

**SHOP
DRAWING
REVIEW**

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NOT REVIEWED
REVIEWED
REVIEWED AS NOTED
REVISE AND RESUBMIT

This review by Hilditch Architect Inc. is for the sole purpose of ascertaining conformance with the general design concept features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that Hilditch Architect Inc. approves the design detail inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of the work of all trades.

Hilditch Architect Inc.

By: Sasha Stairs

Project No: 1809

Date Rec'd:

Date Rev'd: 2024.12.13

GC/CM: 2024.12.11

Consultant: 2024.12.12

HAL; reviewed for architectural only; 28 pages total:

1. GC to coordinate VAV box locations with other ceiling systems and finished ceiling heights as per issued RCPs.
2. Advise Consultant of any change in overall ceiling height. In the event VAV box will be below finished ceiling, VAV should be located near wall with bulkhead installed to conceal.

Submittal No. 30

VAV - Shop Drawing

Project Name:
Neshama Hospice

Owner:
Neshama

Prime Consultant:
Hilditch Architect Inc

General Contractor: Renokrew

SHOP DRAWING SUBMITTAL REVIEW	JOB NAME Neshama Hospice JOB # 24-130 DATE Dec 11, 2024
REVIEWED ☐ REJECTED ☐ REVIEW & RESUBMIT ☐ REVIEW AS NOTED ☐	This review is for general conformance of plans and specifications only. Approvals are subject to subcontractors performance within the confines of the contract documents. Review of dimensions will not serve to relieve the subcontractor of contractual responsibility for any deviation from the contract requirements. SPECIFICATION 23 08 10 ✓ SHOP DRAWING PRODUCT DATA DOCUMENTATION LETTER RENOKREW TORONTO OTTAWA CHECKED BY: REVIEWED BY: TOTAL PAGES: 28



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Submittal 24-256-018

PROJECT NAME	PROJECT ADDRESS	DATE SUBMITTED
NESHAMA HOSPICE	24-256 3 Cadillac Avenue North York, ON M3H 1R9	Dec 11, 2024

TO	FROM
Taranjeet Singh	PAUL LEDDY
COMPANY	COMPANY
1568796 ONTARIO INC. C/A RENOKREW	Consult Mechanical Inc.
EMAIL	EMAIL
taranjeet@renokrew.com	paul.l@consultmechanical.com
ADDRESS	ADDRESS
43 LEPAGE COURT TORONTO, ON M3J 1Z9	54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title

VAV's

Description

Tag VAV 2-1 to VAV-2-6 York Model TVS
Tag VAV B-1 York Model TVS

Package Items

SPEC	SUBSECTION	ITEM	TYPE
M15 Schedule of Equipment	M15	Schedule of Equipment	Shop Drawings



EQUIPMENT SUBMITTAL FOR APPROVAL

PROJECT: Neshama Hospice

LOCATION: 65 Dundas St. E



EQUIPMENT	TVS Parallel-Flow, Variable-Volume, Fan-Powered
UNIT TAGS	VAV-2-1 to 6, VAV-B1
QUANTITY	7

SOLD TO:

Consult Mechanical Inc.

CONSULTING ENGINEER:

PREPARED BY:

Johnson Controls, Inc.

Bintao Li

Mobile: 416-797-8649

Email : bintao.li@jci.com

DATE:

Dec. 9th, 2024

REVISION:

0



EQUIPMENT DESCRIPTIONS

III VAV BOXES

NO.	MODEL	SIZE	AIR FLOW		
			MIN.	MAX.	DESIGNED
VAV-2-1	TVS	0806E	105	580	580
VAV-2-2	TVS	1018E	165	1280	1280
VAV-2-3	TVS	0606E	53	230	230
VAV-2-4	TVS	0811E	105	500	500
VAV-2-5	TVS	1018E	165	1410	1410
VAV-2-6	TVS	0606E	53	180	180
VAV-B-1	TVS	0811E	105	922	922

c/w ddc controller, hot water coil, control valve

SustainGlobe:

1. VAV boxes DDC controller shall include MS/TP BACnet system network and series controller, wall sensor/thermostat, primary air sensor, field mounted duct sensor, BAC controller/ actuator, toggle switch and Ethernet cable.
2. VAV boxes shall be completed with 3-wire 3-way floating point modulating control valves.
3. VAV boxes shall be completed with foil faced insulation & 25mm disposable air filter.

SustainGlobe Ltd.

THIS DRAWING REVIEWED SOLELY FOR GENERAL CONFORMITY WITH DESIGN CONCEPTS. QUANTITIES, DETAILS, DIMENSIONS AND DESIGNS INHERENT IN THE SHOP DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DATA WITH FIELD DIMENSIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN OF MANUFACTURED ITEMS, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND INSTALLATION OF EQUIPMENT.!

DATE RECEIVED:

February 01, 2024

☒ MECHANICAL

☐ ELECTRICAL

☐ OTHERS

THIS DRAWING IS:

☐ REVIEWED

☒ REVIEWED AS NOTED

☐ REVIEWED AND
TO BE RESUBMIT

BY: TL

DATE: February 16, 2024

PROJ. NO.: 22027!

