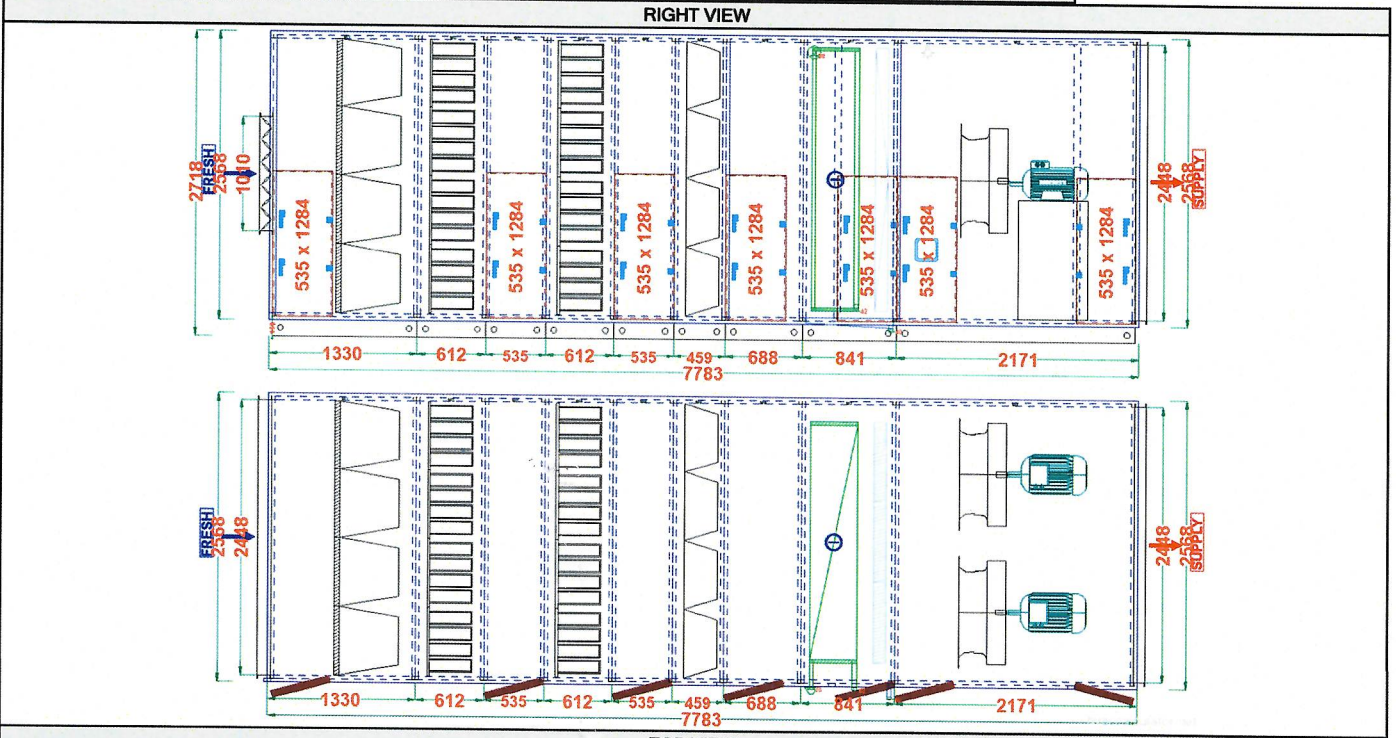
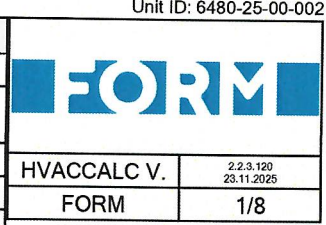


TECHNICAL DATA			
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Project ID	6480	Tracking Number	
Project Name	DARPHANE SANTRAL İLAVE		
AHU Name	DS-02 - (1 QTY)		
AHU Model	FKS 32 X 32 [4500 DXC]		



GENERAL SPECIFICATIONS

Air Flow	45.000 m³/h		Model / Frame	FKS / Galvenize Steel Profile		Dimensions (mm)(Size+Pedestal+Dampers+Pipes)	W 2.718xH 2.748xL 8.003	
Air Velocity	2,09 m/s (V4)		Insulation Material	60 mm Rockwool 70 kg/m³		Total Weight	4.500 kg	
Coil Air Velocity	2,63 m/s		Outside Sheet Material	0,8 mm Painted Galvanize		Base	3 mm Boyalı / 150 mm	
Design Outdoor Temp.(W-S)	(-3°C/99%)-(27°C/40%/WB:17,7°C%/DP:12,3°C)(ISTANBUL)		Inside Sheet Material	0,8 mm Galvanize		Roof (Inside)	N/A	
	Air Density	Altitude	Total Cooling Capacity	Total Sensible Capacity		Total Absorbed Power		
	1,2980 kg/m³	40 m	161,7 kW	157,8 kW		48,84 kW		
Specific Fan Power(SFP Total)	121,3 W/(m³/s)		Motor Power	External Static Pressure		Return External Static Pressure		
			22 kW x 2	500 Pa				
ErP Code	NRVU - UVU		fs-Pref (W-S)	1 / 1				

SOUND POWER LEVEL (dB)




Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	79,0	74,2	80,7	69,1	64,9	56,6	37,5	78,2	dB(A)
Air Outlet Induct Sound Power Level	99,9	98,4	113,4	101,2	96,9	93,4	83,2	110,9	dB(A)
Air Inlet Induct Sound Power Level	58,3	70,9	70,9	65,9	56,0	43,5	20,5	71,4	dB(A)

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
FKS	D1(M)	L1(M)/L1(R)	L1(M)/L1(R)	F9(M)	T2(M)	TB1(M)	21	24	33	32	32	37	46

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 Report to performance data	 Report to performance data	TECHNICAL DATA				
		Date	08.12.2025	Rev. Date	08.12.2025	
Project ID		6480	Tracking Number			
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AHU Name		DS-02 - (1 QTY)				
AHU Model		FKS 32 X 32 [4500 DXC]				
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ACCESSORIES

Bulk Siphon,Lightening_Ship Type,Observation Glass,Door Switch (Electronic),Panic Button

FRESH AIR CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	152 Pa
Air Flow	Dimensions	Air Velocity
45.000 m³/h	W 2.448 mm x H 1.010 mm	5,06 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		15 Pa
Air Flow	Dimensions	Air Velocity
45.000 m³/h	W 2.448 mm x H 2.448 mm	2,09 m/s

