

TriaAir[®]

Ventilationsanlæg

Tekniske data

J Prime 25_200, ROTOR



Varenr.: QB20000300
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. QB20000300		
AHU Name	J Prime_25_200		
AHU Model	JUPITER 16 X 20		



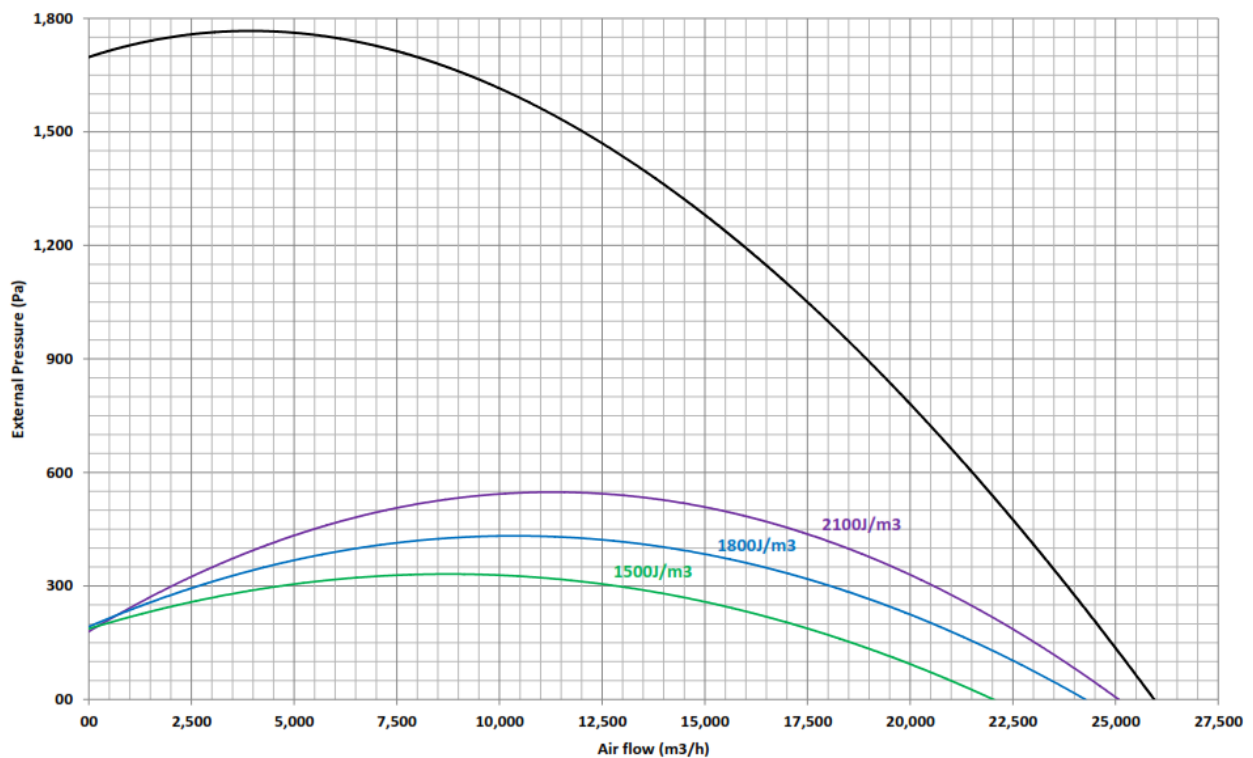
Ecodesign Requirements Table

		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	76,80 %		76,80 % >= 73 %
G	Nominal Flow Rate	5,28 m ³ /s	5,28 m ³ /s	
H	Effective Electrical Power Input	2,91 kW x 2	2,94 kW x 2	11,7 kW
I	SFPInt	438 W/(m ³ /s)	400 W/(m ³ /s)	838W/(m ³ /s) <= 914
J	Face Velocity	1,79 m/s	1,75 m/s	
K	Nominal External Drop Δps, Ext	300 Pa		300 Pa
L	Internal Pressure Drop Δps, Int Supply Air	270 Pa		270 Pa
	Internal Pressure Drop Δps, Int. Exhaust Air	279 Pa		279 Pa
M	Additional Pressure Drop Δps, Add	87 Pa	87 Pa	
N	Static Fan Efficiency EC327/2011	56,10 %	56,40 %	
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)	68,1 dBA		68,1 dBA
S	Internet Address Of Instructions	www.Termicplus.dk		
	Total Dimension mm	W 2.450 x H 2.835 x L 2.300		
	Supply Airflow	19.000 m ³ /h		19.000 m ³ /h
	Return Airflow	19.000 m ³ /h		19.000 m ³ /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	3,20 m/s		3,20 m/s
	SUPPLY CONNECTION Air Velocity	3,20 m/s		3,20 m/s
	RETURN CONNECTION Air Velocity	3,20 m/s		3,20 m/s
	EXHAUST CONNECTION Air Velocity	3,20 m/s		3,20 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	1.825 kg		1.825 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	