TAG	MFG QTY	ELEV ft	MODEL	SIZE	CONTROL SEQUENCE	RESULTS					FAN					HEAT					HOT WATER																
						MAX PRI CFM	MIN PRI CFM	PAFH CFM	INLET SP in. wg	MIN SP in. wg	DOWN SP in. wg	ARRANGEMENT	MCA "	MSCP "	WEIGHT lb	FAN CFM	MOTOR TYPE	FAN VOLTS	FAN FLA	FAN HP	FAN Watts	FAN RPM	HEAT CFM	EAT DEG F	LAT DEG F	BOX LAT DEG F	CAPACITY MBH	COIL ROWS	CKTS	WPD DEG F	EWT DEG F	LWT DEG F	COIL APD in. wg	FLUID GPM	Glycol Type	Glycol Pct	
VAV-2.1	JCI	1	0	TVS	0806E	580	105	580	0.75	0.06	0.25	LH Controls / LH Coil	6.25	15.00	62	580	ECM Motor	120	5	1/3				580	75	93.45	74.23	11.65	1	2	0.27	170	146.98	0.03	1.09	Propylene	40
VAV-2.2	JCI	1	0	TVS	1018E	1280	165	1280	0.75	0.02	0.25	LH Controls / LH Coil	9.63	15.00	107	1280	ECM Motor	120	7.7	1/2				1280	75	98.11	76.56	32.2	1	2	2.29	170	150	0.06	3.45	Propylene	40
vav-2.3	JCI	1	0	TVS	0806E	230	53	230	0.75	0.04	0.25	LH Controls / LH Coil	6.25	15.00	60	230	ECM Motor	120	5	1/3				230	75	101.73	78.37	6.69	1	2	0.13	170	150.08	0.01	0.72	Propylene	40
VAV-2.4	JCI	1	0	TVS	0811E	500	105	500	0.75	0.04	0.25	LH Controls / LH Coil	9.63	15.00	62	500	ECM Motor	120	7.7	1/2				500	75	98.18	76.59	12.62	1	2	0.4	170	149.97	0.03	1.35	Propylene	40
VAV-2.5	JCI	1	0	TVS	1018E	1410	165	1410	0.75	0.02	0.25	LH Controls / LH Coil	9.63	15.00	112	1410	ECM Motor	120	7.7	1/2				1410	75	111.33	83.17	55.77	2	4	1.48	170	145.73	0.14	4.93	Propylene	40
VAV-2.6	JCI	1	0	TVS	0806E	180	53	180	0.75	0.03	0.25	LH Controls / LH Coil	6.25	15.00	60	180	ECM Motor	120	5	1/3				180	75	105.8	80.4	6.04	1	2	0.1	170	149.47	0	0.63	Propylene	40
VAV-B1	JCI	1	0	TVS	0811E	922	105	922	0.75	0.13	0.25	LH Controls / LH Coil	9.63	15.00	66	922	ECM Motor	120	7.7	1/2				922	75	101.85	78.43	26.95	2	4	0.34	170	145.92	0.14	2.4	Propylene	40

Sound Data

RESULTS				SOUND				RAD SOUND POWER								DIS SOUND POWER								RAD SOUND POWER (FAN)								DIS SOUND POWER (FAN)							
TAG	MFG	QTY	ELEV ft	MODEL	SIZE	RAD NC	DIS NC	RAD NC (Fan)	DIS NC (Fan)	ATTEN METHOD	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K					
VAV-2.1	JCI	1	0	TVS	0806E	20	18	39	25	AHRI-885E	58	49	44	37	33	29	33	29	65	57	51	45	40	37	73	67	61	58	56	55	71	65	60	57	53	53			
VAV-2.2	JCI	1	0	TVS	1018E	30	24	36	22	AHRI-885E	66	56	49	42	36	33	70	62	55	50	43	41	70	63	61	59	55	54	69	61	59	57	53	53					
vav-2.3	JCI	1	0	TVS	0606E	-	-	26	-	AHRI-885E	48	41	38	33	28	28	58	51	44	35	31	30	62	54	52	47	43	40	61	55	50	42	38	37					
VAV-2.4	JCI	1	0	TVS	0811E	18	15	29	16	AHRI-885E	56	47	42	36	31	28	63	55	49	43	38	35	65	58	53	50	47	41	64	56	53	48	44	40					
VAV_2.5	JCI	1	0	TVS	1018E	32	26	37	25	AHRI-885E	68	58	51	44	38	34	72	64	57	52	45	43	71	65	62	61	57	56	71	63	61	59	55	56					
VAV-2.6	JCI	1	0	TVS	0606E	-	-	26	-	AHRI-885E	47	40	37	32	27	28	57	49	43	34	30	29	62	54	52	47	43	40	61	55	50	42	38	37					
VAV-B1	JCI	1	0	TVS	0811E	29	28	37	26	AHRI-885E	65	55	49	42	37	31	73	65	57	51	45	44	70	65	62	61	56	55	72	65	63	62	56	54					



Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac								Date:				11/12/2024												
ETI Order No:												Sales Rep:																
RESULTS																		FAN										
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV-2-1	1	0	TVS	0806E	FPC- FL010	580	105	580	0.75	0.06	0.25	5	6.25	15.00	62	580			ECM Motor	120								
SOUND					RAD SOUND POWER					DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)						
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
20	18	39	25	AHRI-885E	58	49	44	37	33	29	65	57	51	45	40	37	73	67	61	58	56	55	71	65	60	57	53	53

* "-" 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.
Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water											
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Glycol Type	Glycol Pct
580	75.00	93.45	12	170.00	146.98	0.03	1.09	1	0.27	Propylene	40

Selection Details

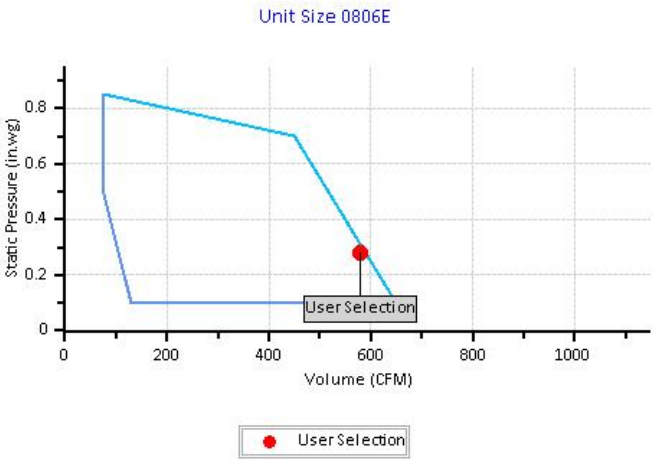
Tag	VAV-2-1		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 2	Two circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 1	1 row
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 0806E	8 valve w/ 6 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac							Date:				11/12/2024													
ETI Order No:											Sales Rep:																	
RESULTS																	FAN											
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV-2-2	1	0	TVS	1018E	FPC- FL010	1280	165	1280	0.75	0.02	0.25	7.7	9.63	15.00	107	1280			ECM Motor	120								
SOUND					RAD SOUND POWER						DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)					
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
30	24	36	22	AHRI-885E	66	56	49	42	36	33	70	62	55	50	43	41	70	63	61	59	55	54	69	61	59	57	53	53

