgCHWRTmpSp (°F)

See other CHW pages for additional CHW & CDW points.

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CHWS

Pump Control Objects

CHWPmpSeq (seq)
CHWPmpRotCmd (Off/On)
CHWPmpRotSchedCmd (Off/On)
CHWPmpLeadEna (Off/On)
CHWPmpLagEna (Off/On)
CHWPmpEna (Off/On)
CHWPmpCmd (Off/On)
CHWPmpSts (Off/On)



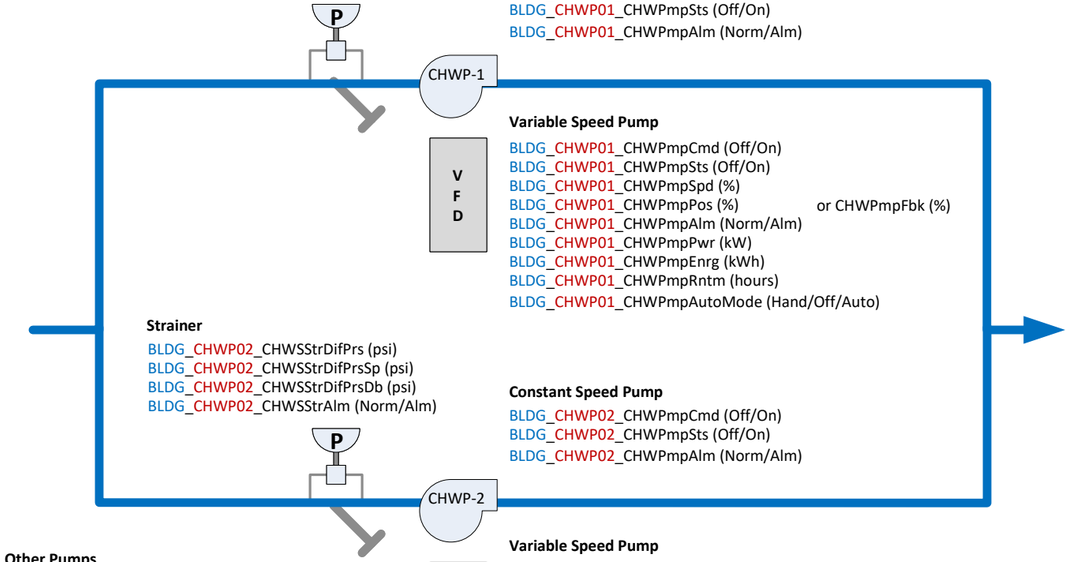
CHWPmpRotSched

Pump Objects Example

"BLDG" is an example building number.
"CHWP01" and "CHWP02" are example equipment designations.

Strainer
BLDG_CHWP01_CHWSStrDifPrs (psi)
BLDG_CHWP01_CHWSStrDifPrsSp (psi)
BLDG_CHWP01_CHWSStrDifPrsDb (psi)
BLDG_CHWP01_CHWSStrAlm (Norm/Alm)

Constant Speed Pump
BLDG_CHWP01_CHWPmpCmd (Off/On)
BLDG_CHWP01_CHWPmpSts (Off/On)
BLDG_CHWP01_CHWPmpAlm (Norm/Alm)



Variable Speed Pump
BLDG_CHWP01_CHWPmpCmd (Off/On)
BLDG_CHWP01_CHWPmpSts (Off/On)
BLDG_CHWP01_CHWPmpSpd (%)
BLDG_CHWP01_CHWPmpPos (%) or CHWPmpFbk (%)
BLDG_CHWP01_CHWPmpAlm (Norm/Alm)
BLDG_CHWP01_CHWPmpPwr (kW)
BLDG_CHWP01_CHWPmpEnrg (kWh)
BLDG_CHWP01_CHWPmpRntm (hours)
BLDG_CHWP01_CHWPmpAutoMode (Hand/Off/Auto)

Strainer
BLDG_CHWP02_CHWSStrDifPrs (psi)
BLDG_CHWP02_CHWSStrDifPrsSp (psi)
BLDG_CHWP02_CHWSStrDifPrsDb (psi)
BLDG_CHWP02_CHWSStrAlm (Norm/Alm)

