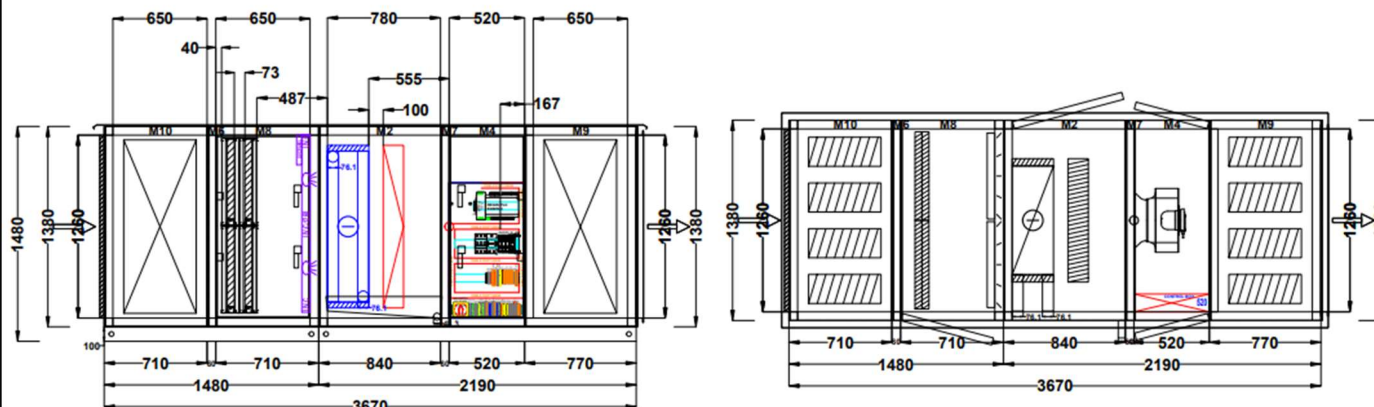


TECHNICAL DATA			
Date	13.02.2024	Rev. Date	25.03.2024
Project ID	8448	Tracking Number	2F+UVC+CC
Project Name	יטא לדוגמא עם משתיקי קול באספקה וחדרה		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH SL]		

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 3.750	
Air Velocity 222,4 ft/min			Insulation Material 50 mm Mineralwool 40 kg/m³		Total Weight 1.114 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 22,23 kW	
Specific Fan Power(SFP Total) 0,0425 W/(l/s)	ErP Compliance 2018	ErP Code NRVU - UVU	fs-Pref 0,7	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		35,6	48,3	50,8	51,8	45,5	30,7	18,0	54,8	dBA
Air Outlet Induct Sound Power Level		50,3	65,1	72,5	72,4	70,5	63,7	64,8	76,9	dBA
Air Inlet Induct Sound Power Level		33,1	43,1	47,1	37,2	35,5	30,7	27,4	45,6	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

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

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TECHNICAL DATA					
Date	13.02.2024	Rev. Date	25.03.2024		
Project ID	8448	Tracking Number	2F+UVC+CC		
Project Name	יטא לדוגמא עם משתיקי קול באספקה וחזרה				
AHU Name	AHU 1 - (1 QTY)				HVACALC V.
AHU Model	AVIT-2020 [646 CWC EH SL]				2.2.4.61 18.03.2024
				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	
SILENCER (M10)					
Air Flow	Acoustical Insulation (250 Hz)	Air Velocity	Pressure Drop	Silencer Thickness	Section Weight
3.800 ft³/min	11 dB	559 ft/min	0,06 inAq	200 mm	190,9 kg
Silencer Code			Silencer Material		Hygienic
200d 100s 4n 500L 1195H 1245A			Rock Wool 50 mm (70kg/m3)		☐
Condensation Pan					
Acoustical Insulation (dB)					
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz
2,2	3,3	11,0	10,3	11,7	11,7
					4000 Hz
					8,4
					8000 Hz
					8,1
ACCESSORIES (M10)					
FILTER (M6)					
Air Flow	Condensation Pan	Slide Type	Hygienic	Spare Filter	Section Weight
3.800 ft³/min		Left Aligned	☐	☐	85,46 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)					
					

