



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 2/4/2025

Return Request: 2/14/2025

Project: City Of Sherwood Public Works (Administration Building)

Supplier: Harrison Energy Partners

Manufacturer: Johnson Controls

Submittal: Air Terminal Units

Submittal Number: 23 36 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

ENGINEER

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

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CSUSA PROJECT NO.

24-6084

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



Submittal

Prepared For:
Cromwell Architects Engineers

Date:
12/10/2024

Sold To:
Comfort Systems USA

Job Name:
Sherwood Public Works

Harrison Energy Partners is pleased to provide the enclosed submittal for your review and approval.

Qty. Product Summary

11 Variable Air Volume Terminal Units (VAV-1-1 Thru 2-6)

Josh Robinson, New Systems Sales
501-539-0633 • harrisonenergy.com
Harrison Energy Partners • Commercial HVAC Excellence
1501 Westpark Dr., Ste. 9 • Little Rock, AR 72204

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Johnson Controls Variable Air Volume Terminal (VAV-1-1 Thru 2-6)

- Single Duct VAV
- Electric Heat as Specified
- Modulating Heat
- Non-fused Disconnect
- ¾" Closed Foam Insulation

SINGLE DUCT SCHEDULE - ELECTRIC HEAT

RESULTS																ELECTRIC HEAT										SOUND		
TAG	MFG	QTY	Elev ft	MODEL	SIZE	CONTROLS	MAX PRI CFM	MIN PRI CFM	INLET SP IN WC	MIN SP IN WC	DOWN SP IN WC	ARRANGEMENT	MCA **	MSCP **	WEIGHT lb	HEAT CFM	EAT DEG F	LAT DEG F	HTR KW	HTR AMPS	HTR VOLT	PHASE	STEPS	RAD NC	DIS NC	ATTEN METHOD		
VAV1-1	ABCS	1	0	TSS	06	SDJ-JC1305	350	105	1	0.31	0.25	LH Controls / LH Coil	26.04	30	62	175	55	100.14	2.5	20.83	120	1	M	15	-	AHRI-885E		
VAV1-2	ABCS	1	0	TSS	05	SDJ-JC1305	205	62	1	0.09	0.25	LH Controls / LH Coil	15.63	20	64	110	55	98.09	1.5	12.5	120	1	M	-	20	AHRI-885E		
VAV1-3	ABCS	1	0	TSS	08	SDJ-JC1305	455	140	1	0.08	0.25	RH Controls / RH Coil	31.25	35	71	230	55	96.22	3	25	120	1	M	15	-	AHRI-885E		
VAV1-4	ABCS	1	0	TSS	08	SDJ-JC1305	600	180	1	0.14	0.25	RH Controls / RH Coil	41.67	45	71	300	55	97.13	4	33.33	120	1	M	18	15	AHRI-885E		
VAV1-5	ABCS	1	0	TSS	06	SDJ-JC1305	380	115	1	0.36	0.25	LH Controls / LH Coil	26.04	30	62	190	55	96.58	2.5	20.83	120	1	M	15	-	AHRI-885E		
VAV2-1	ABCS	1	0	TSS	06	SDJ-JC1305	300	90	1	0.22	0.25	RH Controls / RH Coil	20.83	25	62	150	55	97.13	2	16.67	120	1	M	-	-	AHRI-885E		
VAV2-2	ABCS	1	0	TSS	04	SDJ-JC1305	155	50	1	0.06	0.25	LH Controls / LH Coil	10.42	15	64	80	55	94.5	1	8.33	120	1	M	15	21	AHRI-885E		
VAV2-3	ABCS	1	0	TSS	08	SDJ-JC1305	660	200	1	0.17	0.25	RH Controls / RH Coil	46.88	50	71	330	55	98.09	4.5	37.5	120	1	M	19	16	AHRI-885E		
VAV2-4	ABCS	1	0	TSS	04	SDJ-JC1305	155	50	1	0.06	0.25	RH Controls / RH Coil	10.42	15	64	80	55	94.5	1	8.33	120	1	M	15	21	AHRI-885E		
VAV2-5	ABCS	1	0	TSS	06	SDJ-JC1305	340	100	1	0.29	0.25	RH Controls / RH Coil	20.83	25	62	170	55	92.18	2	16.67	120	1	M	15	-	AHRI-885E		
VAV2-6	ABCS	1	0	TSS	06	SDJ-JC1305	340	310	1	0.29	0.25	RH Controls / RH Coil	20.83	25	62	155	55	95.78	2	16.67	120	1	M	15	-	AHRI-885E		

