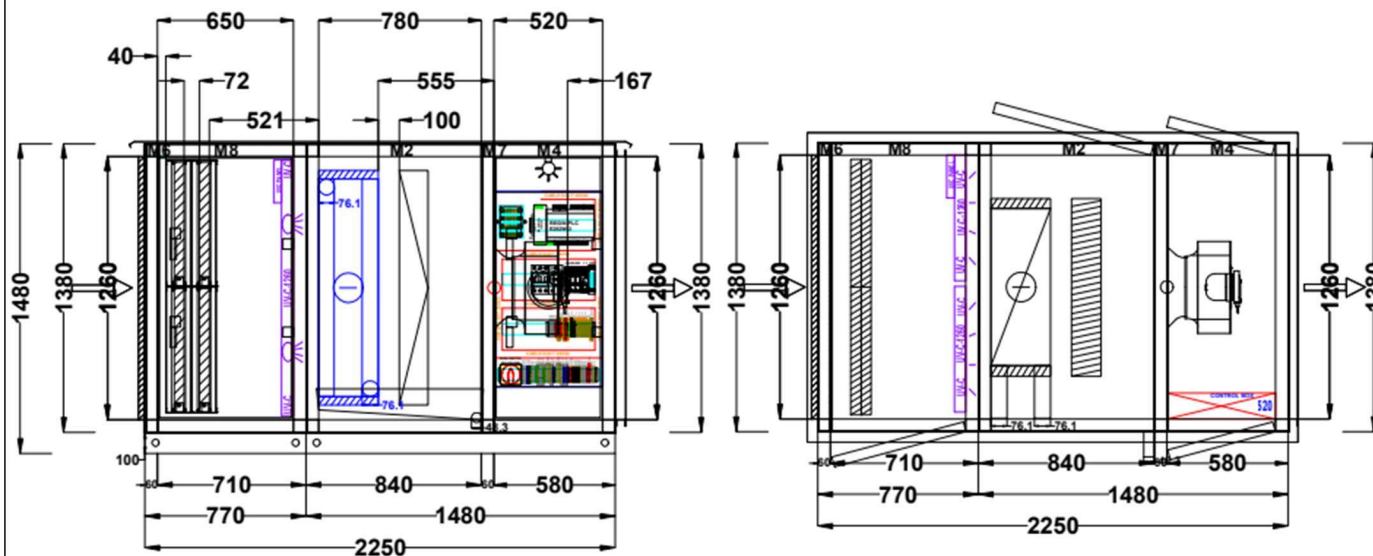


TECHNICAL DATA						 אביבית הפחם Manufacture and installation of all types of fireplaces, stoves, and heating systems. Avivit Hapach Ltd., P.O. Box 12345, Tel Aviv 6101201. Tel: +972-3-6444444, Fax: +972-3-6444444.	
Date	13.02.2024	Rev. Date	05.03.2024				
Project ID	8364	Tracking Number					
Project Name	יחידת טיפול באוויר לדוגמא						
AHU Name	AHU 1 - (1 QTY)					HVACCALC V.	2.2.4.60 01.03.2024
AHU Model	AVIT-2020 [646 CWC EH]					AVIVIT	1/7
RIGHT VIEW							

RIGHT VIEW



TOP VIEW

GENERAL SPECIFICATIONS

Air Flow 3.800 ft³/min			Frame TTC2 50		Dimensions (mm)(Size+Pedestal+Dampers+Pipes) W 1.530xH 1.480xL 2.330	
Air Velocity 222,4 ft/min			Insulation Material 50 mm Mineralwool 40 kg/m³		Total Weight 790 kg	Altitude 9 m
Coil Air Velocity 453 ft/min	Air Density 1,2501 kg/m³		Outside Sheet Material 1,2 mm Painted Galvanized (E)		Base Height 100 mm	Roof (Outside) Sheet
Design Outdoor Temp.(W-S) (46,04°F/99%)-(95°F/53%/WB:80,16°F%/DP:75,19°F)(TEL			Inside Sheet Material 0,8 mm Painted Galvanized (E)		Motor Power 2,4 kW	
Total Heating Capacity 20 kW	Total Cooling Capacity 267.380 Btu/h		Total Sensible Capacity 133.377 Btu/h		Total Absorbed Power 22,16 kW	
Specific Fan Power(SFP Total) 0,0427 W/(l/s)	ErP Compliance 2016 & 2018	ErP Code NRVU - UVU	fs-Pref 0,71	External Static Pressure 1 inAq	Return External Static Pressure	

SOUND POWER LEVEL (dB)