FILTER (M1)

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
45.000 m³/h		None	<input type="checkbox"/>	<input type="checkbox"/>	682 kg
Filter Type					
G-4 Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
81 Pa / 131 Pa / 106 Pa	2,55 m/s	592x592x48/14/NA			
Filter Type					
F-7 Bag					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
74 Pa / 174 Pa / 124 Pa	2,55 m/s	592x592x535/14/C			

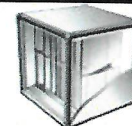
* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

DOORS (M1)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M1)



FILTER (M2)

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
45.000 m³/h		None	<input type="checkbox"/>	<input type="checkbox"/>	374 kg
Filter Type					
Active Carbon Filter Cartridge Carbon Cartridge					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
369 Pa / 369 Pa / 369 Pa	2,95 m/s	550x550x400/14/NA			

* Filter Energy Performance; preferably energy classification

* Active Carbon Filter Cartridge : ECC Certified according to EN 16890:2016



* Frame sealing applied.

ACCESSORIES (M2)



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AHU Model	FKS 32 X 32 [4500 DXC]					

EMPTY SECTION (M3)

Air Flow	Droplet Eliminator	Condensation Pan / Hmin U-Trap	Pressure Drop	Section Weight
45.000 m ³ /h			0 Pa	226 kg

DOORS (M3)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M3)**FILTER (M4)**

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
45.000 m ³ /h		None	<input type="checkbox"/>	<input type="checkbox"/>	374 kg
Filter Type					
Active Carbon Filter Cartridge Carbon Cartridge					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
369 Pa / 369 Pa / 369 Pa	2,95 m/s	550x550x400/14/ NA			

* Filter Energy Performance; preferably energy classification

* Active Carbon Filter Cartridge : ECC Certified according to EN 16890:2016

* Frame sealing applied.

ACCESSORIES (M4)**EMPTY SECTION (M5)**

Air Flow	Droplet Eliminator	Condensation Pan / Hmin U-Trap	Pressure Drop	Section Weight
45.000 m ³ /h			0 Pa	226 kg

DOORS (M5)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M5)**FILTER (M6)**

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
45.000 m ³ /h		None	<input type="checkbox"/>	<input type="checkbox"/>	305 kg
Filter Type					
F-7 COMPACT Compact					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
167 Pa / 267 Pa / 217 Pa	2,55 m/s	592x592x292/14/E			






* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M6)

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EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY		EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY		TECHNICAL DATA					
				Date	08.12.2025	Rev. Date	08.12.2025		
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ISTANBUL				Project Name	DARPHANE SANTRAL İLAVE				
				AHU Name	DS-02 - (1 QTY)				
				AHU Model	FKS 32 X 32 [4500 DXC]				
EMPTY SECTION (M9)									
Air Flow	Droplet Eliminator		Condensation Pan / Hmin U-Trap		Pressure Drop	Section Weight			
45.000 m ³ /h					0 Pa	269,1 kg			
DOORS (M9)									
ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door		
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left			
ACCESSORIES (M9)									

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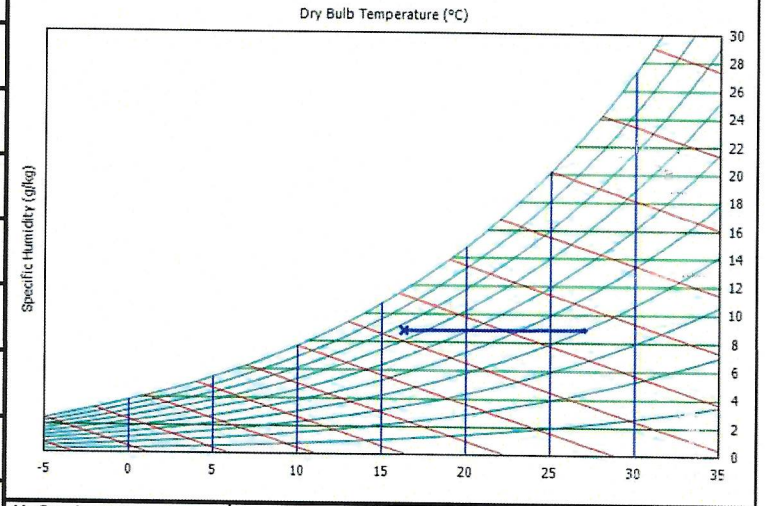


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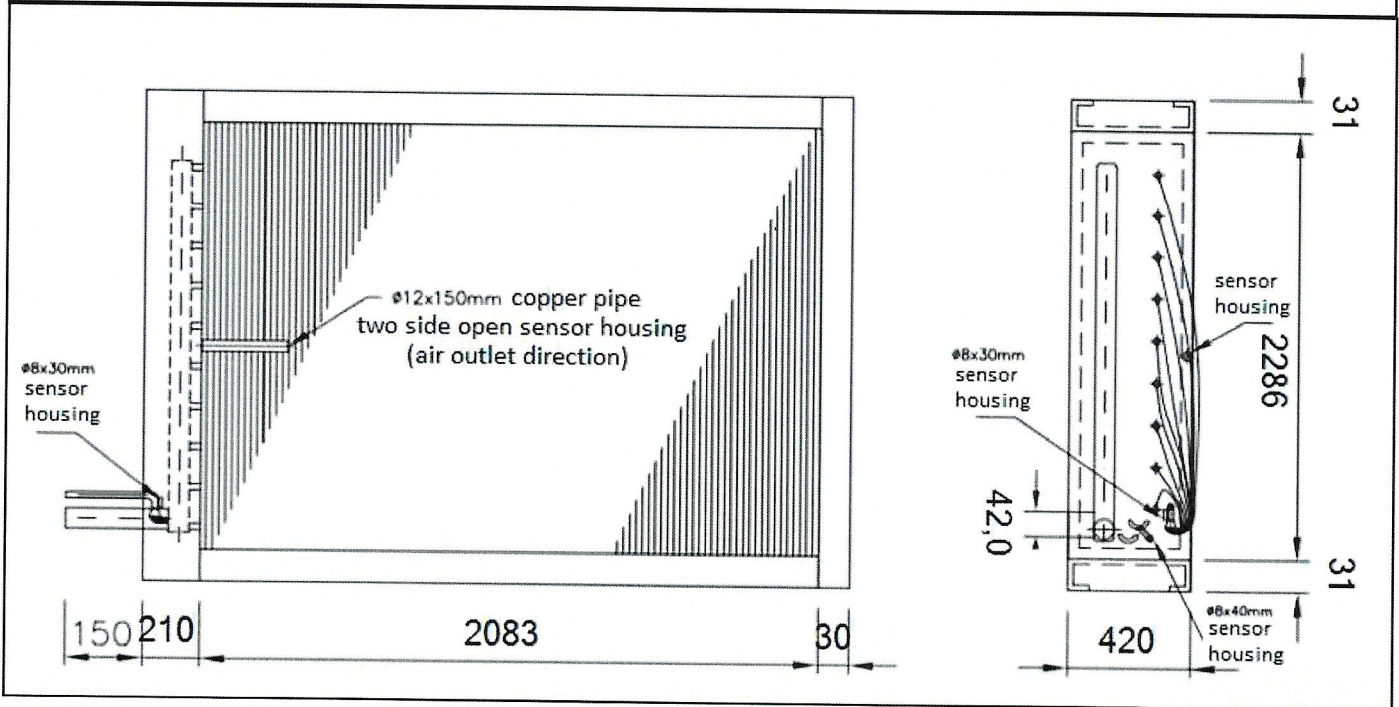
COIL (DX) (Wet Surface) (M7)

