CUT SHEETS

WARWICK MECHANICAL NATO ACT MAKEUP AIR HANDLING UNIT REPLACEMENT

NORFOLK NAVAL STATION
NORFOLK, VIRGINIA

APRIL 6, 2021
ePROJECTS WO# _____
DJG #2210290

ENGINEERS / ARCHITECTS / PLANNERS
DESIGN LIKE ***YOU*** MEAN IT!
449 McLAWS CIRCLE • WILLIAMSBURG, VA • 23185 • 757-253-0673
223 S. WEST STREET • RALEIGH, NC • 27603 • 984-255-0140

V18.33.5

23371 - NAVFAC NACT

DLL Message
Sum
Win

Validation r

# of Units	5			AIRFLOW CONDITIONS							SUPPLY FAN								FIXED PLATE - SENSIBLE					DX COOLING COIL							
TAG	LOCATION	ANNEXAIR MODEL	UNIT MODEL	Density of Air (lbs/ft^3)	SA (CFM)	SA ESP ("wc)	OA (%)	RA (CFM)	RA ESP ("wc)	Application	QTY.	TYPE	CFM	TSP ("wc)	RPM	HP	BHP	Motor Heat (°F)	VFD[3]	EAT-DX summer (db°F / wb°F)		LAT-FP summer (db°F / wb°F)		FROST CONTROL	CFM	EAT (db°F / wb°F)		LAT (db°F / wb°F)		SENSIBLE [MBH]	TOTAL [MBH]	TON
VHP-1	Exterior	ERP-E-03-FP-C-HG-WZ12	Fixed plate	0.075	2585	0.4	100%	0	0	CV	1	Plug	2585	4.31	2339	7.70	2.35	0.00	Yes	74.4	73.0	75.8	63.2	Not Required	2585	74.4	73.03	56	56	53	150	12.5
										50%																						
VHP-2	Exterior	ERP-E-02-FP-C-HG-WZ12	Fixed plate	0.075	1410	0.4	100%	0	0	CV	1	Plug	1410	4.31	2915	3.90	1.34	2.55	Yes	74.3	73.0	75.8	63.1	Not Required	1410	74.3	72.95	56	56	29	82	6.9
										0%																						
VHP-3	Exterior	ERP-E-02-FP-C-HG-WZ12	Fixed plate	0.075	1410	0.4	100%	0	0	CV	1	Plug	1410	4.31	2915	3.90	1.34	2.55	Yes	74.3	73.0	75.8	63.1	Not Required	1410	74.3	72.95	56	56	29	82	6.9
										0%																						
VHP-4	Exterior	ERP-E-03-FP-C-HG-WZ16	Fixed plate	0.075	3435	0.4	100%	0	0	CV	1	Plug	3435	4.31	2107	4.40	3.16	2.32	Yes	74.4	73.0	75.7	63.1	Not Required	3435	74.4	73.03	56	56	70	199	16.6
										0%																						
VHP-5	Exterior	ERP-E-04-FP-C-HG-WZ24	Fixed plate	0.075	4155	0.4	100%	0	0	CV	1	Plug	4155	4.31	2231	4.40	3.88	2.37	Yes	74.4	73.0	75.7	63.1	Not Required	4155	74.4	73.03	56	56	85	241	20.1
										0%																						

1 - Type of construction: Thermo-Composite
2 - Direct Drive fans provided.
3 - One VFD provided per fan bank.

Altitude	Press.	Summer				Winter			
		OA conditions		RA conditions		OA conditions		RA conditions	
ft	inHg	db	wb	db	wb	db	wb	db	wb
0	29.92	91	78.1	75	63	21.9	21.9	70	53

V18.33.5

Validation Message:

# of Units	GAS FIRED HEATING									WATER SOURCE HEAT PUMP								PRE FILTERS	Electrical			ESTIMATED ELECTRICAL DATA				ESTIMATED DIMENSIONS			WEIGHT
TAG	CFM	EAT (db°F)	LAT (db°F)	OUTPUT [MBH]	MIN. INPUT [MBH]	MODEL	QTY	Total Turndown	Gas pressure (min/max)	MODEL	QTY	TON / UNIT	GLYCOL	EWT / LWT Cooling mode (°F)	(Qty.) Fluid Connection Diameter	# COMP	Type of Compressor	PRE FILTERS SA & EA	GFI	Lights	Powered by	VOLTAGE	FLA	MCA	MOP	L	W	H	LBS
VHP-1	2585	21.9	70	137	171	HMG 200	1	5:1	7" / 14"	WZ-12	1	4 to 12	None	85	(2) 2	1	Variable Speed	2"-MERV10	1	5	By Annexair	460/3/60	27	31	45	0	0	0	0
														95															
VHP-2	1410	21.9	70	75	94	HMG 100	1	5:1	7" / 14"	WZ-12	1	4 to 12	None	85	(2) 2	1	Variable Speed	2"-MERV10	1	5	By Annexair	460/3/60	24	29	45	0	0	0	0
														95															
VHP-3	1410	21.9	70	75	94	HMG 100	1	5:1	7" / 14"	WZ-12	1	4 to 12	None	85	(2) 2	1	Variable Speed	2"-MERV10	1	5	By Annexair	460/3/60	24	29	45	0	0	0	0
														95															
VHP-4	3435	21.9	70	182	228	HMG 250	1	5:1	7" / 14"	WZ-16	1	5.3 to 16	None	85	(2) 2	1	Variable Speed	2"-MERV10	1	5	By Annexair	460/3/60	32	38	60	0	0	0	0
														95															
VHP-5	4155	21.9	70	220	275	HMG 300	1	5:1	7" / 14"	WZ-24	1	7.7 to 23	None	85	(2) 2.5	2	Variable Speed	2"-MERV10	1	5	By Annexair	460/3/60	44	48	60	0	0	0	0
														95															

