

# TriaAir<sup>®</sup>

## Ventilationsanlæg

# Tekniske data

## J Prime 25\_120, ROTOR



Varenr.: QB12000300  
Med ROTOR

Standardfarve: RAL 9002 glans 30 (hvid)



TECHNICAL DATA			
Date	21.08.2020	Rev. Date	14.09.2020
Project ID	4157	Tracking Number	4126
Project Name	Item no. QB12000300		
AHU Name	J Prime_25_120		
AHU Model	JUPITER 16 X 20		



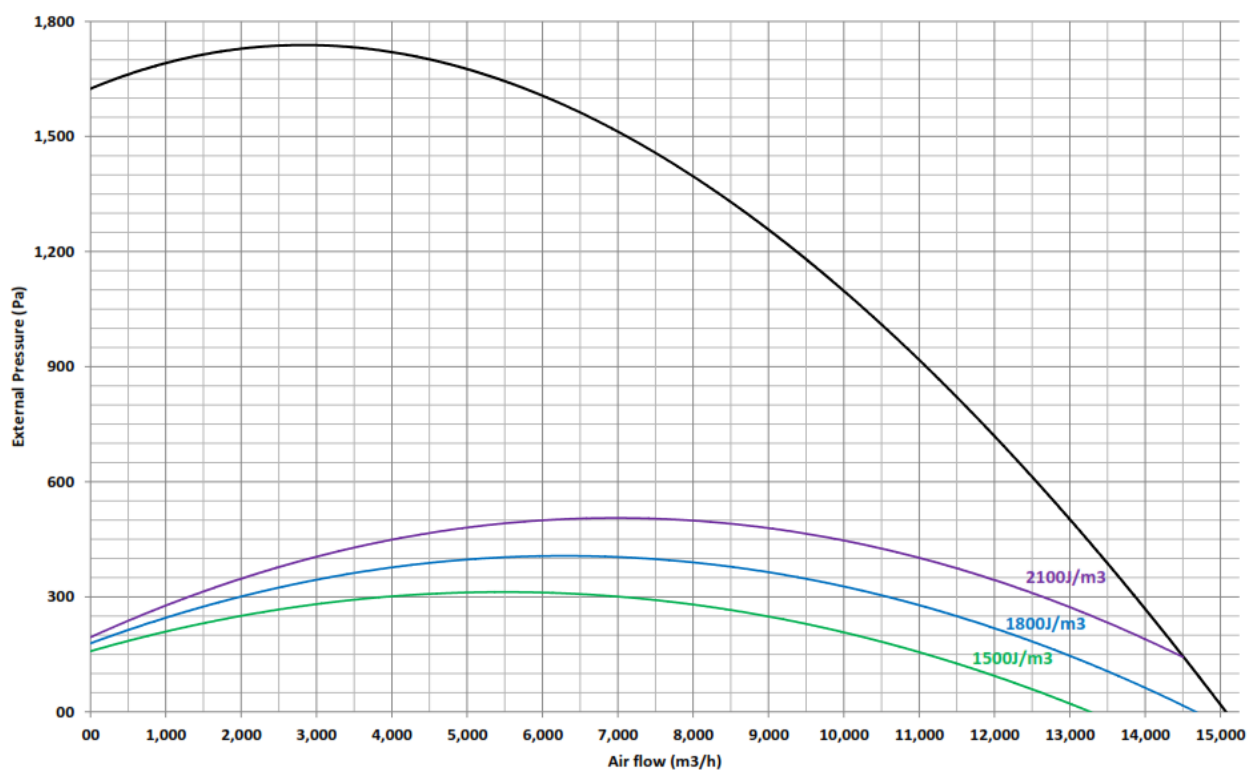
Ecodesign Requirements Table

		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	76,51 %		76,51 %	>= 73 %
G	Nominal Flow Rate	3,26 m³/s	3,26 m³/s		
H	Effective Electrical Power Input	1,85 kW x 2	1,88 kW x 2	7,46 kW	
