

Dairy One

Binghamton , New York



AIR TEMP HEATING & AIR CONDITIONING, INC. **A LINC SERVICE ® CONTRACTOR**

1165 Front Street
Binghamton, New York 13905

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Engineer/Architect Airtemp


Mechanical Contractor Airtemp

Job Number P8131

AUTOMATEDLOGIC®
CORPORATION

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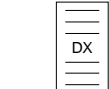
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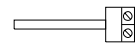
Symbol Legend



Supply Fan



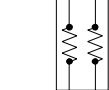
DX Cooling Coil



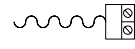
Duct Temperature Sensor



Exhaust Fan



Electric Heating Coil



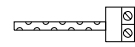
Averaging Duct Temperature Sensor



Return Fan



Gas Heating



Duct Humidity Sensor



Fan w/ Inlet Vane Control



Hot Water Heating Coil



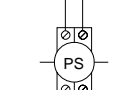
Immersion Temperature Sensor w/ Well



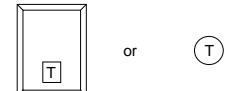
Pump



Chilled Water Cooling Coil



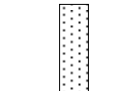
Pressure Sensor



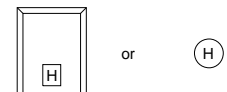
Room Temperature Sensor



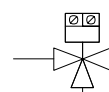
Steam Heating Coil



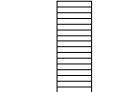
Filter



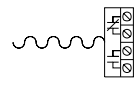
Room Humidity Sensor



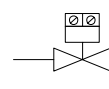
3 - Way Valve



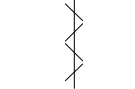
Air Flow Station



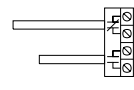
FreezeStat



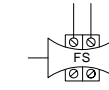
2 - Way Valve



Damper



Smoke Detector



Flow Sensor

Common Abbreviations:

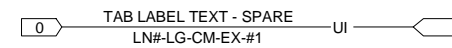
AC - Air Conditioning
 ACU - Air Conditioning Unit
 AHU - Air Handling Unit
 AI - Analog Input
 AO - Analog Output
 AUTO - Automatic
 AUX - Auxiliary
 C - Common
 CHW - Chilled Water
 CHWP - Chilled Water Pump
 CHWR - Chilled Water Return
 CHWS - Chilled Water Supply
 COND - Condenser
 CW - Condenser Water
 CWP - Condenser Water Pump
 CWR - Condenser Water Return
 CWS - Condenser Water Supply
 DA - Discharge Air
 DI - Digital Input
 DO - Digital Output
 EA - Exhaust Air
 EF - Exhaust Fan

EVAP - Evaporator
 F - Fahrenheit
 FCU - Fan Coil Unit
 HOA - Hand / Off / Auto
 HP - Heat Pump
 HRU - Heat Recovery Unit
 HTEX - Heat Exchanger
 HW - Hot Water
 HWP - Hot Water Pump
 HWR - Hot Water Return
 HWS - Hot Water Supply
 MAX - Maximum
 MIN - Minimum
 MISC - Miscellaneous
 NC - Normally Closed
 NO - Normally Open
 OA - Outdoor Air
 PIU - Powered Induction Unit
 RA - Return Air
 RF - Return Fan
 RH - Relative Humidity
 RTU - Roof-top Unit

SA - Supply Air
 SF - Supply Fan
 SP - Static Pressure
 TEMP - Temperature
 UH - Unit Heater
 UV - Unit Ventilator
 VAV - Variable Air Volume
 VVTU - Variable Volume Terminal Unit
 W/ - with
 W/O - without
 WSHP - Water-Source Heat Pump

General Notes:

- All control modules are drawn using standard ALC module representations.
- Electrical points are identified by a tagged method (LN# - LG - CM - EX - Z0):



LN# - The line number (optional).
 LG - The gateway number (optional).
 CM - The control module address.
 EX - The expander module number.
 #1 - The channel number.

