

TriaAir[®]

Ventilationsanlæg

Tekniske data

J Prime 25_45, 1RH, 3RC og ROTOR



Varenr.: QD04500250
Med 1RH, 3RC og ROTOR
(1RH varmevlade maks. 57,63 kW)
(3RC køleflade maks. 74,92 kW)

Standardfarve: RAL 9002 glans 30 (hvid)



TECHNICAL DATA			
Date	21.08.2020	Rev. Date	24.09.2020
Project ID	4157	Tracking Number	4126
Project Name	Item no. QD04500250		
AHU Name	J Prime_25_45_1RH_3RC		
AHU Model	JUPITER 8 X 16		



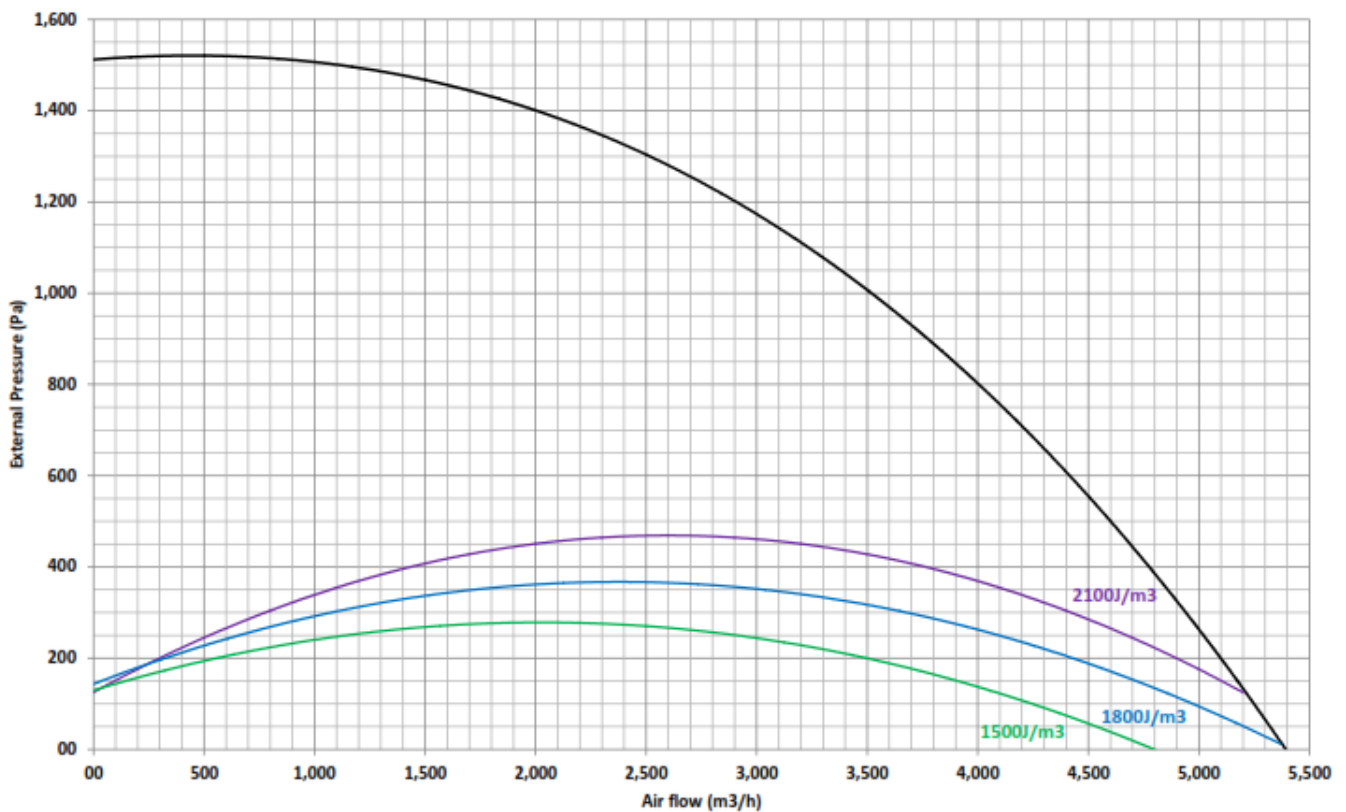
Ecodesign Requirements Table

		Value		2018
	Product	JUPITER 25		
	Erp	2018		
A	Manufacturer	BSK Havalandırma Ekipmanları A.Ş.		
B	Model Identifier	JUPITER 8 X 16		
C	ErP Code	NRVU - BVU		
D	Type Of Drive	Variable Speed Drive (VSD)In	Variable Speed Drive (VSD)Out	Required
E	Type Of HRS	Rotary		
	HRS Damper	Exists		Exists Required
F	Thermal Efficiency of HRS	74,95 %		74,95 % >= 73 %
G	Nominal Flow Rate	1,19 m³/s	1,19 m³/s	
H	Effective Electrical Power Input	1,5 kW	1,39 kW	2,89 kW
I	SFPInt	481 W/(m³/s)	452 W/(m³/s)	933W/(m³/s) <= 979
J	Face Velocity	1,45 m/s	1,40 m/s	
K	Nominal External Drop Δps, Ext	250 Pa		250 Pa
L	Internal Pressure Drop Δps, Int Supply Air	367 Pa		367 Pa
	Internal Pressure Drop Δps, Int. Exhaust Air	307 Pa		307 Pa
M	Additional Pressure Drop Δps, Add	91 Pa	91 Pa	
N	Static Fan Efficiency EC327/2011	53,55 %	51,87 %	
O	Declared Maximum Ext./Int. Leakage Rate	1,00 %		1,00 %
	Leakage Classifications by Eurovent	L1		L1
P	Energy Performance Of Filters	E	E	
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge	Required
R	Casing Sound Power Level (Lwa)	57,8 dBA		57,8 dBA
S	Internet Address Of Instructions	www.Termicplus.dk		
	Total Dimension mm	W 1320 x H 1675 x L 2860		
	Supply Airflow	4.300 m³/h		4.300 m³/h
	Return Airflow	4.300 m³/h		4.300 m³/h
	Design Outdoor Temp. Summer	(+25,8°C) (Hum. 60%)		(+25,8°C)
	Design Outdoor Temp. Winter	(-12 °C) (Hum. 90%)		(-12 °C)
	FRESH AIR CONNECTION Air Velocity	2,10 m/s		2,10 m/s
	SUPPLY CONNECTION Air Velocity	2,10 m/s		2,10 m/s
	RETURN CONNECTION Air Velocity	2,10 m/s		2,10 m/s
	EXHAUST CONNECTION Air Velocity	2,10 m/s		2,10 m/s
	Total Heating Capacity	22,96 kW		22,96 kW
	Fluid Kind for Heating	Water		Water
	Fluid Temp. In / Out (Heating)	70/50 °C		70/50 °C
	Total Cooling Capacity	16,22 kW		16,22 kW
	Fluid Kind for Cooling	Water		Water
	Fluid Temp. In / Out (Cooling)	7/12 °C		7/12 °C
	Filter Type supply Air	F7 Panel		F7 Panel
	Filter Type Return Air	M6 Panel		M6 Panel
	Total Weight	934 kg		934 kg