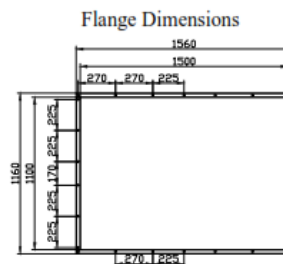
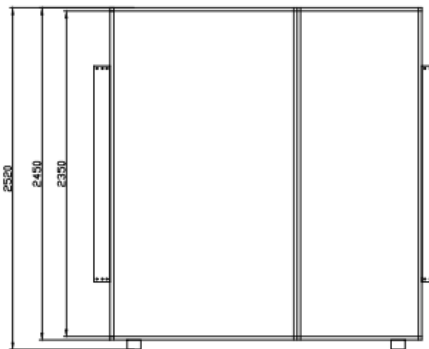
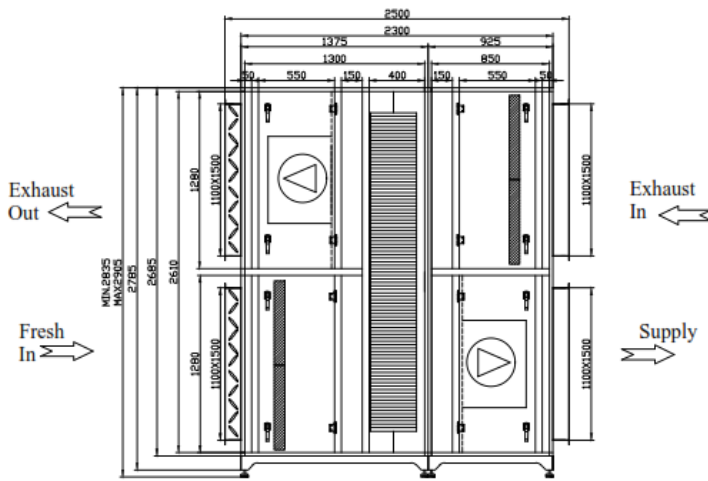
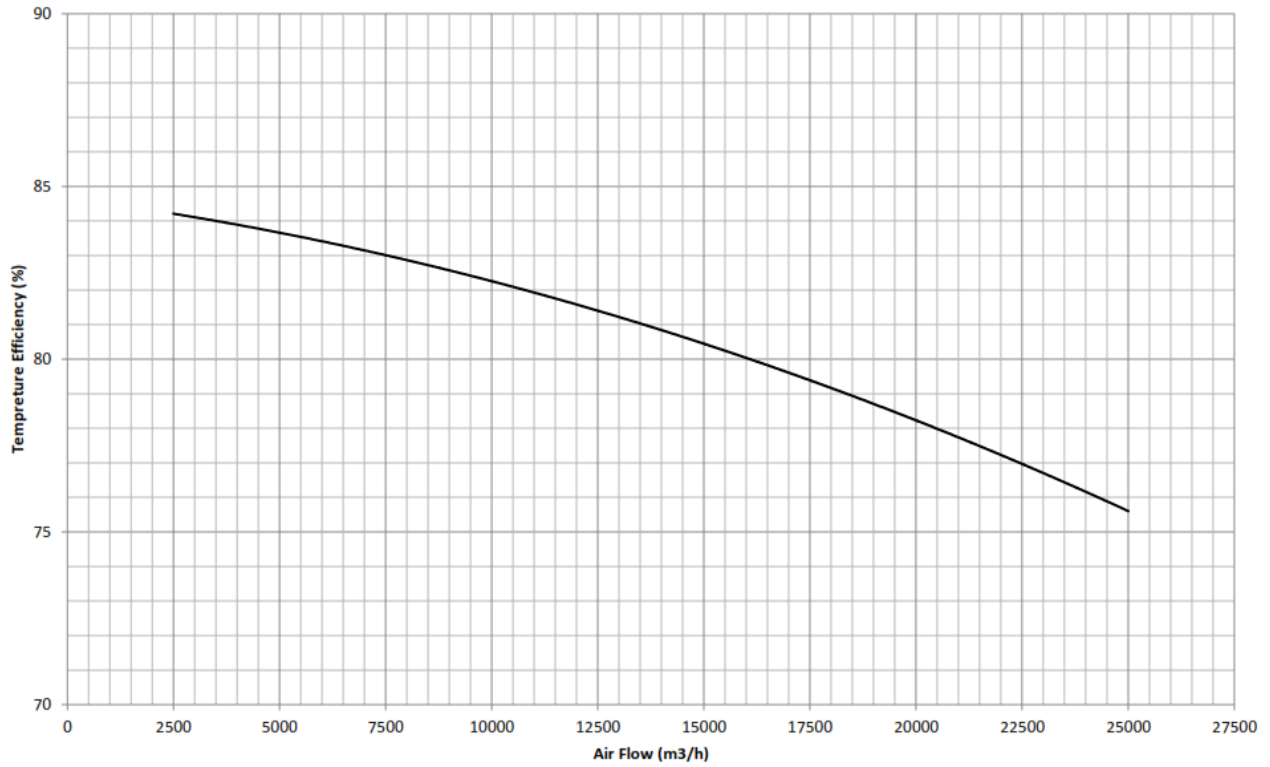
Air Flow

