

ExactLogic Air Handlers

Any Town USA
USA

Your Submittal

1	Title Page
2	Network
3	VAV AHU EXL1812

DRAWING ISSUED LOG					
Date		Description	Date		Description
1:	June 2025	Valve Submittal	4:	4	4
2:	-	-	5:	5	5
3:	3	3	6:	6	6



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Integrated Building Solutions

Title Page

By: MJD

6/18/2025

ExactLogic Air Handlers

Job #: 250617

1 of 4



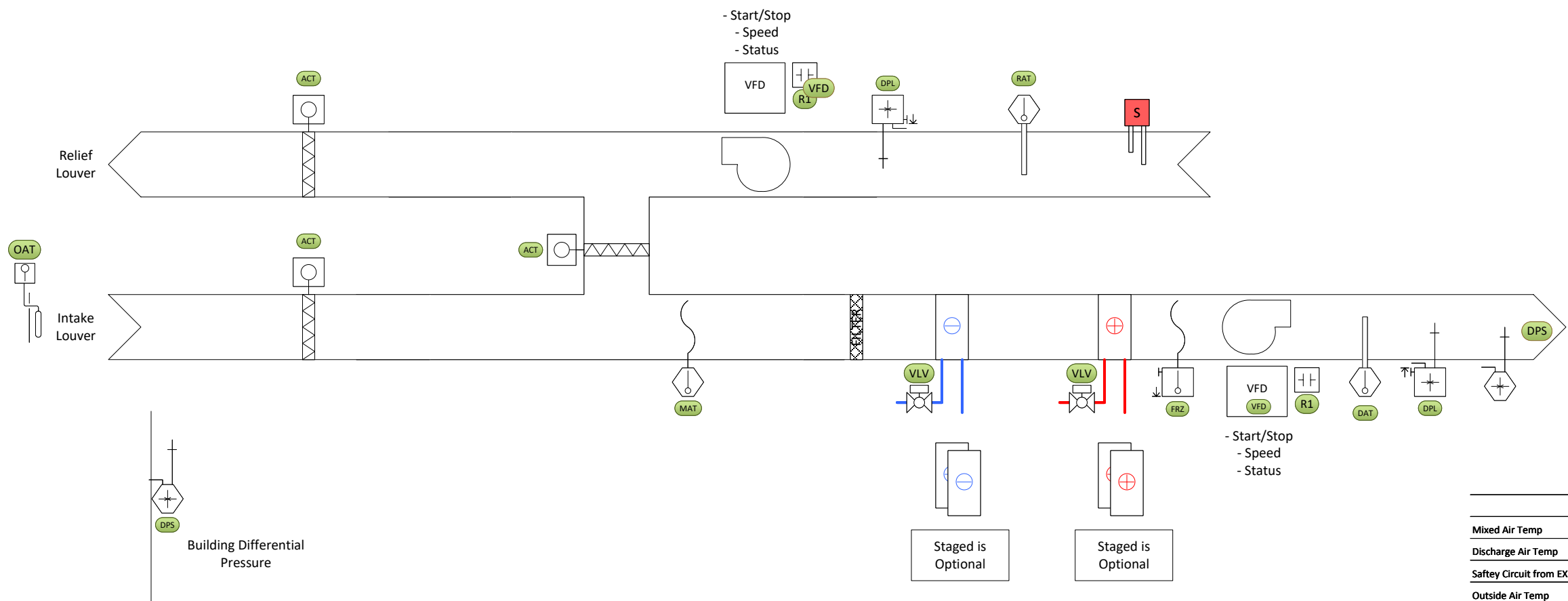
Air Handler Unit

Bill of Materials					
Tag	Stock #	Part #	Manufacturer	Description	Quantity
WEBHosted		EXL00614	ExactLogic	BACnet Wireless WEBHosted Router	1



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Network		
By: MJD		6/18/2025
ExactLogic Air Handlers		Job #: 250617
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	GND
	UI-02
Mixed Air Temp	UI-03
Discharge Air Temp	UI-04
Safety Circuit from EXL05110	UI-05
Outside Air Temp	UI-06
Return Air Temp	UI-07
Supply Fan Amps	UI-08
Return Fan Amps	UI-09
Economizer Feedback	UI-10
Supply Pressure	UI-11
Building Differential Pressure	UI-12
	GND
MSTP+	MSTP+
MSTP-	MSTP-