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** MCA/MSCP number may vary from unit nameplate due to component changes related to actual product selections and devices applied.
Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water											
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Gycol Type	Glycol Pct
1280	75.00	98.11	32	170.00	150.00	0.06	3.45	1	2.29	Propylene	40

Selection Details

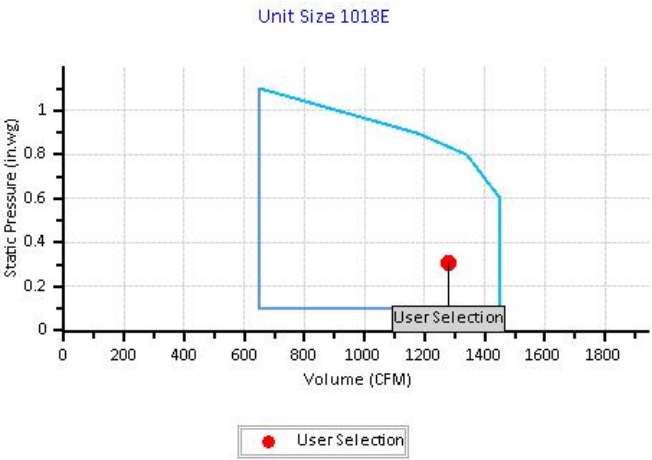
Tag	VAV-2-2		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 2	Two circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 1	1 row
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 1018E	10 valve w/ 18 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac							Date:				11/12/2024													
ETI Order No:											Sales Rep:																	
RESULTS																	FAN											
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
vav-2-3	1	0	TVS	0606E	FPC- FL010	230	53	230	0.75	0.04	0.25	5	6.25	15.00	60	230			ECM Motor	120								
SOUND					RAD SOUND POWER						DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)					
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
-	-	26	-	AHRI-885E	48	41	38	33	28	28	58	51	44	35	31	30	62	54	52	47	43	40	61	55	50	42	38	37

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Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water													
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Glycol Type	Glycol Pct		
230	75.00	101.73	7	170.00	150.08	0.01	0.72	1	0.13	Propylene	40		

Selection Details

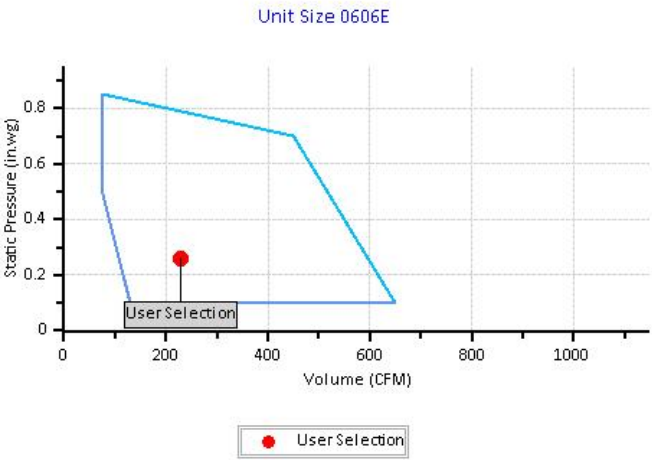
Tag	vav-2-3		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 2	Two circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 1	1 row
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 0606E	6 valve w/ 6 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac								Date:				11/12/2024												
ETI Order No:												Sales Rep:																
RESULTS																		FAN										
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV-2-4	1	0	TVS	0811E	FPC- FL010	500	105	500	0.75	0.04	0.25	7.7	9.63	15.00	62	500			ECM Motor	120								
SOUND					RAD SOUND POWER						DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)					
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
18	15	29	16	AHRI-885E	56	47	42	36	31	28	63	55	49	43	38	35	65	58	53	50	47	41	64	56	53	48	44	40

* "-" signifies a NC value (radiated or discharge) that is less than 15

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Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

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Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Glycol Type	Glycol Pct
500	75.00	98.18	13	170.00	149.97	0.03	1.35	1	0.40	Propylene	40

Selection Details

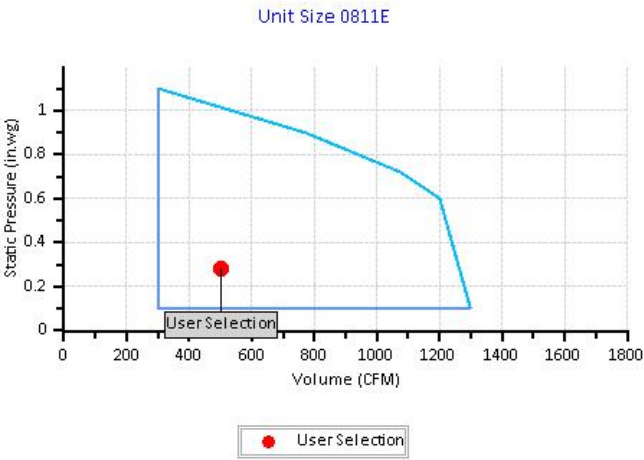
Tag	VAV-2-4		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 2	Two circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 1	1 row
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 0811E	8 valve w/ 11 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac							Date:				11/12/2024													
ETI Order No:											Sales Rep:																	
RESULTS																	FAN											
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV_2-5	1	0	TVS	1018E	FPC- FL010	1410	165	1410	0.75	0.02	0.25	7.7	9.63	15.00	112	1410			ECM Motor	120								
SOUND					RAD SOUND POWER						DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)					
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
32	26	37	25	AHRI-885E	68	58	51	44	38	34	72	64	57	52	45	43	71	65	62	61	57	56	71	63	61	59	55	56

* "-" 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.
Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water											
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Glycol Type	Glycol Pct
1410	75.00	111.33	56	170.00	145.73	0.14	4.93	2	1.48	Propylene	40

