

# TriaAir<sup>®</sup>

## Ventilationsanlæg

# Tekniske data

## J Prime 25\_20, ROTOR



Varenr.: Q02000200  
Med ROTOR

Standardfarve: RAL 9002 glans 30 (hvid)



TECHNICAL DATA			
Date	21.08.2020	Rev. Date	11.09.2020
Project ID	4157	Tracking Number	4126
Project Name	Item no. Q02000200		
AHU Name	J Prime_25_20		
AHU Model	JUPITER 8 X 12		



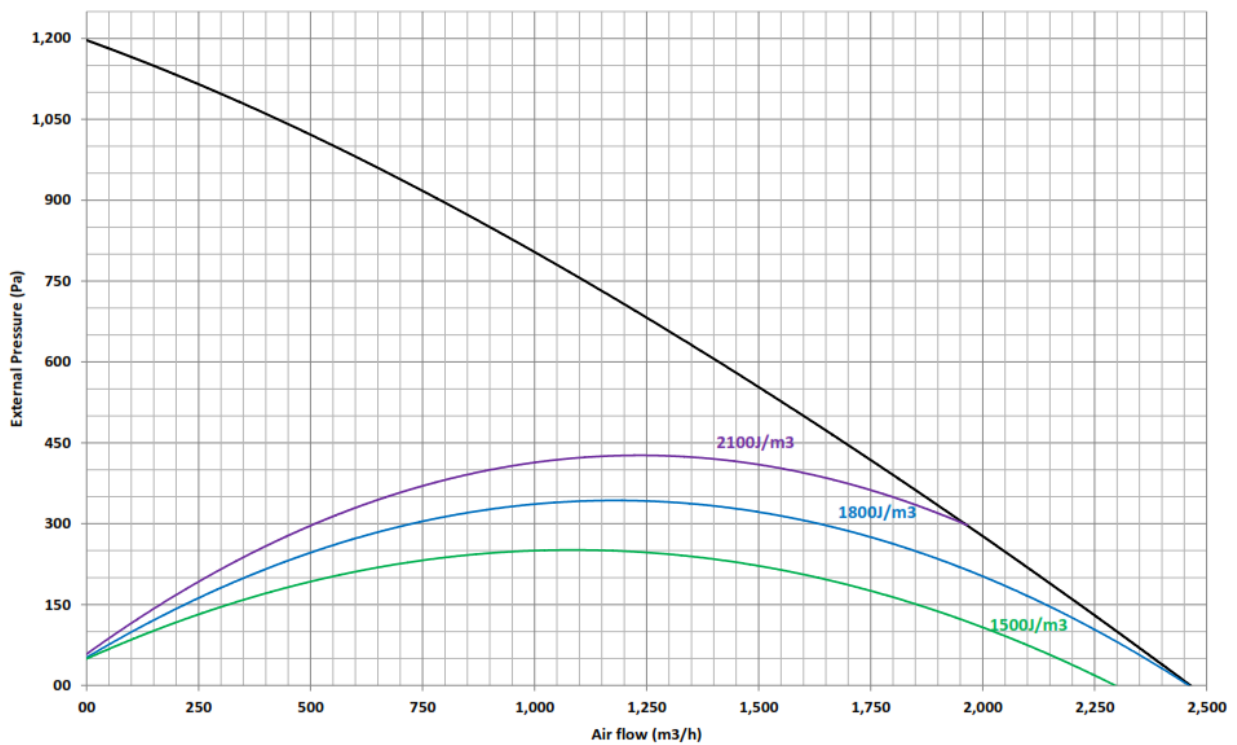
Ecodesign Requirements Table

	Value		2018	
Product	JUPITER 25			
Erp	2018			
A Manufacturer	BSK Havalandırma Ekipmanları A.Ş.			
B Model Identifier	JUPITER 8 X 12			
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	81,24 %		81,24 %	>= 73 %
G Nominal Flow Rate	0,56 m <sup>3</sup> /s	0,56 m <sup>3</sup> /s		
H Effective Electrical Power Input	0,57 kW	0,56 kW	1,13 kW	
I SFPInt	578 W/(m <sup>3</sup> /s)	515 W/(m <sup>3</sup> /s)	1093W/(m <sup>3</sup> /s) <= 1264	
J Face Velocity	1,34 m/s	1,28 m/s		
K Nominal External Drop Δps, Ext	200 Pa		200 Pa	
L Internal Pressure Drop Δps, Int Supply Air	339 Pa		339 Pa	
Internal Pressure Drop Δps, Int Exhaust Air	368 Pa		368 Pa	
M Additional Pressure Drop Δps, Add	48 Pa	34 Pa		
N Static Fan Efficiency EC327/2011	56,97 %	60,93 %		
O Declared Maximum Ext./Int. Leakage Rate	1,00 %		1,00 %	