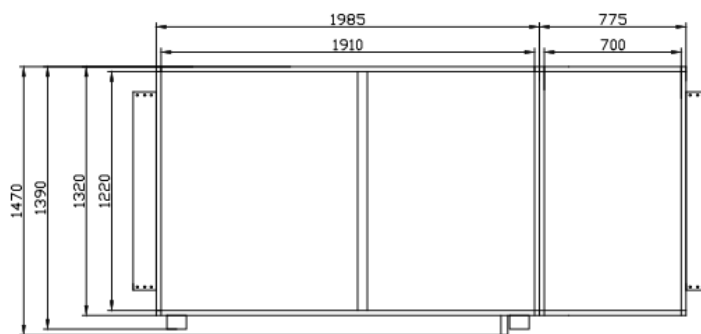
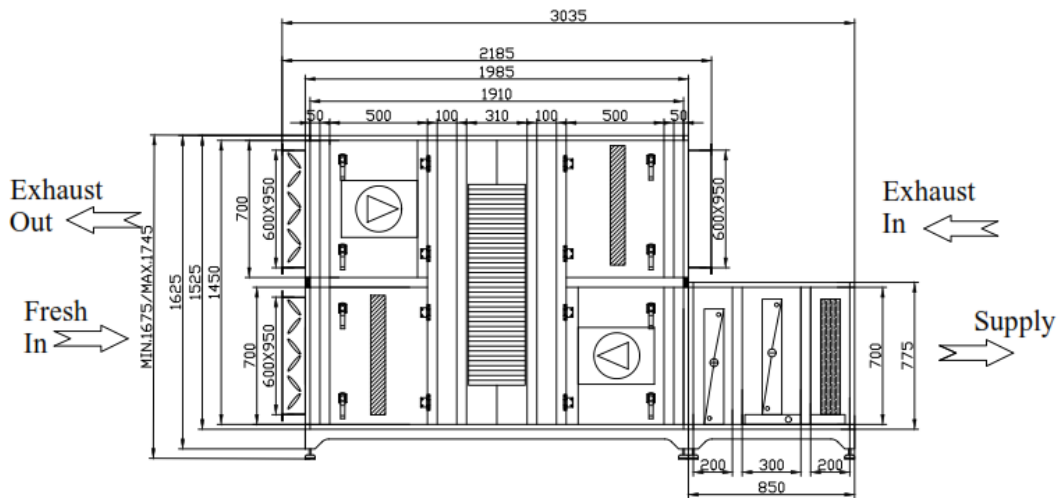
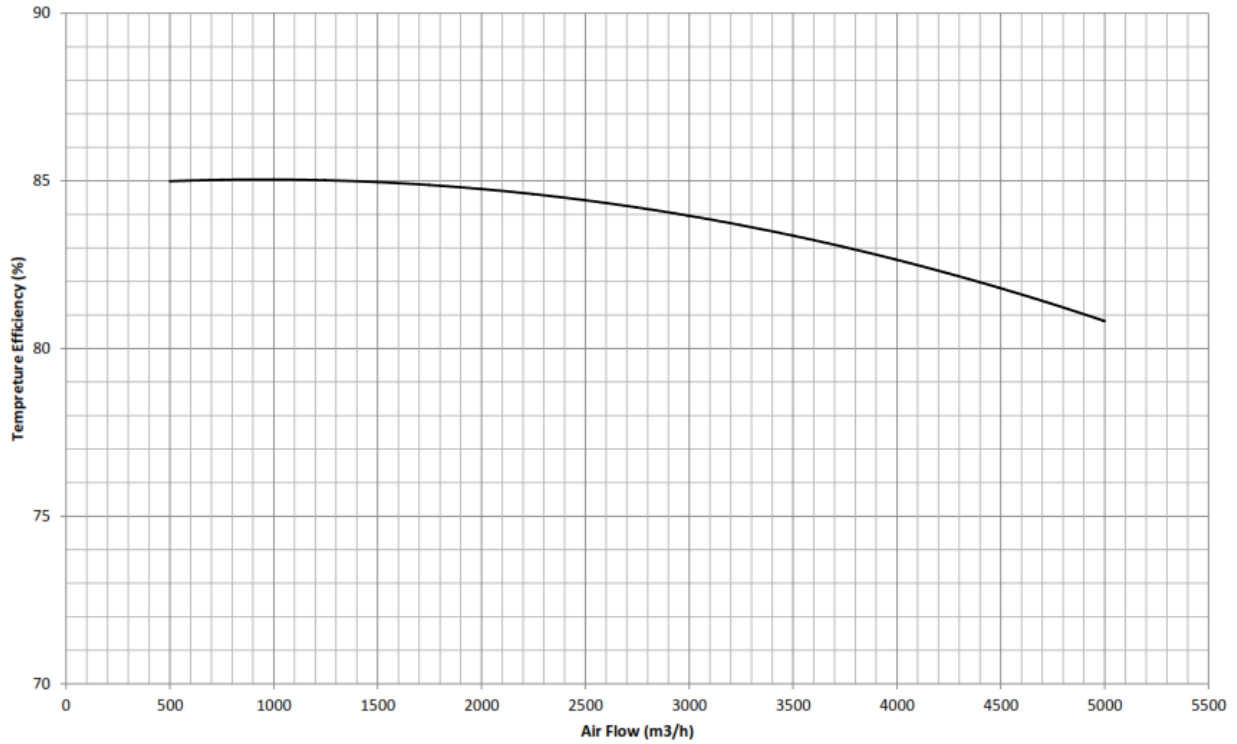
Accessories	Connection possible (Motherboard)	Included in the unit	Overall Total values
Co2 sensor	Yes	No	
Motion Sensor	Yes	No	
Heating Module	Yes	Yes	70/50 °C
Cooling Module	Yes	Yes	7/12 °C
Hood for supply air	Yes	No	
Hood for Exhaust air	Yes	No	
VAV	Yes	No	
Heating coil valve	Yes	No	
Cooling coil valve	Yes	No	
Electric Pre-heater	Yes	No	
Electric Heater	Yes	No	
Fire/smoke Automatic	Yes	No	
Steam Humidifier (M7)	Yes	No	
Prepared to fire	Yes	No	
Prepared to Smoke	Yes	No	
Motherboard/Display	Yes	Yes	
Kitchen Unit	Yes	No	
Unit Used as a smoke fan	Yes	No	

Air Flow

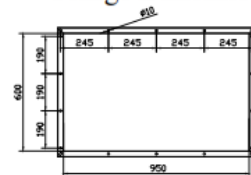
J Prime 25_45



Efficiency Jprime 25_45



Flange Dimensions



NOTE: ALL DIMENSIONS ARE MM



ATTESTATION OF CONFORMITY UYGUNLUK ONAYI

Sertifika Numarası / Certificate Number : M.2020.ST.1195.01

Üretici <i>Manufacturer</i>	: BSK Havalandırma Ekipmanları Anonim Şirketi
Üretici Adresi <i>Manufacturer adress</i>	: Mimar Sinan Mah. Basra Cad. No:59 Sultanbeyli İSTANBUL / TÜRKİYE
Ürün Tanımı <i>Product description</i>	: Klima Santrali Standart&Hygienic Air Handling Units
Tip / Model <i>Type / Model</i>	: BSK JUPITER Serisi: 500m ³ /h - 100.000m ³ /h
İlgili Yönetmelikler <i>Related Directives</i>	: 2006/42/AT Makina Emniyeti Yönetmeliği/EK VIII 2006/42/EC Machinery Directive/Annex VIII
İlgili Standartlar <i>Related Standards</i>	: EN ISO 12100,EN ISO 14120,EN ISO 13849-1, EN 60204-1
Denetim Raporu <i>Audit Report</i>	: ST.1195.01