Frequency Hz		125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	רמת רעש במרחק של 1 מטר מפנל היחידה	39,5	59,6	62,9	64,5	58,2	39,3	26,1	67,0	dBA
Air Outlet Induct Sound Power Level	רמת רעש בפתח אוויר אספקה	53,9	75,7	83,8	84,2	82,4	71,7	72,4	88,2	dBA
Air Inlet Induct Sound Power Level	רמת רעש בפתח אוויר חוזר	38,0	54,1	58,9	48,5	44,9	36,6	31,6	56,9	dBA

MB MECHANICAL PROPERTY CLASSIFICATIONS

Model	CS Class	CAL Class -400 Pa (M) -400 Pa (R)	CAL Class +700 Pa (M) +400 Pa (R)	FBL Class	TT Class	TBF Class	CASING ACOUSTICAL INSULATION [dB]						
							125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
EVO-avit	D1	L1/L2	L1/L1	F9	T2	TB1	17	20	25	24	28	35	48

ACCESSORIES

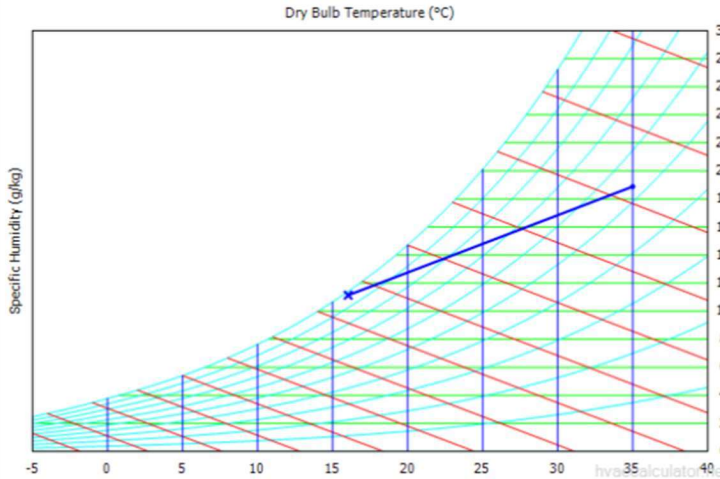
כמה רעש מורידה מעטפת היחידה מרעש של המפוח

Ball Siphon,IP67 BOX,Module Lamp,Sight Glass,Filter Pressure Measurement Probes,70C Automatic Reset, 90C Manual Reset Safety Thermostat,SSR Relay 70 Amp,DTV500 Differential Pressure Switch (x3),Control BOARD,Microswitches for UVC door

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avivithapach@avivit-hapach.co.il	Office Fax:	+972-8-8645559



TECHNICAL DATA					
Date	13.02.2024	Rev. Date	05.03.2024		
Project ID	8364	Tracking Number			
Project Name	יחידת טיפול באוויר לדוגמא				
AHU Name	AHU 1 - (1 QTY)				
AHU Model	AVIT-2020 [646 CWC EH]				
			HVACCALC V.	2.2.4.60 01.03.2024	
			AVIVIT	2/7	
					
FRESH AIR CONNECTION					
Connection Type		Control Type		Pressure Drop	
Flange + Louver				0,04 inAq	
Air Flow		Dimensions		Air Velocity	
3.800 ft³/min		W 1.260 mm x H 1.260 mm		222,4 ft/min	
SUPPLY CONNECTION					
Connection Type		Control Type		Pressure Drop	
Flange				0,04 inAq	
Air Flow		Dimensions		Air Velocity	
3.800 ft³/min		W 1.260 mm x H 1.260 mm		222,4 ft/min	
FILTER (M6)					
Air Flow	Condensation Pan	Slide Type	Hygienic	Spare Filter	Section Weight
3.800 ft³/min		Left Aligned	☐	☐	113,4 kg
Filter Type					
Amerglass Filter G2 12% Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
0,06 inAq / 0,18 inAq / 0,12 inAq	251,8 ft/min	592x592x48/4/NA			
Filter Type					
FARR Filter M6 65% Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
0,12 inAq / 0,35 inAq / 0,23 inAq	251,8 ft/min	592x592x48/4/A+			
* Filter Energy Performance; preferably energy classification					
* Frame sealing applied.					
ACCESSORIES (M6)					
Filter Pressure Measurement Probes, DTV500 Differential Pressure Switch (x2)					
					
FILTER (M8)					
Air Flow	Condensation Pan	Slide Type	Hygienic	Spare Filter	Section Weight
3.800 ft³/min		Right Aligned	☐	☐	161,1 kg
Filter Type			Electrical Connection		Electrical Current
Philips UVC Lamp UV with reflector			1P/230V/50V-Hz		0,96 A
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
0,02 inAq / 0,02 inAq / 0,02 inAq	237,2 ft/min	592x96x96/4/NA			
* Filter Energy Performance; preferably energy classification					
* Frame sealing applied.					