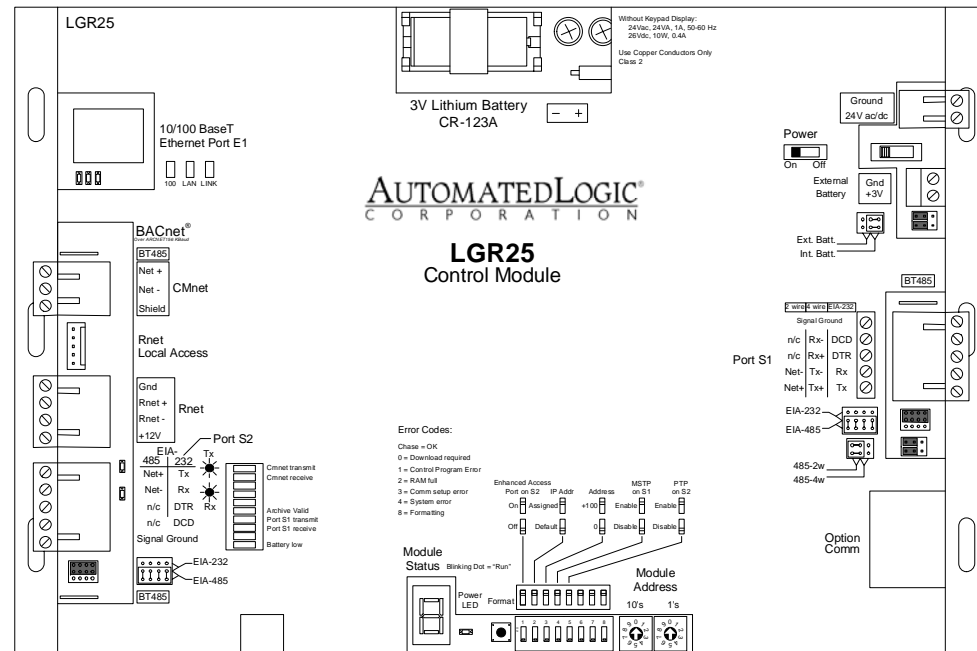
These tags include wiring for all AI's, DI's, AO's and DO's. Points using pneumatic tubing follow the same convention.

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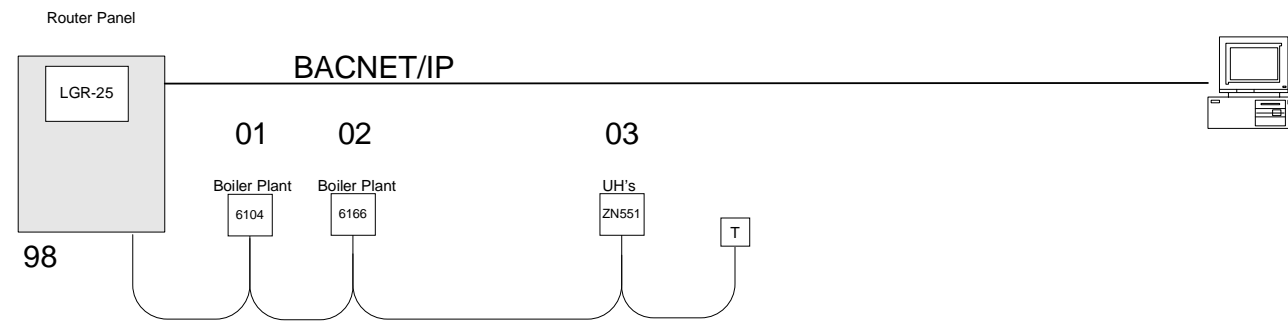
Riser



Bill of Materials

DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
LGR25	LGR25	AUTOMATED LOGIC	LGR25	1 ea
diag				1 ea
prot				1 ea