I	SFPInt	459 W/(m³/s)	422 W/(m³/s)	881W/(m³/s)	<= 905
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	282 Pa		282 Pa	
	Internal Pressure Drop Δps, Int. Exhaust Air	292 Pa		292 Pa	
M	Additional Pressure Drop Δps, Add	95 Pa	95 Pa		
N	Static Fan Efficiency EC327/2011	55,82 %	55,97 %		
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)	62,8 dBA		62,8 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 2.250			
	Supply Airflow	11.750 m³/h		11.750 m³/h	
	Return Airflow	11.750 m³/h		11.750 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	2,55 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				
	Fluid Kind for Heating				
	Fluid Temp. In / Out (Heating)				
	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	1.268 kg		1.268 kg	

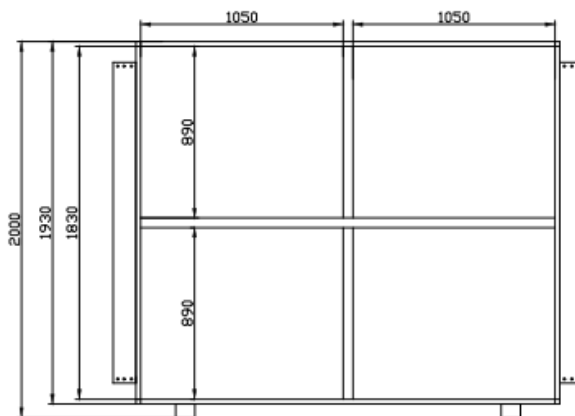
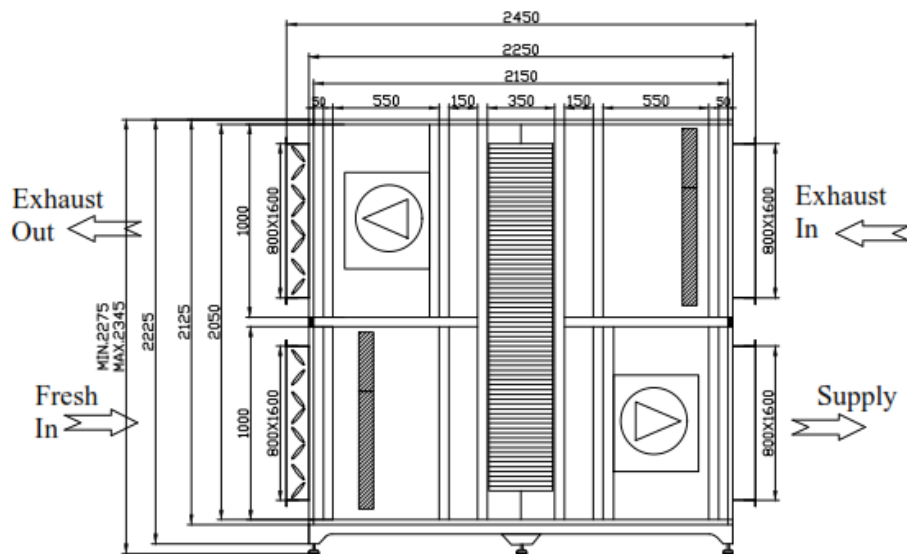
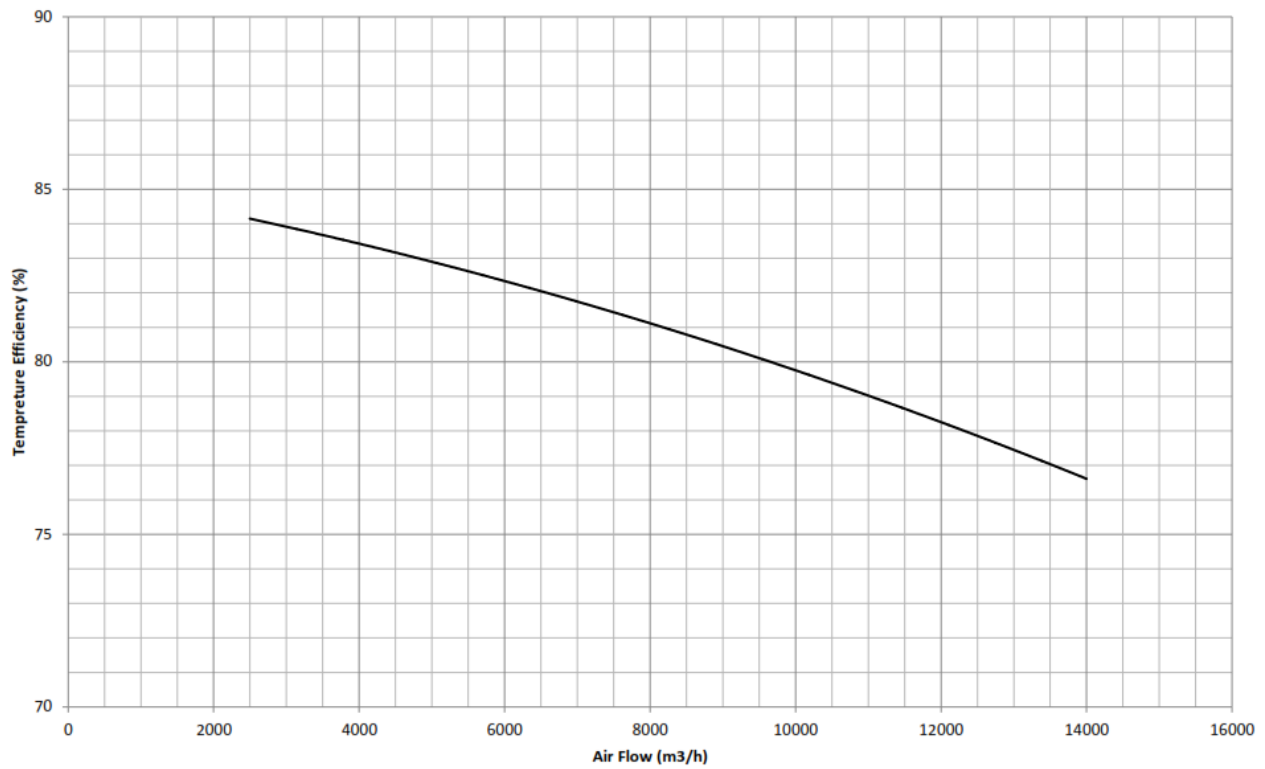
Accessories	Connection possible (Motherboard)	Included in the unit	Overall Total values
Co2 sensor	Yes	No	
Motion Sensor	Yes	No	
Heating Module	Yes	No	
Cooling Module	Yes	No	
Hood for supply air	Yes	No	
Hood for Exhaust air	Yes	No	
VAV	Yes	No	
Heating coil valve	Yes	No	
Cooling coil valve	Yes	No	
Electric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