Selection Details

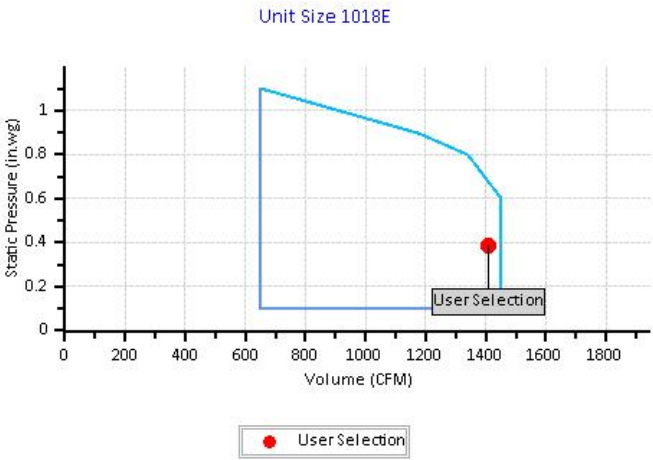
Tag	VAV_2-5		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 4	Four circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 2	2 rows
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 1018E	10 valve w/ 18 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac							Date:				11/12/2024													
ETI Order No:											Sales Rep:																	
RESULTS																	FAN											
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV-2-6	1	0	TVS	0606E	FPC-FL010	180	53	180	0.75	0.03	0.25	5	6.25	15.00	60	180			ECM Motor	120								
SOUND					RAD SOUND POWER					DIS SOUND POWER					RAD SOUND POWER (FAN)					DIS SOUND POWER (FAN)								
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
-	-	26	-	AHRI-885E	47	40	37	32	27	28	57	49	43	34	30	29	62	54	52	47	43	40	61	55	50	42	38	37

* "-" 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.
Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water													
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Glycol Type	Glycol Pct		
180	75.00	105.80	6	170.00	149.47	0.00	0.63	1	0.10	Propylene	40		

Selection Details

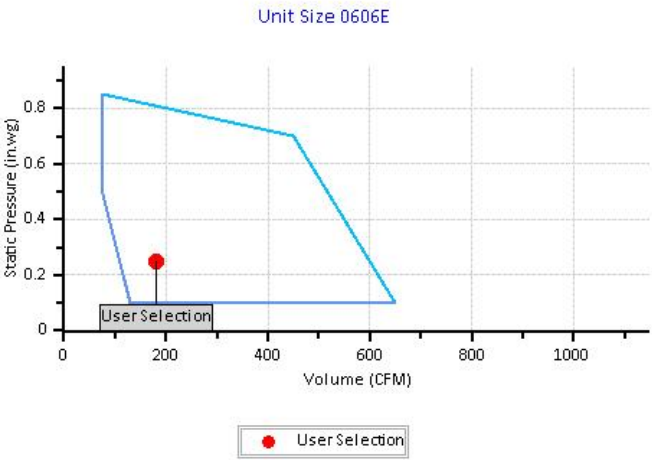
Tag	VAV-2-6		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 2	Two circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 1	1 row
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 0606E	6 valve w/ 6 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve





Fan Powered VAV Selection Summary Detail

Job Name:				Neshama Hospice - 3 cadillac							Date:				11/12/2024													
ETI Order No:											Sales Rep:																	
RESULTS																	FAN											
Tag	Qty	Elev ft	Model	Size	Controls	Max Pri CFM	Min Pri CFM	PAFH CFM	Inlet SP in w.c.	Min SP in w.c.	Down SP in w.c.	Total FLA	MCA**	MSCP**	Weight lb	Fan CFM	Fan Watts	Fan RPM	Motor Type	Motor Volts								
VAV-B1	1	0	TVS	0811E	FPC- FL010	922	105	922	0.75	0.13	0.25	7.7	9.63	15.00	66	922			ECM Motor	120								
SOUND					RAD SOUND POWER						DIS SOUND POWER						RAD SOUND POWER (FAN)						DIS SOUND POWER (FAN)					
Rad NC	Dis NC	Rad NC (Fan)	Dis NC (Fan)	Atten Method	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K	125	250	500	1K	2K	4K
29	28	37	26	AHRI-885E	65	55	49	42	37	31	73	65	57	51	45	44	70	65	62	61	56	55	72	65	63	62	56	54

* "-" 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.
Fan powered EH units with Dual Power Connection MCA and MSCP shown as 'Fan / EH'.

Hot Water											
Heat CFM	EAT DEG F	LAT DEG F	WCoil Cap MBH	EWT DEG F	LWT DEG F	COIL APD in w.c.	Flow Rate GPM	Rows	WPD ft. wg	Gycol Type	Glycol Pct
922	75.00	101.85	27	170.00	145.92	0.14	2.40	2	0.34	Propylene	40

Selection Details

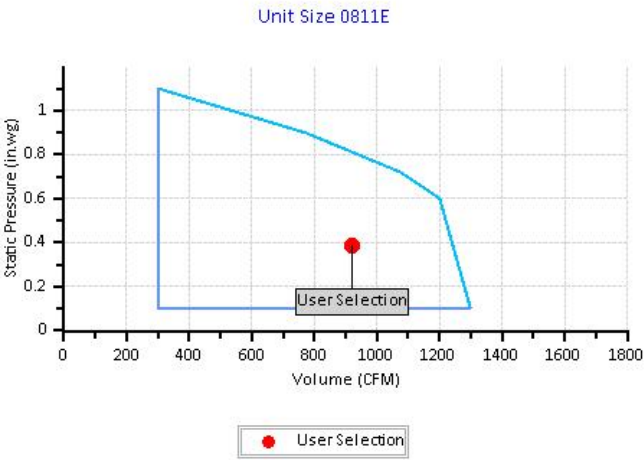
Tag	VAV-B1		
Quantity	1		
Attribute	Description	Value	Value Description
20ga	- 20 ga casing	: yes	Yes
addrctlsrc	- Address Controller Source	: 0	No Addressing
arrngmnt	- Unit arrangement	: 1	1 - LH Controls / LH Coil
circ	- Coil circ(#)	: 4	Four circuit
ctlseq	- Controls	: FPC-FL010	Field-provided__M9104-IGA-3S_No Heat or HW
ctltype	- Control Type	: 5	Field DDC
disch	- Discharge Option	: ducted	Ducted Discharge
ecm	- ECM Motor	: yes	Yes
Family	- Model	: TVS	Parallel Flow Fan Powered Terminal
fldencl	- Control Enclosure	: yes	Yes
htype	- Heating Type	: 1	Water heat
hwrows	- Coil Rows (#)	: 2	2 rows
isb	- Sound baffle	: yes	Yes
motor_control	- Motor Control	: Solo	Solo (Manual Adjust)
mtrvolt	- Motor voltage	: 120	120V motor
Nooftransformer	- Transformer (#)	: 1	1 transformer
size	- Unit Size	: 0811E	8 valve w/ 11 fan - ECM
spclinsul	- Fiberglass Options	: standard	Standard Fiberglass
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