DIAG
PROT



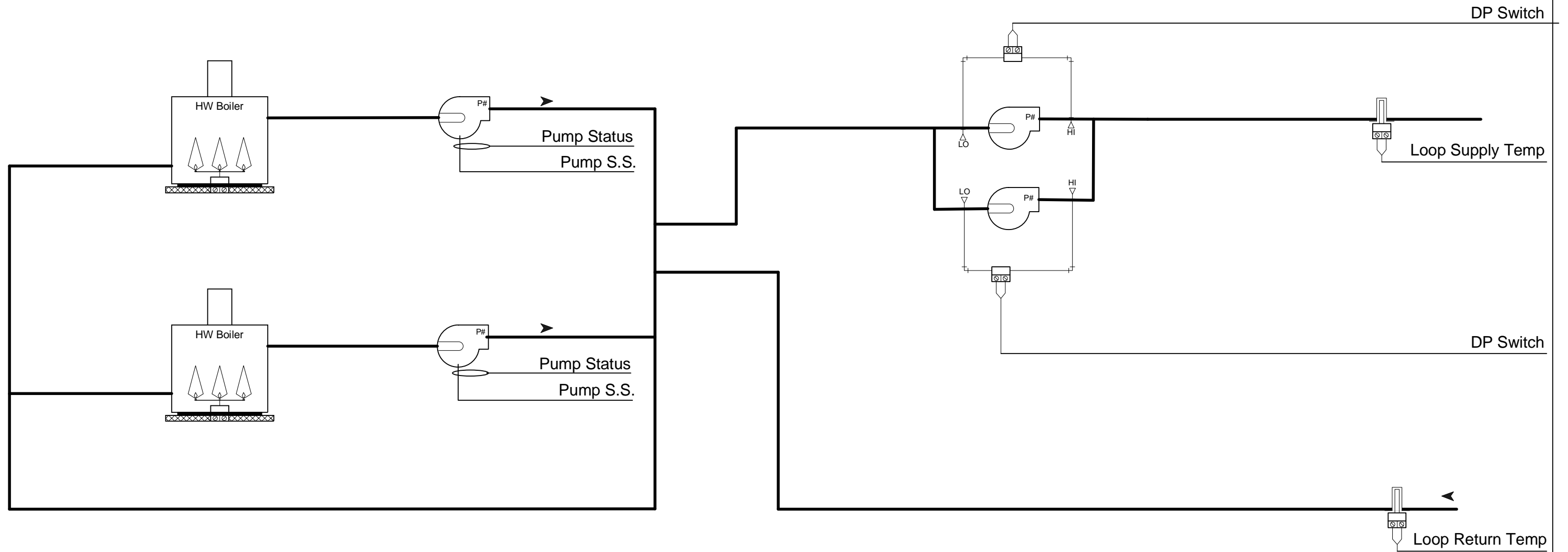
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Summary Bill of Materials

Summary Bill of Materials				
DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
BA10K				1 ea
Dpsw				2 ea
FRZ	FRZ	FRZ	FRZ	1 ea
LFRES24				1 ea
LGR25	LGR25	AUTOMATED LOGIC	LGR25	1 ea
S6104	S6104	AUTOMATED LOGIC	S6104	1 ea
SE6166	SE6166	AUTOMATED LOGIC	SE6166	1 ea
TR-AG	TRANSFORMER, 120/24VAC 150VA W/CCT BREAKER	CORE COMPONENTS	LE-124	15 ea
ZN551	ZN551	AUTOMATED LOGIC	ZN551	1 ea
af24us				2 ea
ba10k12d	BA10K12D	BA10K12D	BA10K12D	3 ea
bastrp				2 ea
diag				1 ea
prot				1 ea
ribu1c	PILOT RELAY 24 VAC DPDT W/ LED	FUNCTIONAL	RIBU1C	14 ea
ribxf	CURRENT SWITCH .5-200 AMP SOLID CORE GO/NO GO	FUNCTIONAL	RIBXKF	8 ea
tdref				2 ea
trnsdc				2 ea
wallsnsr	WALLSNSR	WALLSNSR	WALLSNSR	2 ea

