

# TriaAir<sup>®</sup>

Ventilationsanlæg

## Tekniske data

J Prime 25\_120, 1RH og ROTOR



Varenr.: QC12000300  
Med 1RH og ROTOR  
(1RH varmefflade maks. 57,63 kW)

Standardfarve: RAL 9002 glans 30 (hvid)



TECHNICAL DATA			
Date	21.08.2020	Rev. Date	22.09.2020
Project ID	4157	Tracking Number	4126
Project Name	Item no. QC12000300		
AHU Name	J Prime_25_120_1RH		
AHU Model	JUPITER 16 X 20		



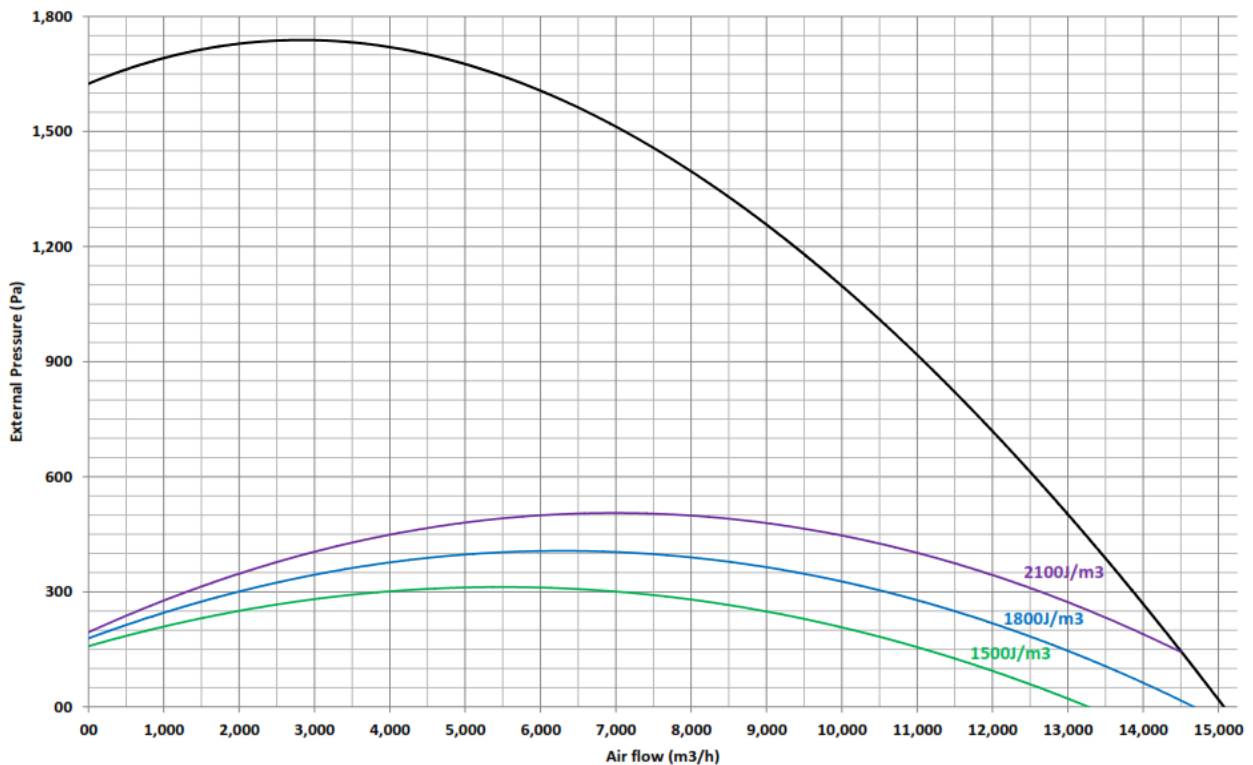
Ecodesign Requirements Table

			Value	2018
	Product	JUPITER 25		
	Erp	2018		
A	Manufacturer	BSK Havalandırma Ekipmanları A.Ş.		
B	Model Identifier	JUPITER 16 X 20		
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	76,52 %		76,52 % >= 73 %
G	Nominal Flow Rate	3,26 m <sup>3</sup> /s	3,26 m <sup>3</sup> /s	
H	Effective Electrical Power Input	1,98 kW x 2	1,95 kW x 2	7,86 kW
I	SFPInt	465 W/(m <sup>3</sup> /s)	430 W/(m <sup>3</sup> /s)	895W/(m <sup>3</sup> /s) <= 906
J	Face Velocity	1,83 m/s	1,78 m/s	
K	Nominal External Drop Δps, Ext	300 Pa		300 Pa
L	Internal Pressure Drop Δps, Int Supply Air	309 Pa		309 Pa
	Internal Pressure Drop Δps, Int. Exhaust Air	292 Pa		292 Pa
M	Additional Pressure Drop Δps, Add	106 Pa	106 Pa	
N	Static Fan Efficiency EC327/2011	54,51 %	53,97 %	
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)	62,7 dBA		62,7 dBA
S	Internet Address Of Instructions	<a href="http://www.Termicplus.dk">www.Termicplus.dk</a>		
	Total Dimension mm	W 1.930 x H 2.275 x L 2.400		
	Supply Airflow	11.750 m <sup>3</sup> /h		11.750 m <sup>3</sup> /h
	Return Airflow	11.750 m <sup>3</sup> /h		11.750 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	2,55 m/s		2,55 m/s
	SUPPLY CONNECTION Air Velocity	2,55 m/s		2,55 m/s
	RETURN CONNECTION Air Velocity	2,55 m/s		2,55 m/s
	EXHAUST CONNECTION Air Velocity	2,55 m/s		2,55 m/s
	Total Heating Capacity	57,63 kW		57,63 kW
	Fluid Kind for Heating	Water		Water
	Fluid Temp. In / Out (Heating)	70/50 °C		70/50 °C
	Total Cooling Capacity			
	Fluid Kind for Cooling			
	Fluid Temp. In / Out (Cooling)			
	Filter Type supply Air	F7 Panel		F7 Panel
	Filter Type Return Air	M6 Panel		M6 Panel
	Total Weight	1.350 kg		1.350 kg

