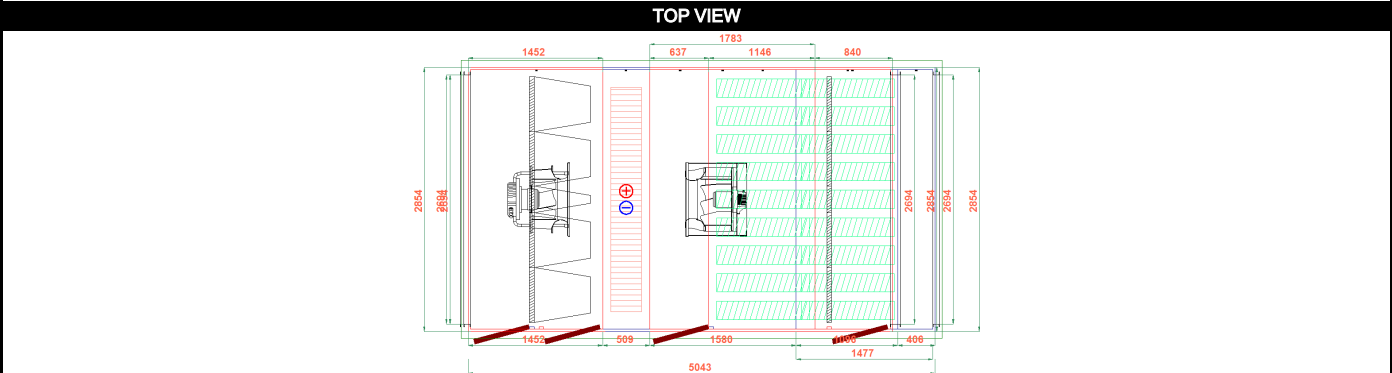
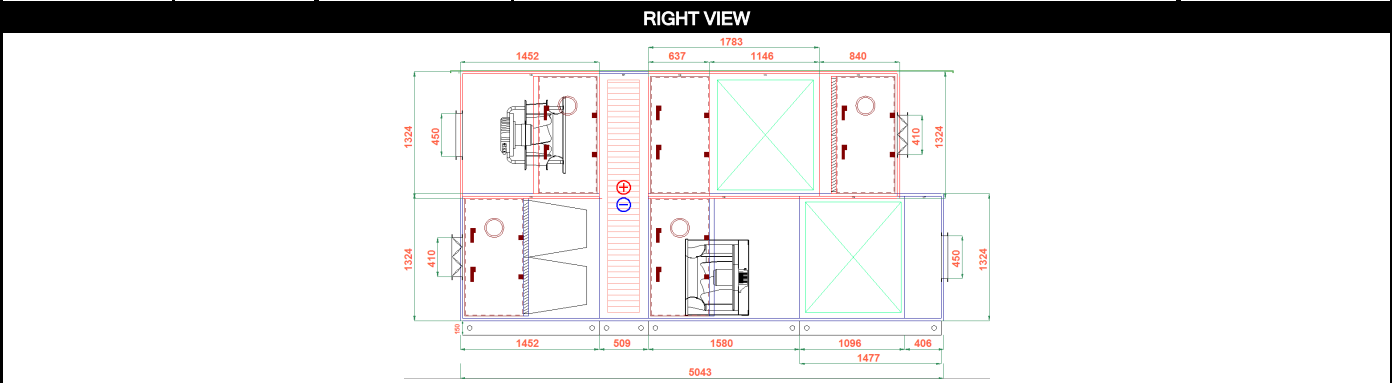




TECHNICAL DATA			
Date	12/03/2018	Rev. Date	03/05/2018
Project No	2233	Proj.Trace No	32495
Project Name	HEAT ECOVERY UNIT-ECO		
AHU Name	AHU-4		
AHU Model	JUPITER 16 X 32		



GENERAL SPECIFICATIONS

Supply Air Flow	Return Air Flow	Frame	Dimensions (mm)
17,000 m³/h	17,000 m³/h	25 steel profile	A2804 x H1274
Supply Air Velocity	Return Air Velocity	Insulation Material	Total Weight
1.40 m/s	1.40 m/s	Rockwool 70 kg/m³	0 kg
Coil Air Velocity	Air Density	Insulation Thickness	Base Height / Installation
	1.3255 kg/m³	50 mm	150 mm / Outside
Design Outdoor Temp.	Mixing Ratio	Outside Sheet Material	Absorbed Power
-7.7 °C / 25.8 °C(Odense)	% 0.00	0.9 mm Painted Galvanize	9.10 kW
Total Heating Capacity	Total Cooling Capacity	Inside Sheet Material	Motor Power(Vant/Asp)
		0.9 mm Galvanize	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	Real Unit CAL Class -400 Pa
0.48 kW/(m³/s)	2016 & 2018	NRVU - BVU	L3
			Real Unit CAL Class +400 Pa
			L3