ExactLogic Controller

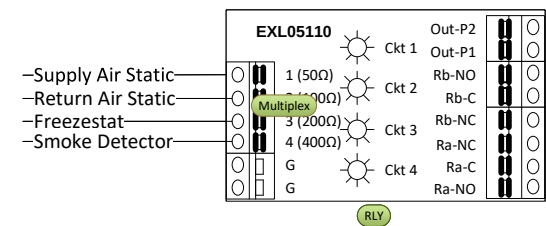


BOHot	24 VAC Power Source BO-0-4
BO-0	Supply Fan
BO-1	Cooling Stage 1
BO-2	Heating Stage 1
BO-3	Cooling Stage 2
BO-4	Heating Stage 2
BOHot2	24 VAC Power Source BO-6-8
BO-6	Return Fan
BO-7	BO-7
BO-8	BO-8
	GND
AO-0	Economizer 0-10Vdc
AO-1	Relief 0-10Vdc
AO-2	Supply Fan Speed
AO-3	Return Fan Speed

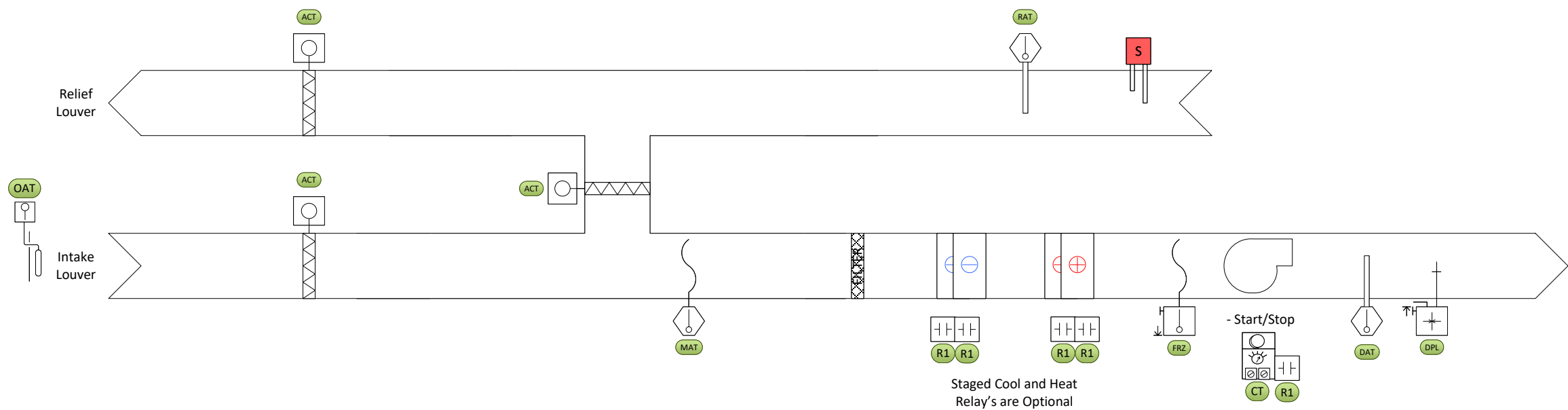
	GND
Cooling Modulation	AO-4
Heating Modulation	AO-5
Reheat Modulation	AO-6
	AO-7
	+19Vdc
	GND

	GND
	GND
	GND
V OUT+	Connect to BOHot
V OUT+	Connect to BOHot2
V OUT+	
GND	24 VAC Power Supply Ground
V IN+	24 VAC Power Supply Hot