UDEM Adriatic d.o.o. adı ve adresi yukarıda belirtilen firmanın sunduğu teknik dokümanları inceleyerek, belirlenen ürünün Makina Emniyeti Yönetmeliği 2006/42/AT Ek VIII kurallarına uygunluğunu onaylar. Yukarıda belirtilen tiplerdeki ürün üzerine CE işaretini, üreticinin kendi sorumluluğunda hazırlayacağı AT Uygunluk Beyanı ile iliştirebilir. İncelemesi yapılan ürüne ait olan bu belge tasarımın değişmesi halinde geçerliliğini yitirecektir. Bu belgenin geçerliliğini www.udemadriatic.com internet sayfasından kontrol edebilirsiniz. Bu belge sadece yukarıda adı geçen ürün tip/modelleri için geçerlidir. Yukarıda adı geçen firma ve UDEM bu belgelerin bir kopyasını tescil tarihinden itibaren 15 yıl süreyle muhafaza etmelidir. Bu belgenin mülkiyet hakkı UDEM Adriatic d.o.o 'ya aittir ve istenildiğinde iade edilmelidir.

UDEM Adriatic d.o.o. confirms by examining technical documents presented on the part of company which stated title and address below that product is conformable to 2006/42/EC Annex VIII



Machinery Directive regulations, could attach marking on the product with EC Declaration of Conformity prepared by manufacturer in the charge of company. In case of changing this certificate design regarding to product examined, certificate will be expired. Please check validity of this certificate by website www.udemadriatic.com This certificate is valid just for the product type/models stated below. UDEM and Company above mentioned must retain a copy of these certificates for 15 years since the day of registration. This certificate property belongs to UDEM Adriatic d.o.o and if required it must be returned.

Yayın Tarihi / Issue Date : 29.09.2020

Geçerlilik Tarihi / Validity date : 28.09.2021



Udem Adriatic d.o.o

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E-posta: info@udemadriatic.com Web: www.udemadriatic.com

EC DECLARATION OF CONFORMITY / AT UYGUNLUK BEYANI



We herewith declare / İş bu beyanname ile



BSK HAVALANDIRMA EKİPMANLARI ANONİM ŞİRKETİ

Address: Mimar Sinan Mah. Basra Cad. No:59 Sultanbeyli İSTANBUL / TURKEY

Product Name: Standart&Hygienic Air Handling Units

Model: BSK JUPITER Serisi:500m3/h - 100.000m3/h

Year of Manufacture/ Serial Number: 2020/001

Regulations Applied

We declare that we meet the following directive conditions for the Air Handling Unit that we have assembled and manufactured.

- 2006/42/EC Machinery Directive/Annex VIII

Application Standard

- EN ISO 12100
- EN ISO 14120
- EN ISO 13849-1
- EN 60204-1

Date and Place of Declaration : 28.09.2020/İSTANBUL

Name and Surname :