J Prime 25_200



Efficiency

Jprime 25_200



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

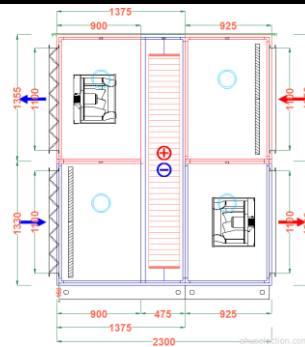
Web : www.bskhavalandirma.com

DECLARATION OF CONFORMITY

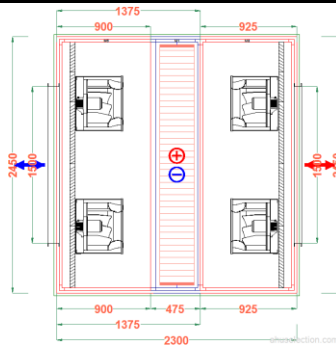
	TECHNICAL DATA			
	Date	21.08.2020	Rev. Date	14.09.2020
	Project ID	4157	Tracking Number	4126kopya
	Project Name	25secim		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name J Prime_25_200 - (1 QTY)		
BSK	1/6	AHU Model JUPITER 16 X 20		



RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Supply Air Flow 19.000 m³/h	Return Air Flow 19.000 m³/h	Frame 25 steel profile	Total Dimensions mm W 2.450 x H 2.835 x L 2.300	
Supply Air Velocity 1,79 m/s	Return Air Velocity 1,75 m/s	Insulation Material 50 mm Rockwool 70 kg/m³	Total Weight 1.825 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 11,72 kW	
		Total Sensible Capacity	Motor Power(Vent/Asp) 4,5 kW x 2 / 4,5 kW x 2	
Specific Fan Power(SFP Total) 0,84 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	79,1	71,6	66,1	56,8	55,7	48,9	38,7	68,1	dB(A)
Air Outlet Induct Sound Power Level	90,3	92,3	90,2	87,0	83,9	80,9	79,0	92,2	dB(A)
Air Inlet Induct Sound Power Level	95,2	87,1	77,4	66,0	60,7	53,8	46,7	82,7	dB(A)
Return Air Outlet Induct Sound Power Level	90,3	92,4	90,2	87,0	84,0	80,9	79,1	92,2	dB(A)
Return Air Inlet Induct Sound Power Level	95,2	87,1	77,4	66,0	60,7	53,7	46,7	82,7	dB(A)