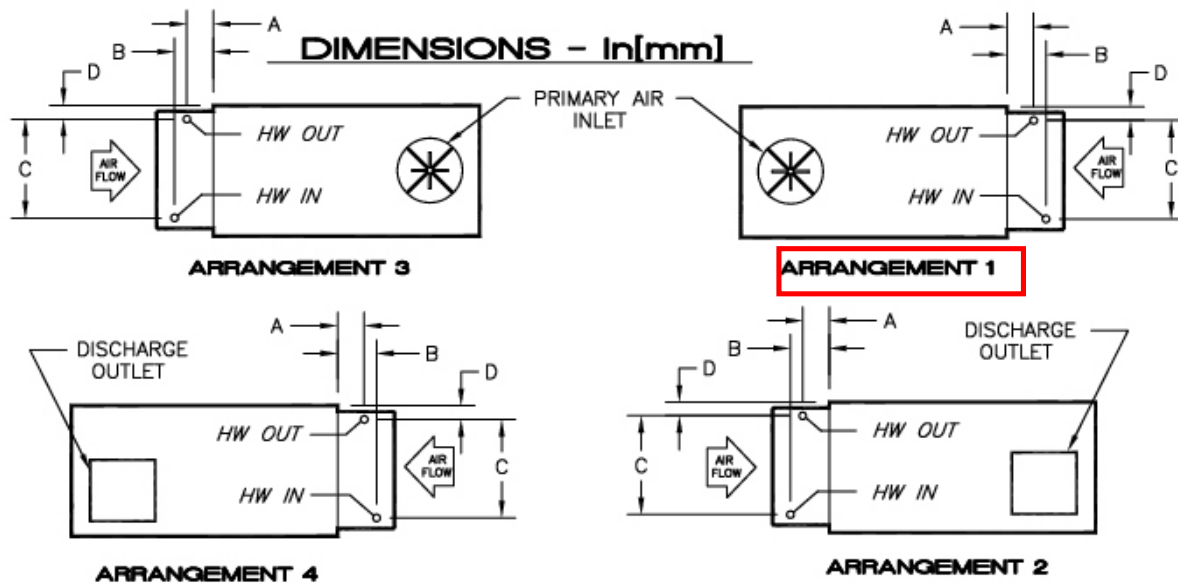
Specials

- SQ1
- SQ2
- SQ3
- SQ4

Fan Curve



Job Name:	Neshama Hospice - 3 cadillac	Date:	11/12/2024
Drawing Name:	TVS_WC 1 n 2 Row 07-80000	Sales Rep:	



1 ROW STD AND MULTI-CKT				
UNIT SIZE	A	B	C	D
04-08	3-7/16 [87]	3-7/16 [87]	11-1/4 [286]	1-1/16 [27]
10-12			13-3/4 [349]	1-5/16 [33]
14-16			16-1/4 [413]	1-1/16 [27]

2 ROW STD				
UNIT SIZE	A	B	C	D
04-08	2-7/8 [73]	2-7/8 [73]	11-1/4 [286]	1-3/8 [35]
10-12			13-3/4 [349]	1-5/8 [41]
14-16			16-1/4 [413]	1-3/8 [35]

2 ROW MULTI-CKT				
UNIT SIZE	A	B	C	D
04-08	2-3/8 [60]	3-7/16 [87]	11-1/4 [286]	1-3/8 [40]
10-12			13-3/4 [349]	1-5/8 [41]
14-16			16-1/4 [413]	1-3/8 [40]

NOTES:

1. All dimensions are Inches [millimeters].
2. All dimensions are $\pm 1/2"$ [13mm]. Metric values are soft conversion.
3. All connections are ODM sweat unless otherwise noted.

CONNECTION SIZES		
COIL ROWS	STANDARD	MULTI-CKT
1 ROW	1/2"[13]	5/8"[16]
2 ROW	5/8"[16]	5/8"[16]



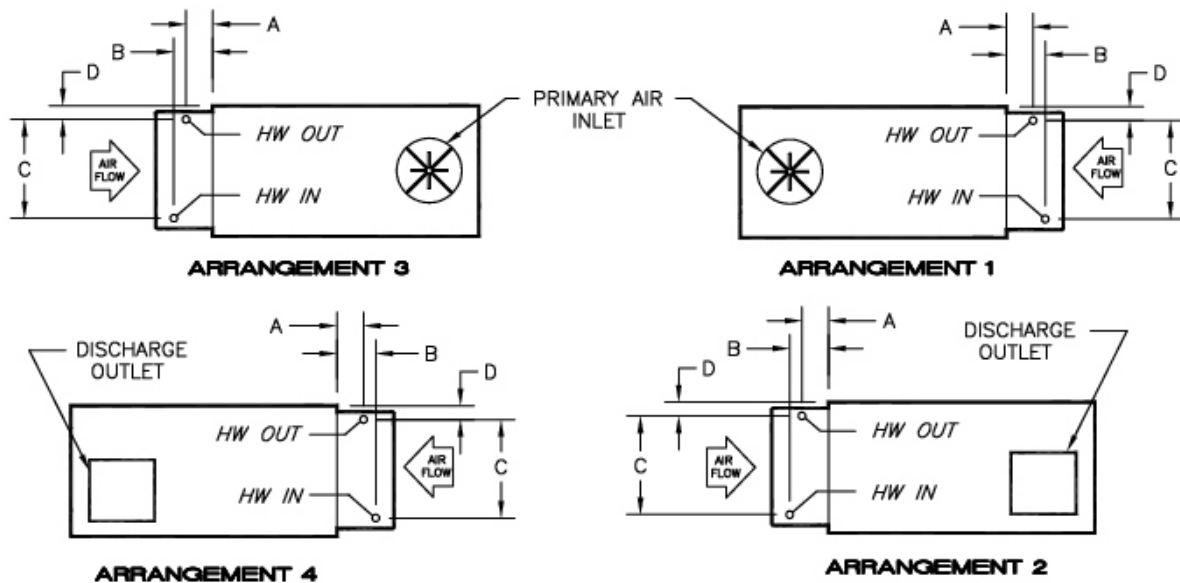
TITLE: MODEL TVS-WC
WATER COIL CONNECTIONS
1 AND 2 ROWS
SERIES C

DRN BY: JCR	DATE: 9/26/03	SCALE: NA	DRAWING NO.
CHK BY: DB	DATE: 9/8/08	REV: 01	07-80000-J

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CONTACT FACTORY FOR CERTIFIED DRAWINGS.