Deniz Palat

Signature, Stamp




Address/Adres: Mimar Sinan, Basra Cad. No:59 Sultanbeyli / İstanbul

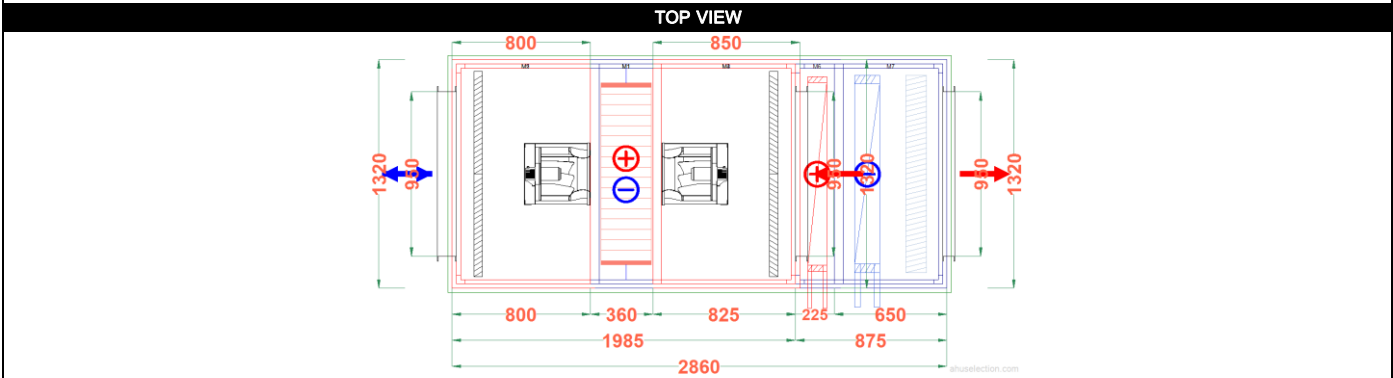
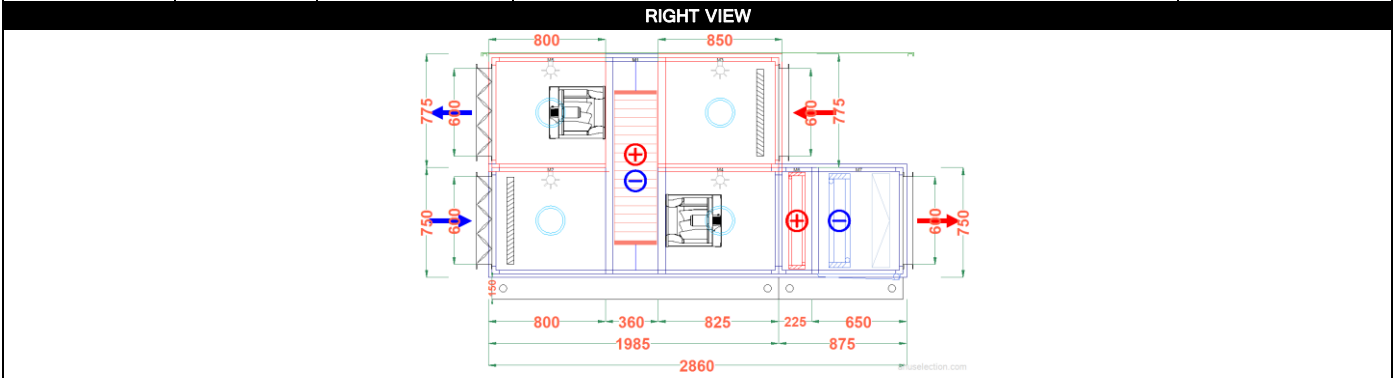
Phone / Telefon: : + 90 216 669 09 70

Mail: info@bskhavalandirma.com

Web : www.bskhavalandirma.com

DECLARATION OF CONFORMITY

	TECHNICAL DATA			
	Date	21.08.2020	Rev. Date	24.09.2020
	Project ID	4157	Tracking Number	4126
Project Name		J Prime 25 Selection		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name J Prime_25_45_1RH_3RC - (1 QTY)		
BSK	1/8	AHU Model JUPITER 8 X 16		



GENERAL SPECIFICATIONS				
Air Flow 4.300 m ³ /h	Return Air Flow 4.300 m ³ /h	Frame 25 steel profile	Total Dimensions mm W 1320 x H 1675 x L 2860	
Air Velocity 1,45 m/s	Return Air Velocity 1,4 m/s	Insulation Material 50 mm Rockwool 70 kg/m ³	Total Weight 934 kg	
Coil Air Velocity 1,86 m/s	Air Density 1,3505 kg/m ³	Outside Sheet Material 0,9 mm Painted Galvanize	Base Height 150 mm	Roof (Outside) Sheet
Design Outdoor Temp.(W-S) (-12°C/90%)-(25,80°C/60%)(Odense)		Inside Sheet Material 0,9 mm Galvanize	Total Absorbed Power 2,89 kW	
Total Heating Capacity 22,96 kW	Total Cooling Capacity 16,22 kW	Total Sensible Capacity 10,37 kW	Motor Power 1,8 kW / 1,8 kW	
Specific Fan Power(SFP Total) 0,93 kW/(m ³ /s)	ErP Compliance 2018	ErP Code NRVU - BVU	Real Unit CAL Class -400 Pa L1	Real Unit CAL Class +400 Pa L2

SOUND POWER LEVEL (dB)										
Frequency Hz		125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level		61,6	63,3	55,9	48,4	47,7	46,9	34,7	57,8	dBA
Air Outlet Induct Sound Power Level		70,1	80,6	76,9	75,5	74,8	77,1	74,0	82,1	dBA
Air Inlet Induct Sound Power Level		75,3	76,8	70,9	58,8	55,1	51,3	43,4	71,3	dBA
Return Air Outlet Induct Sound Power Level		74,4	84,7	80,9	79,4	76,6	79,1	75,4	85,6	dBA
Return Air Inlet Induct Sound Power Level		75,3	76,3	70,7	58,6	55,2	51,5	43,1	70,8	dBA

ACCESSORIES




Lightening, Observation Glass, Manometer Pressure Gauge, Siphon


Model	CS Class	CAL Class -400 Pa	CAL Class +700 Pa	FBL Class	TT Class	TBF Class	Casing acoustical insulation at 125 Hz [dB]	Casing acoustical insulation at 250 Hz [dB]	Casing acoustical insulation at 500 Hz [dB]	Casing acoustical insulation at 1000 Hz [dB]	Casing acoustical insulation at 2000 Hz [dB]	Casing acoustical insulation at 4000 Hz [dB]	Casing acoustical 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

*These results obtained according to Eurovent modelbox test.