Project Name:	NAVFAC NACT
Project Number:	23371
Last update:	3/16/2021 13:52

annexAir

V18.33.5

VARIABLE SPEED WATER SOURCE HEAT PUMP SELECTION

Tag	VHP-1	VHP-2	VHP-3	VHP-4	VHP-5
Altitude (ft) 0	COOLING DESIGN		COOLING DESIGN		COOLING DESIGN
CFM	2,585	1,410	1,410	3,435	4,155
Entering Dry Bulb/Wet Bulb (°F/°F)	74.4 / 73.03	74.3 / 72.95	74.3 / 72.95	74.4 / 73.03	74.4 / 73.03
Enthalpy Entering (btu/lb)	36.7	36.6	36.6	36.7	36.7
Leaving Dry Bulb/Wet Bulb (°F/°F)	56 / 56	56 / 56	56 / 56	56 / 56	56 / 56
Enthalpy Leaving (btu/lb)	23.8	23.8	23.8	23.8	23.8
Capactiy Required (MBH)	150	82	82	199	241
EWT (°F)	85	85	85	85	85
LWT (°F)	97.98	97.95	97.95	100.17	100.57
GLYCOL	None	None	None	None	None
Model	WZ-12	WZ-12	WZ-12	WZ-16	WZ-24
Qty	1	1	1	1	1
Number of Compressors	1	1	1	1	2
	COOLING PERFORMANCE		COOLING PERFORMANCE		COOLING PERFORMANCE
Condensing Temperature (°F)	115.0	115.0	115.0	115.0	115.0
Evaporating Temperature (°F)	49.0	49.0	49.0	49.0	49.0
Actual Cooling Capacity (MBH)	162	162	162	218	325
Compressor Consumption (WATTS)	11,573	11,573	11,573	15,200	23,146
Condenser Heat of Rejection (MBH)	202	202	202	270	404
Leaving Water Temperature (°F)	98.0	98.0	98.0	100.2	100.6
Design Entering Water Temperature (°F)	85.0	85.0	85.0	85.0	85.0
Ref Flow Rate	2,395	2,395	2,395	3,215	2,395
	GENERAL	GENERAL	GENERAL	GENERAL	GENERAL
Total GPM	31.1	31.2	31.2	35.6	51.9
Water Pressure Drop	20.02	20.10	20.10	20.05	20.11
(Qty.) Fluid Connection Diameter	(2) 2	(2) 2	(2) 2	(2) 2	(2) 2.5
EER of WSHP	14.03	14.03	14.03	14.34	14.03
COP of WSHP (Heating)					
Head Pressure Control (HPC) Valves					
TURN DOWN (% OF TOTAL CAPACITY)	28.00%	28.00%	28.00%	28.00%	28.00%
Number of Circuits	1	1	1	1	2
Total Refrigerant Charge (lbs)	24	24	24	32	48
Voltage	460	460	460	460	460
FLA of the Largest Compressor @460	16.9	16.9	16.9	22.8	16.9
FLA of the Balance of Components @460	0	0	0	0	16.9

**Water Pressure Drop includes coaxial coil and water flow valve*

Customer			23-12-2020
Attention		Email : apalucci@annexair.com	
Model	: FC AC 07 N 0635 M 1 AE SM	Net price	
Your Ref.	:	Offer nr.	

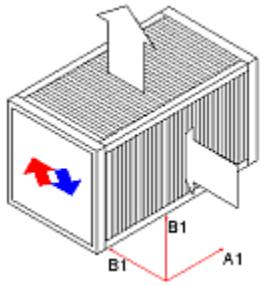
Characteristics

Epoxy painted exchanger plates	Working Temperature -22°F +194°F
Galvanized steel casing	Max differential pressure 8.0 in WC
Mechanically sealed exchanger block	Bended side plates for duct mounting

Performances		**Case 2**
HRS Capacity	Btu/h	55150
Temperature Effectiveness Wet	%	56.5
Temperature Ratio (EN 308 Standard) Wet	%	47.5
Temperature Effectiveness Dry	%	51.6
Temperature Ratio (EN 308 Standard) Dry	%	51.6
Class of heat recovery (EN 13053)		H5
Energy efficiency (EN 13053)	%	49.0
Thermal Efficiency (Erp directive) (*)	%	51.6
Supply		
Std Flow Rate (1.2 kg/m³)	cfm	2585
Mass Air Flow Rate	lb/min	194
Air Temperature IN	°F	91.0
Relative humidity IN	%	56.6
Air temperature OUT	°F	74.4
Relative humidity OUT	%	93.8
Pressure drop actual	in WC	0.709
Pressure drop Std (1.2 kg/m³)	in WC	0.685
Face velocity	ft/min	675
Transferred humidity	US gal/h	0.8
Exhaust		
Std Flow Rate (1.2 kg/m³)	cfm	2585
Mass Air Flow Rate	lb/min	194
Air Temperature IN	°F	56.0
Relative humidity IN	%	100.0
Air temperature OUT	°F	75.8
Relative humidity OUT	%	49.9
Pressure drop actual	in WC	0.682
Pressure drop Std (1.2 kg/m³)	in WC	0.685
Face velocity	ft/min	675

Dimensions and Weights

Height (B1)	in:	27.76
Length (A1)	in:	25.00
Depth (B1)	in:	27.76
Diagonal	in:	39.25
Finned length	in:	22.64
Weight	lb:	82



Ambient Pressure psi 14.71

(*) Thermal efficiency of a heat recovery system (HRS) under dry reference conditions with balanced mass flow on the supply an indoor-outdoor air temperature difference of

Calculation mode

- Single

Calculation of a single recuperator.

Customer			23-12-2020
Attention		Email : apalucci@annexair.com	
Model	: FC AC 07 N 0381 M 1 AE SM	Net price	
Your Ref.	:	Offer nr.	

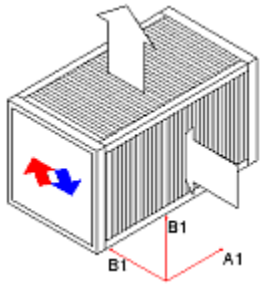
Characteristics

Epoxy painted exchanger plates	Working Temperature -22°F +194°F
Galvanized steel casing	Max differential pressure 8.0 in WC
Mechanically sealed exchanger block	Bended side plates for duct mounting

Performances		**Case 2**
HRS Capacity	Btu/h	30179
Temperature Effectiveness Wet	%	56.7
Temperature Ratio (EN 308 Standard) Wet	%	47.6
Temperature Effectiveness Dry	%	51.8
Temperature Ratio (EN 308 Standard) Dry	%	51.8
Class of heat recovery (EN 13053)		H5
Energy efficiency (EN 13053)	%	50.0
Thermal Efficiency (Erp directive) (*)	%	51.8
Supply		
Std Flow Rate (1.2 kg/m³)	cfm	1410
Mass Air Flow Rate	lb/min	106
Air Temperature IN	°F	91.0
Relative humidity IN	%	56.6
Air temperature OUT	°F	74.3
Relative humidity OUT	%	93.9
Pressure drop actual	in WC	0.681
Pressure drop Std (1.2 kg/m³)	in WC	0.659
Face velocity	ft/min	659
Transferred humidity	US gal/h	0.4
Exhaust		
Std Flow Rate (1.2 kg/m³)	cfm	1410
Mass Air Flow Rate	lb/min	106
Air Temperature IN	°F	56.0
Relative humidity IN	%	100.0
Air temperature OUT	°F	75.8
Relative humidity OUT	%	49.8
Pressure drop actual	in WC	0.655
Pressure drop Std (1.2 kg/m³)	in WC	0.659
Face velocity	ft/min	659

Dimensions and Weights

Height (B1)	in:	27.76
Length (A1)	in:	15.00
Depth (B1)	in:	27.76
Diagonal	in:	39.25
Finned length	in:	12.64
Weight	lb:	57



Ambient Pressure psi 14.71

(*) Thermal efficiency of a heat recovery system (HRS) under dry reference conditions with balanced mass flow on the supply an indoor-outdoor air temperature difference of

Calculation mode

- Single

Calculation of a single recuperator.