Job Name:	Neshama Hospice - 3 cadillac	Date:	11/12/2024
Drawing Name:	TVS_WC 1 n 2 Row 07-80001	Sales Rep:	



DIMENSIONS - In[mm]

3 ROW STD AND MULTI-CKT				
UNIT SIZE	A	B	C	D
04-08			11-1/4 [286]	1-3/8 [35]
10-12	2-3/8 [60]	4-1/2 [114]	13-3/4 [349]	1-5/8 [41]
14-16			16-1/4 [413]	

4 ROW STD AND MULTI-CKT				
UNIT SIZE	A	B	C	D
04-08			11-1/4 [286]	1-3/8 [35]
10-12	1-1/4 [32]	4-1/2 [114]	13-3/4 [349]	1-5/8 [41]
14-16			16-1/4 [413]	

NOTES:

1. All dimensions are Inches [millimeters].
2. All dimensions are $\pm 1/2"$ [13mm]. Metric values are soft conversion.
3. All connections are ODM sweat unless otherwise noted.

CONNECTION SIZES		
COIL ROWS	STANDARD	MULTI-CKT
3 ROW	7/8"[22]	7/8"[22]
4 ROW	7/8"[22]	7/8"[22]



TITLE: MODEL TVS-WC
WATER COIL CONNECTIONS
3 AND 4 ROWS
SERIES C

DRN BY: JCR	DATE: 9/29/03	SCALE: NA	DRAWING NO.
CKD BY: DPB	DATE: 11/7/08	REV: 01	

07-80001-J

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CONTACT FACTORY FOR CERTIFIED DRAWINGS.

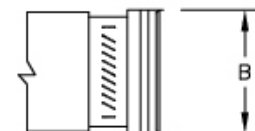
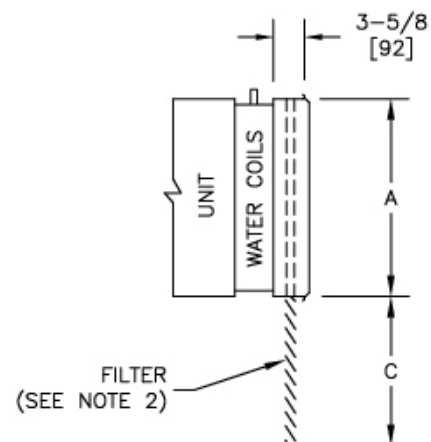
Job Name:	Neshama Hospice - 3 cadillac	Date:	11/12/2024
Drawing Name:	TVS_WC Induction Inlet options 07-80020	Sales Rep:	

DIMENSIONS - In [mm]

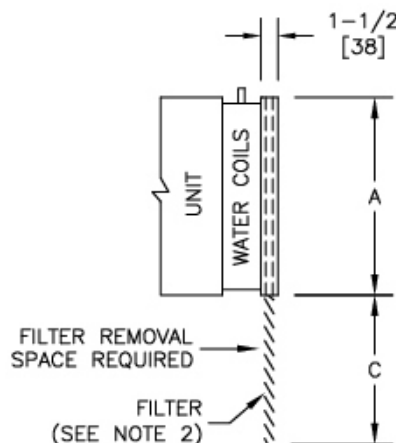
UNIT SIZE	A	B	C	FILTER SIZES
04	24 [610]	14 [356]	24 [610]	14 X 24 X 1
08	24 [610]	14 [356]	24 [610]	14 X 24 X 1
10	30 [762]	17 [432]	30 [762]	17 X 30 X 1
12	30 [762]	17 [432]	30 [762]	17 X 30 X 1
14	30 [762]	19 [483]	30 [762]	19 X 30 X 1
16	30 [762]	19 [483]	30 [762]	19 X 30 X 1

NOTES:

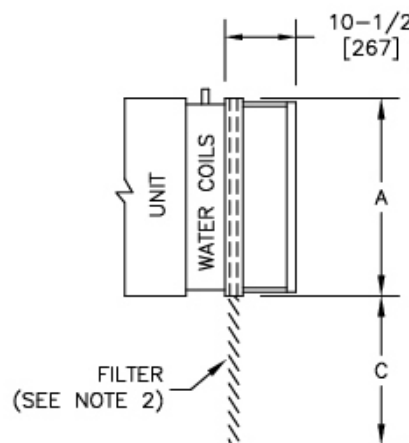
- All dimensions are Inches [millimeters].
All dimensions $\pm 1/4"$ [6mm].
Metric values are soft conversion.
- FILTER: 1" Fiberglass disposable media.
See table for sizes.
- WC units with Induction Sound Baffle
require filter rack.



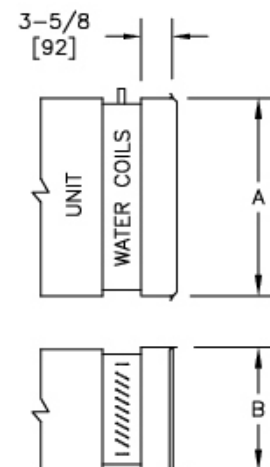
☐ WC WITH SLIP & DRIVE
FILTER RACK ASS'Y



☐ WC W/FILTER RACK



☐ WC W/FILTER
RACK & INDUCTION
SOUND BAFFLE



☐ WC WITH SLIP & DRIVE
ASS'Y



TITLE: INDUCTION INLET OPTIONS
MODEL TVS-WC
SERIES C

DRN BY: SM DATE: 11/04/03 SCALE: NA DRAWING NO.
CHK BY: DB DATE: 9/8/08 REV: 01 07-80021-J

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CONTACT FACTORY FOR CERTIFIED DRAWINGS.