* "-" signifies a NC value (radiated or discharge) that is less than 15
* Actual coil APD shown is at max airflow, not heating airflow.
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.



VAV Submittal Form - Electric Heat

Job Name:	City of Sherwood - Admin	Date:	12/11/2024
ETI Order No:		Sales Rep:	

Tag Set	VAV1-1	** MCA	26.04
Quantity	1	** MSCP	30.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 20.83	20.83
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circamp	- Amps per circuit	: 20.83	20.83
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 2.50	2.50
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 06	Size 6
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 20.83	20.83
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing

** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.

TagSet Tags:

Tag Set	VAV1-2	** MCA	15.63
Quantity	1	** MSCP	20.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 12.50	12.50
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circamp	- Amps per circuit	: 12.50	12.50
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 1.50	1.50
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 05	Size 5
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 12.50	12.50
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV1-3	** MCA	31.25
Quantity	1	** MSCP	35.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 25.00	25.00
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 25.00	25.00
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 3.00	3.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 08	Size 8
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 25.00	25.00
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV1-4	** MCA	41.67
Quantity	1	** MSCP	45.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 33.33	33.33
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 33.33	33.33
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 4.00	4.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 08	Size 8
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 33.33	33.33
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV1-5	** MCA	26.04
Quantity	1	** MSCP	30.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 20.83	20.83
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circamp	- Amps per circuit	: 20.83	20.83
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 2.50	2.50
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 06	Size 6
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 20.83	20.83
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV2-1	** MCA	20.83
Quantity	1	** MSCP	25.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 16.67	16.67
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 16.67	16.67
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 2.00	2.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 06	Size 6
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 16.67	16.67
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV2-2	** MCA	10.42
Quantity	1	** MSCP	15.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 8.33	8.33
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circamp	- Amps per circuit	: 8.33	8.33
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 1.00	1.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 04	Size 4
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 8.33	8.33
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

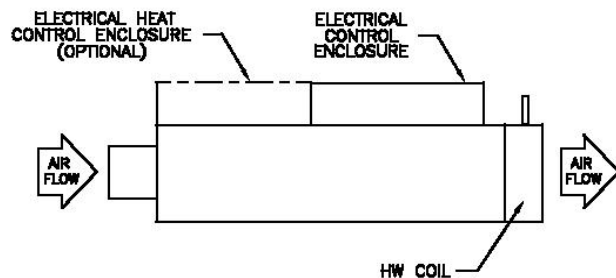
Tag Set	VAV2-3	** MCA	46.88
Quantity	1	** MSCP	50.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 37.50	37.50
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 37.50	37.50
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 4.50	4.50
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 08	Size 8
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 37.50	37.50
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV2-4	** MCA	10.42
Quantity	1	** MSCP	15.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 8.33	8.33
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 8.33	8.33
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 1.00	1.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 04	Size 4
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 8.33	8.33
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

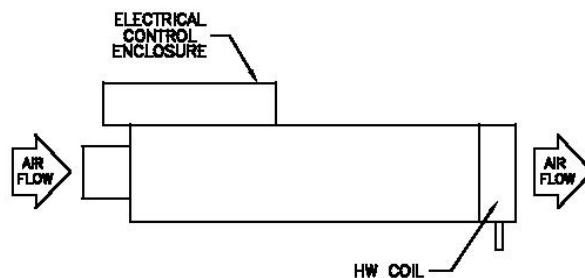
Tag Set	VAV2-5	** MCA	20.83
Quantity	1	** MSCP	25.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 16.67	16.67
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 16.67	16.67
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 2.00	2.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 06	Size 6
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 16.67	16.67
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