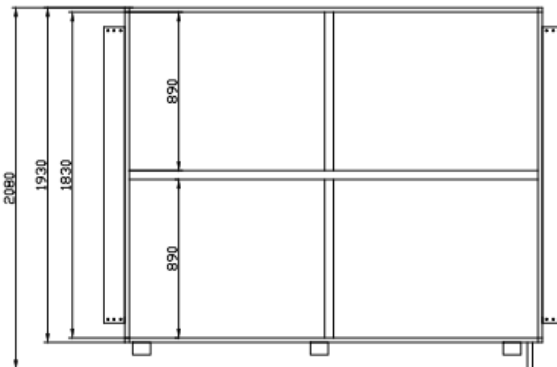
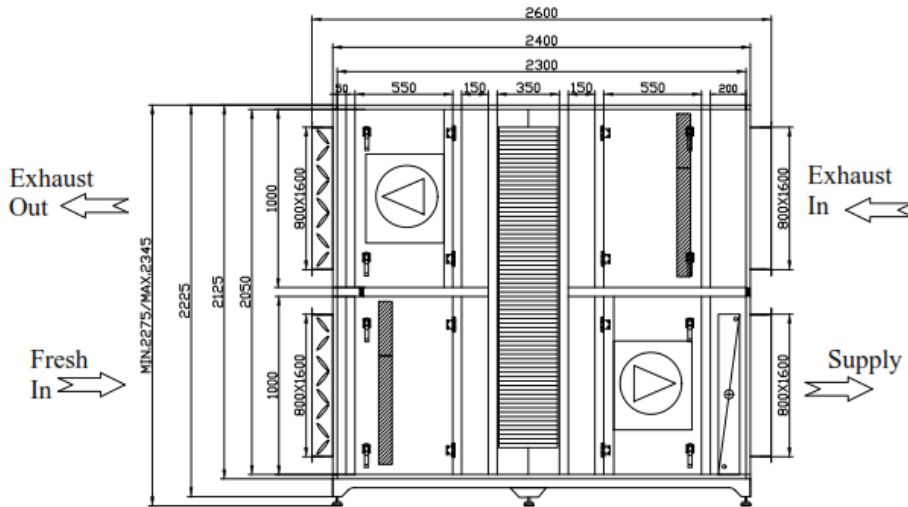
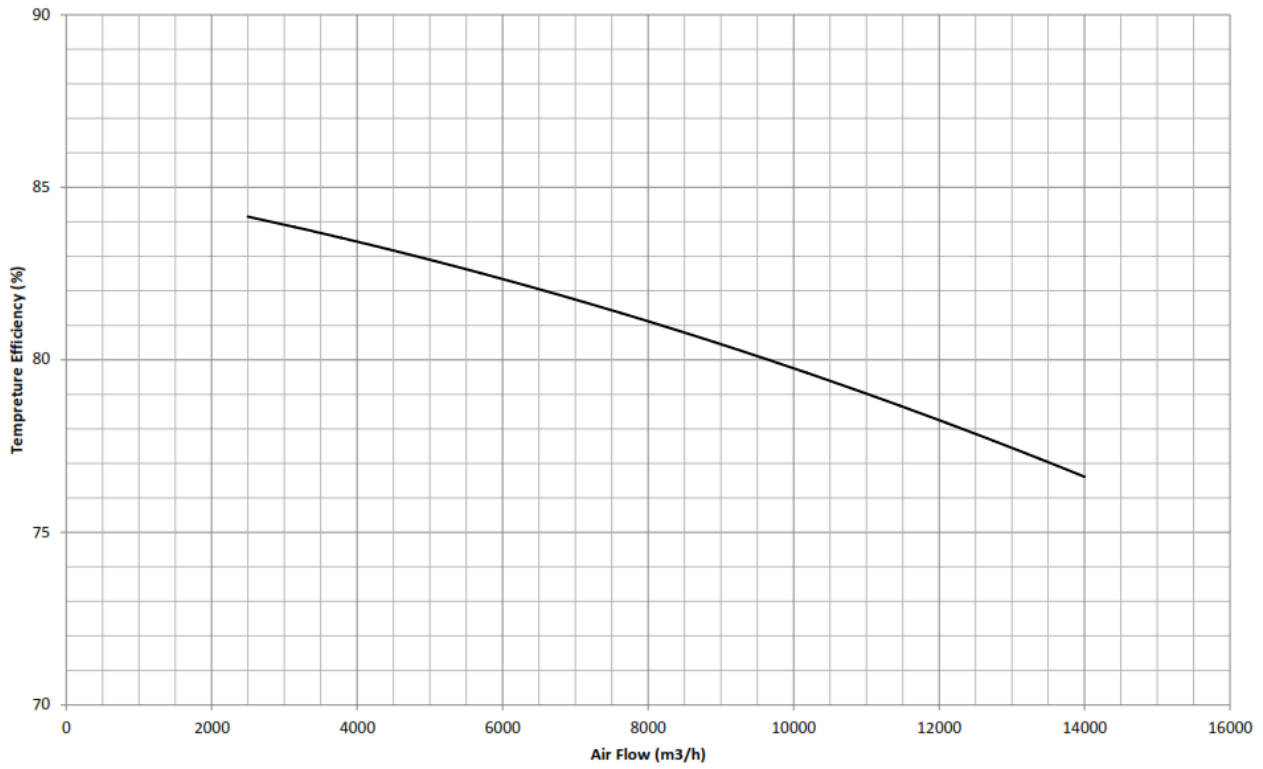
Accessories	Connection possible (Motherboard)	Included in the unit	Overall Total values
Co2 sensor	Yes	No	
Motion Sensor	Yes	No	
Heating Module	Yes	Yes	70/50 °C
Cooling Module	Yes	No	
Hood for supply air	Yes	No	
Hood for Exhaust air	Yes	No	
VAV	Yes	No	
Heating coil valve	Yes	No	
Cooling coil valve	Yes	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\_120 2xK3G355PI9305

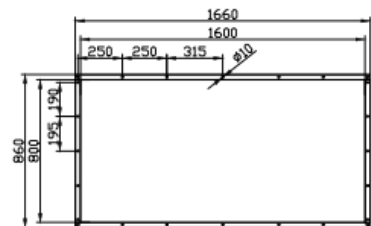


## Efficiency Jprime 25\_120



NOTE: ALL DIMENSIONS ARE MM

### Flange Dimensions





# 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

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# 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