TECHNICAL DATA			
Date	13.02.2024	Rev. Date	25.03.2024
Project ID	8448	Tracking Number	2F+UVC+CC
Project Name	יטא לדוגמא עם משתיקי קול באספקה וחזרה		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH SL]		

FILTER (M8)

Air Flow 3.800 ft³/min	Condensation Pan	Slide Type Right Aligned	Hygienic ☐	Spare Filter ☐	Section Weight 161,1 kg
Filter Type Philips UVC Lamp UV with reflector			Electrical Connection 1P/230V/50V-Hz	Electrical Current 0,96 A	
Initial / Final / Design P.Drop 0,02 inAq / 0,02 inAq / 0,02 inAq	Air Velocity 237,2 ft/min	Size/Quantity/EC* 592x96x96/4/NA	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M8)

DTV500 Differential Pressure Switch

**COIL (Cooling) (Wet Surface) (M2)**

Air Flow 3.800 ft³/min	Capacity / Sensible 267.380/133.377 Btu/h	Required Capacity	Face Velocity 453 ft/min	Pitch 2,5	Quantity 1	Section Weight 279,3 kg
Coil Code Friterm-40 x 35 5/8 26T 6R 750A 10FPI 26NC			Tube Material Copper	Fin Material Aluminium		Function Cooling
Droplet Elim. / Press. Drop Polypropylene / 0,12 inAq / 23,23 kg / QTY:1		Condensation Pan / Hmin U-Trap Stainless Steel DN40 (1-1/2) (48,3 mm (ød)) (Connection:Right) (Pressure:Negative) / 69,4 mm		Tube Thickness 0,4 mm	Fin Thickness 0,12 mm	Mixing Ratio 0 %
Fluid Kind WATER		Fluid In / Out 45/54,99 °F		Size (W x H x L) mm 750 x 1.040 x 207,8	Conn. Material Steel	Frame Material Galvanized Steel
Air Inlet Drybulb Temperature 95 °F		Air Outlet Drybulb Temperature 60,86 °F				
Air Inlet Wetbulb Temperature 80,16 °F		Air Outlet Wetbulb Temperature 60,45 °F				
Air Inlet Relative Humidity 53 %		Air Outlet Relative Humidity 97,72 %				
Air Inlet - Outlet Enthalpy 83,64 - 44,31 kJ/kg		Fluid Flow / Vol. Flow 26.679 lb/h / 53,29 gal/min				
Air Press.Drop(Wet/Dry) 0,83 inAq / 0,5 inAq		Fluid Press.Drop / Fluid Velocity 6,42 kPa / 131,5 ft/min				
Coil Surface Area 117 m²		Tube Inner Volume 33,60 L		Air Condensation 56,5898 l/h Hygienic ☐ Biogold ☐		
Manifold / Conn.QTY 1 / 1		Conn.Direction Right				
Connection Sizes 76,1 / 76,1 mm (2-1/2" DN65 / 2-1/2" DN65)						
Bypass Damper						

TECHNICAL DATA			
Date	13.02.2024	Rev. Date	25.03.2024
Project ID	8448	Tracking Number	2F+UVC+CC
Project Name	יטא לדוגמא עם משתיקי קול באספקה וחדרה		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH SL]		

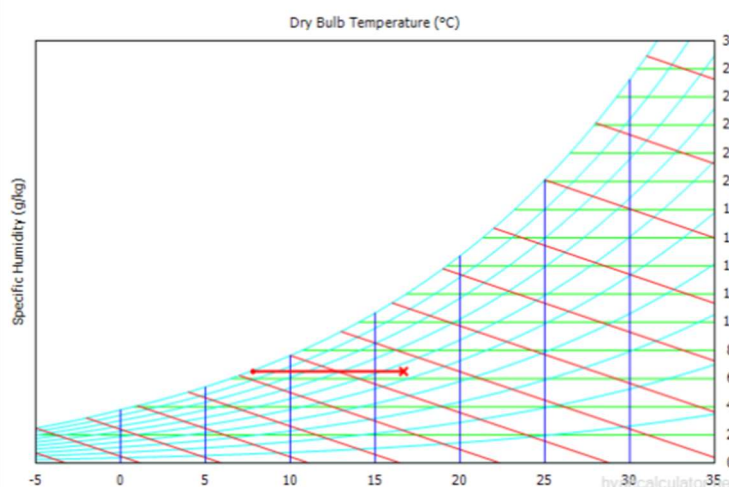
ACCESSORIES (M2)