Constant Speed Pump
BLDG_CHWP02_CHWPmpCmd (Off/On)
BLDG_CHWP02_CHWPmpSts (Off/On)
BLDG_CHWP02_CHWPmpAlm (Norm/Alm)

Other Pumps
BLDG_CWP01_CDWPmpCmd (Off/On)
BLDG_GP01_GlyPmpCmd (Off/On)
BLDG_CHWP01_PriCHWPmpCmd (Off/On)
BLDG_CHWP01_SecCHWPmpCmd (Off/On)
BLDG_CWP01_CdPmpCmd (Off/On)

Variable Speed Pump
BLDG_CHWP02_CHWPmpCmd (Off/On)
BLDG_CHWP02_CHWPmpSts (Off/On)
BLDG_CHWP02_CHWPmpSpd (%)
BLDG_CHWP02_CHWPmpPos (%) or CHWPmpFbk (%)
BLDG_CHWP02_CHWPmpAlm (Norm/Alm)
BLDG_CHWP02_CHWPmpPwr (kW)
BLDG_CHWP02_CHWPmpEnrg (kWh)
BLDG_CHWP02_CHWPmpRntm (hours)
BLDG_CHWP02_CHWPmpAutoMode (Hand/Off/Auto)

See other CHW pages for additional CHW points.

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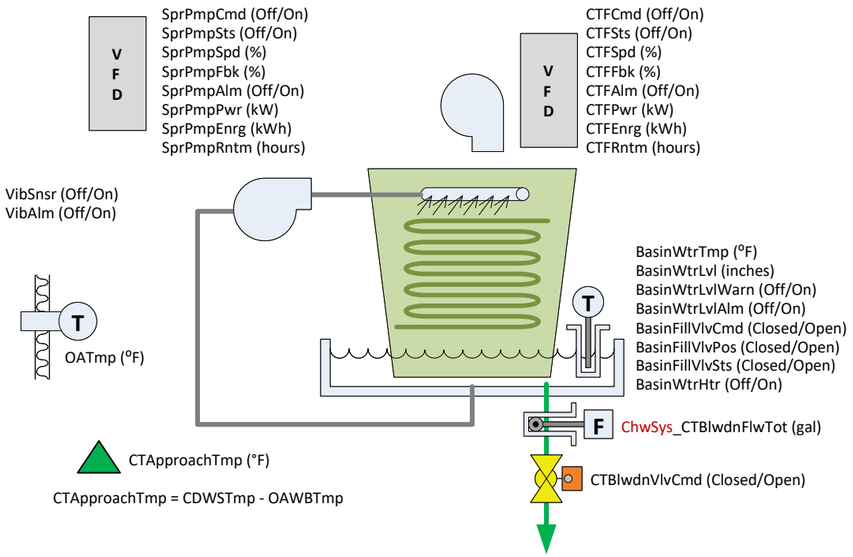
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PMP