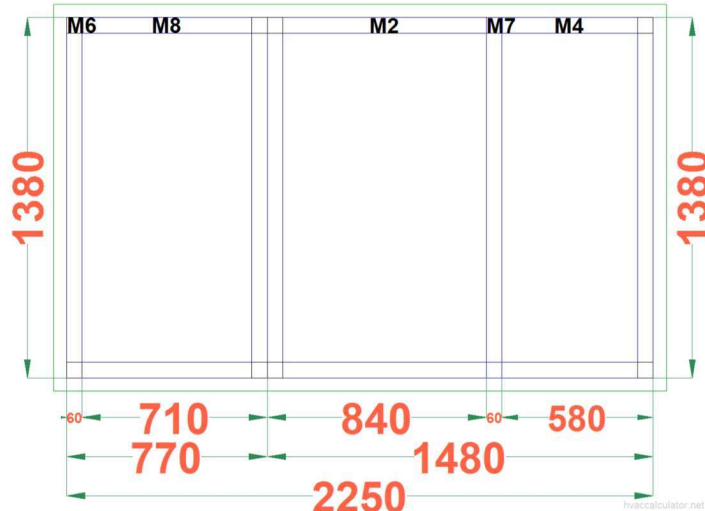
TECHNICAL DATA			
Date	13.02.2024	Rev. Date	05.03.2024
Project ID	8364	Tracking Number	
Project Name	יחידת טיפול באוויר לדוגמא		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH]		
HVACCALC V.			2.2.4.60 01.03.2024
AVIVIT			3/7
ACCESSORIES (M8)			
DTV500 Differential Pressure Switch			
			
COIL (Cooling) (Wet Surface) (M2)			
Air Flow	Capacity / Sensible	Required Capacity	Face Velocity
3.800 ft³/min	267.380/133.377 Btu/h		453 ft/min
Pitch	Quantity	Section Weight	
2,5	1	279,3 kg	
Coil Code	Frterm-40 x 35 5/8 26T 6R 750A 10FPI 26NC		
Tube Material	Fin Material	Function	
Copper	Aluminium	Cooling	
Tube Thickness	Fin Thickness	Mixing Ratio	
0,4 mm	0,12 mm	0 %	
Size (W x H x L) mm	Conn. Material	Frame Material	
750 x 1.040 x 207,8	Steel	Galvanized Steel	
Droplet Elimin. / Press. Drop	Condensation Pan / Hmin U-Trap		
Polypropylene / 0,12 inAq / 23,23 kg / QTY:1	Stainless Steel DN40 (1-1/2) (48,3 mm (ød)) (Connection:Right) (Pressure:Negative) / 66,13 mm		
Fluid Kind	Fluid In / Out		
WATER	45/54,99 °F		
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature		
95 °F	60,86 °F		
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature		
80,16 °F	60,45 °F		
Air Inlet Relative Humidity	Air Outlet Relative Humidity		
53 %	97,72 %		
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow		
83,64 - 44,31 kJ/kg	26.679 lb/h / 53,29 gal/min		
Air Press.Drop(Wet/Dry)	Fluid Press.Drop / Fluid Velocity		
0,83 inAq / 0,5 inAq	6,42 kPa / 131,5 ft/min		
Coil Surface Area	Tube Inner Volume		
117 m²	33,60 L		
Manifold / Conn.QTY	Conn.Direction		
1 / 1	Right		
Connection Sizes			
76,1 / 76,1 mm (2-1/2" DN65 / 2-1/2" DN65)			
Bypass Damper			
			
Air Condensation	Hygienic	Blygold	
56,5898 l/h	☐	☐	
ACCESSORIES (M2)			
Ball Siphon			
			

TECHNICAL DATA			
Date	13.02.2024	Rev. Date	05.03.2024
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Project Name	יחידת טיפול באוויר לדוגמא		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH]		
		HVACALC V.	2.2.4.60 01.03.2024
		AVIVIT	4/7
ELECTRICAL HEATER (M7)			
Air Flow	Air Velocity	Quantity	Pressure Drop
3.800 ft³/min	222,4 ft/min	1	0,2 inAq
Capacity	Type	Function	Step
20 kW	Serpentine	Heating	1
Electrical Connection	Electrical Current		
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature		
46,04 °F	62,02 °F		
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature		
45,9 °F	53,01 °F		
Air Inlet Relative Humidity	Air Outlet Relative Humidity		
99 %	55,19 %		
Air Inlet Enthalpy	Air Outlet Enthalpy		
24,21 kJ/kg	33,24 kJ/kg		
ACCESSORIES (M7)			
70C Automatic Reset, 90C Manual Reset Safety Thermostat, SSR Relay 70 Amp			