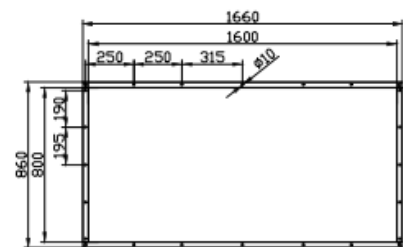


## Efficiency Jprime 25\_120



NOTE: ALL DIMENSIONS ARE MM

### Flange Dimensions







## ATTESTATION OF CONFORMITY UYGUNLUK ONAYI

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

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



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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**



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

**Mail:** info@bskhavalandirma.com

**Web :** www.bskhavalandirma.com

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

DECLARATION OF CONFORMITY



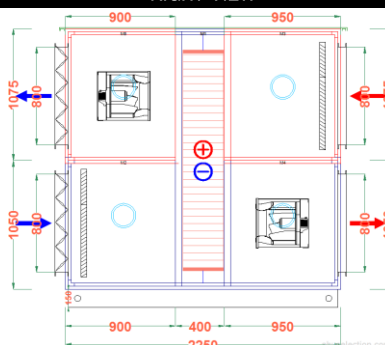


## TECHNICAL DATA

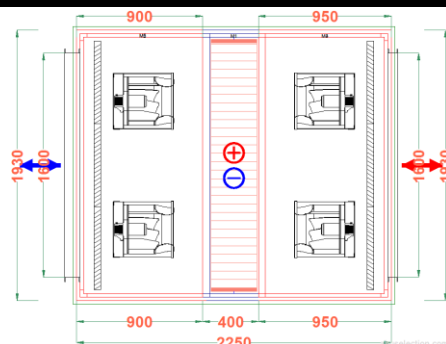
Date	21.08.2020	Rev. Date	14.09.2020
Project ID	4157	Tracking Number	4126kopya
Project Name	25secim		
AHU Name	J Prime_25_120 - (1 QTY)		
AHU Model	JUPITER 16 X 20		



## RIGHT VIEW



## TOP VIEW



## GENERAL SPECIFICATIONS

Supply Air Flow 11.750 m³/h	Return Air Flow 11.750 m³/h	Frame 25 steel profile	Total Dimensions mm W 1.930 x H 2.275 x L 2.250	
Supply Air Velocity 1,83 m/s	Return Air Velocity 1,78 m/s	Insulation Material 50 mm Rockwool 70 kg/m³	Total Weight 1.268 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 7,45 kW	
		Total Sensible Capacity	Motor Power(Vent/Asp) 2,8 kW x 2 / 2,8 kW x 2	
Specific Fan Power(SFP Total) 0,88 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	65,6	69,4	59,7	52,5	51,8	48,0	39,9	62,9	dBA
Air Outlet Induct Sound Power Level	78,1	90,3	84,4	83,1	80,4	80,2	80,2	89,1	dBA
Air Inlet Induct Sound Power Level	77,8	82,0	74,5	62,0	58,5	51,0	46,3	76,0	dBA
Return Air Outlet Induct Sound Power Level	78,0	90,2	84,4	83,1	80,4	80,2	80,2	89,1	dBA
Return Air Inlet Induct Sound Power Level	77,8	81,9	74,5	62,0	58,5	51,0	46,3	75,9	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

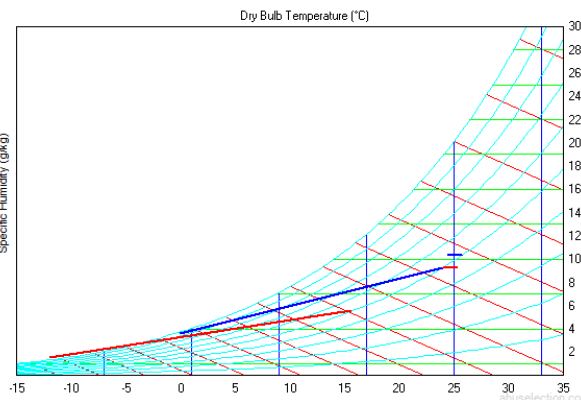
\*These results obtained according to Eurovent modelbox test.