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Boilers

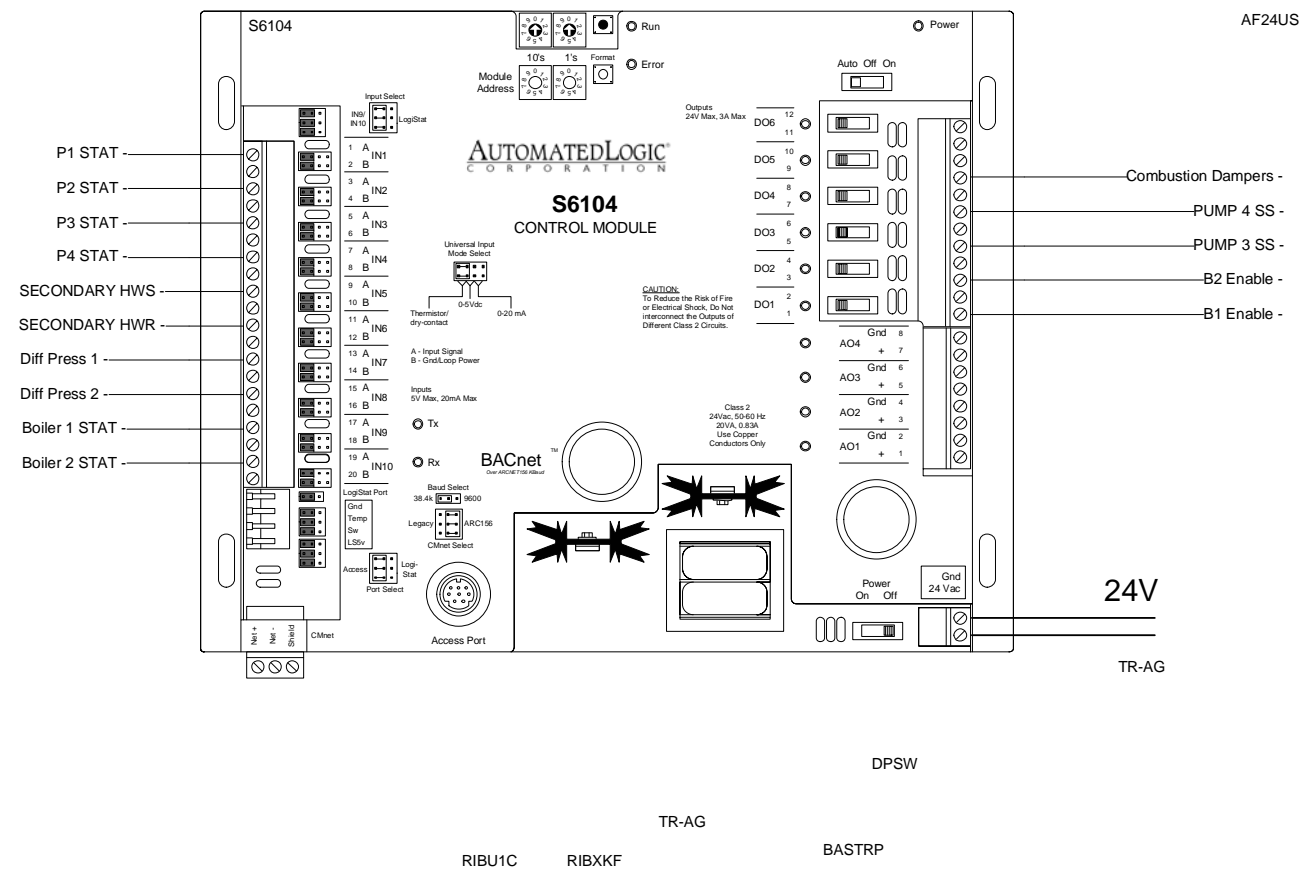


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Boilers Control

Bill of Materials

DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
Dpsw				2 ea
S6104	S6104	AUTOMATED LOGIC	S6104	1 ea
TR-AG	TRANSFORMER, 120/24VAC 150VA W/CCT BREAKER	CORE COMPONENTS	LE-124	3 ea
af24us				2 ea
bastrp				2 ea
ribu1c	PILOT RELAY 24 VAC DPDT W/ LED	FUNCTIONAL	RIBU1C	4 ea
ribxkf	CURRENT SWITCH .5-200 AMP SOLID CORE GO/NO GO	FUNCTIONAL	RIBXKF	4 ea