Leakage Classifications by Eurovent	L1		L1	
P Energy Performance Of Filters	A	C		
Q Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge	Required	
R Casing Sound Power Level (Lwa)	58,6 dBA		58,6 dBA	
S Internet Address Of Instructions	<a href="http://www.Termicplus.dk">www.Termicplus.dk</a>			
Total Dimension mm	W 890 x H 1.375 x L 1.710			
Supply Airflow	2.000 m <sup>3</sup> /h		2.000 m <sup>3</sup> /h	
Return Airflow	2.000 m <sup>3</sup> /h		2.000 m <sup>3</sup> /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	1,85 m/s		1,85 m/s	
SUPPLY CONNECTION Air Velocity	1,85 m/s		1,85 m/s	
RETURN CONNECTION Air Velocity	1,85 m/s		1,85 m/s	
EXHAUST CONNECTION Air Velocity	1,85 m/s		1,85 m/s	
Total Heating Capacity				
Fluid Kind for Heating				
Fluid Temp. In / Out (Heating)				
Total Cooling Capacity				
Fluid Kind for Cooling				
Filter Type supply Air	F7 Panel		F7 Panel	
Filter Type Return Air	M6 Panel		M6 Panel	
Total Weight	461 kg		461 kg	

Accessories	Connection possible (Motherboard)	Included in the unit	Overall Total values
Co2 sensor	Yes	No	
Motion Sensor	Yes	No	
Heating Module	Yes	No	
Cooling Module	Yes	No	
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	