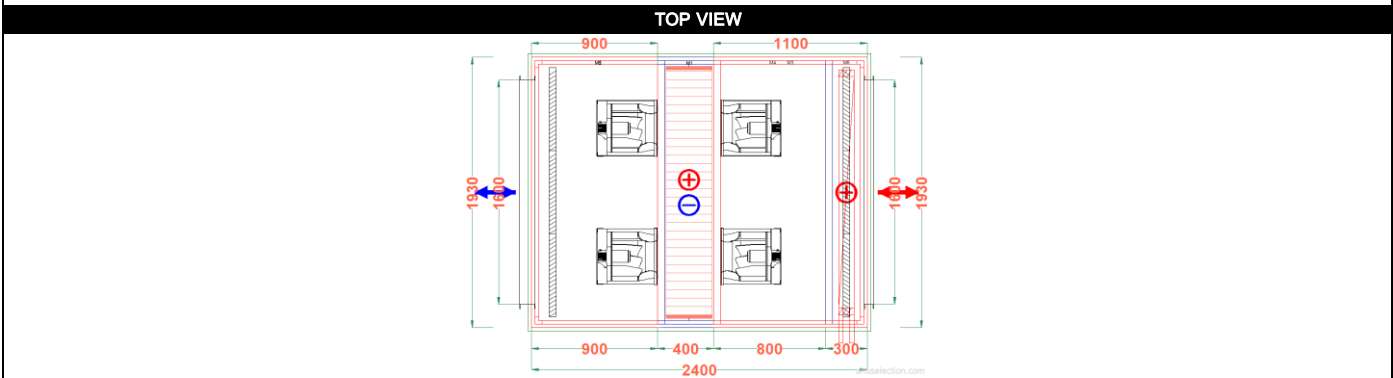
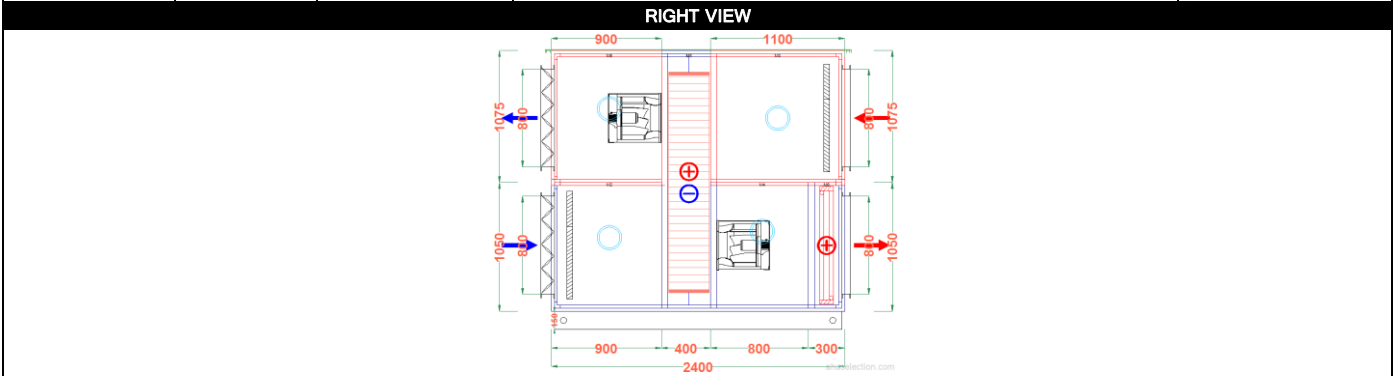
**Phone / Telefon:** : + 90 216 669 09 70

**Mail:** info@bskhavalandirma.com

**Web :** www.bskhavalandirma.com

DECLARATION OF CONFORMITY

	<b>TECHNICAL DATA</b>			
	Date	21.08.2020	Rev. Date	22.09.2020
	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_120_1RH - (1 QTY)		
BSK	1/7	AHU Model JUPITER 16 X 20		



GENERAL SPECIFICATIONS				
Supply Air Flow	Return Air Flow	Frame	Total Dimensions mm	
11.750 m³/h	11.750 m³/h	25 steel profile	W 1.930 x H 2.275 x L 2.400	
Supply Air Velocity	Return Air Velocity	Insulation Material	Total Weight	
1,83 m/s	1,78 m/s	50 mm Rockwool 70 kg/m³	1.350 kg	
Coil Air Velocity	Air Density	Outside Sheet Material	Base Height	Roof (Outside)
2,23 m/s	1,3505 kg/m³	0,9 mm Painted Galvanize	150 mm	Sheet
Design Outdoor Temp.(W-S)		Inside Sheet Material	Total Absorbed Power	
(-12°C/90%)-(25,80°C/60%)(Odense)		0,9 mm Galvanize	7,86 kW	
Total Heating Capacity		Total Sensible Capacity	Motor Power(Vent/Asp)	
57,63 kW			2,8 kW x 2 / 2,8 kW x 2	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	Real Unit CAL Class -400 Pa	Real Unit CAL Class +400 Pa
0,90 kW/(m³/s)	2018	NRVU - BVU	L1	L2