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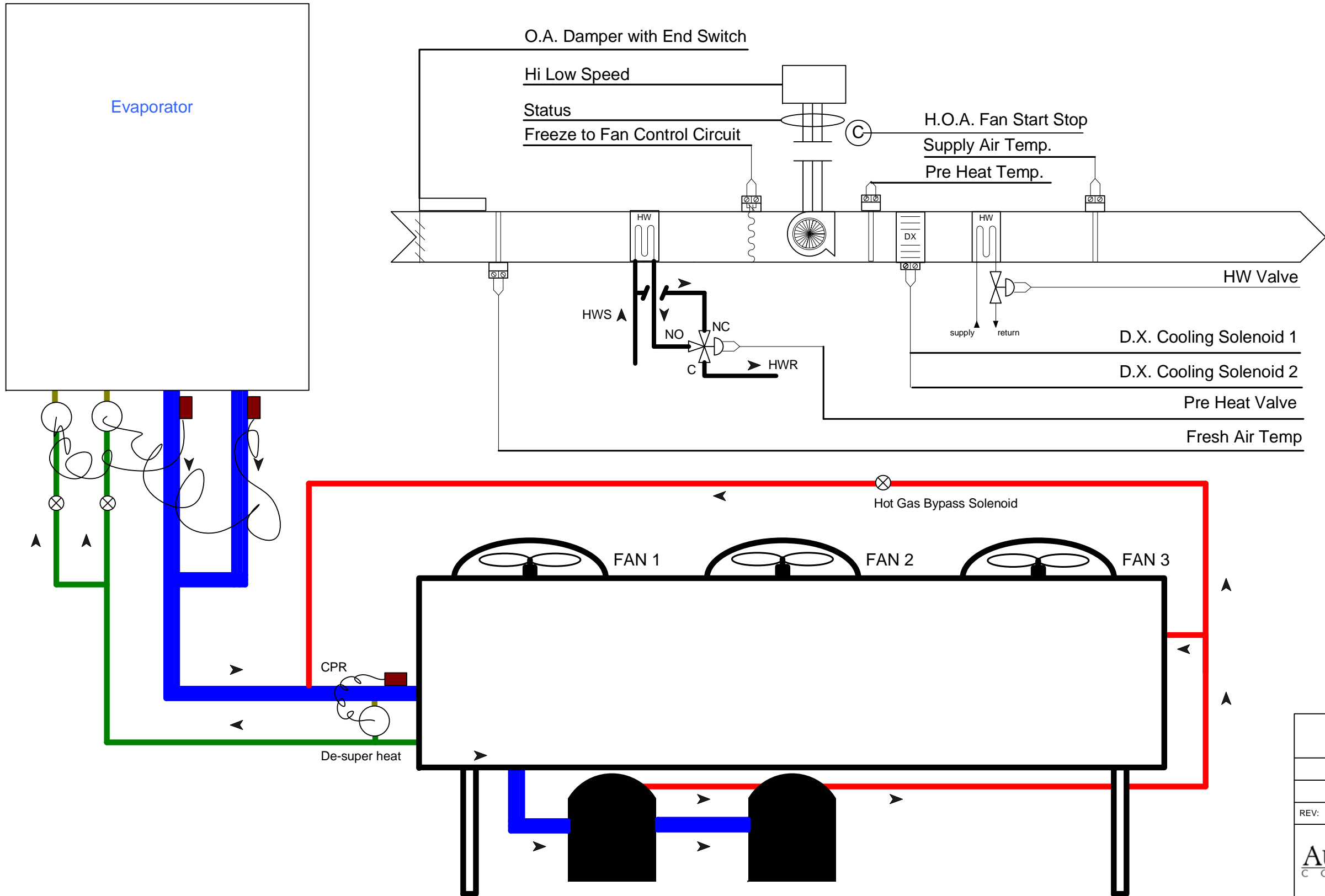
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Boilers Control