Air Flow	Capacity / Sensible	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
45.000 m³/h	161,7/157,8 kW		2,63 m/s	2,5	1	564 kg
Coil Code		Tube Material				
F 25 x 22 3/8 90T 4R 2083A 2.5P 45NC		Copper				
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap		Fin Material		Function
Polypropylene / 15 Pa / 30,08 kg / QTY:3		Stainless Steel_304 (40 mm (ød)) (Connection:Right) (Pressure:Negative) / 207 mm		Aluminium		Cooling
Fluid Kind		Evaporation/Condensation/SCD/OH		Fin Thickness		Mixing Ratio
R410A		8,5/45/7/5 °C		0,1 mm		0 %
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature		Conn. Material		Frame Material
27 °C		16,3 °C		Copper		Galvanized Steel
Air Inlet Wetbulb Temperature		Air Outlet Wetbulb Temperature		Size (W x H x L) mm		
17,7 °C		13,8 °C		2.143 x 2.336 x 420		
Air Inlet Relative Humidity		Air Outlet Relative Humidity		Air Condensation		Kv Value
40 %		76 %		5,6297 l/h		0,00
Air Inlet - Outlet Enthalpy		Fluid Flow / Vol. Flow		Hygienic		Blygold
49,92 - 38,72 kJ/kg		3.477 kg/h / 90.456 dm³/h		<input type="checkbox"/>		<input type="checkbox"/>
Air Press.Drop(Wet/Dry)		Fluid Press.Drop / Fluid Velocity		Air Condensation		Kv Value
66 Pa / 64 Pa		40,44 kPa / 0,37 m/s		5,6297 l/h		0,00
Coil Surface Area		Tube Inner Volume		Hygienic		Blygold
315 m²		54,84 L		<input type="checkbox"/>		<input type="checkbox"/>
Manifold / Conn.QTY		Conn.Direction		Air Condensation		Kv Value
2 / 1		Right		5,6297 l/h		0,00
Connection Sizes		Bypass Damper		Hygienic		Blygold
28 / 42 mm (1-1/8" DN25 / 1-5/8" DN40)				<input type="checkbox"/>		<input type="checkbox"/>



Air Condensation	Kv Value	Hygienic	Blygold
5,6297 l/h	0,00	<input type="checkbox"/>	<input type="checkbox"/>

* Coil operates in dehumidifier mode.



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AHU Name	DS-02 - (1 QTY)		
AHU Model	FKS 32 X 32 [4500 DXC]		

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DOORS (M7)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Right	<input type="checkbox"/>

ACCESSORIES (M7)

Bulk Siphon



SUPPLY FAN (M8)

Air Flow	22.500 m³/h x 2 (45.000 m³/h)	Motor Type	AC-3MAS 180LA4	Fan Model	Yilida-SYWB 800 RH	Quantity	2	Section Weight	1.480 kg
Internal Static Pressure	1.433 Pa	Motor P./Pha./Volt./Freq.	22 kW/3P/380V/50V-Hz x 2	Power Margin	22 %	K-Factor		Isolator	Arch x 4
External Static Pressure	500 Pa	Motor Speed	1500 (1473)rpm	Backup Fan	0	Backup Motor	0	Backup Inverter	0
Total Static Pressure	1.933 Pa	Fan Bush Number	2517						
Total Pressure	2.009 Pa	Motor Shaft Diameter	Ø48						
Total / Static Efficiency	69,78 / 67,14 %								
Motor / Inverter Efficiency	93,70 / 97,00 %	<input type="checkbox"/> Frequency Inverter Included							
Shaft Power / Absorbed Power	17,99 / 23,71 kW x 2	Absorbed Power With VFD	24,42 kW x 2						
Fan Speed	1547 rpm (Max. 1730 rpm)	Running Frequency	52,51 Hz (Max. 58,72 Hz)						
Fan Outlet Air Velocity	12,13 m/s	Air Density	1,2980 kg/m³						
Specific Fan Power (SFP int)	121,3 W/(m³/s)	Electrical Current	41,22 A x 2 (Max. 50,40 A x 2)						

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	102,2	105,5	103,4	101,9	97,6	93,5	90,0	83,2	103,3	dB(A)
Inlet Side	76,0	89,4	94,8	98,7	97,6	94,7	91,0	82,1	95,3	dB(A)

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

* The fan calculated for wet conditions

* Sound power level values are calculated for multiple fans

DOORS (M8)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>
2	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Left	Right	<input type="checkbox"/>

ACCESSORIES (M8)