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		TECHNICAL DATA				
		Date	21.08.2020	Rev. Date	24.09.2020	
		Project ID	4157	Tracking Number	4126	
		Project Name	J Prime 25 Selection			
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_45_1RH_3RC - (1 QTY)			
BSK	2/8	AHU Model	JUPITER 8 X 16			
FRESH AIR CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Air Flow		Dimensions		Air Velocity		
4.300 m³/h		W 950 mm x H 600 mm		2,10 m/s		
SUPPLY CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Air Flow		Dimensions		Air Velocity		
4.300 m³/h		W 950 mm x H 600 mm		2,10 m/s		
RETURN CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Air Flow		Dimensions		Air Velocity		
4.300 m³/h		W 950 mm x H 600 mm		2,10 m/s		
EXHAUST CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Air Flow		Dimensions		Air Velocity		
4.300 m³/h		W 950 mm x H 600 mm		2,10 m/s		
FILTER (M2)						
Air Flow	Condensation Pan			Hygienic	Spare Filter	Section Weight
4.300 m³/h						152 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	70 Pa / 170 Pa / 120 Pa	1,7 m/s	592x592x48/2/E			
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M2)						
Lightening, Observation Glass, Manometer Pressure Gauge						

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	Date	21.08.2020	Rev. Date	24.09.2020
	Project ID	4157	Tracking Number	4126
	Project Name	J Prime 25 Selection		
AHUSEL V.	2.2,3,17 15.08.2020	AHU Name	J Prime 25_45_1RH_3RC - (1 QTY)	
BSK	3/8	AHU Model	JUPITER 8 X 16	



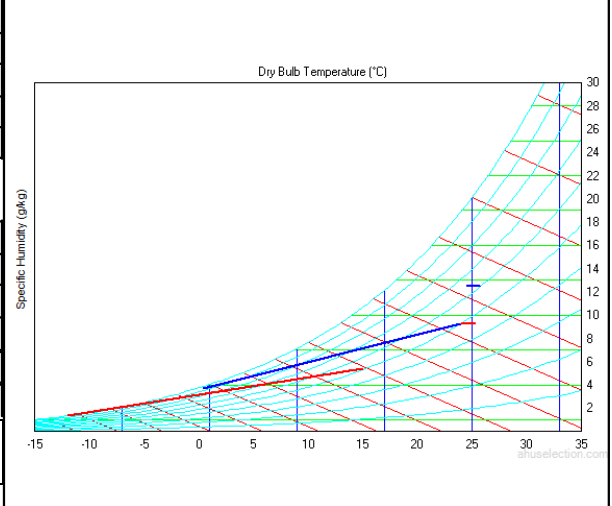
ROTARY HEAT EXCHANGER (M1)

Model	Rpm	Quantity	Section Weight
RRU_ECO-P-E18-1050/1050-1000	15	1	148 kg

	Fresh Air	Exhaust	Capacity	Winter	Summer				
Air Flow	4.300 m³/h	4.300 m³/h		54,17 kW	-1,86 kW				
Air Vel.	2,70 m/s	3,09 m/s		Fresh	Exhau	Fresh	Exhaus		
	Winter		Summer	P.D	144 Pa	171 Pa	182 Pa	171 Pa	
	Effic.	Balan.(*)	Effic.	Balan.(*)	1,2kg/m³	176 Pa	166 Pa	176 Pa	166 Pa
	74,95	74,95	70,94	70,94					
Hum.Effic.	51,87 %		0,00 %						

Air Inlet / Outlet	Winter				Summer			
	Fresh Air		Exhaust		Fresh Air		Exhaust	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
	DT	-12,00 °	14,98 °C	24,00 °C	0,42 °C	25,80 °C	24,52 °C	24,00 °C
WT	-12,29 °	9,80 °C	17,07 °C	0,14 °C	20,16 °C	19,77 °C	17,07 °C	17,51 °C
RH	90,00 %	51,22 %	50,00 %	95,00 %	60,00 %	64,74 %	50,00 %	46,32 %

Condensation Pan	OACF (*)	EATR (%) (*)
	0,00	0,00



<input type="checkbox"/> Frequency Inverter	Size mm	Bypass Damper
	(1.050 x 1.050 x 290) - 1.000	


* Efficiency at balanced flow
* OACF: Outdoor Air Correction Factor, EATR: Exhaust Air Transfer Ratio

ACCESSORIES (M1)



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AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_45_1RH_3RC - (1 QTY)	
BSK	4/8	AHU Model	JUPITER 8 X 16	



SUPPLY FAN (M4)