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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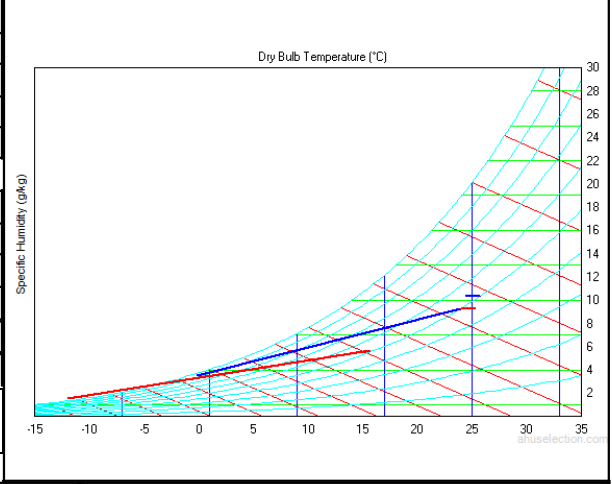
		TECHNICAL DATA				
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		Project ID	4157	Tracking Number	4126kopya	
		Project Name	25secim			
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_200 - (1 QTY)			
BSK	2/6	AHU Model	JUPITER 16 X 20			
FRESH AIR CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (NM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
19.000 m³/h		W 1.500 mm x H 1.100 mm		3,20 m/s		
SUPPLY CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
19.000 m³/h		W 1.500 mm x H 1.100 mm		3,20 m/s		
RETURN CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
19.000 m³/h		W 1.500 mm x H 1.100 mm		3,20 m/s		
EXHAUST CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (NM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
19.000 m³/h		W 1.500 mm x H 1.100 mm		3,20 m/s		
FILTER (M2)						
Airflow	Condensation Pan				Spare Filter	Section Weight
19.000 m³/h						331 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	81 Pa / 181 Pa / 131 Pa	1,9 m/s	592x592x48/6/E	592x287x48/4/E		
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M2)						
Lightening, Observation Glass, Manometer Pressure Gauge						

	TECHNICAL DATA				
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	Project Name	25secim			
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_200 - (1 QTY)		
BSK	3/6	AHU Model	JUPITER 16 X 20		

ROTARY HEAT EXCHANGER (M1)

Model	Rpm	Quantity	Section Weight
RRU_ECO-P-E18-2300/2300-2250	15	1	496 kg

	Fresh Air	Exhaust	Capacity	Winter	Summer				
Airflow	19.000 m³/h	19.000 m³/h		245,01 kW	-8,50 kW				
Air Vel.	2,36 m/s	2,69 m/s	P.D	Fresh	Exhau	Fresh	Exhau		
	Winter	Summer		125 Pa	148 Pa	158 Pa	148 Pa		
	Effic.	Balan.(*)	1,2kg/m³	153 Pa	144 Pa	153 Pa	144 Pa		
	76,80	76,80		73,39	73,39				
Air Inlet / Outlet	Winter				Summer				
	Fresh Air		Exhaust		Fresh Air		Exhaust		
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
	DT	-12,00 °	15,65 °C	24,00 °C	-0,11 °C	25,80 °C	24,48 °C	24,00 °C	25,32 °C
	WT	-12,00 °	10,33 °C	17,07 °C	-0,39 °C	18,55 °C	18,11 °C	17,07 °C	17,52 °C
	RH	100,00	51,07 %	50,00 %	95,00 %	50,00 %	54,09 %	50,00 %	46,20 %

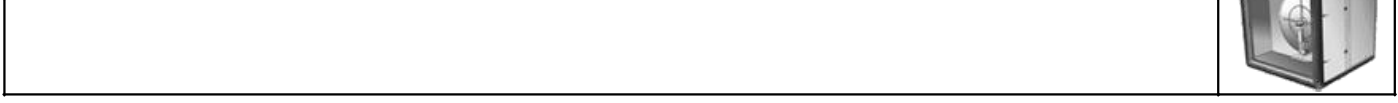


Condensation Pan	OACF (*)	EATR (%) (*)
	0,00	0,00

<input type="checkbox"/> Frequency Inverter	Size mm	Bypass Damper
	(2.300 x 2.300 x 330) - 2.250	



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

ACCESSORIES (M1)

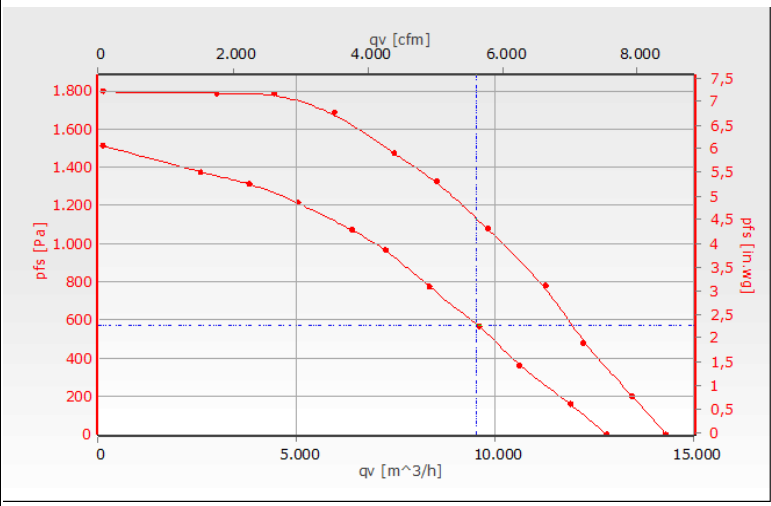


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AHUSEL V.	2.2.3.17 15.08.2020	AHU Name		J Prime_25_200 - (1 QTY)	
BSK	4/6	AHU Model		JUPITER 16 X 20	