Lightening_Ship Type, Observation Glass, Door Switch (Electronic), Panic Button



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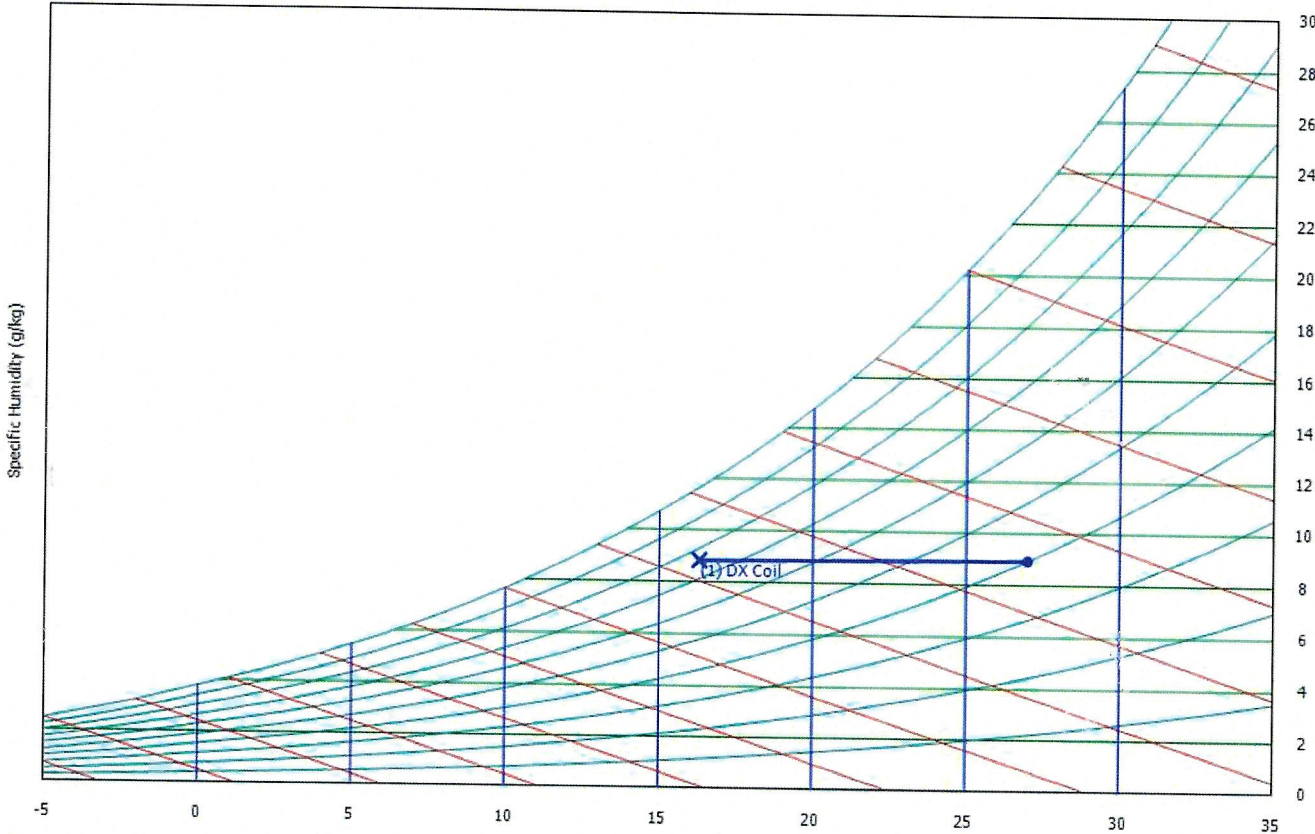
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AHU Model	FKS 32 X 32 [4500 DXC]		



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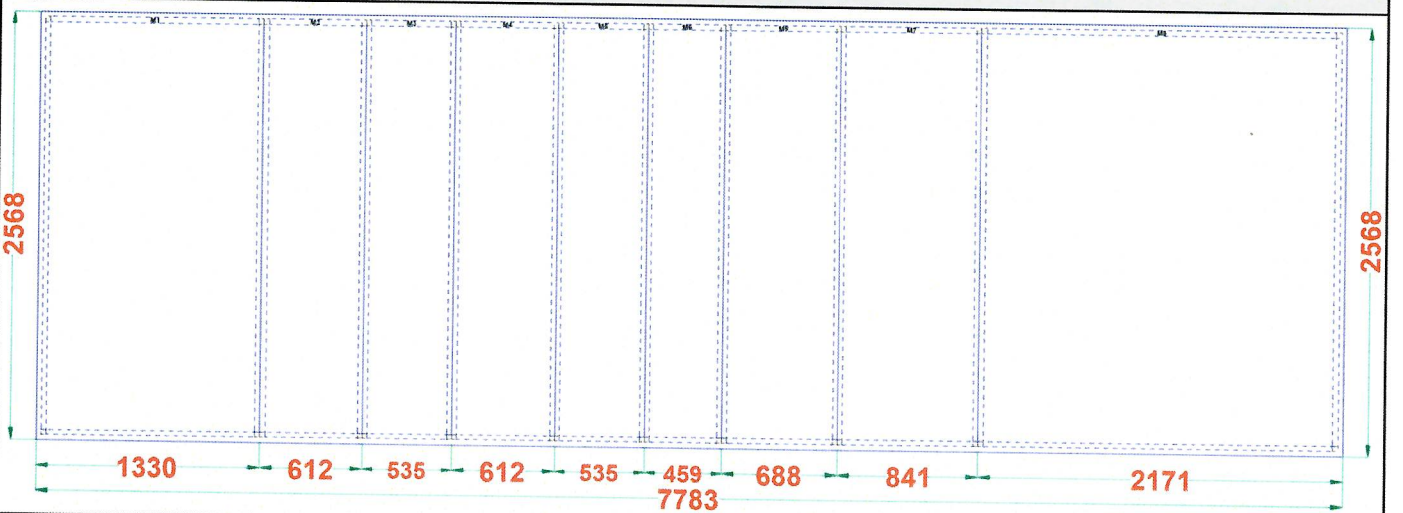
PSYCHROMETRIC CHART

Dry Bulb Temperature (°C)



Text	Entry Temperature	Entry Relative Humidity	Entry Humidity	Exit Temperature	Exit Relative Humidity	Exit Humidity
(1) DX Coil	27 °C	40 %	8,93 g/kg	16,3 °C	76 %	8,82 g/kg

LOADING SIZES



LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1	M1	Filter	1	2.628 mm	2.718 mm	1.450 mm	682 kg	682 kg

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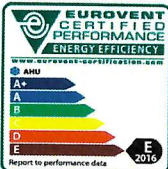