Tag Set	VAV2-6	** MCA	20.83
Quantity	1	** MSCP	25.00
Attribute	Description	Value	Value Description
acsplate	- Access plate	: no	No access panel
addrctlsrc	- Address Controller Source	: 0	No Addressing
amps	- Heater amps	: 16.67	16.67
arrngmnt	- Unit arrangement	: 3	3 - RH Controls / RH Coil
circamp	- Amps per circuit	: 16.67	16.67
contmeth	- Contactor Method	: 1	Magnetic
conttype	- Contactor Type	: 2	Magnetic disconnecting
ctlseq	- Controls	: SDJ-JC1305	Johnson Controls_F4-CVM03050_Integral_EH - Proportional (0-10V)
ctltype	- Control Type	: 7	Factory DDC
disctype	- Disconnect Type	: 3	Non-fused, door interlocking
ehvolt	- Line Voltage	: 120	120V line volt
Family	- Model	: TSS	Single Duct Variable Air Volume Terminal
fldencl	- Control Enclosure	: yes	Yes
fusingtype	- Fusing Type	: 3	None
htype	- Heating Type	: 3	Electric heat
jciAppNumber	- JCI App Number	: CV_12	CV_12
kw	- Heater kW	: 2.00	2.00
nocontactor	- Contactors (#)	: 1	1 contactor
Nooftransformer	- Transformer (#)	: 1	1 transformer
nopoies	- Contactor Poles	: 1	1 pole
phase	- Htr Phase	: 1	Single phase
primvolt	- Primary T'fmr V	: 120	120 volt/1 phase
size	- Unit Size	: 06	Size 6
spclinsul	- Fiberglass Options	: 3/4 inch CCF	3/4" Closed Cell Foam
ssramps	- SSR amps	: 16.67	16.67
SSRsignal	- Signal for SSR	: 0 - 10 VDC	0 - 10 VDC
steps	- Steps	: 0	modulating control
Transformer	- Transformer?	: yes	Yes
transize	- Transformer VA	: 50	50 VA transformer
wirelessflagmdl	- Wireless Flag Model Type	: 0	None
wirelessflagsrc	- Wireless Flag Source	: 0	No Addressing
** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.			
TagSet Tags:			

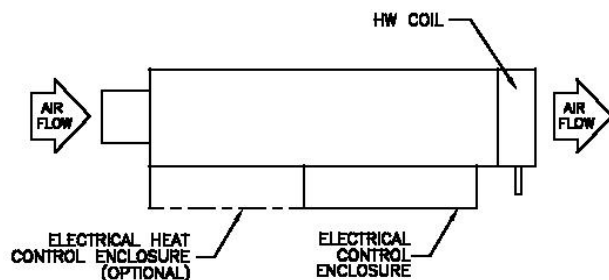
Job Name:	City of Sherwood - Admin	Date:	12/11/2024
Drawing Name:	TSS Arrangements	Sales Rep:	



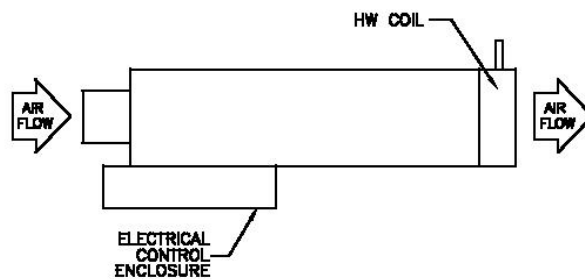
☐ **ARRANGEMENT 1**
LEFT HAND CONTROL UNIT
WITH LEFT HAND COIL



☐ **ARRANGEMENT 2**
LEFT HAND CONTROL UNIT
WITH RIGHT HAND COIL



☐ **ARRANGEMENT 3**
RIGHT HAND CONTROL UNIT
WITH RIGHT HAND COIL



☐ **ARRANGEMENT 4**
RIGHT HAND CONTROL UNIT
WITH LEFT HAND COIL

NOTES:

1. ELECTRIC HEATING CONTROL ENCLOSURE IS ON THE SAME SIDE AS STANDARD CONTROL ENCLOSURE.
2. ELECTRIC HEAT ONLY AVAILABLE ON ARRANGEMENTS 1 & 3.
3. ELECTRIC HEAT NOT AVAILABLE WITH HW COIL.



TITLE: ARRANGEMENTS – MODEL: TSS

OWN BY SM	DATE 01/21/04	SCALE NA	DRAWING NO.
CHK BY KM	DATE 11/17/04	REV 01	01-80012-J

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UNAUTHORIZED DISCLOSURE, REPRODUCTION, OR USE
IS STRICTLY PROHIBITED WITHOUT WRITTEN PERMISSION

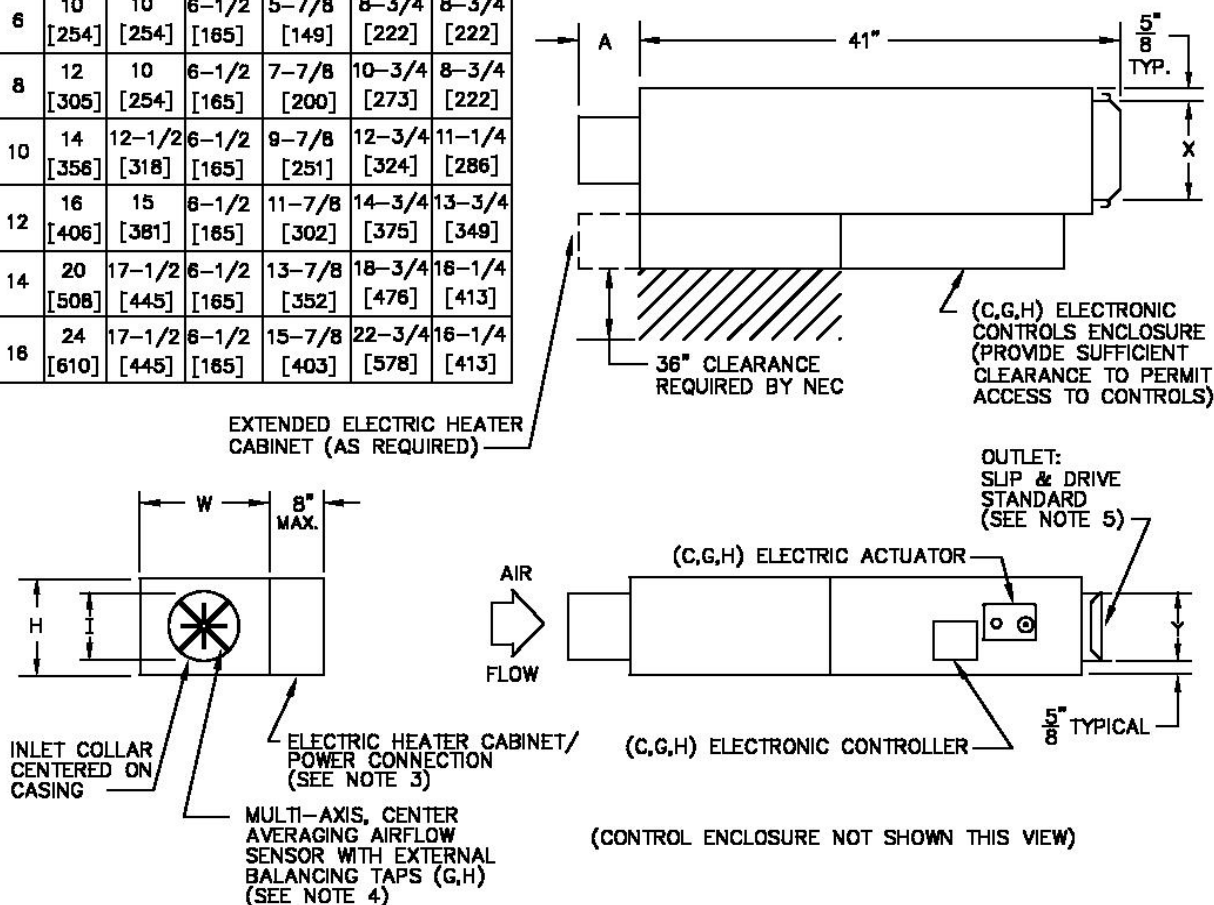
DO NOT SCALE DRAWING
DIMENSIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.
CONTACT FACTORY FOR CERTIFIED DIMENSIONS.