Customer			23-12-2020
Attention		Email : apalucci@annexair.com	
Model	: FC AC 07 N 0813 M 1 AE SM	Net price	
Your Ref.	:	Offer nr.	

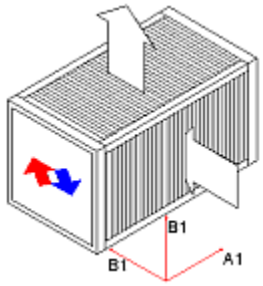
Characteristics

Epoxy painted exchanger plates	Working Temperature -22°F +194°F
Galvanized steel casing	Max differential pressure 8.0 in WC
Mechanically sealed exchanger block	Bended side plates for duct mounting

Performances		**Case 2**
HRS Capacity	Btu/h	73137
Temperature Effectiveness Wet	%	56.4
Temperature Ratio (EN 308 Standard) Wet	%	47.4
Temperature Effectiveness Dry	%	51.5
Temperature Ratio (EN 308 Standard) Dry	%	51.5
Class of heat recovery (EN 13053)		H5
Energy efficiency (EN 13053)	%	49.0
Thermal Efficiency (Erp directive) (*)	%	51.5
Supply		
Std Flow Rate (1.2 kg/m³)	cfm	3435
Mass Air Flow Rate	lb/min	257
Air Temperature IN	°F	91.0
Relative humidity IN	%	56.6
Air temperature OUT	°F	74.4
Relative humidity OUT	%	93.8
Pressure drop actual	in WC	0.727
Pressure drop Std (1.2 kg/m³)	in WC	0.703
Face velocity	ft/min	685
Transferred humidity	US gal/h	1.1
Exhaust		
Std Flow Rate (1.2 kg/m³)	cfm	3435
Mass Air Flow Rate	lb/min	257
Air Temperature IN	°F	56.0
Relative humidity IN	%	100.0
Air temperature OUT	°F	75.7
Relative humidity OUT	%	50.0
Pressure drop actual	in WC	0.699
Pressure drop Std (1.2 kg/m³)	in WC	0.703
Face velocity	ft/min	685

Dimensions and Weights

Height (B1)	in:	27.76
Length (A1)	in:	32.01
Depth (B1)	in:	27.76
Diagonal	in:	39.25
Finned length	in:	29.65
Weight	lb:	99



Ambient Pressure psi 14.71

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Calculation mode

- Single

Calculation of a single recuperator.

Customer			23-12-2020
Attention		Email : apalucci@annexair.com	
Model	: FC AC 07 N 0965 M 1 AE SM	Net price	
Your Ref.	:	Offer nr.	

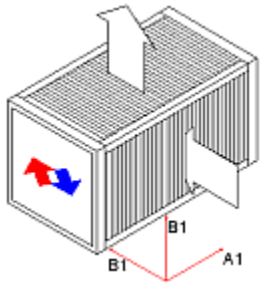
Characteristics

Epoxy painted exchanger plates	Working Temperature -22°F +194°F
Galvanized steel casing	Max differential pressure 8.0 in WC
Mechanically sealed exchanger block	Bended side plates for duct mounting

Performances		**Case 2**
HRS Capacity	Btu/h	88387
Temperature Effectiveness Wet	%	56.3
Temperature Ratio (EN 308 Standard) Wet	%	47.4
Temperature Effectiveness Dry	%	51.5
Temperature Ratio (EN 308 Standard) Dry	%	51.5
Class of heat recovery (EN 13053)		H5
Energy efficiency (EN 13053)	%	49.0
Thermal Efficiency (Erp directive) (*)	%	51.5
Supply		
Std Flow Rate (1.2 kg/m³)	cfm	4155
Mass Air Flow Rate	lb/min	311
Air Temperature IN	°F	91.0
Relative humidity IN	%	56.6
Air temperature OUT	°F	74.4
Relative humidity OUT	%	93.8
Pressure drop actual	in WC	0.735
Pressure drop Std (1.2 kg/m³)	in WC	0.711
Face velocity	ft/min	689
Transferred humidity	US gal/h	1.3
Exhaust		
Std Flow Rate (1.2 kg/m³)	cfm	4155
Mass Air Flow Rate	lb/min	311
Air Temperature IN	°F	56.0
Relative humidity IN	%	100.0
Air temperature OUT	°F	75.7
Relative humidity OUT	%	50.0
Pressure drop actual	in WC	0.707
Pressure drop Std (1.2 kg/m³)	in WC	0.711
Face velocity	ft/min	689

Dimensions and Weights

Height (B1)	in:	27.76
Length (A1)	in:	37.99
Depth (B1)	in:	27.76
Diagonal	in:	39.25
Finned length	in:	35.63
Weight	lb:	114



Ambient Pressure psi 14.71

(*) Thermal efficiency of a heat recovery system (HRS) under dry reference conditions with balanced mass flow on the supply an indoor-outdoor air temperature difference of

Calculation mode

- Single

Calculation of a single recuperator.

TAG: VHP-1	REV 0
DWG. : S23371 MODEL : ERP-E-02-FP-C-HG-TB-WZ12 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