Ball Siphon



ELECTRICAL HEATER (M7)

Air Flow 3.800 ft³/min	Air Velocity 222,4 ft/min	Quantity 1	Pressure Drop 0,2 inAq	Hygienic ☐	Section Weight 74,02 kg
Capacity 20 kW	Type U-Serpentine	Function Heating	Step 1 Step	Air Density 1,2501 kg/m³	
Electrical Connection 3P/380V/50V-Hz	Electrical Current 30,39 A				
Air Inlet Drybulb Temperature 46,04 °F	Air Outlet Drybulb Temperature 62,02 °F				
Air Inlet Wetbulb Temperature 45,9 °F	Air Outlet Wetbulb Temperature 53,01 °F				
Air Inlet Relative Humidity 99 %	Air Outlet Relative Humidity 55,19 %				
Air Inlet Enthalpy 24,21 kJ/kg	Air Outlet Enthalpy 33,24 kJ/kg				

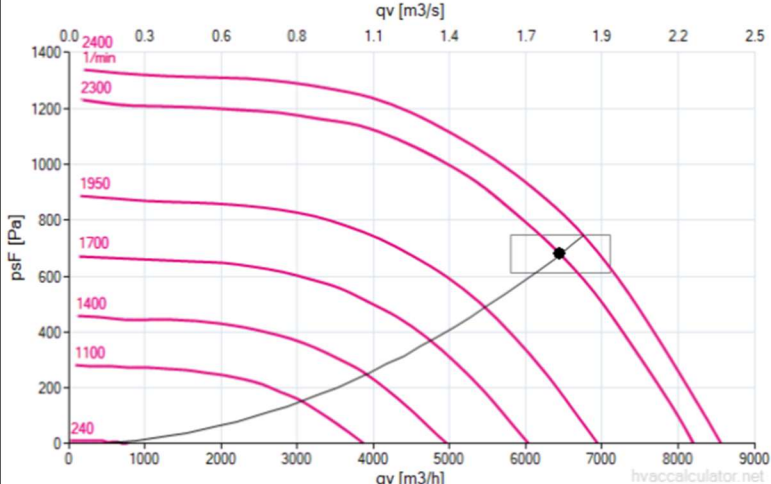


ACCESSORIES (M7)

70C Automatic Reset, 90C Manual Reset Safety Thermostat, SSR Relay 70 Amp



TECHNICAL DATA			
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Project ID	8448	Tracking Number	2F+UVC+CC
Project Name	יטא לדוגמא עם משתיקי קול באספקה וחזרה		
AHU Name	AHU 1 - (1 QTY)		
AHU Model	AVIT-2020 [646 CWC EH SL]		
			AVIVIT HAPACH Manufacture and Installation of Air Conditioning Units תכנון, ייצור והתקנת יחידות קירור אוויר www.avivit-hapach.co.il 072-8645556 072-8645557 אביבית הפח יצור והתקנת יחידות קירור אוויר 072-8645556 072-8645557
			HVACALC V. 2.2.4.61 18.03.2024 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	133,8 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	
1,73 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				
3,08 inAq				
Total / Static Efficiency				
68,28 / 60,61 %				
Shaft Power / Absorbed Power	Absorbed Power With VFD			
2,01 / 2,01 kW	2,01 kW			
Fan Speed				
2301 rpm (Max. 2400 rpm)				
	Air Density			
	1,2118 kg/m³			
Specific Fan Power (SFP _{int})	Electrical Current			
0,0425 W/(l/s)	2,90 A (Max. 3,46 A)			

Sound Power Level (dB)									
Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot
Outlet Side	46,0	55,0	76,1	76,4	82,2	79,4	74,8	77,1	86,3 dBA
Inlet Side	43,1	51,4	73,1	71,8	70,7	71,6	68,8	75,4	80,2 dBA

* The fan system effect is taken into account in the fan performance

* The fan calculated for wet conditions

Energy Efficiency Class	A⁺
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ACCESSORIES (M4)	
IP67 BOX,Module Lamp,Sight Glass	
	