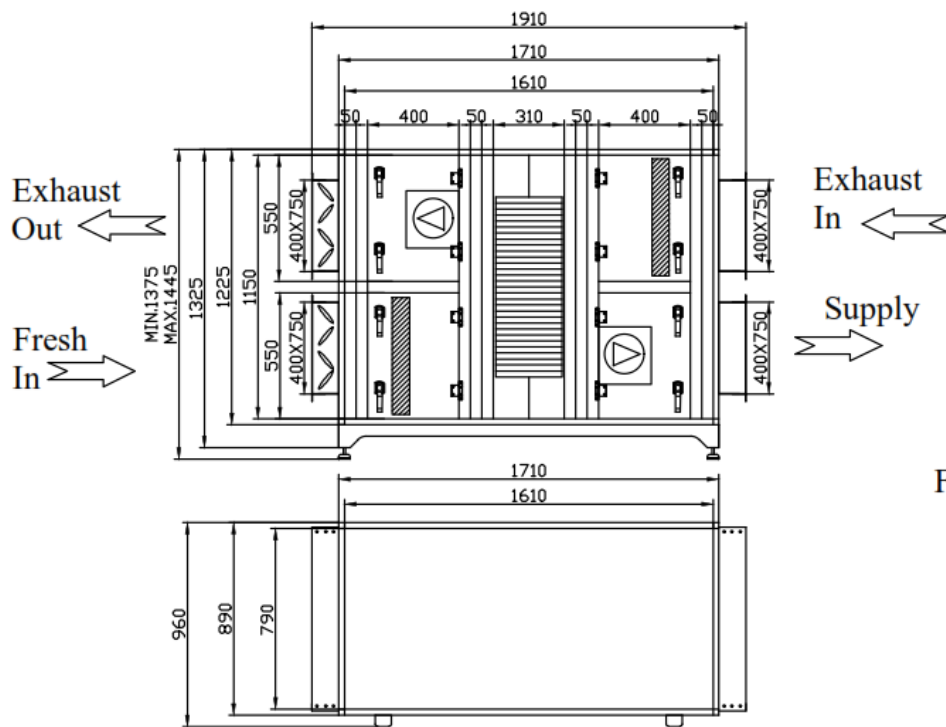
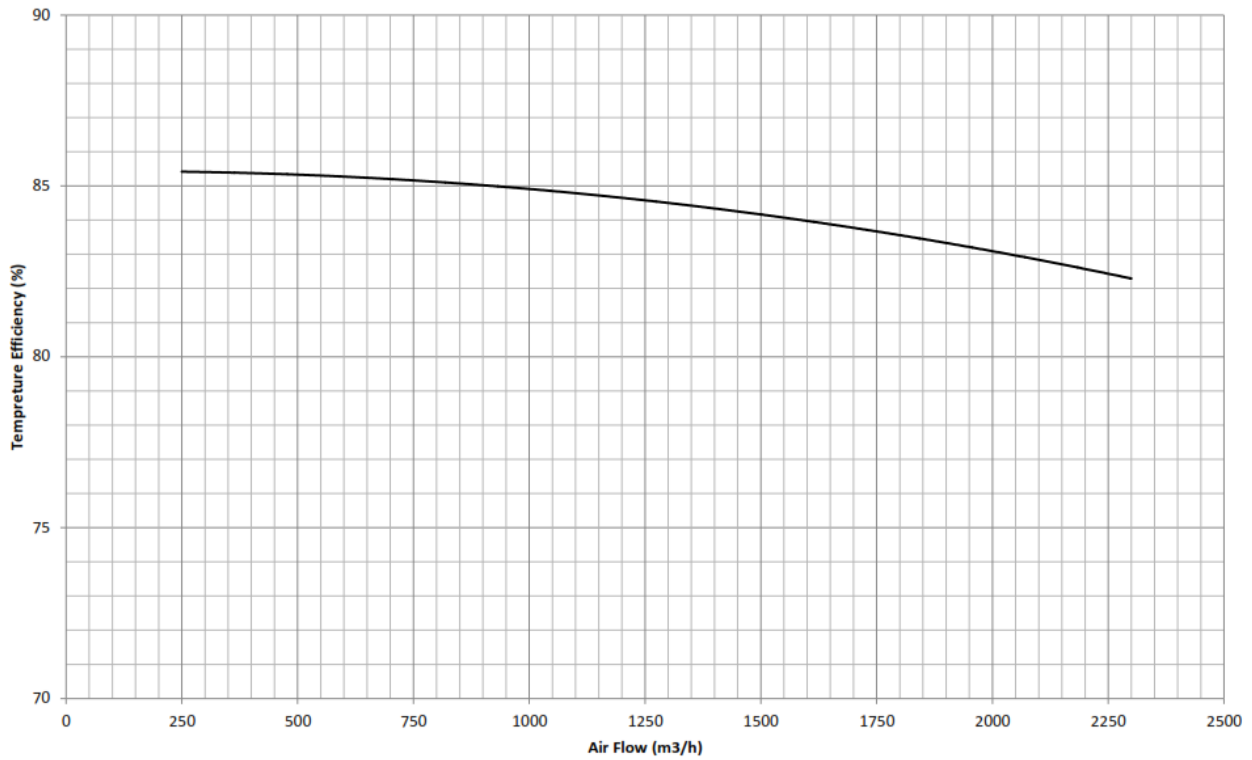
## Air Flow

### J Prime 25\_20

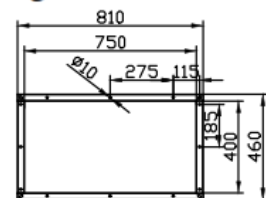


# Efficiency

Jprime 25\_20



### Flange Dimensions



NOTE: ALL DIMENSIONS ARE MM



# ATTESTATION OF CONFORMITY UYGUNLUK ONAYI

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

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

Adres: Radnička cesta 54/R3, Zagreb Croatia

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E-posta: [info@udemadriatic.com](mailto:info@udemadriatic.com) Web: [www.udemadriatic.com](http://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**