ROOF CURB BY OTHERS

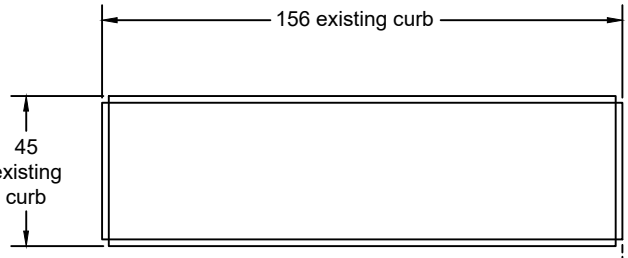
PERIMETER IS FOR REFERENCE ONLY

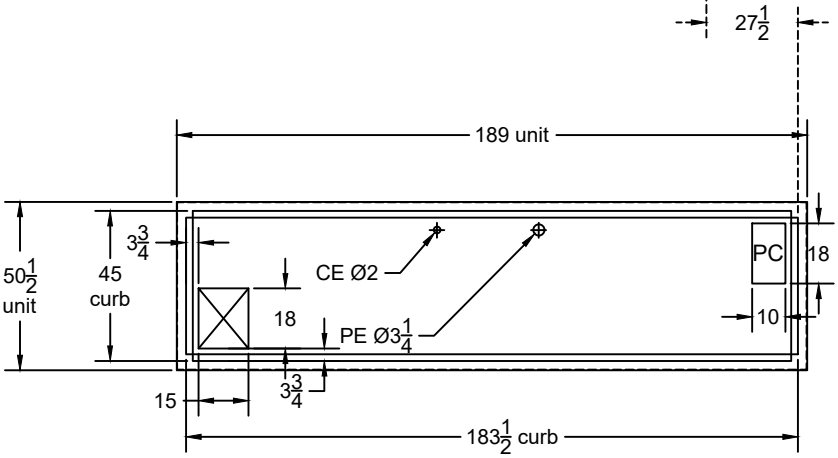
INSIDE SUPPORTS NEED TO BE DEFINED BY ROOF CURB MANUFACTURER

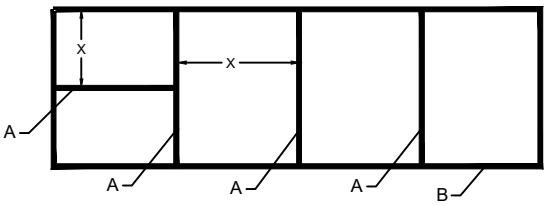
CE: CONTROLS ENTRANCE

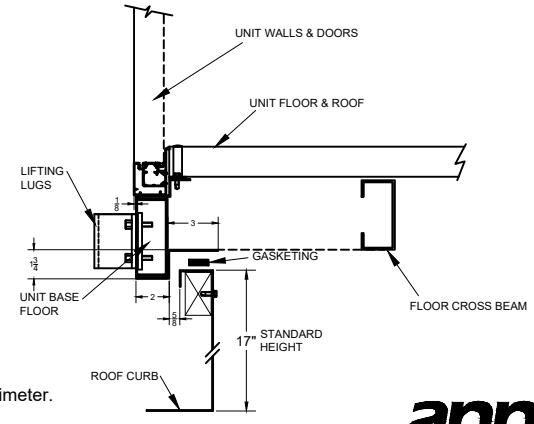
PE: POWER ENTRANCE

PC: PIPE CHASE









Roof curb support informations:

A: 2" curb support.
B: Perimeter curb.
X: need a maximum of 8ft between each supports and between supports and perimeter.

IF Modular Unit: a 4" support must be installed at the joint of 2 modules

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

TAG: VHP-1	REV 0
DWG. : S23371 MODEL : ERP-E-02-FP-C-HG-TB-WZ12 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

THERMO-COMPOSITE UNIT

1 - 2" D/W CASING

2 - OA HOOD w/ 4" LOUVER w/ 2" MERV10 FILTERS

3 - OA DAMPER

4 - FIXE PLATE FACE & BYPASS DAMPER

5 - FIXE PLATE 06 (A1: 29-1/8")

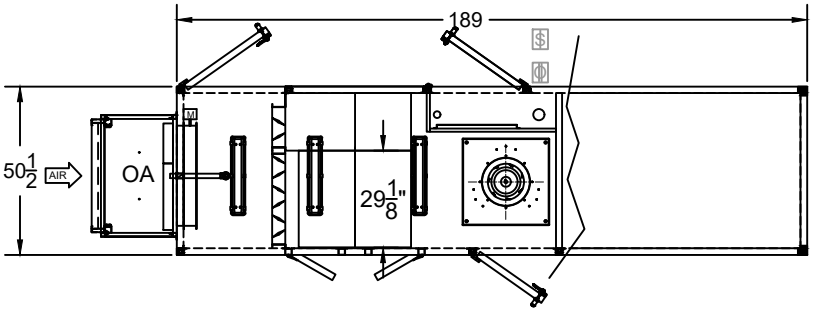
6 - DX COIL

7 - SA DDF DP 400 w/ EC (5.8kw)

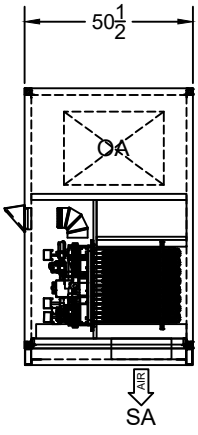
8 - GAS BURNER HM G 200 (CONFIG. Q)

9 - SA OPENING (BOTTOM)

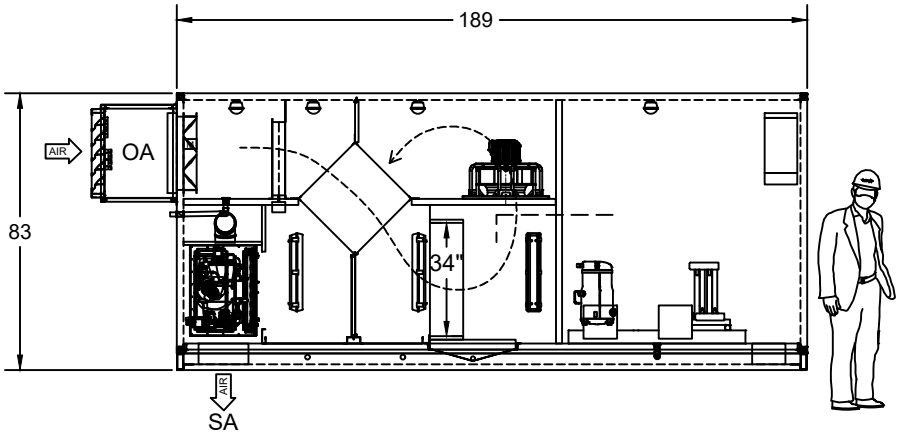
10 - WSHP WZ12



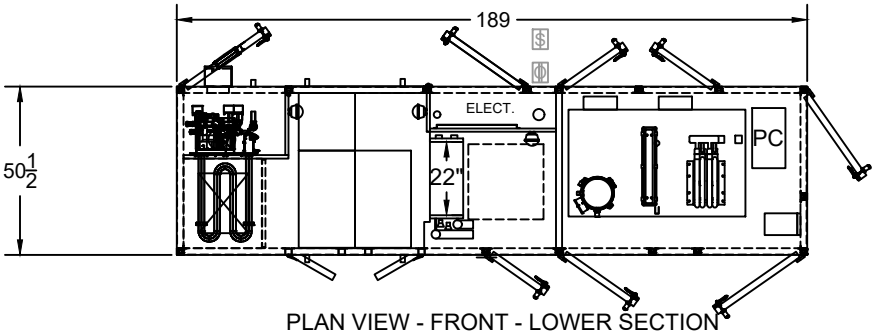
PLAN VIEW - FRONT - UPPER SECTION



LEFT VIEW



ELEVATION VIEW - FRONT



PLAN VIEW - FRONT - LOWER SECTION

THIS DRAWING IS FOR PRELIMINARY PURPOSE ONLY, ANNEXAIR RESERVED THE RIGHT TO CHANGE DESIGN AND COMPONENTS WITHOUT NOTICE. ONLY AT THE SUBMITTAL STAGE DIMENSIONS & WEIGHT WILL BE CONFIRMED