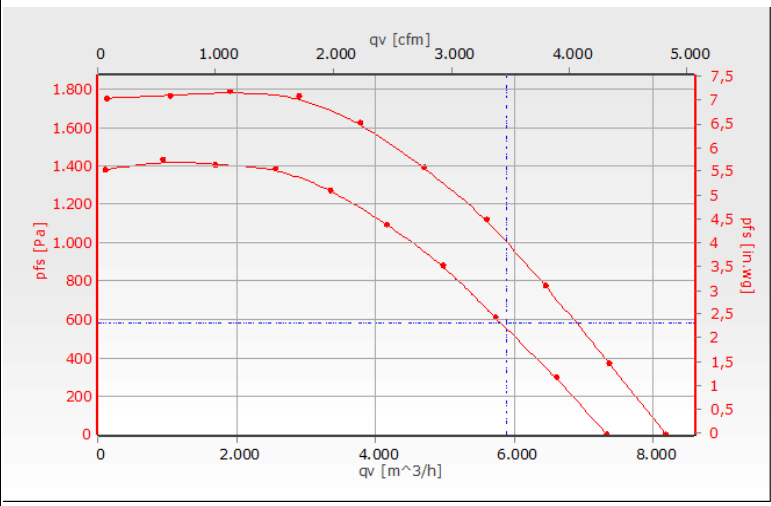


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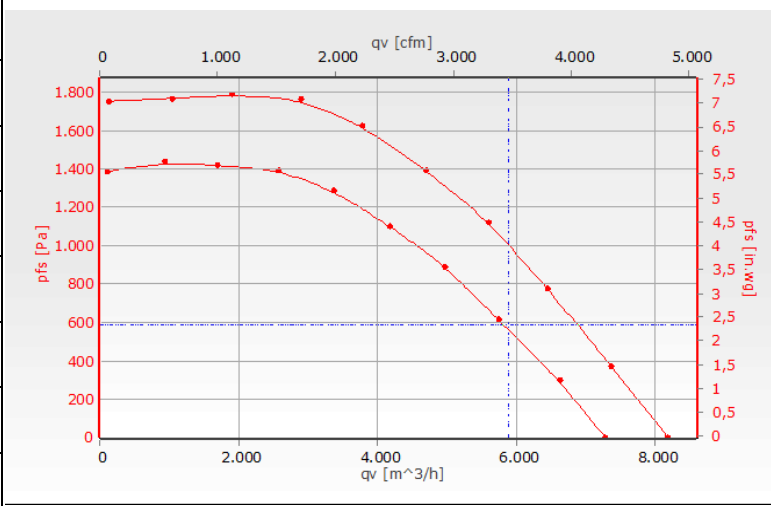
		TECHNICAL DATA				
		Date	21.08.2020	Rev. Date	14.09.2020	
		Project ID	4157	Tracking Number	4126kopya	
		Project Name	25secim			
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_120 - (1 QTY)			
BSK	2/6	AHU Model	JUPITER 16 X 20			
<b>FRESH AIR CONNECTION</b>						
Connection Type		Control Type		Pressure 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		
<b>SUPPLY CONNECTION</b>						
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		
<b>RETURN CONNECTION</b>						
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		
<b>EXHAUST CONNECTION</b>						
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		
<b>FILTER (M2)</b>						
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.						
<b>ACCESSORIES (M2)</b>						
Lightening, Observation Glass, Manometer Pressure Gauge						



		TECHNICAL DATA							
		Date	21.08.2020	Rev. Date	14.09.2020				
		Project ID	4157	Tracking Number	4126kopya				
		Project Name	25secim						
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime 25 120 - (1 QTY)						
BSK	3/6	AHU Model	JUPITER 16 X 20						
<b>ROTARY HEAT EXCHANGER (M1)</b>									
Model		Rpm	Quantity	Section Weight					
RRU_ECO-P-E18-1800/1800-1750		15	1	313 kg					
Air Inlet / Outlet	Fresh Air	Exhaust	Capacity	Winter	Summer				
	Airflow	11.750 m³/h		11.750 m³/h	150,88 kW	-5,23 kW			
	Air Vel.	2,41 m/s	2,75 m/s	Fresh	Exhau	Fresh	Exhau		
	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
	76,51	76,51	73,02	73,02					
	Winter		Summer						
	Fresh Air		Exhaust		Fresh Air		Exhaust		
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
	DT	-12,00 °	15,54 °C	24,00 °C	-0,01 °C	25,80 °C	24,49 °C	24,00 °C	25,32 °C
WT	-12,00 °	10,26 °C	17,07 °C	-0,29 °C	18,55 °C	18,11 °C	17,07 °C	17,52 °C	
RH	100,00	51,19 %	50,00 %	95,00 %	50,00 %	54,07 %	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									
<b>ACCESSORIES (M1)</b>									