Job Name:	Neshama Hospice - 3 cadillac	Date:	11/12/2024
Drawing Name:	TVS General Selection Data-page-001	Sales Rep:	

PRIMARY AIR VALVE

UNIT SIZE	CFM	MIN. Δ Ps (IN. W.G.)	ROOM NOISE CRITERIA (NC)					
			0.5" W.G. Δ Ps		1.0" W.G. Δ Ps		3.0" W.G. Δ Ps	
			Dis.	Rad.	Dis.	Rad.	Dis.	Rad.
0404	100	.01	--	--	--	--	--	--
	150	.01	--	--	--	--	20	23
	200	.02	--	--	--	23	25	29
	250	.02	--	23	23	27	30	34
0504	100	.01	--	--	--	--	--	--
	200	.01	--	--	--	--	--	22
	300	.02	--	--	--	22	20	28
	350	.02	--	20	--	24	23	30
0604	200	.03	--	--	--	--	--	22
	250	.04	--	--	--	--	--	24
	300	.06	--	--	--	--	--	25
	350	.08	--	--	--	20	--	28
0606	450	.14	--	22	--	25	24	32
	550	.21	--	29	23	29	28	34
0804	300	.01	--	--	--	--	--	29
	400	.03	--	--	--	20	--	32
	500	.04	--	--	--	23	22	33
	600	.06	--	22	--	25	25	35
0806	800	.10	--	27	20	30	29	38
	1000	.15	20	32	24	35	32	40
1006	600	.01	--	--	--	24	24	32
	800	.01	--	23	--	27	25	35
	1000	.01	--	25	--	29	28	37
	1200	.02	--	29	20	32	30	40
1011	1400	.02	--	33	23	33	33	42
	1600	.03	22	34	25	35	34	44
1018	800	.01	--	20	--	24	24	34
	1100	.02	--	24	--	28	28	37
1211	1400	.04	--	28	22	32	32	40
	1700	.06	--	32	24	34	35	45
	2000	.08	--	35	25	38	38	48
	2300	.10	22	37	28	40	40	50
1411	1100	.02	--	--	--	23	25	33
	1500	.04	--	22	20	28	32	40
	1900	.06	--	24	24	33	35	44
	2300	.08	--	28	27	37	38	47
1418	2700	.12	22	30	28	38	43	50
	3100	.15	25	33	30	42	47	52
1621	1600	.01	--	24	--	33	29	42
	2100	.02	--	28	23	37	33	47
	2600	.03	22	30	28	39	36	49
	3100	.04	24	35	33	42	40	50
1624	3600	.05	25	37	37	43	44	54
	4100	.07	27	38	38	45	50	57

FAN

UNIT SIZE	CFM	ROOM NOISE CRITERIA (NC)	
		Discharge	Radiated
0404	200	--	26
0504	300	--	32
0604	400	--	35
0804	450	--	36
0606	300	--	27
0806	400	--	34
1006	500	--	37
0811	400	--	29
1011	700	--	33
1211	1000	20	39
1018	800	--	33
1218	1100	--	35
1418	1400	20	37
	1800	28	43
1221	1200	--	34
1421	1600	20	38
1621	2000	28	43
1424	1500	--	35
1624	1900	23	39
	2400	30	44

DISCHARGE ATTENUATION VALUES	OCTAVE BAND						
	2	3	4	5	6	7	
Small Box (< 300 CFM)	24	28	39	53	59	40	
Medium Box (300-700 CFM)	27	29	40	51	53	39	
Large Box (> 700 CFM)	29	30	41	51	52	39	

RADIATED ATTENUATION VALUES	OCTAVE BAND						
	2	3	4	5	6	7	
Type 2 - Mineral Fiber Ceiling	18	19	20	26	31	36	

NOTES:

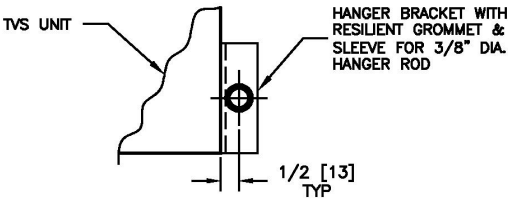
1. Min. Δ Ps is the static pressure difference between the terminal inlet and discharge with the damper wide open. Terminals equipped with electric heat (Model TVS-EH) require the addition of the heater pressure drop to determine the cumulative minimum Δ Ps for the unit.
2. Performance data obtained from tests conducted in accordance with ARI Standard 880.
3. Dash (-) indicates NC level less than 20.
4. NC values calculated based upon the 2002 Addendum to ARI Standard 885 Appendix E Typical Sound Attenuation Values (shown above), using Ceiling Type 2 for calculating Radiated NC.
5. NC (sound pressure) levels predicted by subtracting appropriate values above from published sound power levels.

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	DO NOT SCALE DRAWING DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	DATE 9/8/08	SHEET PAGE 1 OF 1	DRAWING NO 07-80010-J	REV 01