FOR FACTORY: DXC: 34H X 22L / 5.19sa

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

TAG: VHP-2&3	REV 0
DWG. : S23371 MODEL : ERP-E-02-FP-C-HG-TB-WZ12 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

ROOF CURB BY OTHERS

PERIMETER IS FOR REFERENCE ONLY

INSIDE SUPPORTS NEED TO BE DEFINED BY ROOF CURB MANUFACTURER

CE: CONTROLS ENTRANCE

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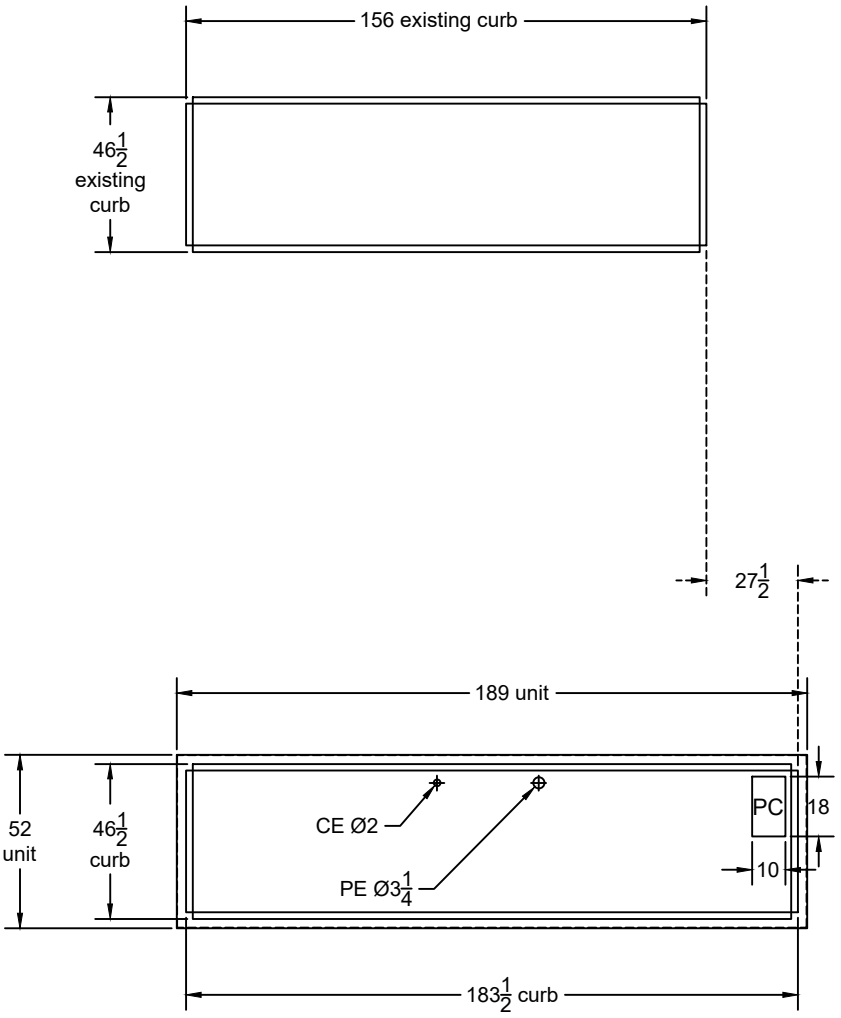
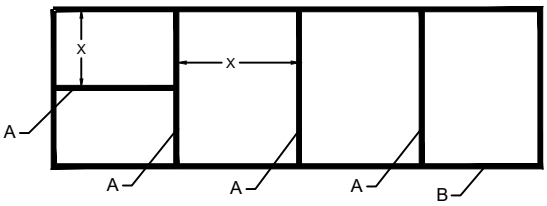
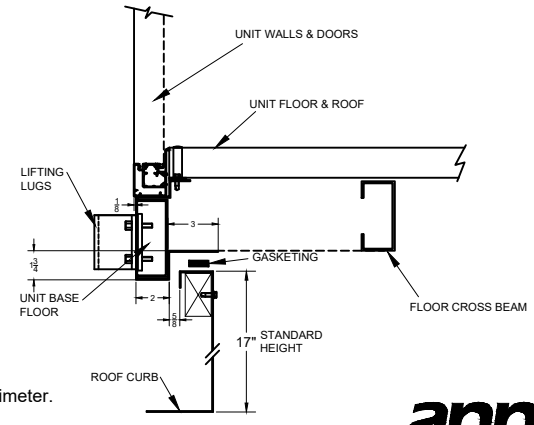
PC: PIPE CHASE







Roof curb support informations:

A: 2" curb support.
B: Perimeter curb.
X: need a maximum of 8ft between each supports and between supports and perimeter.

IF Modular Unit: a 4" support must be installed at the joint of 2 modules

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

TAG: VHP-2&3	REV 0
DWG. : S23371 MODEL : ERP-E-02-FP-C-HG-TB-WZ12 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

THERMO-COMPOSITE UNIT

1 - 2" D/W CASING

2 - OA HOOD w/ 4" LOUVER w/ 2" MERV10 FILTERS

3 - OA DAMPER

4 - FIXE PLATE FACE & BYPASS DAMPER

5 - FIXE PLATE 06 (A1: 17-9/16")

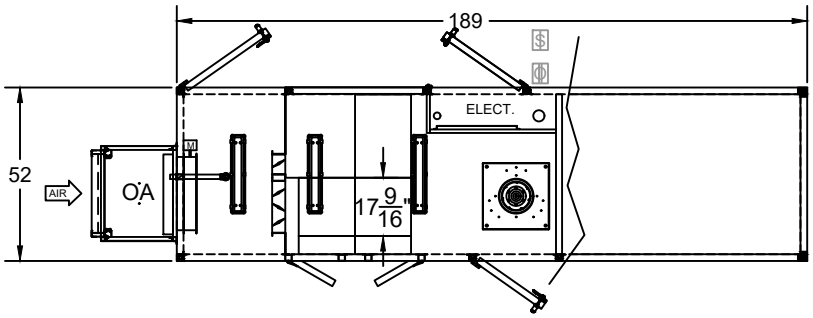
6 - DX COIL

7 - SA DDF DP 315 w/ EC (2.9kw)

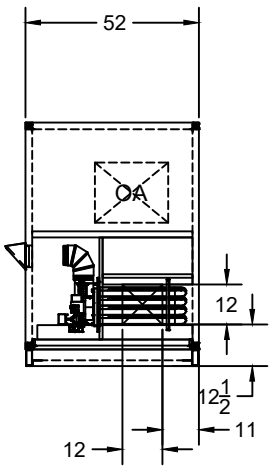
8 - GAS BURNER HM G 100 (CONFIG. Q)

9 - SA OPENING (BOTTOM)