		TECHNICAL DATA											
		Date	21.08.2020	Rev. Date	14.09.2020								
		Project ID	4157	Tracking Number	4126kopya								
		Project Name	25secim										
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_120 - (1 QTY)										
BSK	4/6	AHU Model	JUPITER 16 X 20										
<b>SUPPLY FAN (M4)</b>													
Airflow	5.875 m³/h x 2	Fan Model	EBM Papst-R3G355PI9301		Quantity	2	Section Weight	250 kg					
Internal Static Pressure	282 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	582 Pa												
Total Pressure	677 Pa	System Effect	14 Pa										
Total / Static Efficiency	64,89 / 55,82 %												
Shaft Power / Absorbed Power	1,7 / 1,85 kW x 2		Absorbed Pow.With VFD	1,85 kW x 2									
Fan Speed	2878 rpm (Max.3230 rpm)												
	Air Density	1,2000 kg/m³											
Specific Fan Power (SFP <sub>e</sub> int)	0,46 kW/(m³/s)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot		
Electrical Current	SPLm - Outlet Side	66,6	69,4	79,1	77,0	80,1	79,9	80,5	81,4	87,1	dBA		
2,67 A x 2 (Max.4,39 A x 2)	SPLa - Inlet Side	64,4	66,5	77,8	76,9	71,5	73,8	75,2	79,0	82,6	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													
<b>ACCESSORIES (M4)</b>													
Lightening, Observation Glass													
<b>FILTER (M3)</b>													
Airflow	11.750 m³/h	Condensation Pan					Spare Filter					Section Weight	222 kg
Filter Type	M6 Panel	Initial / Final / Design P.Drop	76 Pa / 176 Pa / 126 Pa	Air Velocity	2,09 m/s	Size/Quantity/EC*	592x592x48/3/E	Size/Quantity/EC*	592x287x48/3/E	Size/Quantity/EC*		Size/Quantity/EC*	
* Filter Energy Performance; preferably energy classification													
* Frame sealing applied.													
<b>ACCESSORIES (M3)</b>													
Lightening, Observation Glass, Manometer Pressure Gauge													

		TECHNICAL DATA										
		Date	21.08.2020	Rev. Date	14.09.2020							
		Project ID	4157	Tracking Number	4126kopya							
		Project Name	25secim									
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_120 - (1 QTY)									
BSK	5/6	AHU Model	JUPITER 16 X 20									
EXHAUST FAN (M5)												
Airflow		Fan Model			Quantity	Section Weight						
5.875 m³/h x 2		EBM Papst-R3G355PI9301			2	235 kg						
Internal Static Pressure		Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	Backup Fan	Backup Motor						
292 Pa		2,8 kW/3P/400V/50-60Hz										
External Static Pressure												
300 Pa												
Total Static Pressure												
592 Pa												
Total Pressure	System Effect											
687 Pa	15 Pa											
Total / Static Efficiency												
64,90 / 55,97 %												
Shaft Power / Absorbed Power		Absorbed Pow.With VFD										
1,73 / 1,88 kW x 2		1,88 kW x 2										
Fan Speed												
2886 rpm (Max.3230 rpm)												
		Air Density										
		1,2000 kg/m³										
Specific Fan Power (SFPe int)		Sound Power Level (dB)										
0,42 kW/(m³/s)		Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current		SPLm - Outlet Side	66,5	69,3	79,0	77,0	80,1	79,9	80,5	81,4	87,1	dBA
2,71 A x 2 (Max.4,39 A x 2)		SPLa - Inlet Side	64,2	66,5	77,7	76,9	71,5	73,8	75,1	79,0	82,6	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												