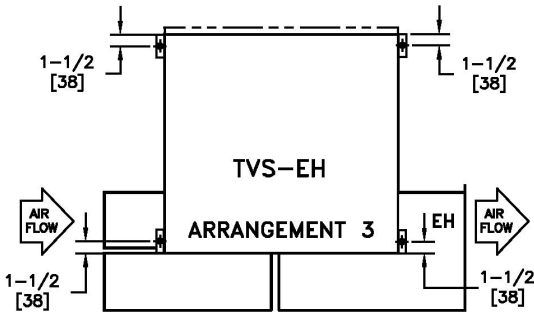
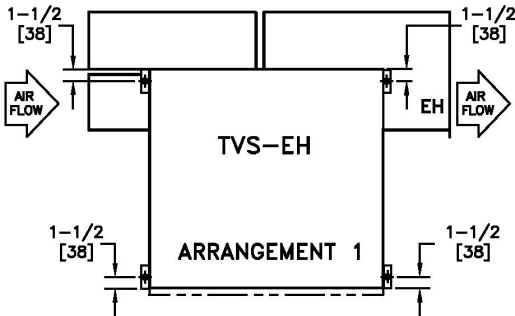
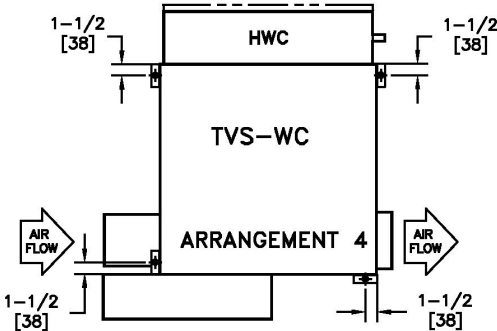
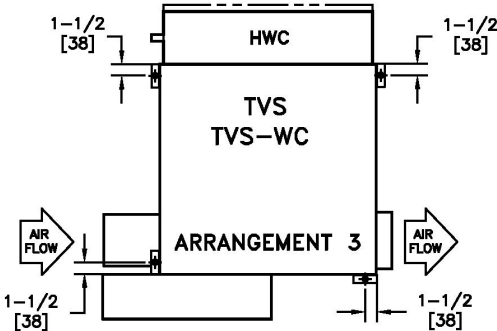
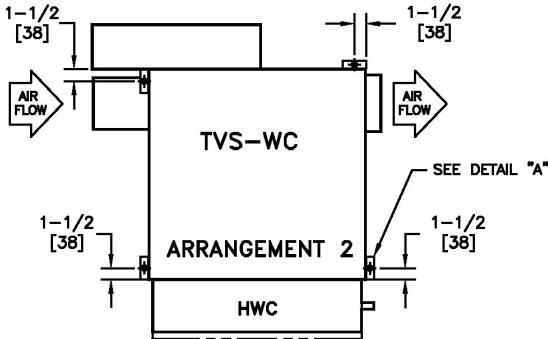
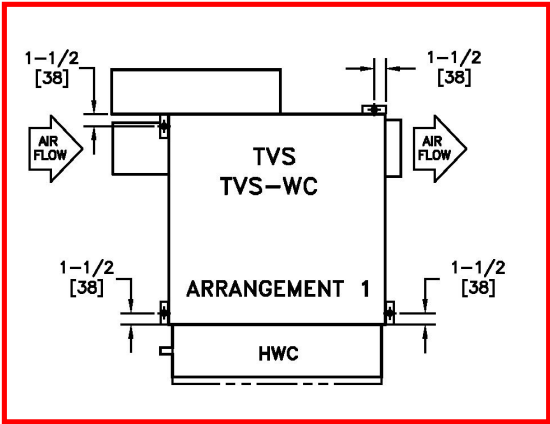
Job Name:	Neshama Hospice - 3 cadillac	Date:	11/12/2024
Drawing Name:	TVS Hanger Bracket Locations-page-001	Sales Rep:	

NOTES:

1. All dimensions are Inches [millimeters].
All dimensions are ±1/4" [6mm].
Metric values are soft conversion.
2. Johnson Controls will not accept responsibility for unit support based on additional field supplied suspension devices, which are sized and designed by others.



DETAIL "A"



TOP VIEWS

		TITLE: MODEL TVS PARALLEL FLOW FAN POWERED TERMINAL HANGER BRACKET LOCATIONS	
DRN BY: DI CHK BY: HANK	DATE: 8/3/05 DATE: 8/10/05	SCALE: NA REV: 00	DRAWING NO. 07-80035-J
THIS DRAWING CONTAINS PROPRIETARY DATA. 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 DRAWINGS.			

Equipment Release Approval Form

SUBMITTAL NOTES

Product Type: TVS Parallel-Flow, Variable-Volume, Fan-Powered
Unit Tags: VAV-2-1 to 6, VAV-1B

The following table must be completed prior to releasing the equipment for fabrication. Please initial the column indicating the information contained in this submittal has been verified, or indicate to refer to a marked-up page.

SUBMITTAL VERIFICATION	
	Purchaser Initials
Electrical voltage and electrical connections are compatible with jobsite requirements.	
Piping / Ductwork connections shown in this submittal are correct .	
Unit tag designations are correct.	
Equipment dimensions (length, width, and height) and weights have been verified to comply with jobsite conditions and rigging requirements. Please indicate approval by your initials on all included drawings.	
Verify "Unit Hand" of any Air Handling Equipment per the definition provided on the " Equipment Release / Configuration Process " form.	

SUBMITTAL VERIFICATION	
	Purchaser Initials
Indicate equipment configuration choices on the Equipment Release /Configuration Process form (if included on this Submittal package), and sign the form.	

Important Notes:

- 1) Actual fabrication release cannot commence until this form is signed by the customer and returned to JCI along with a release notification want date and ship to address.
- 2) Equipment "lead-time" does not start until confirmed release documentation is received, and the order is actually released to the factory.
- 3) Modifications to equipment configurations after fabrication release may impact cost and lead-time
- 4) Attached configurations are as shown in the approved equipment submittals or as defined in superseding customer correspondence.
- 5) AHU "Side" / "Hand" orientation is relative to a person standing inside an AHU with air hitting the back of the head.
- 6) Note that once this document is confirmed, the equipment configurations defined by this document take precedence over all other documents.
- 7) "Want date" and/or "ship to address" changes made after this document is confirmed may impact cost and lead-time.
- 8) Air handler drawings also include shipping split explosions with corresponding weights and dimensions. If additional splits are required, there will be additional costs and the unit length will increase.

Please fill out the following table and refer to the receiving/rigging instructions in this submittal to help ensure a smooth delivery and installation of the equipment.

DELIVERY INFORMATION	
	Please fill out information below
Contact name for coordinating delivery of equipment with transportation company	
Contact phone number	
Advance notice required from transportation company prior to delivering equipment (typically 48 hours)	
Ship to address:	
Other special shipping instructions or requirements	

CUSTOMER APPROVAL:

Customer Name: _____

Signature (*) _____

Date: _____