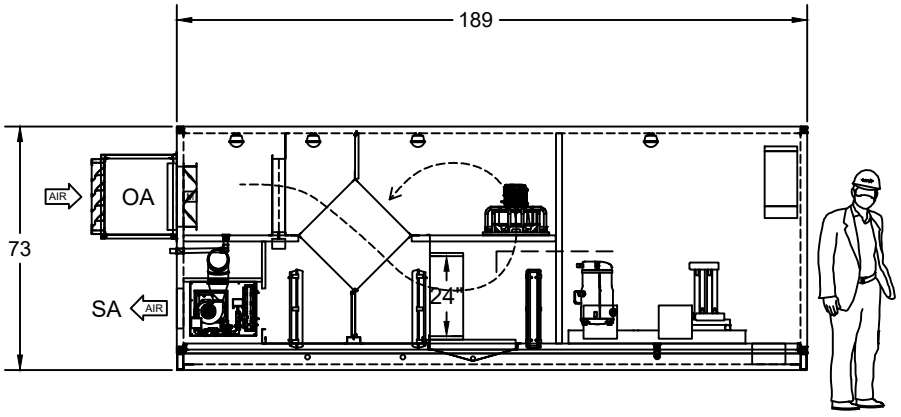
10 - WSHP WZ12



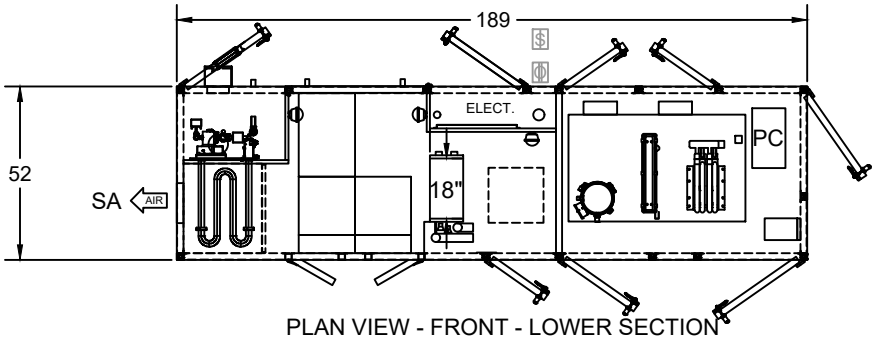
PLAN VIEW - FRONT - UPPER SECTION



LEFT VIEW



ELEVATION VIEW - FRONT



PLAN VIEW - FRONT - LOWER SECTION

MC : MIN. CLEARANCE

: LIGHT SWITCH

: LIGHT

: GFI

EA : EXHAUST AIR

RA : RETURN AIR

SA : SUPPLY AIR

OA : OUTDOOR AIR

FOR FACTORY: DXC: 24H X 18L / 3sa

annexAir

TAG: VHP-4	REV 0
DWG. : S23371 MODEL : ERP-E-03-FP-C-HG-TB-WZ16 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

ROOF CURB BY OTHERS

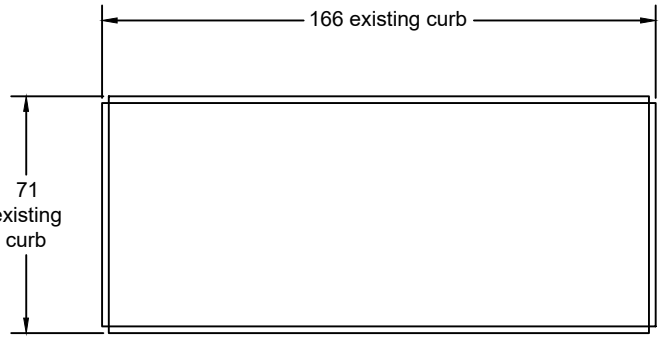
PERIMETER IS FOR REFERENCE ONLY

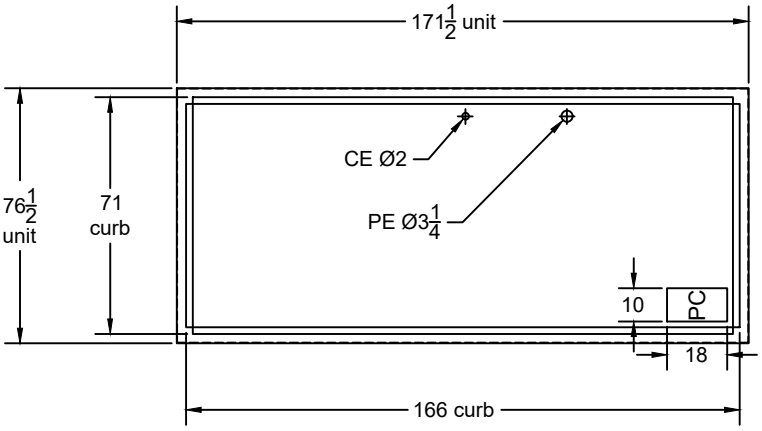
INSIDE SUPPORTS NEED TO BE DEFINED BY ROOF CURB MANUFACTURER

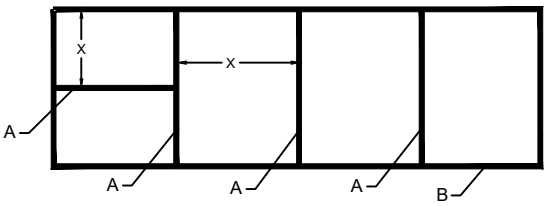
CE: CONTROLS ENTRANCE

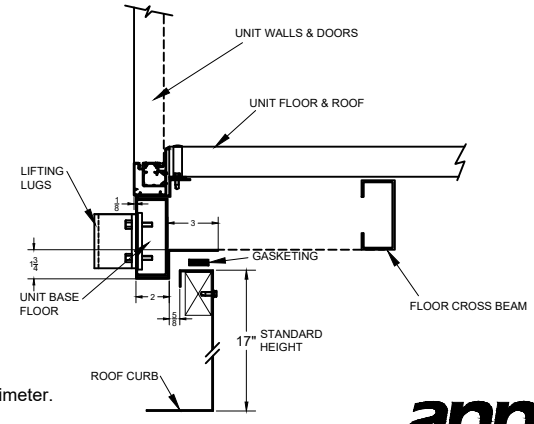
PE: POWER ENTRANCE

PC: PIPE CHASE









Roof curb support informations:

A: 2" curb support.
B: Perimeter curb.
X: need a maximum of 8ft between each supports and between supports and perimeter.