SOUND POWER LEVEL (dB)										
Frequency Hz		125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level		65,7	69,2	60,1	52,7	51,7	48,1	39,7	62,7	dBA
Air Outlet Induct Sound Power Level		75,9	88,0	82,5	81,2	79,4	79,2	79,0	87,2	dBA
Air Inlet Induct Sound Power Level		78,6	81,8	74,5	62,0	58,5	51,2	46,2	75,8	dBA
Return Air Outlet Induct Sound Power Level		78,2	90,1	84,7	83,3	80,3	80,3	80,0	88,8	dBA
Return Air Inlet Induct Sound Power Level		78,9	81,7	74,5	62,0	58,5	51,3	46,1	75,7	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	22.09.2020	
		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_120_1RH - (1 QTY)			
BSK	2/7	AHU Model	JUPITER 16 X 20			
FRESH AIR CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (NM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
11.750 m³/h		W 1.600 mm x H 800 mm		2,55 m/s		
SUPPLY CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
11.750 m³/h		W 1.600 mm x H 800 mm		2,55 m/s		
RETURN CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
11.750 m³/h		W 1.600 mm x H 800 mm		2,55 m/s		
EXHAUST CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (NM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
11.750 m³/h		W 1.600 mm x H 800 mm		2,55 m/s		
FILTER (M2)						
Airflow	Condensation Pan				Spare Filter	Section Weight
11.750 m³/h						248 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	91 Pa / 191 Pa / 141 Pa	2,09 m/s	592x592x48/3/E	592x287x48/3/E		
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M2)						
Lightening, Observation Glass, Manometer Pressure Gauge						



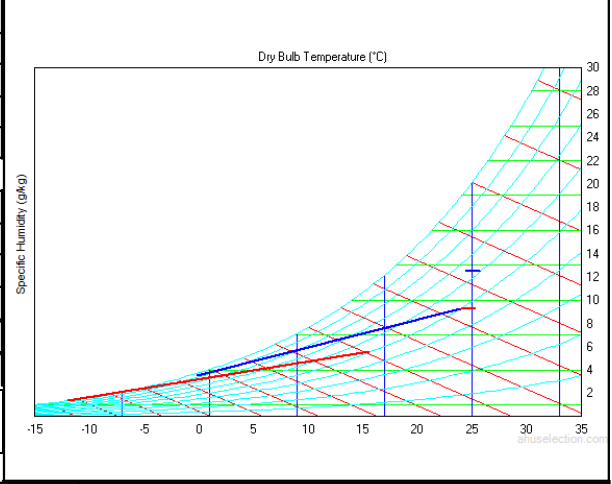
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	Date	21.08.2020	Rev. Date	22.09.2020
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	Project Name	J Prime 25 Selection		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_120_1RH - (1 QTY)	
BSK	3/7	AHU Model	JUPITER 16 X 20	



**ROTARY HEAT EXCHANGER (M1)**

Model	Rpm	Quantity	Section Weight
RRU_ECO-P-E18-1800/1800-1750	15	1	313 kg

	Fresh Air	Exhaust	Capacity	Winter	Summer				
Airflow	11.750 m³/h	11.750 m³/h		151,59 kW	-5,23 kW				
Air Vel.	2,41 m/s	2,75 m/s		Fresh	Exhau	Fresh	Exhaus		
	Winter		Summer	P.D	127 Pa	151 Pa	162 Pa	151 Pa	
	Effic.	Balan.(*)	Effic.	Balan.(*)	1,2kg/m³	157 Pa	148 Pa	157 Pa	148 Pa
	76,52	76,52	72,94	72,94					
Air Inlet / Outlet	Winter				Summer				
	Fresh Air		Exhaust		Fresh Air		Exhaust		
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
	DT	-12,00 °	15,55 °C	24,00 °C	-0,12 °C	25,80 °C	24,49 °C	24,00 °C	25,32 °C
WT	-12,29 °	10,20 °C	17,07 °C	-0,40 °C	20,16 °C	19,76 °C	17,07 °C	17,52 °C	
RH	90,00 %	50,62 %	50,00 %	95,00 %	60,00 %	64,88 %	50,00 %	46,22 %	