Air Flow	4.300 m ³ /h	Fan Model	EBM Papst-R3G310PH3801			Quantity	1	Section Weight	131 kg			
Internal Static Pressure	367 Pa	Motor P./Pha./Volt./Freq.	1,8 kW/3P/400V/50-60Hz			Isolator		Isolator Count				
External Static Pressure	250 Pa				Backup Fan		Backup Motor					
Total Static Pressure	617 Pa											
Total Pressure	708 Pa											
System Effect	26 Pa											
Total / Static Efficiency	61,43 / 53,55 %											
Shaft Power / Absorbed Power	1,38 / 1,5 kW	Absorbed Pow.With VFD	1,5 kW									
Fan Speed	3083 rpm (Max.3410 rpm)											
	Air Density	1,3505 kg/m ³										
Specific Fan Power (SFPe int)	0,48 kW/(m ³ /s)	Sound Power Level (dB)										
		Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current	2,16 A (Max.2,82 A)	SPLm - Outlet Side	65,1	69,0	77,3	76,9	79,5	79,1	82,3	79,9	87,1	dBa
		SPLa - Inlet Side	62,9	67,6	76,4	76,6	71,2	72,8	78,5	77,5	83,0	dBa



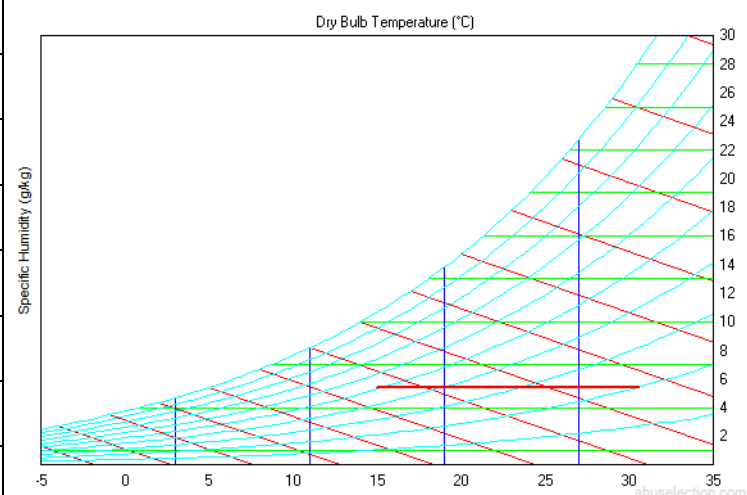

* The fan system effect is taken into account in the fan performance
 * The fan calculated for wet conditions
 * Sfp is calculated based on clean filter & dry coil conditions


ACCESSORIES (M4)

Lightening, Observation Glass	
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BSK 5/8		AHU Name		J Prime_25_45_1RH_3RC - (1 QTY)			
		AHU Model		JUPITER 8 X 16			
COIL (Heating) (M6)							
Air Flow	Capacity / Sensible	Required Cap.	Face Vel.	Quantity	Tube Mat.	Fin Mat.	Section Weight
4.300 m ³ /h	22,96/22,96 kW		1,86 m/s	1	Copper	Aluminium	61 kg
Coil Code			Tube Thickness	Fin Thickness	Mixing Ratio		
25 x 22 3/8 24T 1R 1055A 1.8P 6NC			0,35 mm	0,1 mm	%		
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap		Size (W x H x L) mm	Conn. Material	Frame Material	
				1.055 x 610 x 110	Steel	Galvanized Steel	
Fluid Kind		Fluid In / Out					
WATER		70/50 °C					
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature					
14,98 °C		30,57 °C					
Air Inlet Wetbulb Temperature		Air Outlet Wetbulb Temperature					
9,80 °C		16,04 °C					
Air Inlet Relative Humidity		Air Outlet Relative Humidity					
51,22 %		19,90 %					
Air Inlet - Outlet Enthalpy		Fluid Flow / Vol. Flow					
28,73 - 44,56 kJ/kg		987 kg/h / 1.010 dm ³ /h					
Air Press.Drop		Fluid Press.Drop / Fluid Velocity					
15 Pa		12,50 kPa / 0,69 m/s					
Coil Surface Area		Tube Inner Volume					
14,47 m ²		2,11 L					
Manifold / Conn.QTY		Conn.Direction					
1 / 1		Right					
Connection Sizes			Air Condensation	Hygienic	Blygold		
21,3 / 21,3 mm (1/2" DN15 / 1/2" DN15)			0,00 l/h				
Bypass Damper							
ACCESSORIES (M6)							

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BSK	6/8	AHU Model	JUPITER 8 X 16		



COIL (Cooling) (Wet Surface) (M7)