Frequency Hz	NOISE LEVEL							SOUND POWER LEVEL (dB)							LwA-tot		
	125	250	500	1000	2000	4000	8000	125	250	500	1000	2000	4000	8000			
Airborne Sound Power Level	65.6	56.3	56.4	52.6	49.9	50.7	42.8	58.9	65.6	56.3	56.4	52.6	49.9	50.7	42.8	58.9	dB(A)
Supply Air Outlet Induct Sound Power Level	75.6	58.7	62.4	58.5	56.5	65.3	59.3	67.8	75.6	58.7	62.4	58.5	56.5	65.3	59.3	67.8	dB(A)
Supply Air Inlet Induct Sound Power Level	64.4	64.1	59.6	60.8	65.1	69.7	63.1	72.2	64.4	64.1	59.6	60.8	65.1	69.7	63.1	72.2	dB(A)
Return Air Outlet Induct Sound Power Level	84.0	83.5	86.5	88.0	83.2	87.2	86.7	92.7	84.0	83.5	86.5	88.0	83.2	87.2	86.7	92.7	dB(A)
Return Air Inlet Induct Sound Power Level	63.7	50.2	46.5	44.3	46.3	61.2	63.4	64.9	63.7	50.2	46.5	44.3	46.3	61.2	63.4	64.9	dB(A)

ACCESSORIES

Lightening, Observation Glass, U-Manometer, Manometer Pressure Gauge


Model	CS Class	CAL Class -400 Pa	CAL Class +400 Pa	FBL Class	TT Class	TBF Class	Casing accoustical insulation at 125 Hz [dB]	Casing accoustical insulation at 250 Hz [dB]	Casing accoustical insulation at 500 Hz [dB]	Casing accoustical insulation at 1000 Hz [dB]	Casing accoustical insulation at 2000 Hz [dB]	Casing accoustical insulation at 4000 Hz [dB]	Casing accoustical insulation at 8000 Hz [dB]
JUPITER	D2	L1	L1	F9	T2	TB2	18.4	27.2	30.1	35.4	33.3	36.5	43.9

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		TECHNICAL DATA			
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		Project No	2233	Proj.Trace No	32495
		Project Name	HEAT ECOVERY UNIT-ECO		
AHUSEL V.	2.2.3.12 26/02/2018	AHU Name	AHU-4		
BSK	2/5	AHU Model	JUPITER 16 X 32		



FRESH AIR CONNECTION

Connection Type	Automation	Pressure Drop
Gear Damper	Automatic	10 Pa
Airflow	Dimensions	Air Velocity
17,000 m³/h	A 2694 mm x H 410 mm	4.28 m/s

SUPPLY CONNECTION

Connection Type	Automation	Pressure Drop
Flange	Automatic	10 Pa
Airflow	Dimensions	Air Velocity
17,000 m³/h	A 2694 mm x H 450 mm	3.90 m/s


RETURN CONNECTION

Connection Type	Automation	Pressure Drop
Gear Damper	Automatic	10 Pa
Airflow	Dimensions	Air Velocity
17,000 m³/h	A 2694 mm x H 410 mm	4.28 m/s

EXHAUST CONNECTION

Connection Type	Automation	Pressure Drop
Flange	Automatic	10 Pa
Airflow	Dimensions	Air Velocity
17,000 m³/h	A 2694 mm x H 450 mm	3.90 m/s

FILTER (M3)

Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Section Weight
G-4 Panel	37 Pa / 160 Pa / 98 Pa	1.50 m/s	592x592x50/8/NA	592x287x50/2/NA		0 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Spare Filter
F-7 Bag	41 Pa / 360 Pa / 200 Pa	1.50 m/s	592x592x610/8/E	592x287x610/2/B		

* Filter Energy Performance; preferably energy classification

ACCESSORIES

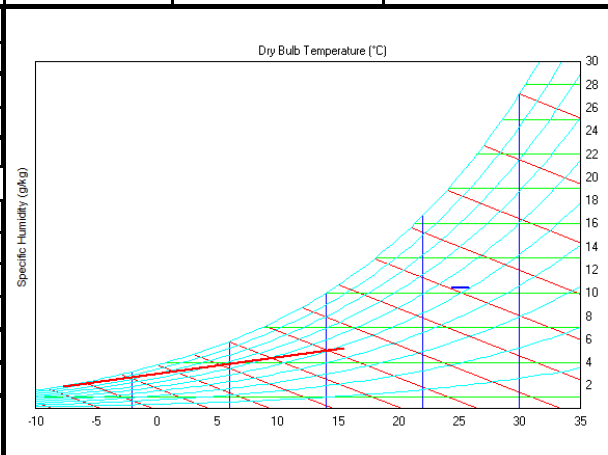
Lightening, Observation Glass, U-Manometer, Manometer Pressure Gauge