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AHU 1

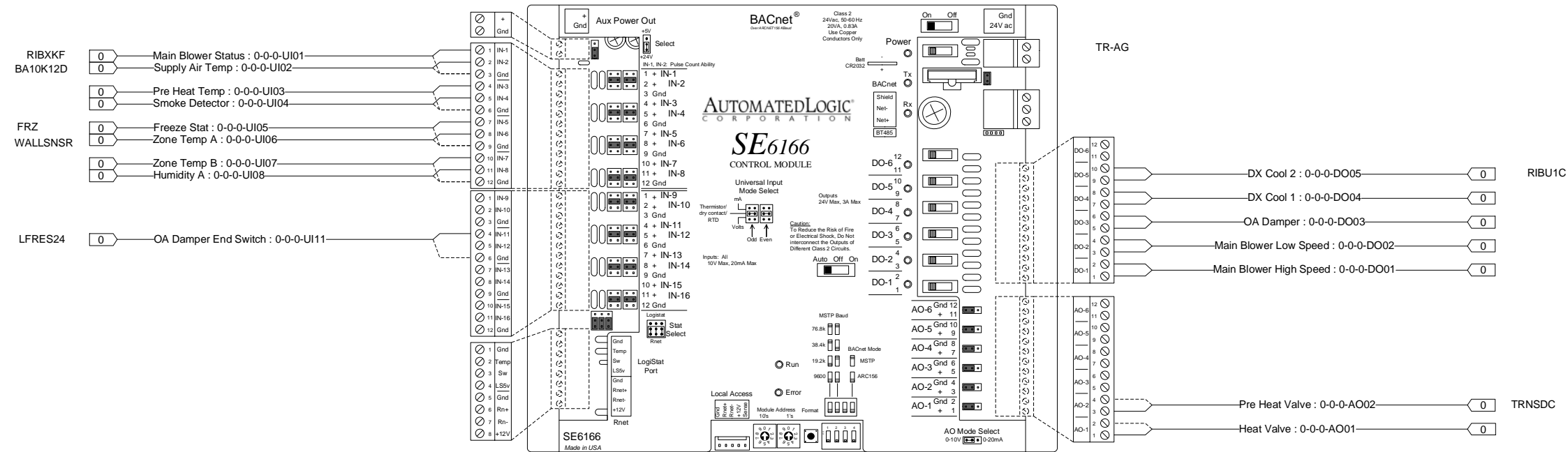


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AHU Control

Bill of Materials

DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
FRZ	FRZ	FRZ	FRZ	1 ea
LFRES24				1 ea
SE6166	SE6166	AUTOMATED LOGIC	SE6166	1 ea
TR-AG	TRANSFORMER, 120/24VAC 150VA W/CCT BREAKER	CORE COMPONENTS	LE-124	1 ea
ba10k12d	BA10K12D		BA10K12D	3 ea
ribu1c	PILOT RELAY 24 VAC DPDT W/ LED	FUNCTIONAL	RIBU1C	5 ea
ribxkf	CURRENT SWITCH .5-200 AMP SOLID CORE GO/NO GO	FUNCTIONAL	RIBXKF	2 ea
trnsdc				2 ea
wallsnsr	WALLSNSR	WALLSNSR	WALLSNSR	2 ea



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AHU Control

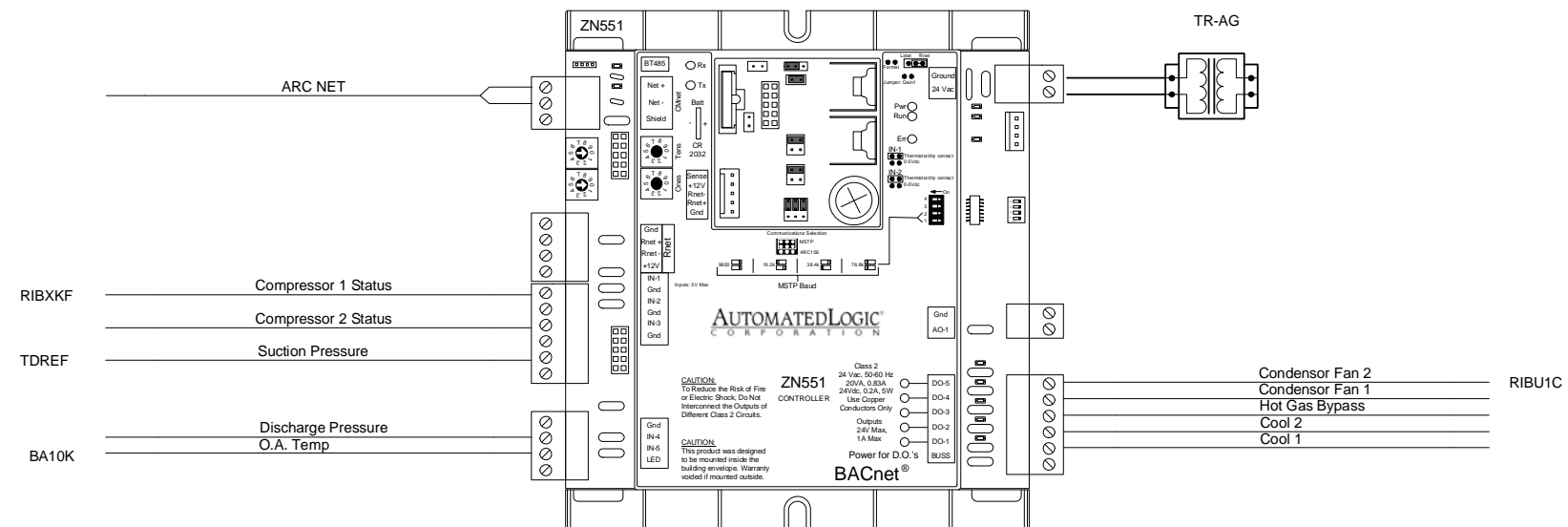
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Condensing Unit Control

Bill of Materials

DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
BA10K				1 ea
TR-AG	TRANSFORMER, 120/24VAC 150VA W/CCT BREAKER	CORE COMPONENTS	LE-124	11 ea
ZN551	ZN551	AUTOMATED LOGIC	ZN551	1 ea
ribu1c	PILOT RELAY 24 VAC DPDT W/ LED	FUNCTIONAL	RIBU1C	5 ea
ribxkf	CURRENT SWITCH .5-200 AMP SOLID CORE GO/NO GO	FUNCTIONAL	RIBXKF	2 ea
tdref				2 ea



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Condensing Unit Control

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