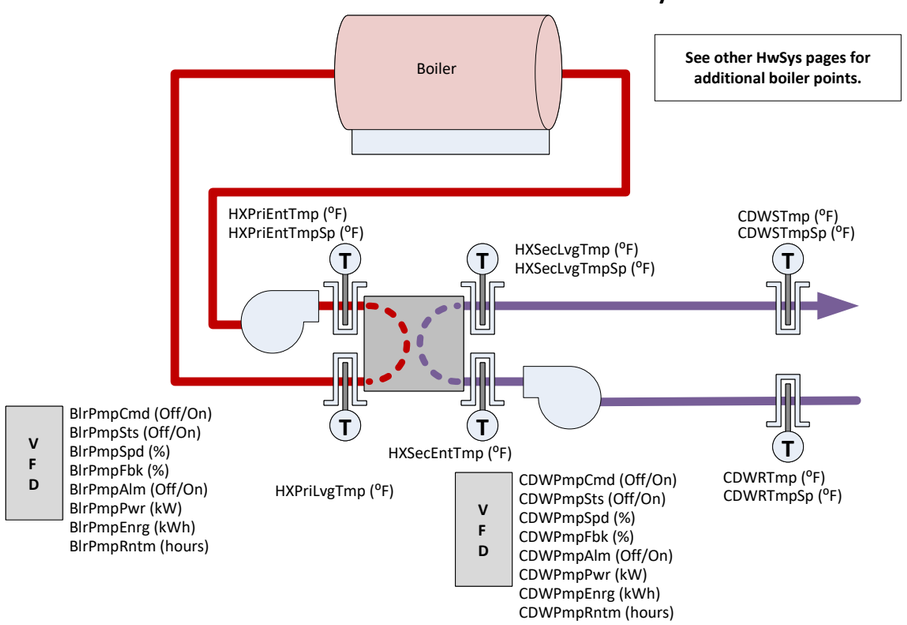
Closed-Loop Cooling Tower

For open-loop cooling tower, see ChwSys page.

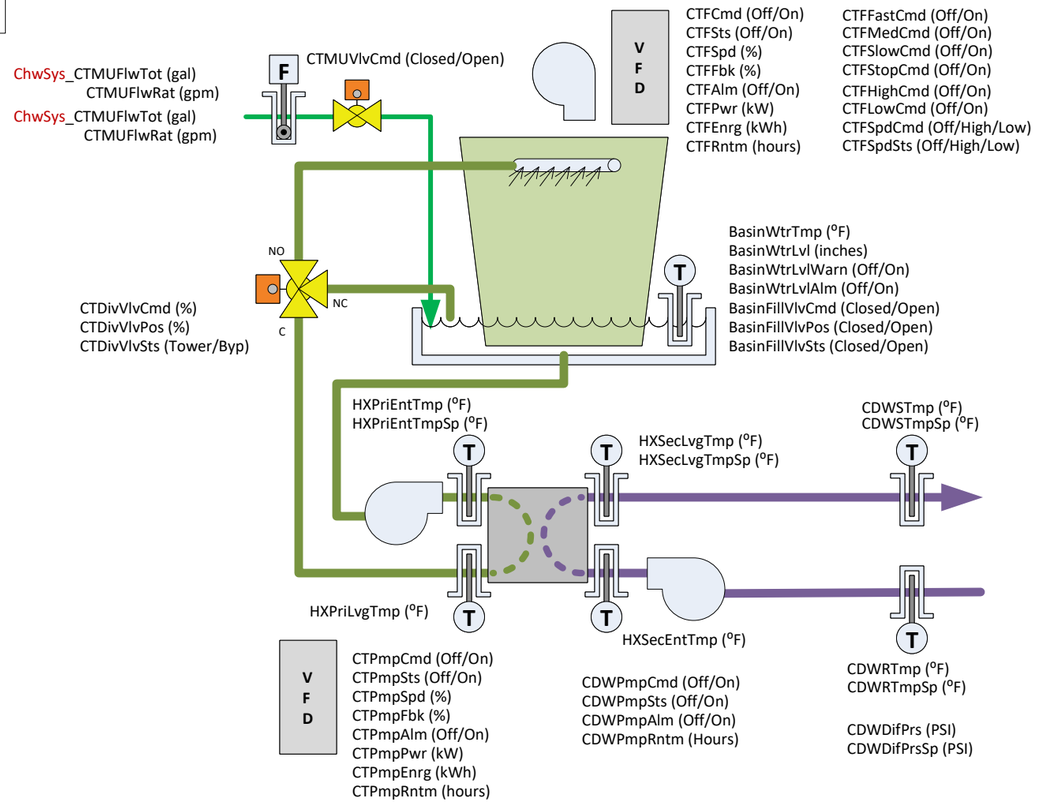


Condenser HW Water System

See other HwSys pages for additional boiler points.