Mimar Sinan Mah. Basra Cad. No:59/A

Sultanbeyli İSTANBUL

Tel: 0216 669 09 72 (pbx) Fax: 0216 669 09 72

Sultanbeyli V.D : 187 000 3997

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

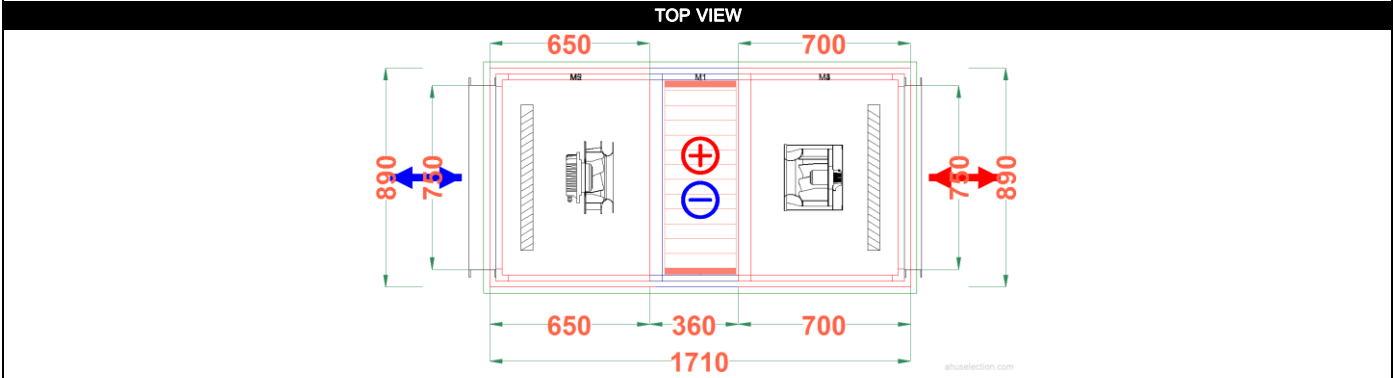
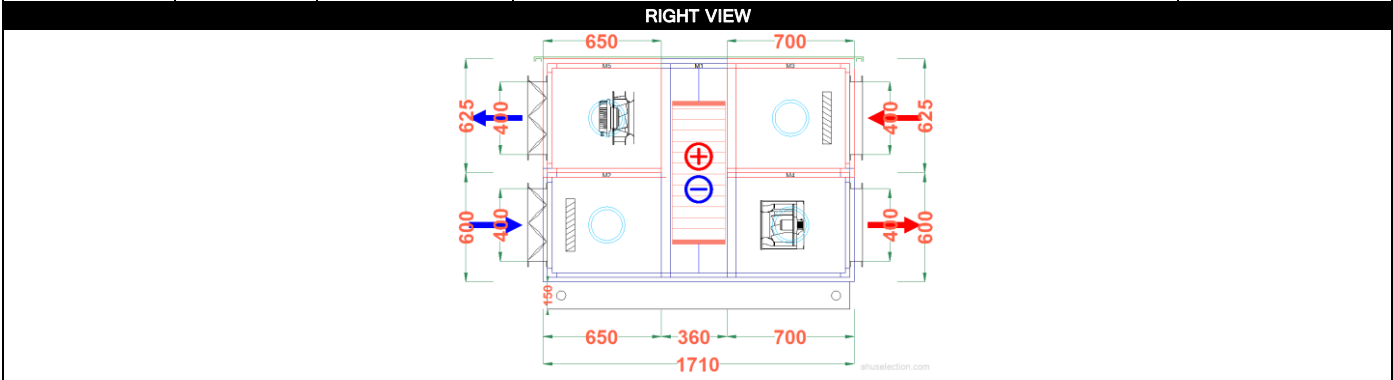
**Phone / Telefon:** : + 90 216 669 09 70

**Mail:** info@bskhavalandirma.com

**Web :** www.bskhavalandirma.com

DECLARATION OF CONFORMITY

	<b>TECHNICAL DATA</b>			
	Date	21.08.2020	Rev. Date	11.09.2020
	Project ID	4157	Tracking Number	4126kopya
	Project Name	25secim		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name J Prime_25_20 - (1 QTY)		
BSK	1/6	AHU Model JUPITER 8 X 12		



**GENERAL SPECIFICATIONS**

Supply Air Flow 2.000 m³/h	Return Air Flow 2.000 m³/h	Frame 25 steel profile	Total Dimensions mm W 890 x H 1.375 x L 1.710	
Supply Air Velocity 1,34 m/s	Return Air Velocity 1,28 m/s	Insulation Material 50 mm Rockwool 70 kg/m³	Total Weight 461 kg	
	Air Density 1,3504 kg/m³	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 1,13 kW	
		Total Sensible Capacity	Motor Power(Vent/Asp) 0,54 kW / 0,52 kW	
Specific Fan Power(SFP Total) 1,09 kW/(m³/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	69,8	63,1	54,7	41,1	38,4	33,2	20,3	58,6	dBA
Air Outlet Induct Sound Power Level	73,8	87,3	80,4	78,6	75,4	70,0	69,8	84,3	dBA
Air Inlet Induct Sound Power Level	81,0	70,6	63,8	56,6	48,8	41,4	34,4	68,5	dBA
Return Air Outlet Induct Sound Power Level	81,8	84,6	79,9	72,8	68,2	66,7	62,3	80,4	dBA
Return Air Inlet Induct Sound Power Level	79,7	71,6	64,5	55,4	48,7	41,1	32,9	67,7	dBA