SILENCER (M9)					
Air Flow	Acoustical Insulation (250 Hz)	Air Velocity	Pressure Drop	Silencer Thickness	Section Weight
3.800 ft³/min	11 dB	559 ft/min	0,06 inAq	200 mm	189,7 kg
Silencer Code			Silencer Material		Hygienic
200d 100s 4n 500L 1195H 1245A			Rock Wool 50 mm (70kg/m3)		☐

Acoustical Insulation (dB)							
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
2,2	3,3	11,0	10,3	11,7	11,7	8,4	8,1

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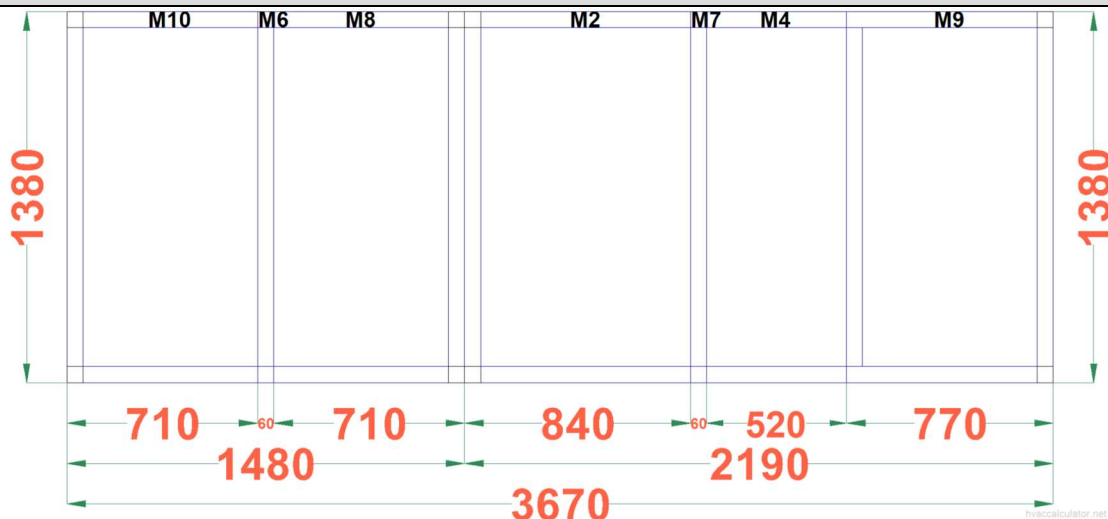


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ACCESSORIES (M9)



LOADING SIZES



LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1		Silencer	1	1.380 mm	1.480 mm	740 mm	190,9 kg	190,9 kg
S1		Filter	1	1.380 mm	1.480 mm	60 mm	85,46 kg	85,46 kg
S1		Filter	1	1.440 mm	1.480 mm	710 mm	161,1 kg	161,1 kg
	3 pcs.					1.510 mm	438 kg	438 kg
S2		Cooling Coil	1	1.530 mm	1.480 mm	840 mm	279,3 kg	279,3 kg
S2		Electric Heater	1	1.380 mm	1.480 mm	60 mm	74,02 kg	74,02 kg
S2		Fan	1	1.500 mm	1.480 mm	520 mm	133,8 kg	133,8 kg
S2		Silencer	1	1.380 mm	1.480 mm	820 mm	189,7 kg	189,7 kg
	4 pcs.					2.240 mm	677 kg	677 kg
2 pcs.	7 pcs.						1.114 kg	1.114 kg

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Ecodesign Requirements Table					
		Value		2016	2018
	Product	AVIVIT			
	Erp	2018			
A	Manufacturer	AVIVIT			
B	Model Identifier	AVIT-2020 [646 CWC EH SL]			
C	ErP Code	NRVU - UVU			
D	Type Of Drive	Direct driven EC motor, speed controlled	---	Required	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	2,01 kW	---		
I	SFPint	0,0425 W/(l/s)	---	<= 250	<= 230
J	Face Velocity	222,4 ft/min	---		
K	Nominal External Drop Δps, Ext	1 inAq	---		
L	Internal Pressure Drop Δps, Int	1,73 inAq	---		
M	Additional Pressure Drop Δps, Add	0,34 inAq	---		
N	Static Fan Efficiency EC327/2011	60,61 %	---		
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)	54,8 dBA			
S	Internet Address Of Instructions	www.avivit-hapach.co.il			

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