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LOADING SIZES								
Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
	1 pcs.					1.450 mm	682 kg	682 kg
S2	M2	Filter	1	2.568 mm	2.718 mm	612 mm	374 kg	374 kg
	1 pcs.					612 mm	374 kg	374 kg
S3	M3	Empty	1	2.628 mm	2.718 mm	535 mm	226 kg	226 kg
	1 pcs.					535 mm	226 kg	226 kg
S4	M4	Filter	1	2.568 mm	2.718 mm	612 mm	374 kg	374 kg
	1 pcs.					612 mm	374 kg	374 kg
S5	M5	Empty	1	2.628 mm	2.718 mm	535 mm	226 kg	226 kg
	1 pcs.					535 mm	226 kg	226 kg
S6	M6	Filter	1	2.568 mm	2.718 mm	459 mm	305 kg	305 kg
	1 pcs.					459 mm	305 kg	305 kg
S7	M9	Empty	1	2.628 mm	2.718 mm	688 mm	269,1 kg	269,1 kg
	1 pcs.					688 mm	269,1 kg	269,1 kg
S8	M7	DX Coil	1	2.718 mm	2.718 mm	841 mm	564 kg	564 kg
	1 pcs.					841 mm	564 kg	564 kg
S9	M8	Fan	1	2.628 mm	2.718 mm	2.271 mm	1.480 kg	1.480 kg
	1 pcs.					2.271 mm	1.480 kg	1.480 kg
9 pcs.	9 pcs.						4.500 kg	4.500 kg

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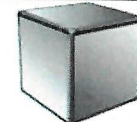
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	Date	08.12.2025	Rev. Date	08.12.2025	
Project ID	6480	Tracking Number			
Project Name	DARPHANE SANTRAL İLAVE				
AHU Name	DS-01 - (1 QTY)				HVACCALC V.
AHU Model	FKS 24 X 24 [2400 DXC]				FORM
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EMPTY SECTION (M3)

Air Flow	Droplet Eliminator	Condensation Pan / Hmin U-Trap	Pressure Drop	Section Weight
24.000 m ³ /h			0 Pa	181,2 kg

DOORS (M3)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M3)**FILTER (M4)**

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
24.000 m ³ /h		None	<input type="checkbox"/>	<input type="checkbox"/>	266,5 kg
Filter Type					
Active Carbon Filter Cartridge Carbon Cartridge					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
344 Pa / 344 Pa / 344 Pa	2,75 m/s	550x550x400/8/NA			

* Filter Energy Performance; preferably energy classification

* Active Carbon Filter Cartridge : ECC Certified according to EN 16890:2016

* Frame sealing applied.

ACCESSORIES (M4)**EMPTY SECTION (M5)**

Air Flow	Droplet Eliminator	Condensation Pan / Hmin U-Trap	Pressure Drop	Section Weight
24.000 m ³ /h			0 Pa	181,2 kg

DOORS (M5)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M5)**FILTER (M6)**

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
24.000 m ³ /h		None	<input type="checkbox"/>	<input type="checkbox"/>	218,9 kg
Filter Type					
F-7 COMPACT Compact					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
150 Pa / 250 Pa / 200 Pa	2,38 m/s	592x592x292/8/D			

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M6)**EMPTY SECTION (M9)**

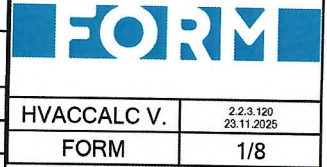
Air Flow	Droplet Eliminator	Condensation Pan / Hmin U-Trap	Pressure Drop	Section Weight
24.000 m ³ /h			0 Pa	217,2 kg

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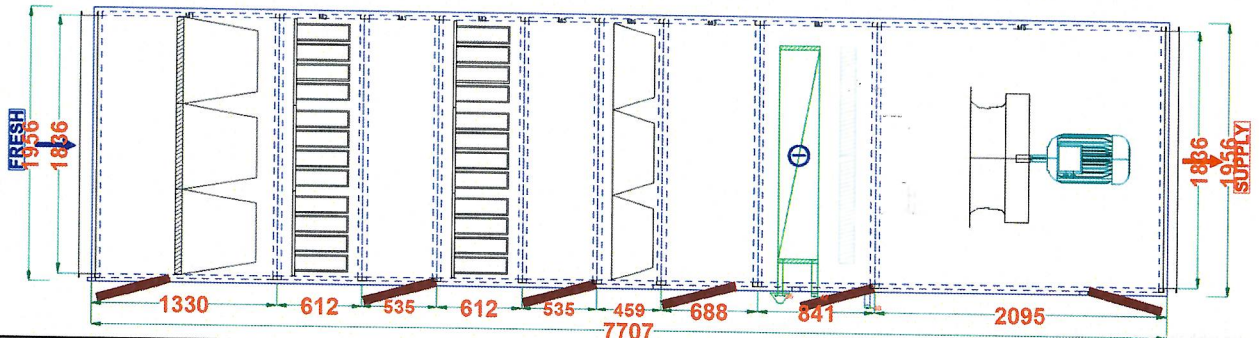
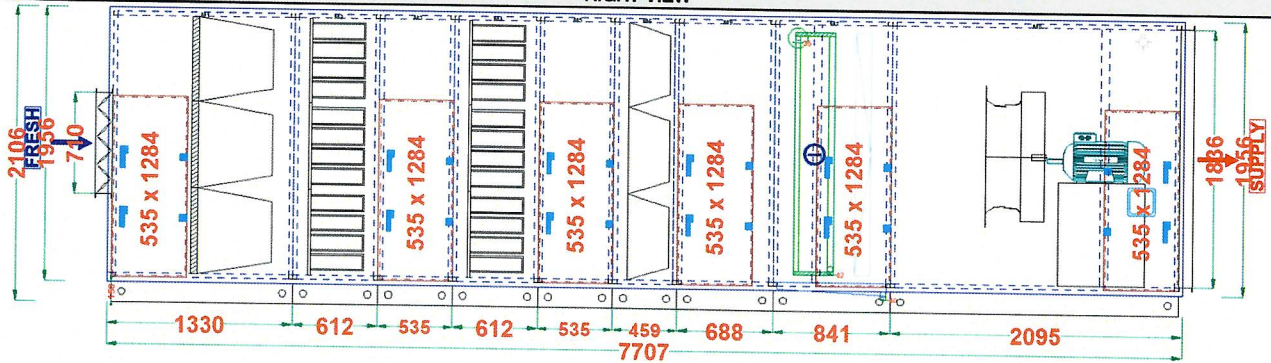




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AHU Model	FKS 24 X 24 [2400 DXC]		