TECHNICAL DATA									
Date	13.02.2024			Rev. Date	05.03.2024				
Project ID	8364			Tracking Number					
Project Name	יחידת טיפול באוויר לדוגמא								
AHU Name	AHU 1 - (1 QTY)				HVACCALC V.		2.2.4.60 01.03.2024		
AHU Model	AVIT-2020 [646 CWC EH]				AVIVIT		5/7		
SUPPLY FAN (M4)									
Air Flow	Motor Type		Fan Model			Quantity	Section Weight		
3.800 ft³/min	EC		Ziehl-Abegg-RH40C-ZID.DC.CR 114512			1	160,8 kg		
Internal Static Pressure	Motor P./Pha./Volt./Freq.		Isolator			Isolator Count			
1,6 inAq	2,4 kW/3P/400V/50-60V-Hz								
External Static Pressure			Backup Fan		Backup Motor		Backup Inverter		
1 inAq			0		0		0		
Total Static Pressure									
Total Pressure									
Total / Static Efficiency									
Shaft Power / Absorbed Power	Absorbed Power With VFD								
1,94 / 1,94 kW	1,94 kW								
Fan Speed									
2278 rpm (Max. 2400 rpm)									
	Air Density								
	1,2118 kg/m³								
Specific Fan Power (SFP _e int)	Electrical Current								
0,0427 W/(l/s)	2,80 A (Max. 3,46 A)								
Sound Power Level (dB)									
Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot
Outlet Side	46,1	55,4	75,7	76,4	82,1	79,1	74,8	77,1	86,1 dBA
Inlet Side	43,5	52,0	72,5	71,8	70,5	71,4	68,8	75,3	80,0 dBA
* The fan system effect is taken into account in the fan performance									
* The fan calculated for wet conditions									
Energy Efficiency Class									
ACCESSORIES (M4)									
IP67 BOX, Module Lamp, Sight Glass									

TECHNICAL DATA			
Date	13.02.2024	Rev. Date	05.03.2024
Project ID	8364	Tracking Number	
Project Name	יחידת טיפול באוויר לדוגמא		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH]		
			AVIVIT HAPACH אביבית הפח מחלקת מכירות מחלקת הנדסה מחלקת שיווק מחלקת תחזוקה מחלקת אספקה מחלקת פיתוח מחלקת QA/QC מחלקת HR מחלקת IT מחלקת כספים מחלקת משפטית מחלקת אסטרטגיה מחלקת אחריות
			HVACALC V. 2.2.4.60 01.03.2024
			AVIVIT 6/7

LOADING SIZES



LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1	M6	Filter	1	1.380 mm	1.480 mm	90 mm	113,4 kg	113,4 kg
S1	M8	Filter	1	1.440 mm	1.480 mm	710 mm	161,1 kg	161,1 kg
	2 pcs.					800 mm	274,5 kg	274,5 kg
S2	M2	Cooling Coil	1	1.530 mm	1.480 mm	840 mm	279,3 kg	279,3 kg
S2	M7	Electric Heater	1	1.380 mm	1.480 mm	60 mm	75,61 kg	75,61 kg
S2	M4	Fan	1	1.500 mm	1.480 mm	630 mm	160,8 kg	160,8 kg
	3 pcs.					1.530 mm	516 kg	516 kg
2 pcs.	5 pcs.						790 kg	790 kg

[illegible]

		Value	2016	2018
	Product	AVIVIT		
	Erp	2016 & 2018		
A	Manufacturer	AVIVIT		
B	Model Identifier	AVIT-2020		
C	ErP Code	NRVU - UVU		
D	Type Of Drive	Direct driven EC motor, speed controlled	---	Required
E	Type Of HRS	---		
	HRS Damper	---	Required	Required
F	Thermal Efficiency of HRS	---	---	---
G	Nominal Flow Rate	1,79 m³/s	---	
H	Effective Electrical Power Input	1,94 kW	---	
I	SFPint	0,0427 W/(l/s)	---	<= 250
J	Face Velocity	222,4 ft/min	---	<= 230
K	Nominal External Drop Δps, Ext	1 inAq	---	
L	Internal Pressure Drop Δps, Int	1,6 inAq	---	
M	Additional Pressure Drop Δps, Add	0,34 inAq	---	
N	Static Fan Efficiency EC327/2011	59,90 %	---	
O	Declared Maximum Internal Leakage Rate	---		
P	Energy Performance Of Filters	NA	---	
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	---	Required
R	Casing Sound Power Level (Lwa)	67,0 dBA		
S	Internet Address Of Instructions	www.avivit-hapach.co.il		

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