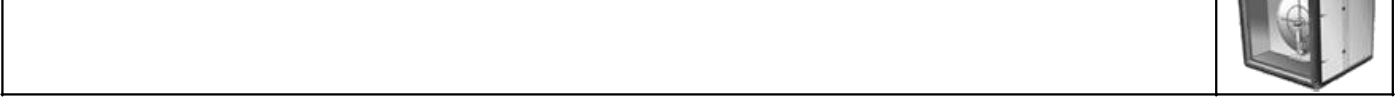



Condensation Pan	OACF (*)	EATR (%) (*)
	0,00	0,00

<input type="checkbox"/> Frequency Inverter	Size mm	Bypass Damper
	(1.800 x 1.800 x 330) - 1.750	

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

**ACCESSORIES (M1)**



	<b>TECHNICAL DATA</b>			
	Date	21.08.2020	Rev. Date	22.09.2020
	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_120_1RH - (1 QTY)	
BSK	4/7	AHU Model	JUPITER 16 X 20	



**SUPPLY FAN (M4)**

Airflow	5.875 m <sup>3</sup> /h x 2	Fan Model	EBM Papst-R3G355PI9301			Quantity	2	Section Weight	163 kg			
Internal Static Pressure	309 Pa	Motor P./Pha./Volt./Freq.	2,8 kW/3P/400V/50-60Hz			Isolator		Isolator Count				
External Static Pressure	300 Pa	Isolator		Backup Fan		Backup Motor						
Total Static Pressure	609 Pa											
Total Pressure	715 Pa											
System Effect	14 Pa											
Total / Static Efficiency	64,04 / 54,51 %											
Shaft Power / Absorbed Power	1,82 / 1,98 kW x 2											
Fan Speed	2845 rpm (Max.3230 rpm)	Air Density	1,3505 kg/m <sup>3</sup>									
Specific Fan Power (SFPe int)	0,47 kW/(m <sup>3</sup> /s)	<b>Sound Power Level (dB)</b>										
Electrical Current	2,86 A x 2 (Max.4,39 A x 2)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
		SPLm - Outlet Side	66,8	69,4	79,0	77,2	80,2	79,8	80,5	81,2	87,1	dB(A)
		SPLa - Inlet Side	64,4	67,1	77,6	76,9	71,5	73,8	75,4	78,9	82,6	dB(A)



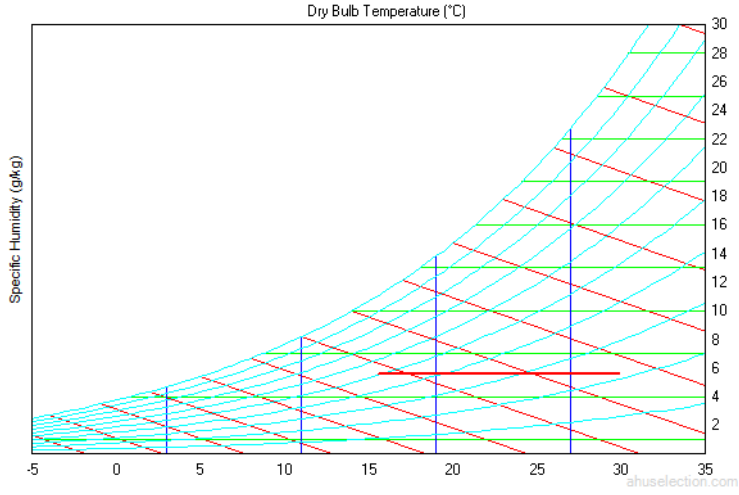

\* The fan system effect is taken into account in the fan performance  
 \* The fan calculated for wet conditions  
 \* Sfp is calculated based on clean filter & dry coil conditions