Condenser Water System/ Evaporative Cooling System



Condenser System Energy

CDWEnrgRat (energy units)
CDWEnrgTot (energy units)
CDWTons (tons)
CDWkWTon (kW/ton)
CDWBtuRat (btu/hr, kbtu/hr, mbtu/hr)
CDWBtuTot (btu, kbtu, mbtu)
CDWBtukWh (btu/kWh)
CDWTonsSqFt (tons/sqft)
CDWBtuHrSqFt (btu/hr/sqft)
CDWCapacity (tons, btu, kbtu, mbtu, kW)

CTApproachTmp (°F)
CTCapacity (tons, btu, kbtu, mbtu, kW)

See other CDWS pages for additional CDWS points.

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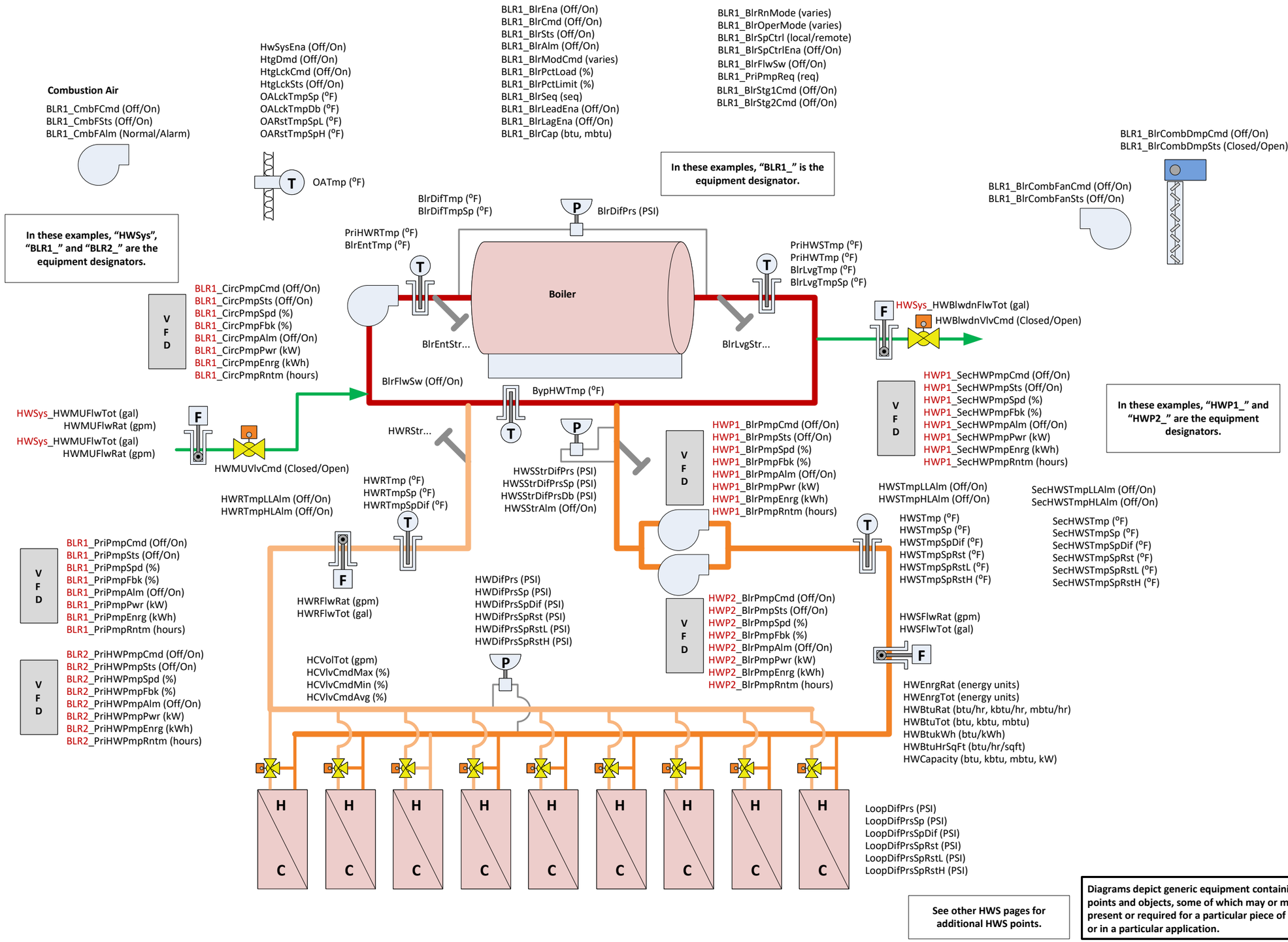
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CWS