RIGHT VIEW



TOP VIEW

GENERAL SPECIFICATIONS

Air Flow			Model / Frame	Dimensions (mm)(Size+Pedestal+Dampers+Pipes)
24.000 m³/h			FKS / Galvenize Steel Profile	W 2.106xH 2.136xL 7.927
Air Velocity			Insulation Material	Total Weight
1,98 m/s (V3)			60 mm Rockwool 70 kg/m³	3.201 kg
Coil Air Velocity	Air Density	Altitude	Outside Sheet Material	Base
2,68 m/s	1,2980 kg/m³	40 m	0,8 mm Painted Galvanize	3 mm Boyalı / 150 mm
Design Outdoor Temp.(W-S)			Inside Sheet Material	Roof (Inside)
(-3°C/99%)-(27°C/40%/WB:17,7°C%/DP:12,3°C)(ISTANBUL)			0,8 mm Galvanize	N/A
	Total Cooling Capacity		Total Sensible Capacity	Total Absorbed Power
	86,7 kW		86,52 kW	24,51 kW
Specific Fan Power(SFP Total)	Motor Power		External Static Pressure	Return External Static Pressure
96,73 W/(m³/s)	22 kW		500 Pa	
ErP Code			fs-Pref (W-S)	
NRVU - UVU			1 / 1	

SOUND POWER LEVEL (dB)




Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	74,5	70,4	76,5	65,3	61,2	53,3	34,2	74,0	dBa
Air Outlet Induct Sound Power Level	95,4	94,6	109,2	97,4	93,2	90,1	79,9	106,7	dBa
Air Inlet Induct Sound Power Level	53,4	66,3	66,9	62,2	53,1	41,4	19,3	66,9	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
FKS	D1(M)	L1(M)/L1(R)	L1(M)/L1(R)	F9(M)	T2(M)	TB1(M)	21	24	33	32	32	37	46

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 Report to performance data 2019	 Report to performance data 2023 ISTANBUL	TECHNICAL DATA				
		Date	08.12.2025	Rev. Date	08.12.2025	
Project ID		6480	Tracking Number			
Project Name		DARPHANE SANTRAL İLAVE			HVACCALC V.	2.2.3.120 23.11.2025
AHU Name		DS-01 - (1 QTY)			FORM	2/8
AHU Model		FKS 24 X 24 [2400 DXC]				

ACCESSORIES

Bulk Siphon,Lightening_Ship Type,Observation Glass,Door Switch (Electronic),Panic Button

FRESH AIR CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	153 Pa
Air Flow	Dimensions	Air Velocity
24.000 m³/h	W 1.836 mm x H 710 mm	5,11 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		15 Pa
Air Flow	Dimensions	Air Velocity
24.000 m³/h	W 1.836 mm x H 1.836 mm	1,98 m/s

FILTER (M1)

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
24.000 m³/h		None	<input type="checkbox"/>	<input type="checkbox"/>	510 kg
Filter Type					
G-4 Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
63 Pa / 113 Pa / 88 Pa	2,11 m/s	592x592x48/9/NA			
Filter Type					
F-7 Bag					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
60 Pa / 160 Pa / 110 Pa	2,11 m/s	592x592x535/9/B			

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

DOORS (M1)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>

ACCESSORIES (M1)**FILTER (M2)**

Air Flow	Condensation Pan / Hmin U-Trap	Slide Type	Hygienic	Spare Filter	Section Weight
24.000 m³/h		None	<input type="checkbox"/>	<input type="checkbox"/>	266,5 kg
Filter Type					
Active Carbon Filter Cartridge Carbon Cartridge					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
344 Pa / 344 Pa / 344 Pa	2,75 m/s	550x550x400/8/NA			

* Filter Energy Performance; preferably energy classification



* Active Carbon Filter Cartridge : ECC Certified according to EN 16890:2016


* Frame sealing applied.

ACCESSORIES (M2)

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AHU Model	FKS 24 X 24 [2400 DXC]					

DOORS (M9)							
ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Left	<input type="checkbox"/>
ACCESSORIES (M9)							

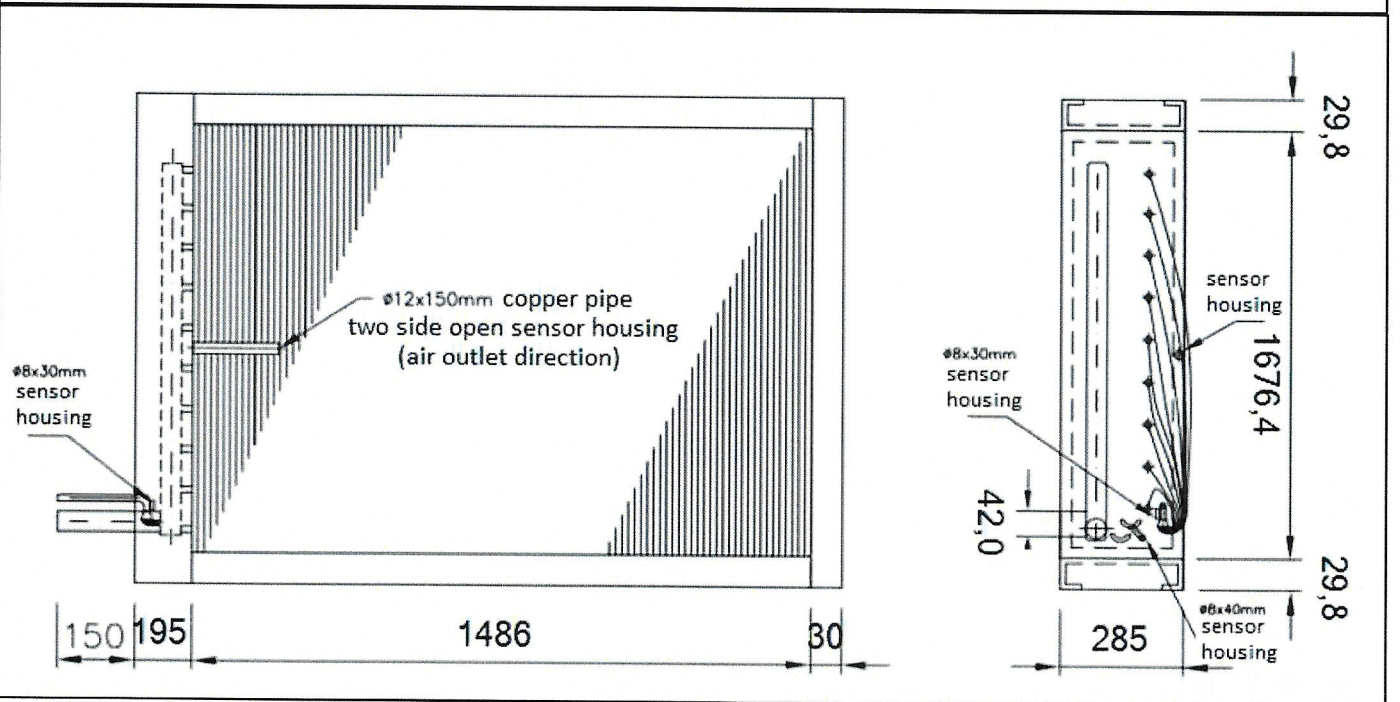
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		TECHNICAL DATA		
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AHU Model	FKS 24 X 24 [2400 DXC]		FORM	5/8