Air Flow	Capacity / Sensible	Required Cap.	Face Vel.	Quantity	Tube Mat.	Fin Mat.	Section Weight			
4.300 m³/h	16,22/10,37 kW		2,01 m/s	1	Copper	Aluminium	169 kg			
Coil Code 32 x 28 12 18T 3R 1040A 2.8P 9NC			Tube Thickness 0,35 mm		Fin Thickness 0,1 mm		Mixing Ratio %			
Droplet Elimin. / Press. Drop Polypropylene / 18 Pa / 15,39 kg / QTY:1		Condensation Pan / Hmin U-Trap Stainless Steel (Connection:Right) (Pressure:Positive) / 62,96 mm		Size (W x H x L) mm 1.040 x 572 x 145		Conn. Material Steel	Frame Material Galvanized Steel			
Fluid Kind WATER	Fluid In / Out 7/12 °C									
Air Inlet Drybulb Temperature 24,52 °C	Air Outlet Drybulb Temperature 17,25 °C									
Air Inlet Wetbulb Temperature 19,77 °C	Air Outlet Wetbulb Temperature 15,99 °C									
Air Inlet Relative Humidity 64,74 %	Air Outlet Relative Humidity 88,03 %									
Air Inlet - Outlet Enthalpy 56,45 - 44,77 kJ/kg	Fluid Flow / Vol. Flow 2.783 kg/h / 2.783 dm³/h									
Air Press.Drop(Wet/Dry) 44 Pa / 35 Pa	Fluid Press.Drop / Fluid Velocity 14,87 kPa / 0,79 m/s									
Coil Surface Area 32,61 m²	Tube Inner Volume 7,35 L									
Manifold / Conn.QTY 1 / 1	Conn.Direction Right									
Connection Sizes 33,2 / 33,2 mm (1" DN25 / 1" DN25)		Air Condensation 8,40 l/h					Hygienic		Blygold	

Bypass Damper

ACCESSORIES (M7)

Siphon



FILTER (M3)

Air Flow	Condensation Pan	Hygienic	Spare Filter	Section Weight
4.300 m³/h				135 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*
M6 Panel	57 Pa / 157 Pa / 107 Pa	1,7 m/s	592x592x48/2/E	

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M3)

Lightening, Observation Glass, Manometer Pressure Gauge




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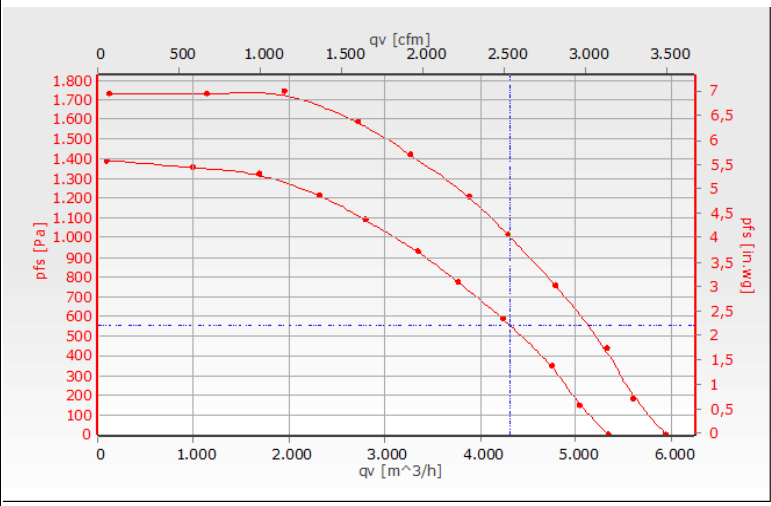
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		Project ID	4157	Tracking Number	4126
		Project Name	J Prime 25 Selection		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_45_1RH_3RC - (1 QTY)		
BSK	7/8	AHU Model	JUPITER 8 X 16		



EXHAUST FAN (M5)

Air Flow	4.300 m ³ /h	Fan Model	EBM Papst-R3G310PH3801			Quantity	1	Section Weight	138 kg			
Internal Static Pressure	307 Pa	Motor P./Pha./Volt./Freq.	1,8 kW/3P/400V/50-60Hz			Isolator		Isolator Count				
External Static Pressure	250 Pa				Backup Fan		Backup Motor					
Total Static Pressure	557 Pa											
Total Pressure	648 Pa											
System Effect	29 Pa											
Total / Static Efficiency	60,33 / 51,87 %											
Shaft Power / Absorbed Power	1,28 / 1,39 kW	Absorbed Pow.With VFD	1,39 kW									
Fan Speed	3029 rpm (Max.3410 rpm)											
	Air Density	1,3505 kg/m ³										
Specific Fan Power (SFPe int)	0,45 kW/(m ³ /s)	Sound Power Level (dB)										
Electrical Current	2,01 A (Max.2,82 A)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
		SPLm - Outlet Side	65,2	69,0	77,0	76,7	79,4	79,0	82,4	79,4	87,1	dBa
		SPLa - Inlet Side	63,0	67,6	75,9	76,4	71,0	72,9	78,8	77,0	83,0	dBa

* 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 (M5)

Lightening, Observation Glass