**ACCESSORIES**




Lightening, Observation Glass, Manometer Pressure Gauge

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	11.09.2020	
		Project ID	4157	Tracking Number	4126kopya	
		Project Name	25secim			
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_20 - (1 QTY)			
BSK	2/6	AHU Model	JUPITER 8 X 12			
FRESH AIR CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
2.000 m³/h		W 750 mm x H 400 mm		1,85 m/s		
SUPPLY CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
2.000 m³/h		W 750 mm x H 400 mm		1,85 m/s		
RETURN CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
2.000 m³/h		W 750 mm x H 400 mm		1,85 m/s		
EXHAUST CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
2.000 m³/h		W 750 mm x H 400 mm		1,85 m/s		
FILTER (M2)						
Airflow	Condensation Pan			Spare Filter	Section Weight	
2.000 m³/h					95 kg	
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	64 Pa / 164 Pa / 114 Pa	3,27 m/s	592x287x48/1/A			
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M2)						
Lightening, Observation Glass, Manometer Pressure Gauge						



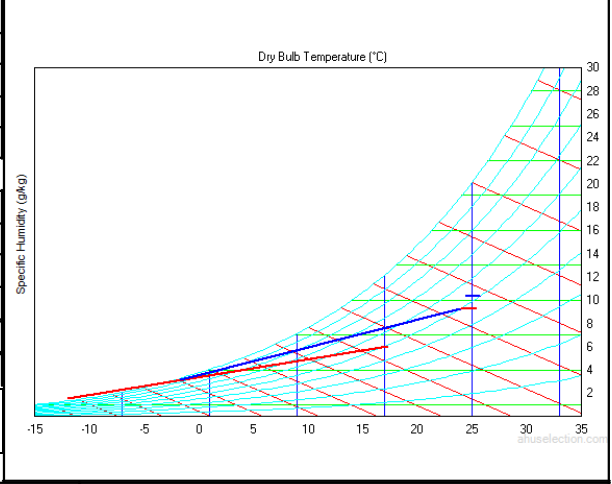
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AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_20 - (1 QTY)	
BSK	3/6	AHU Model	JUPITER 8 X 12	



**ROTARY HEAT EXCHANGER (M1)**

Model	RRU_ECO-P-E14-785/785-735	Rpm	15	Quantity	1	Section Weight	104 kg
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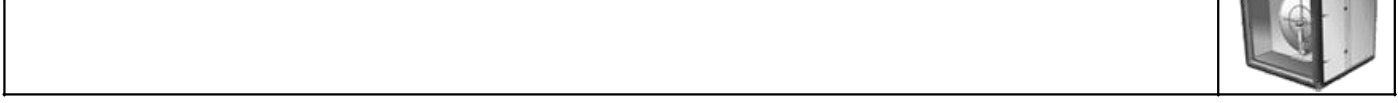
	Fresh Air	Exhaust	Capacity	Winter	Summer				
Airflow	2.000 m³/h	2.000 m³/h		27,54 kW	-0,95 kW				
Air Vel.	2,32 m/s	2,66 m/s		Fresh	Exhau	Fresh	Exhaus		
	Winter		P.D	199 Pa	237 Pa	254 Pa	237 Pa		
	Summer			245 Pa	231 Pa	245 Pa	231 Pa		
	Effic.	Balan.(*)	1.2kg/m³	245 Pa	231 Pa	245 Pa	231 Pa		
	81,24	81,24		77,72	77,72				
Air Inlet / Outlet	Winter				Summer				
	Fresh Air		Exhaust		Fresh Air		Exhaust		
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
	DT	-12,00 °	17,25 °C	24,00 °C	-1,66 °C	25,80 °C	24,40 °C	24,00 °C	25,40 °C
	WT	-12,00 °	11,43 °C	17,07 °C	-1,91 °C	18,55 °C	18,08 °C	17,07 °C	17,55 °C
	RH	100,00	49,31 %	50,00 %	95,00 %	50,00 %	54,34 %	50,00 %	45,99 %
Condensation Pan		OACF (*)		EATR (%) (*)					
		0,00		0,00					



<input type="checkbox"/> Frequency Inverter	Size mm (785 x 785 x 290) - 735	Bypass Damper
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\* Efficiency at balanced flow  
\* OACF: Outdoor Air Correction Factor, EATR: Exhaust Air Transfer Ratio