**ACCESSORIES (M4)**

Lightening, Observation Glass	
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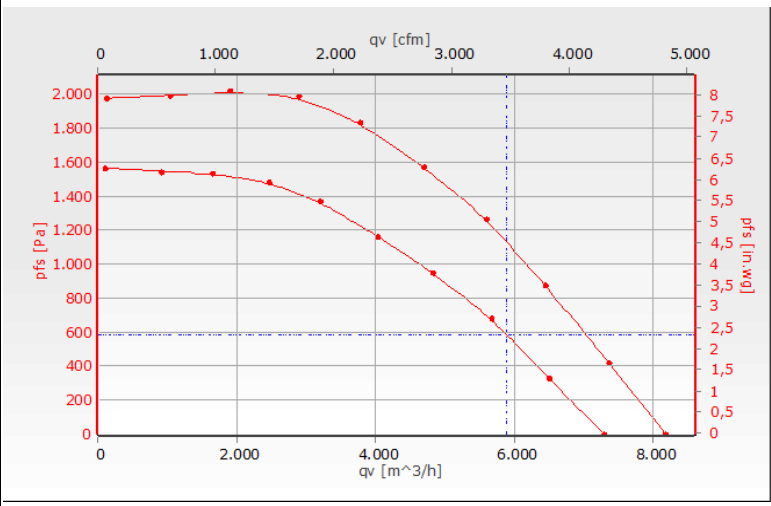
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		TECHNICAL DATA				
		Date	21.08.2020	Rev. Date	22.09.2020	
AHUSEL V.		2.2.3.17 15.08.2020	Project ID	4157	Tracking Number	4126
BSK		5/7	Project Name	J Prime 25 Selection		
			AHU Name	J Prime_25_120_1RH - (1 QTY)		
			AHU Model	JUPITER 16 X 20		
COIL (Heating) (M6)						
Airflow	Capacity / Sensible	Required Cap.	Face Vel.	Quantity	Tube Mat.	Section Weight
11.750 m <sup>3</sup> /h	57,63/57,63 kW		2,23 m/s	1	Copper	149 kg
Coil Code			Tube Thickness	Fin Thickness	Mixing Ratio	
32 x 28 12 28T 1R 1650A 1.8P 7NC			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
				1.650 x 889 x 110	Steel	Galvanized Steel
Fluid Kind	Fluid In / Out					
WATER	70/50 °C					
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature					
15,55 °C	29,88 °C					
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature					
10,20 °C	15,91 °C					
Air Inlet Relative Humidity	Air Outlet Relative Humidity					
50,62 %	21,20 %					
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow					
29,64 - 44,21 kJ/kg	2.478 kg/h / 2.535 dm <sup>3</sup> /h					
Air Press.Drop	Fluid Press.Drop / Fluid Velocity					
27 Pa	13,85 kPa / 0,92 m/s					
Coil Surface Area	Tube Inner Volume					
40,76 m <sup>2</sup>	6,35 L					
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes			Air Condensation	Hygienic		
33,2 / 33,2 mm (1" DN25 / 1" DN25)			0,00 l/h			
ACCESSORIES (M6)						
FILTER (M3)						
Airflow	Condensation Pan				Spare Filter	Section Weight
11.750 m <sup>3</sup> /h						243 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
M6 Panel	76 Pa / 176 Pa / 126 Pa	2,09 m/s	592x592x48/3/E	592x287x48/3/E		
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M3)						
Lightening, Observation Glass, Manometer Pressure Gauge						

	<b>TECHNICAL DATA</b>				
	Date	21.08.2020	Rev. Date	22.09.2020	
	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_120_1RH - (1 QTY)		
BSK	6/7	AHU Model	JUPITER 16 X 20		

**EXHAUST FAN (M5)**

Airflow	5.875 m <sup>3</sup> /h x 2	Fan Model	EBM Papst-R3G355PI9301		Quantity	2	Section Weight	235 kg				
Internal Static Pressure	292 Pa	Motor P./Pha./Volt./Freq.	2,8 kW/3P/400V/50-60Hz		Isolator		Isolator Count					
External Static Pressure	300 Pa				Backup Fan		Backup Motor					
Total Static Pressure	592 Pa											
Total Pressure	698 Pa								System Effect	15 Pa		
Total / Static Efficiency	63,67 / 53,97 %											
Shaft Power / Absorbed Power	1,79 / 1,95 kW x 2								Absorbed Pow.With VFD	1,95 kW x 2		
Fan Speed	2834 rpm (Max.3230 rpm)	Air Density	1,3505 kg/m <sup>3</sup>									
Specific Fan Power (SFPe int)	0,43 kW/(m <sup>3</sup> /s)	<b>Sound Power Level (dB)</b>										
Electrical Current	2,81 A x 2 (Max.4,39 A x 2)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
		SPLm - Outlet Side	66,8	69,5	78,9	77,3	80,3	79,8	80,6	81,2	87,1	dB(A)
		SPLa - Inlet Side	64,4	67,3	77,5	76,9	71,5	73,8	75,5	78,8	82,6	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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