ROTARY HEAT RECOVERY (M1)

Model	Rpm	Quantity	Section Weight
RRU-P-E20-2425/2425-2300	15	1	0 kg

	Fresh Air		Exhaust		Capacity	Summer		Winter	
	Airflow	17,000 m³/h	17,000 m³/h			-8.03 kW	181.34 kW		
Air Vel.	2.06 m/s		2.29 m/s		P.D (Pa)	Fresh	Exhaus	Fresh	Exhau
	Summer	Winter	91	90		74	89		
Effect.	Ratio(*)	Effect.	Ratio(*)	1.2kg/m³	88	88	88	88	
	77.53	77.53	77.86	77.86					



Air Inlet / Outlet	Summer				Winter			
	Fresh Air		Exhaust		Fresh Air		Exhaust	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
	DT	25.80	24.40	24.00	25.40	-7.70	15.43	22.00
WT	18.54	18.08	17.06	17.54	-8.08	9.77	15.42	0.79
RH	50.00	54.33	50.00	46.00	90.00	47.91	50.00	95.00

Condensation Pan	OACF	EATR (%)
	0.00	0.00

Frequency Inverter

* Efficiency at balanced flow



* OACF: Outdoor Air Correction Factor, EATR: Exhaust Air Transfer Ratio

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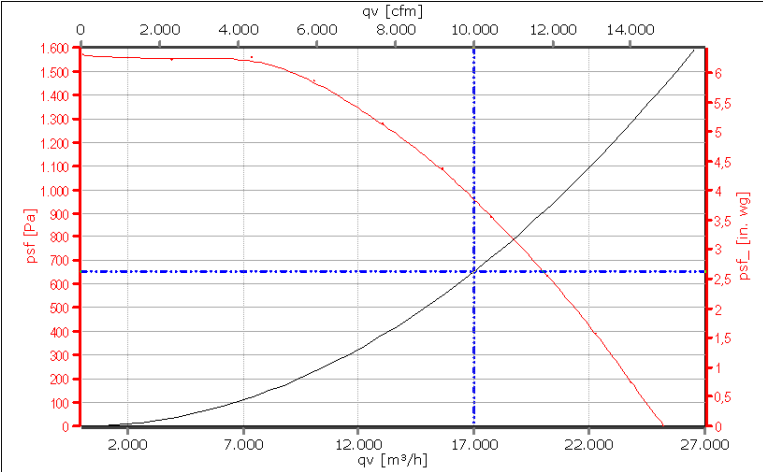
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AHUSEL V.	2.2.3.12 26/02/2018	AHU Name	AHU-4		
BSK	3/5	AHU Model	JUPITER 16 X 32		

ACCESSORIES		

SUPPLY FAN (M8)

Airflow	17,000 m³/h	Fan Model	EBM Papst-K3G630PV0401	Quantity	1	Section Weight	0 kg				
Internal Static Pressure	404 Pa	Motor P./Volt./Pha./Freq.	3P/400V/50-60Hz								
External Static Pressure	250 Pa										
Total Static Pressure	654 Pa										
Total Pressure	733 Pa										
Total / Static Efficiency	70.93 / 63.25 %										
Shaft / Absorbed Power	4.88 / 4.88 kW	Absorbed Pow.With VFD	4.88 kW								
Fan Speed	1579 rpm(Max.1750 rpm)			Sound Power Level (dB)							
		Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
		SPLa - Inlet Side	80.4	80.1	75.6	76.8	77.1	81.7	75.1	85.6	dBa
		SPLm - Outlet Side	83.2	81.7	83.9	83.0	81.0	83.2	76.4	89.1	dBa
Specific Fan Power(SFPe int)	0.11 kW/(m³/s)	Air Density	1.2000 kg/m³								
Backup Fan	0	Backup Motor	0								

* The fan system effect is taken into account in the fan performance
 * The fan calculated for wet conditions
 * Sfp is calculated based on clean filter & dry coil conditions

ACCESSORIES		
Lightening, Observation Glass		

SILENCER (M6)