IF Modular Unit: a 4" support must be installed at the joint of 2 modules

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

TAG: VHP-4	REV 0
DWG. : S23371 MODEL : ERP-E-03-FP-C-HG-TB-WZ16 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

THERMO-COMPOSITE UNIT

1 - 2" D/W CASING

2 - OA HOOD w/ 4" LOUVER w/ 2" MERV10 FILTERS

3 - OA DAMPER

4 - FIXE PLATE FACE & BYPASS DAMPER

5 - FIXE PLATE 06 (A1: 37-5/16")

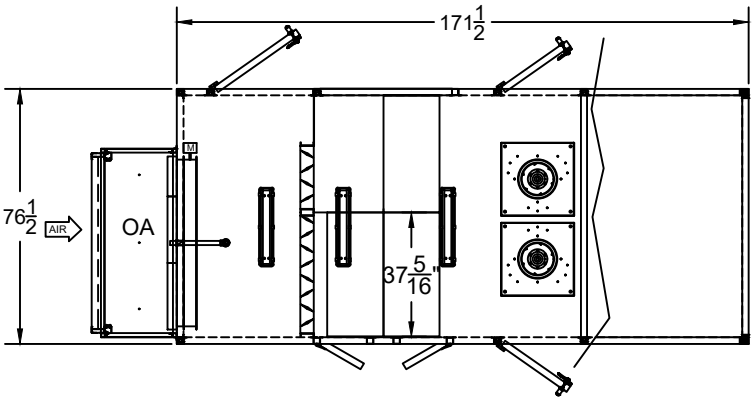
6 - DX COIL

7 - SA DDF (QTY2) DP 355 w/ EC (4.3kw)

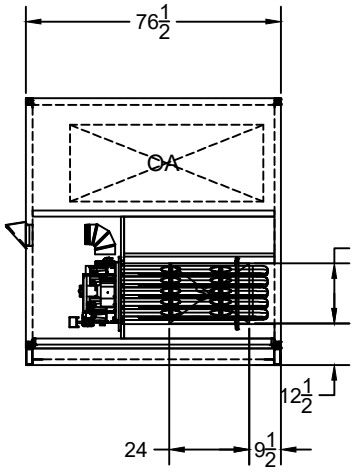
8 - GAS BURNER HM A 250 (CONFIG. Q)

9 - SA OPENING (END)

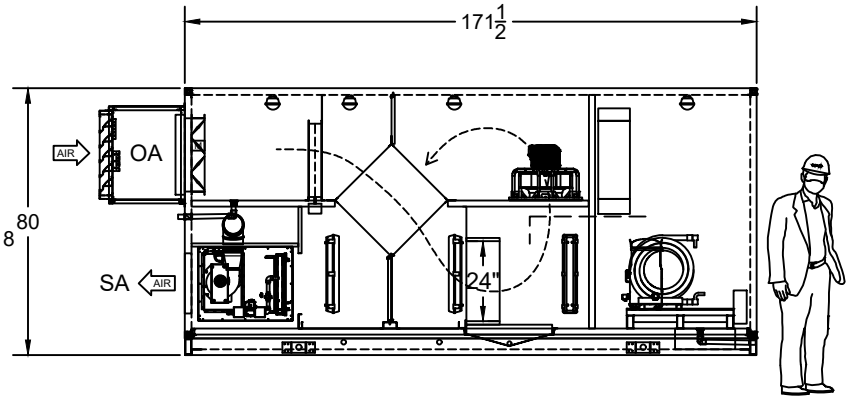
10 - WSHP WZ16



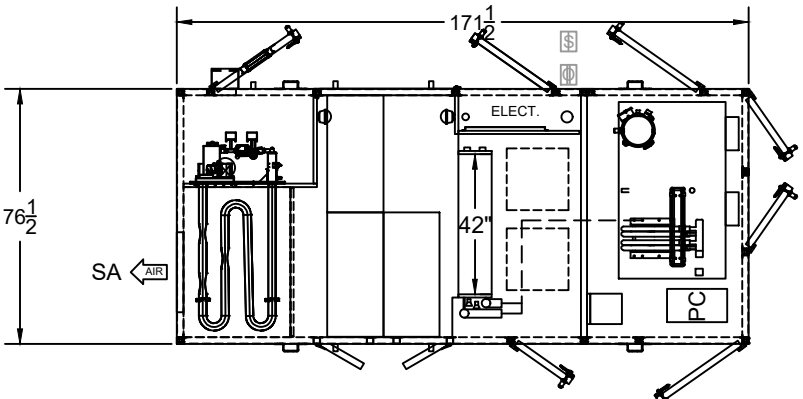
PLAN VIEW - FRONT - UPPER SECTION



LEFT VIEW



ELEVATION VIEW - FRONT



PLAN VIEW - FRONT - LOWER SECTION

THIS DRAWING IS FOR PRELIMINARY PURPOSE ONLY, ANNEXAIR RESERVED THE RIGHT TO CHANGE DESIGN AND COMPONENTS WITHOUT NOTICE. ONLY AT THE SUBMITTAL STAGE DIMENSIONS & WEIGHT WILL BE CONFIRMED

FOR FACTORY: DXC: 24H X 42L / 7sa

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

TAG: VHP-5	REV 0
DWG. : S23371 MODEL : ERP-E-04-FP-C-HG-TB-WZ24 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