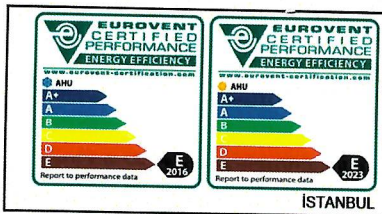
COIL (DX) (Wet Surface) (M7)						
Air Flow	Capacity / Sensible	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
24.000 m³/h	86,7/86,52 kW		2,68 m/s	2,1	1	409 kg
Coil Code		Tube Material	Fin Material	Function		
F 25 x 22 3/8 66T 4R 1486A 2.1P 33NC		Copper	Aluminium	Cooling		
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap	Tube Thickness	Fin Thickness	Mixing Ratio	
Polypropylene / 15 Pa / 26,5 kg / QTY:2		Stainless Steel_304 (40 mm (ød)) (Connection:Right) (Pressure:Negative) / 198,5 mm	0,4 mm	0,1 mm	0 %	
Fluid Kind		Evaporation/Condensation/SCD/OH	Size (W x H x L) mm	Conn. Material	Frame Material	
R410A		8,5/45/7/5 °C	1.556 x 1.726 x 285	Copper	Galvanized Steel	
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature					
27 °C	16 °C					
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature					
17,7 °C	13,7 °C					
Air Inlet Relative Humidity	Air Outlet Relative Humidity					
40 %	78 %					
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow					
49,92 - 38,66 kJ/kg	1.864 kg/h / 48.493 dm³/h					
Air Press.Drop(Wet/Dry)	Fluid Press.Drop / Fluid Velocity					
80 Pa / 79 Pa	22,58 kPa / 0,27 m/s					
Coil Surface Area	Tube Inner Volume					
193,9 m²	29,69 L					
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes	Air Condensation	Kv Value	Hygienic	Blygold		
35 / 42 mm (1-3/8" DN32 / 1-5/8" DN40)	0,2601 l/h	0,00	<input type="checkbox"/>	<input type="checkbox"/>		
Bypass Damper						

* Coil operates in dehumidifier mode.



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AHU Model	FKS 24 X 24 [2400 DXC]		

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DOORS (M7)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Right	Right	<input type="checkbox"/>

ACCESSORIES (M7)

Bulk Siphon



SUPPLY FAN (M8)

Air Flow	24.000 m³/h	Motor Type	AC-3MAS 180LA4	Fan Model	Yilida-SYWB 800 RH	Quantity	1	Section Weight	951 kg
Internal Static Pressure	1.349 Pa	Motor P./Pha./Volt./Freq.	22 kW/3P/380V/50V-Hz	Power Margin	22 %	K-Factor		Isolator	Arch x 4
External Static Pressure	500 Pa	Motor Speed	1500 (1473)rpm	Backup Fan	0	Backup Motor	0	Backup Inverter	0
Total Static Pressure	1.849 Pa	Fan Bush Number	2517						
Total Pressure	1.935 Pa	Motor Shaft Diameter	Ø48						
Total / Static Efficiency	71,44 / 68,25 %								
Motor / Inverter Efficiency	93,70 / 97,00 %	<input type="checkbox"/> Frequency Inverter Included							
Shaft Power / Absorbed Power	18,06 / 23,8 kW	Absorbed Power With VFD	24,51 kW						
Fan Speed	1537 rpm (Max. 1730 rpm)	Running Frequency	52,17 Hz (Max. 58,72 Hz)						
Fan Outlet Air Velocity	12,94 m/s	Air Density	1,2980 kg/m³						
Specific Fan Power (SFP int)	96,73 W/(m³/s)	Electrical Current	41,38 A (Max. 50,40 A)						

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot
Outlet Side	96,9	100,7	99,4	98,1	94,0	89,9	86,8	79,9	99,6 dBA
Inlet Side	70,7	84,6	90,8	94,9	94,0	91,1	87,8	78,8	91,6 dBA

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

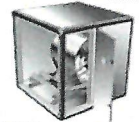
* The fan calculated for wet conditions

DOORS (M8)

ID	Type	Handle Type	Size	Position	Hinge Position	Alignment	Opposing Door
1	Standard (Handle + Hinge)	With Lock	535 mm x 1.284 mm	Right	Left	Right	<input type="checkbox"/>

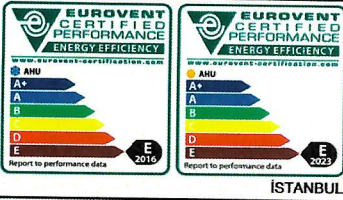
ACCESSORIES (M8)