Bill of Materials					
Tag	Stock #	Part #	Manufacturer	Description	Quantity
VLV		EXL11300-02-10-80-100	ExactLogic	Control Valve 2 Way 1 inch Cv8 Close Off 100 psi NSR	2
VFD		EXL06110	ExactLogic	VFD 480V 10HP	1
VFD		EXL06115	ExactLogic	VFD 480V 15HP	1
RLY	163388	EXL05110	ExactLogic	24 VAC/DC Multiplexer Relay 0-750 Ohms 4-Zones	1
R1	7930	EXL03013	ExactLogic	24Vac or dc Relay 20A 120-277V EXL03013	2
OAT		EXL04008	ExactLogic	Outside Air Sensor	1
Multiplex		EXL05110	ExactLogic	24 VAC Digital Multiplexer EXL05110	1
MAT		EXL03021	ExactLogic	Duct Average Temperature 24'	1
FRZ	540	EXL02050	ExactLogic	EXL02050 Low Temp Freezestat	1
DPS		EXL04003	ExactLogic	Building or Duct Pressure Sensor .5 1 2 selectable	1
DPS		EXL04007	ExactLogic	Duct Pressure Sensor 1 2 3 5 inch selectable	1
DPL		EXL04006	ExactLogic	Duct Pressure Switch	2
DAT		EXL03020	ExactLogic	DA/RA Discharge/Return Air Sensor Option EXL03020	2
Controller		EXL01819	ExactLogic	AHU 2H 2C Mod HC Econ VAV BDP	1
ACT		EXL04005	ExactLogic	Damper Actuator 18SF	3



 HUMERATECH® Integrated Building Solutions	AHU VAV EXL01819	
	By: MJD	6/18/2025
	ExactLogic Air Handlers	Job #: 250617 3 of 4



Bill of Materials					
Tag	Stock #	Part #	Manufacturer	Description	Quantity
RAT		EXL03020	ExactLogic	DA/RA Discharge/Return Air Sensor Option EXL03020	1
R1	7930	EXL03013	ExactLogic	24Vac or dc Relay 20A 120-277V EXL03013	5
OAT		EXL04008	ExactLogic	Outside Air Sensor	1
Multiplex		EXL05110	ExactLogic	24 VAC Digital Multiplexer EXL05110	1
MAT		EXL03021	ExactLogic	Duct Average Temperature 24'	1
FRZ	540	EXL02050	ExactLogic	EXL02050 Low Temp Freezestat	1
DPL		EXL04006	ExactLogic	Duct Pressure Switch	1
DAT		EXL03020	ExactLogic	DA/RA Discharge/Return Air Sensor Option EXL03020	1
CT		EXL03010	ExactLogic	CT-A Analog Current Sensor EXL03010	1
Controller	10444	EXL01812	ExactLogic	EXL01812 BACnet RTU or AHU with 2H/2C and Economizer	1
ACT		EXL04005	ExactLogic	Damper Actuator 18SF	3

	GND
External Room Temp	UI-02
Mixed Air Temp	UI-03
Discharge Air Temp	UI-04
Occupied Relay	UI-05
Return Air Temp	UI-06
Outside Air Temp	UI-07
Supply Fan Status	UI-08
Safety Status from EXL05110	UI-09
	UI-10
	UI-11
	UI-12
	GND
MSTP+	MSTP+
MSTP-	MSTP-

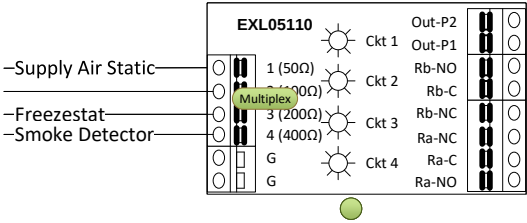
	GND
	AO-4
	AO-5
	AO-6
	AO-7
	+19Vdc
	GND

ExactLogic Controller



BOHot	24 VAC Power Source BO-0-4
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BOHot2	24 VAC Power Source BO-6-8
BO-6	
BO-7	
BO-8	
GND	
AO-0	Economizer 0-10Vdc
AO-1	
AO-2	
AO-3	

	GND
	GND
	GND
V OUT+	Connect to BOHot
V OUT+	Connect to BOHot2
V OUT+	
GND	24 VAC Power Supply Ground
V IN+	24 VAC Power Supply Hot



 Integrated Building Solutions	AHU EXL01812	
	By: MJD	6/18/2025
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