ROOF CURB BY OTHERS

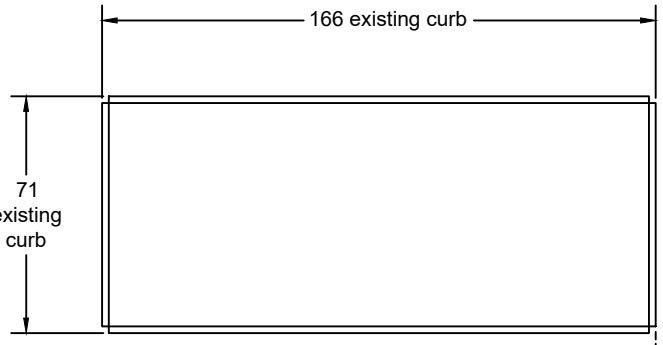
PERIMETER IS FOR REFERENCE ONLY

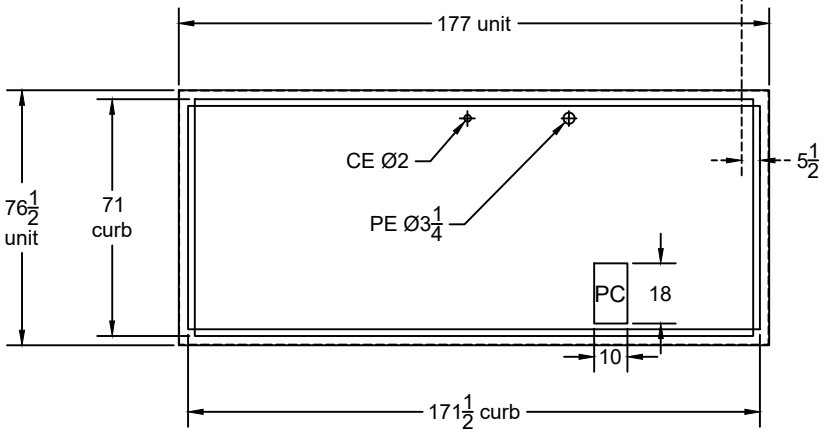
INSIDE SUPPORTS NEED TO BE DEFINED BY ROOF CURB MANUFACTURER

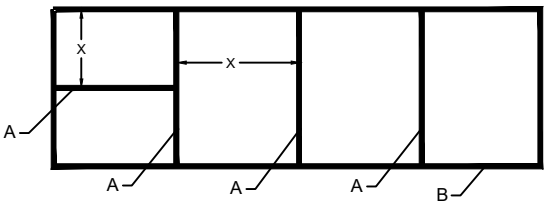
CE: CONTROLS ENTRANCE

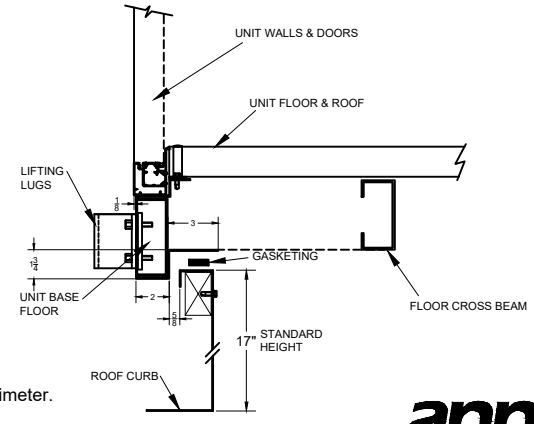
PE: POWER ENTRANCE

PC: PIPE CHASE









Roof curb support informations:

A: 2" curb support.
B: Perimeter curb.
X: need a maximum of 8ft between each supports and between supports and perimeter.

IF Modular Unit: a 4" support must be installed at the joint of 2 modules

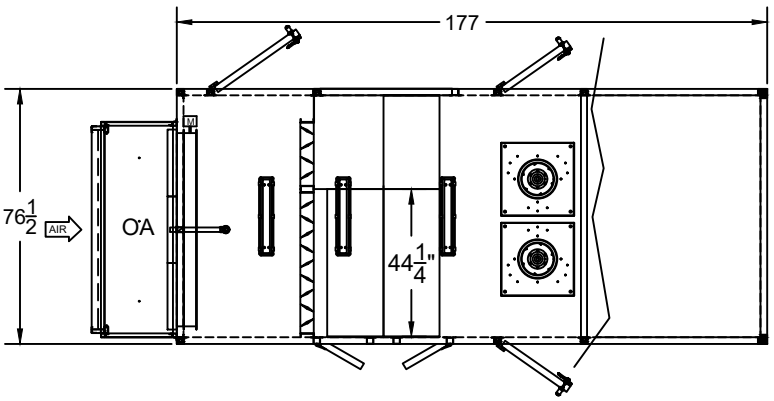
annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE

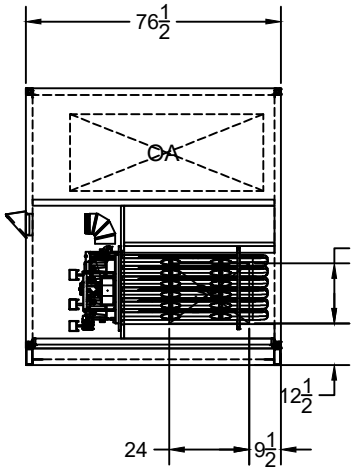
TAG: VHP-5	REV 0
DWG. : S23371 MODEL : ERP-E-04-FP-C-HG-TB-WZ24 DATE : 1-13-2021 WEIGHT :	BY (GP) LG

THERMO-COMPOSITE UNIT

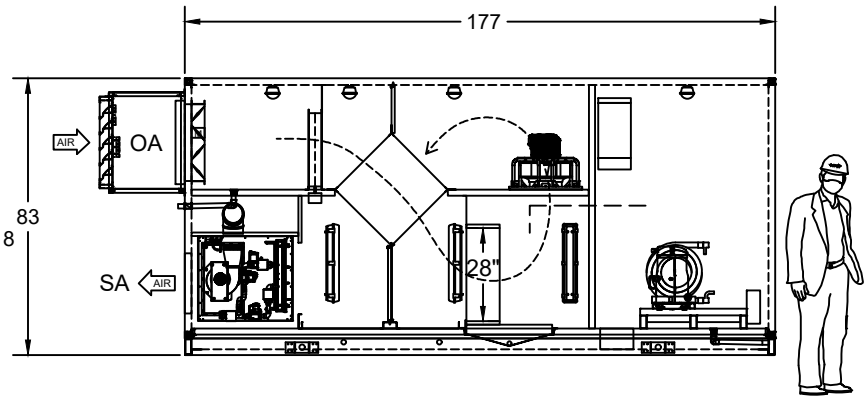
1 - 2" D/W CASING
2 - OA HOOD w/ 4" LOUVER w/ 2" MERV10 FILTERS
3 - OA DAMPER
4 - FIXE PLATE FACE & BYPASS DAMPER
5 - FIXE PLATE 06 (A1: 44.25")
6 - DX COIL
7 - SA DDF (QTY2) DP 355 w/ EC (4.3kw)
8 - GAS BURNER HM A 300 (CONFIG. Q)
9 - SA OPENING (END)
10 - WSHP WZ24



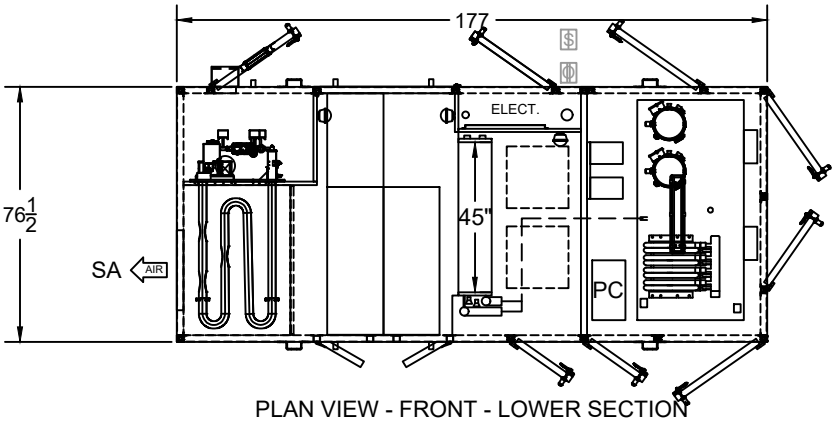
PLAN VIEW - FRONT - UPPER SECTION



LEFT VIEW



ELEVATION VIEW - FRONT



PLAN VIEW - FRONT - LOWER SECTION

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FOR FACTORY: DXC: 28H X 45L / 8.75sa

annexAir

OA : OUTDOOR AIR **SA** : SUPPLY AIR **RA** : RETURN AIR **EA** : EXHAUST AIR : GFI : LIGHT : LIGHT SWITCH MC : MIN. CLEARANCE