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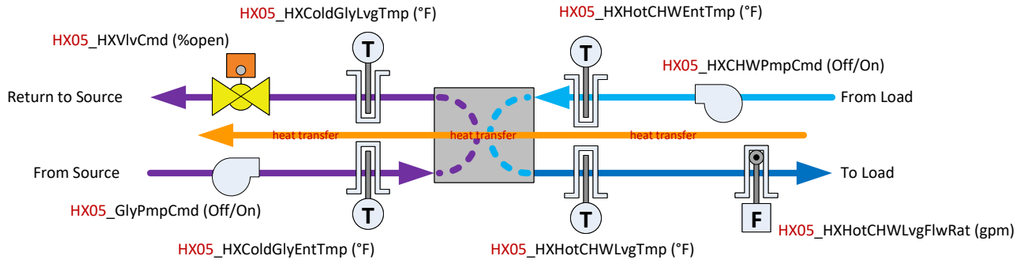
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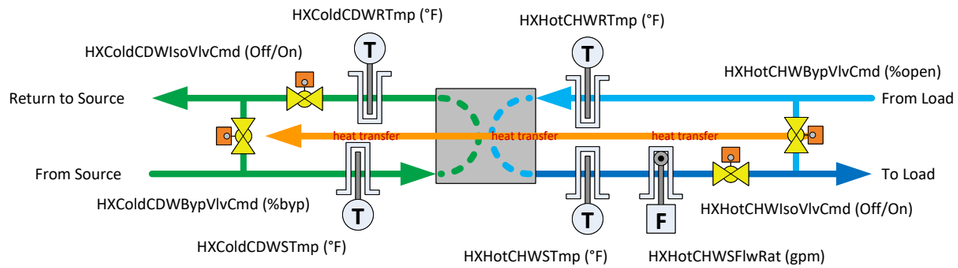
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HWS

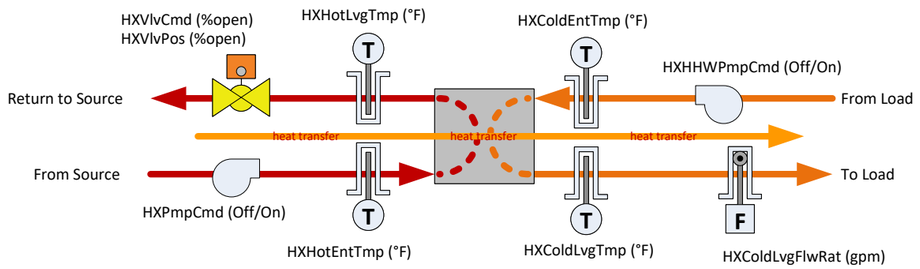
Glycol Cooling Application



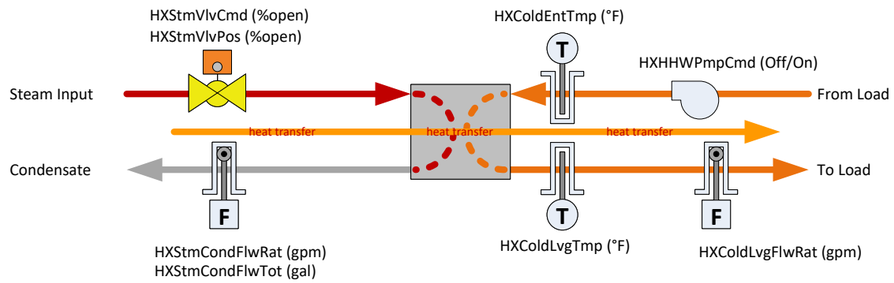
Free-Cooling Condenser Water Application



Hot Water Heating Application



Steam/Hot Water Heating Application



See CHW, HWS, and PMP pages for additional points.

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HX