**ACCESSORIES (M1)**



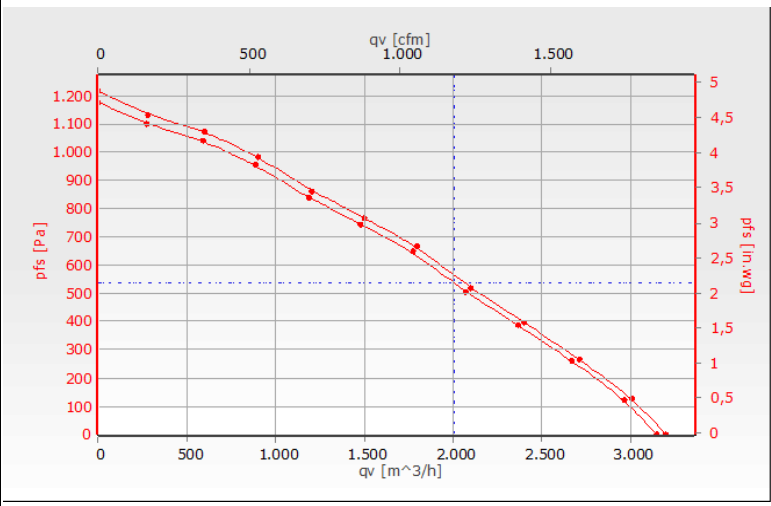
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BSK	4/6	AHU Model	JUPITER 8 X 12	



**SUPPLY FAN (M4)**

Airflow	2.000 m³/h	Fan Model	EBM Papst-R3G250PR04H1		Quantity	1	Section Weight	95 kg				
Internal Static Pressure	339 Pa	Motor P./Pha./Volt./Freq.	0,54 kW/1P/230V/50-60Hz		Isolator		Isolator Count					
External Static Pressure	200 Pa				Backup Fan		Backup Motor					
Total Static Pressure	539 Pa											
Total Pressure	587 Pa											
System Effect	26 Pa											
Total / Static Efficiency	62,05 / 56,97 %											
Shaft Power / Absorbed Power	0,53 / 0,57 kW	Absorbed Pow.With VFD	0,57 kW									
Fan Speed	3000 rpm (Max.3080 rpm)											
	Air Density	1,2000 kg/m³										
Specific Fan Power (SFPe int)	0,58 kW/(m³/s)	<b>Sound Power Level (dB)</b>										
		Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current	2,48 A (Max.2,55 A)	SPLm - Outlet Side	70,0	68,5	79,4	76,2	78,6	77,7	72,9	73,5	83,5	dBA
		SPLa - Inlet Side	73,5	71,9	71,1	70,0	69,0	65,4	64,9	63,1	74,0	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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**FILTER (M3)**

Airflow	2.000 m³/h	Condensation Pan				Spare Filter		Section Weight	84 kg
Filter Type	M6 Panel	Initial / Final / Design P.Drop	52 Pa / 152 Pa / 102 Pa	Air Velocity	3,27 m/s	Size/Quantity/EC*	592x287x48/1/C	Size/Quantity/EC*	

\* Filter Energy Performance; preferably energy classification


\* Frame sealing applied.

**ACCESSORIES (M3)**

Lightening, Observation Glass, Manometer Pressure Gauge	
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BSK	5/6	AHU Model	JUPITER 8 X 12	



**EXHAUST FAN (M5)**

Airflow	2.000 m <sup>3</sup> /h	Fan Model	EBM Papst-R3G280RR03H1		Quantity	1	Section Weight	83 kg														
Internal Static Pressure	368 Pa	Motor P./Pha./Volt./Freq.	0,52 kW/1P/230V/50-60Hz	Isolator		Isolator Count		Backup Fan		Backup Motor												
External Static Pressure	200 Pa																					
Total Static Pressure	568 Pa																					
Total Pressure	602 Pa											System Effect	29 Pa									
Total / Static Efficiency	64,55 / 60,93 %																					
Shaft Power / Absorbed Power	0,52 / 0,56 kW											Absorbed Pow.With VFD	0,56 kW									
Fan Speed	2670 rpm (Max.2700 rpm)																					
	Air Density											1,2000 kg/m <sup>3</sup>										
Specific Fan Power (SFPe int)	0,52 kW/(m <sup>3</sup> /s)											<b>Sound Power Level (dB)</b>										
Electrical Current	2,45 A (Max.2,46 A)											Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
												SPLm - Outlet Side	76,9	75,9	76,9	75,7	72,8	70,3	69,5	65,6	78,6	dB(A)
		SPLa - Inlet Side	71,9	70,9	71,9	70,7	67,8	65,3	64,5	60,6	73,6	dB(A)										

\* 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	
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