Job Name:	City of Sherwood - Admin	Date:	12/11/2024
Drawing Name:	TSS-EH Dimensional Drawing	Sales Rep:	

DIMENSIONAL DATA

UNIT SIZE	W	H	A	I	X	Y
4	10 [254]	10 [254]	10-1/2 [267]	3-7/8 [98]	8-3/4 [222]	8-3/4 [222]
5	10 [254]	10 [254]	10-1/2 [267]	4-7/8 [124]	8-3/4 [222]	8-3/4 [222]
6	10 [254]	10 [254]	6-1/2 [165]	5-7/8 [149]	8-3/4 [222]	8-3/4 [222]
8	12 [305]	10 [254]	6-1/2 [165]	7-7/8 [200]	10-3/4 [273]	8-3/4 [222]
10	14 [356]	12-1/2 [318]	6-1/2 [165]	8-7/8 [251]	12-3/4 [324]	11-1/4 [286]
12	16 [406]	15 [381]	8-1/2 [165]	11-7/8 [302]	14-3/4 [375]	13-3/4 [349]
14	20 [508]	17-1/2 [445]	6-1/2 [165]	13-7/8 [352]	18-3/4 [476]	16-1/4 [413]
16	24 [610]	17-1/2 [445]	6-1/2 [165]	15-7/8 [403]	22-3/4 [578]	16-1/4 [413]

DOWNSTREAM P_s MUST BE
0.07 INCHES WATER GAUGE
OR GREATER.



CONSTRUCTION NOTES:

1. MATERIAL: Galvanized steel; Casing -22 gauge; Air valve casing -22 gauge.
2. INSULATION: 1/2" thick fiberglass complying with NFPA 90-A and UL 181.
3. POWER CONNECTION: Units have single point power connection for compatible voltages only. Non-compatible voltages require two separate connections.
4. AIRFLOW SENSOR: Sizes 4 & 5 utilize single-axis linear averaging type.
5. INSTALLATION: A) If internal insulation is utilized in the downstream ductwork, the insulation must be secured in such a manner that no raw insulation edges are exposed to the airstream.
B) Inlet & Outlet collars should be externally insulated by others (in the field) if required.
C) Minimum of 1 1/2 equivalent duct diameters of straight inlet duct required to assure proper heater operation.

NOTE: All drawings subject to change without prior notice.

(G) PRESSURE INDEPENDENT - SERIES SD700

(C) TEMPERATURE RESPONSIVE - SERIES SD600

(H) DIRECT DIGITAL PRESSURE INDEPENDENT - SERIES SD800 & SD900



MODEL TSS-EH SINGLE DUCT
TERMINAL UNIT
ELECTRONIC CONTROLS

REV	BY	DATE	SCALE	DRAWING NO.
001	CV	11/06/02	N/A	15853-J
002	WH	6/28/08	03	

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