Lightening_Ship Type, Observation Glass, Door Switch (Electronic), Panic Button

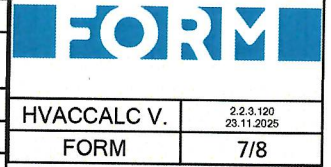


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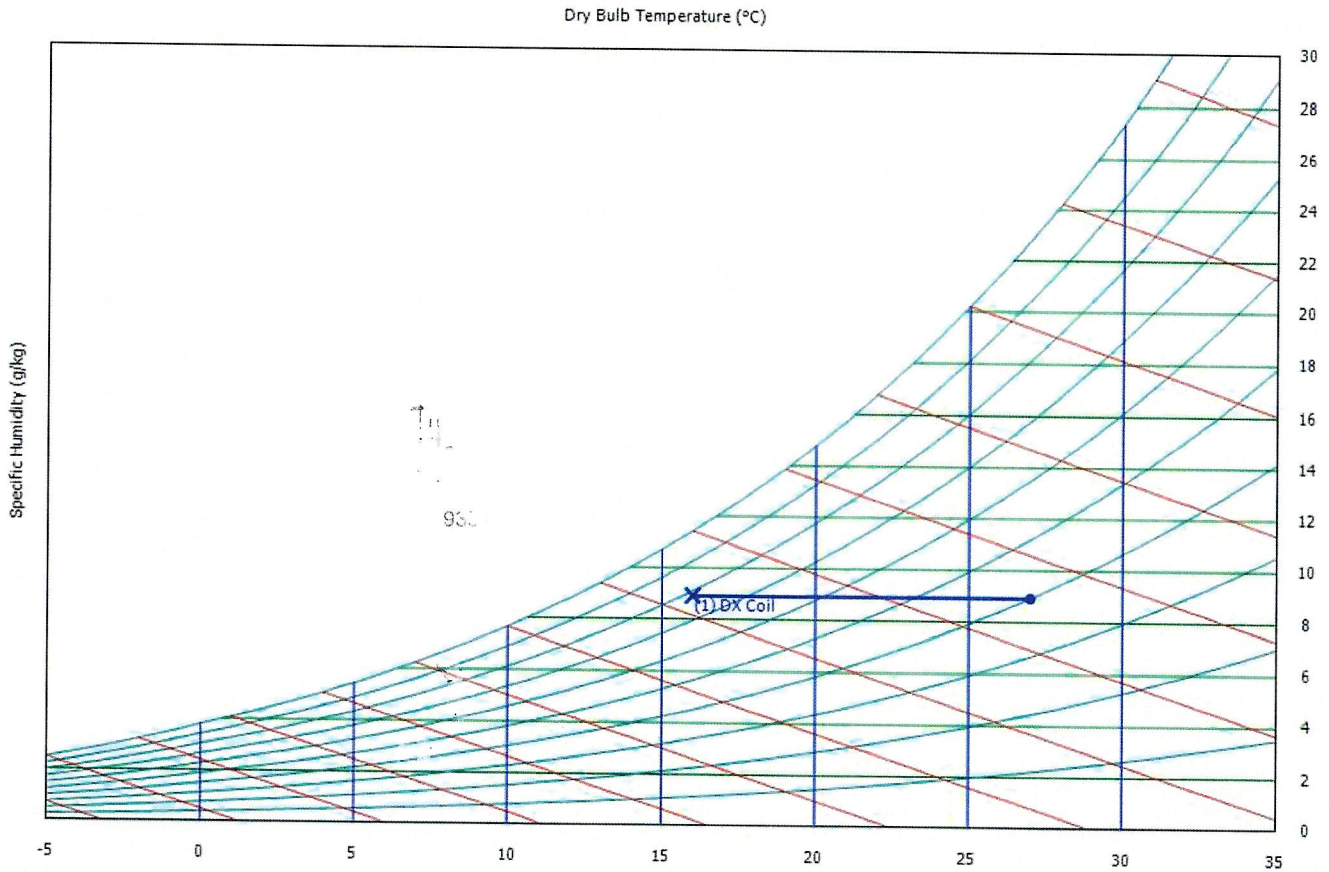




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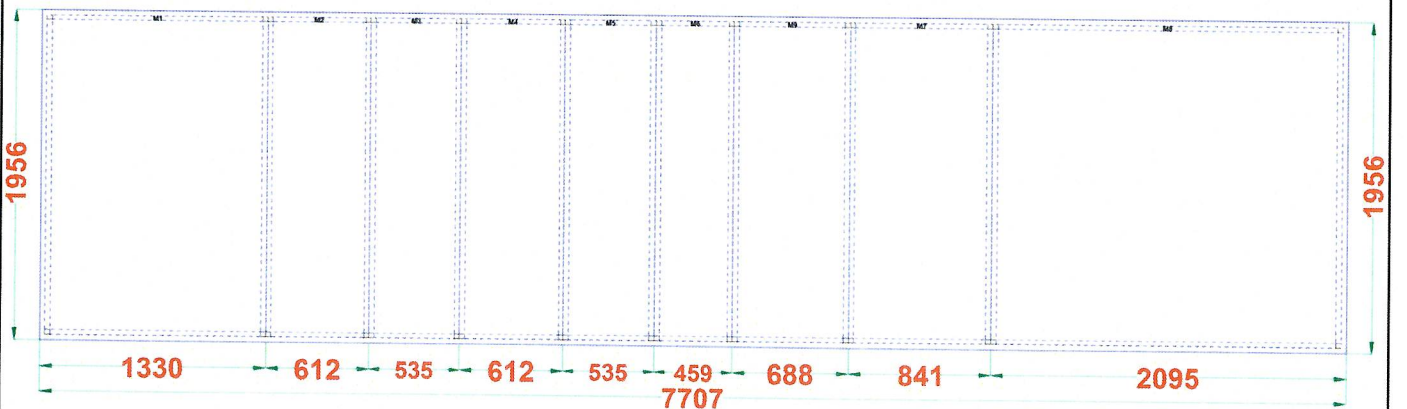


PSYCHROMETRIC CHART



Text	Entry Temperature	Entry Relative Humidity	Entry Humidity	Exit Temperature	Exit Relative Humidity	Exit Humidity
(1) DX Coil	27 °C	40 %	8,93 g/kg	16 °C	78 %	8,92 g/kg

LOADING SIZES






LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1	M1	Filter	1	2.016 mm	2.106 mm	1.450 mm	510 kg	510 kg

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LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
	1 pcs.					1.450 mm	510 kg	510 kg
S2	M2	Filter	1	1.956 mm	2.106 mm	612 mm	266,5 kg	266,5 kg
	1 pcs.					612 mm	266,5 kg	266,5 kg
S3	M3	Empty	1	2.016 mm	2.106 mm	535 mm	181,2 kg	181,2 kg
	1 pcs.					535 mm	181,2 kg	181,2 kg
S4	M4	Filter	1	1.956 mm	2.106 mm	612 mm	266,5 kg	266,5 kg
	1 pcs.					612 mm	266,5 kg	266,5 kg
S5	M5	Empty	1	2.016 mm	2.106 mm	535 mm	181,2 kg	181,2 kg
	1 pcs.					535 mm	181,2 kg	181,2 kg
S6	M6	Filter	1	1.956 mm	2.106 mm	459 mm	218,9 kg	218,9 kg
	1 pcs.					459 mm	218,9 kg	218,9 kg
S7	M9	Empty	1	2.016 mm	2.106 mm	688 mm	217,2 kg	217,2 kg
	1 pcs.					688 mm	217,2 kg	217,2 kg
S8	M7	DX Coil	1	2.106 mm	2.106 mm	841 mm	409 kg	409 kg
	1 pcs.					841 mm	409 kg	409 kg
S9	M8	Fan	1	2.016 mm	2.106 mm	2.195 mm	951 kg	951 kg
	1 pcs.					2.195 mm	951 kg	951 kg
9 pcs.	9 pcs.						3.201 kg	3.201 kg

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