Airflow	17,000 m³/h	Sound Absorbion (250 Hz)	22 dB	Pressure Drop	12 Pa	Silencer Thickness	200 mm	Silencer Material	Rockwool (52 kg/m³) 50 m	Section Weight	0 kg
Silencer Code	200d 100s 9n 1000L 1150H 2739A										

ACCESSORIES		

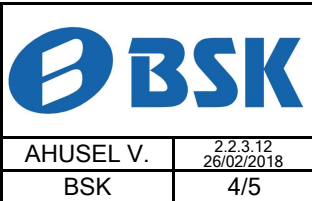
EMPTY SECTION (M7)

Airflow	17,000 m³/h	Pressure Drop	0 Pa	Section Weight	0 kg
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ACCESSORIES		

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AHU Name	AHU-4		
AHU Model	JUPITER 16 X 32		



EXHAUST FAN (M9)

Airflow	17,000 m³/h	Fan Model	EBM Papst-K3G560PC0401	Quantity	1	Section Weight	0 kg				
Internal Static Pressure	219 Pa	Motor P./Volt./Pha./Freq.	3P/400V/50-60Hz								
External Static Pressure	250 Pa										
Total Static Pressure	469 Pa										
Total Pressure	593 Pa										
Total / Static Efficiency	66.39 / 52.47 %										
Shaft / Absorbed Power	4.22 / 4.22 kW	Absorbed Pow.With VFD	4.22 kW								
Fan Speed	1721 rpm(Max.1760 rpm)										
		Sound Power Level (dB)				LwA-tot					
		Hz	125	250	500	1000	2000	4000	8000		
		SPLa - Inlet Side	82.3	84.2	79.0	79.8	78.8	87.1	88.5	91.7	dBA
		SPLm - Outlet Side	84.0	83.5	86.5	88.0	83.2	87.2	86.7	93.4	dBA
Specific Fan Power(SFPe int)	0.06 kW/(m³/s)	Air Density	1.2815 kg/m³								
Backup Fan	0	Backup Motor	0								

* The fan system effect is taken into account in the fan performance
 * The fan calculated for wet conditions
 * Sfp is calculated based on clean filter & dry coil conditions

ACCESSORIES	
Lightening, Observation Glass	

EMPTY SECTION (M5)			
Airflow	17,000 m³/h	Pressure Drop	0 Pa
		Section Weight	0 kg

ACCESSORIES	

SILENCER (M4)					
Airflow	17,000 m³/h	Sound Absorption (250 Hz)	22 dB	Pressure Drop	12 Pa
		Silencer Thickness	200 mm	Silencer Material	Rockwool (52 kg/m³) 50 m
Section Weight		0 kg			
Silencer Code		200d 100s 9n 1000L 1150H 2739A			


ACCESSORIES	

FILTER (M2)						
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Section Weight
G-4 Panel	37 Pa / 160 Pa / 98 Pa	1.50 m/s	592x592x50/8/NA	592x287x50/2/NA		0 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Spare Filter
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* Filter Energy Performance; preferably energy classification

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BSK	5/5	AHU Model	JUPITER 16 X 32	



ACCESSORIES	
Lightening, Observation Glass, U-Manometer, Manometer Pressure Gauge	



Ecodesign Requirements Table					
		Value		2016	2018
	Product	JUPITER 25			
	Erp	2016 & 2018			
A	Manufacturer	BSK Havalandirma Ekipmanları A.Ş.			
B	Model Identifier	JUPITER 16 X 32			
C	ErP Code	NRVU - BVU			
D	Type Of Drive	Variable Speed Drive (VSD)	Variable Speed Drive (VSD)	Required	Required
E	Type Of HRS	Rotary			
	HRS Damper	Exists		Required	Required
F	Thermal Efficiency of HRS	77.86 %		>= 67 %	>= 73 %
G	Nominal Flow Rate	4.72 m³/s	4.72 m³/s		
H	Effective Electrical Power Input	4.88 kW	4.22 kW		
I	SPFInt	611 W/(m³/s)	614 W/(m³/s)	<= 1065	<= 795
J	Face Velocity	1.40 m/s	1.40 m/s		
K	Nominal External Drop Δps, Ext	250 Pa	250 Pa		
L	Internal Pressure Drop Δps, Int	404 Pa	219 Pa		
M	Additional Pressure Drop Δps, Add	79 Pa	124 Pa		
N	Static Fan Efficiency EC327/2011	63.25 %	52.47 %		
O	Declared Maximum Ext./Int. Leakage Rate	0.00 %			
P	Energy Performance Of Filters	B	NA		
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge		Required
R	Casing Sound Power Level (Lwa)	89.1 dB	93.4 dB		
S	Internet Address Of Instructions	www.bskhavalandirma.com.tr			

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