SUPPLY FAN (M4)

Airflow	9.500 m ³ /h x 2	Fan Model	EBM Papst-R3G450PA3103			Quantity	2	Section Weight	364 kg			
Internal Static Pressure	270 Pa	Motor P./Pha./Volt./Freq.	4,5 kW/3P/400V/50-60Hz			Isolator		Isolator Count				
External Static Pressure	300 Pa				Backup Fan		Backup Motor					
Total Static Pressure	570 Pa											
Total Pressure	657 Pa											
System Effect	14 Pa											
Total / Static Efficiency	64,70 / 56,10 %											
Shaft Power / Absorbed Power	2,68 / 2,91 kW x 2											
Fan Speed	2099 rpm (Max.2480 rpm)	Absorbed Pow.With VFD	2,91 kW x 2									
	Air Density	1,2000 kg/m ³										
Specific Fan Power (SFP _e int)	0,44 kW/(m ³ /s)	Sound Power Level (dB)										
Electrical Current	4,21 A x 2 (Max.7,06 A x 2)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
		SPLm - Outlet Side	74,7	80,8	80,9	82,5	84,0	83,5	81,3	80,2	89,6	dBA
		SPLa - Inlet Side	71,5	79,6	82,1	79,6	75,6	76,4	79,0	79,7	85,2	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	19.000 m ³ /h	Condensation Pan				Spare Filter		Section Weight	324 kg
Filter Type	M6 Panel	Initial / Final / Design P.Drop	66 Pa / 166 Pa / 116 Pa	Air Velocity	1,9 m/s	Size/Quantity/EC*	592x592x48/6/E	Size/Quantity/EC*	592x287x48/4/E
		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*	


* Filter Energy Performance; preferably energy classification
 * Frame sealing applied.

ACCESSORIES (M3)

Lightening, Observation Glass, Manometer Pressure Gauge	
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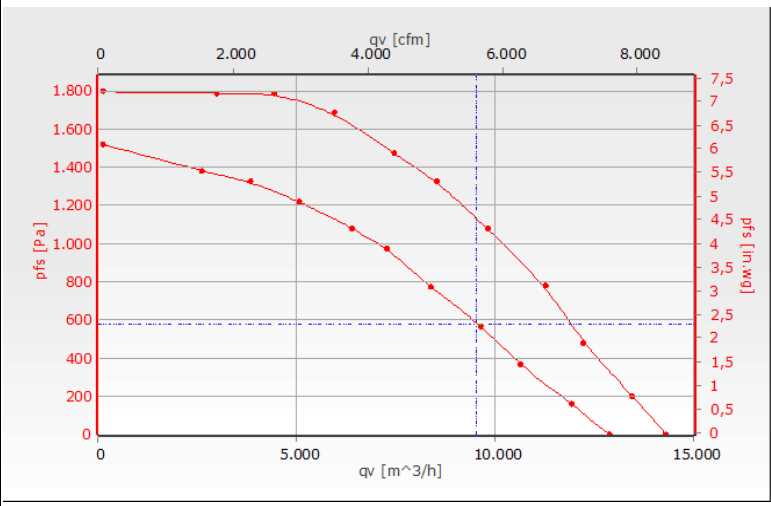
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BSK	5/6	AHU Model	JUPITER 16 X 20	



EXHAUST FAN (M5)

Airflow	9.500 m ³ /h x 2	Fan Model	EBM Papst-R3G450PA3103		Quantity	2	Section Weight	311 kg				
Internal Static Pressure	279 Pa	Motor P./Pha./Volt./Freq.	4,5 kW/3P/400V/50-60Hz		Isolator		Isolator Count					
External Static Pressure	300 Pa				Backup Fan		Backup Motor					
Total Static Pressure	579 Pa											
Total Pressure	666 Pa											
System Effect	15 Pa											
Total / Static Efficiency	64,91 / 56,40 %											
Shaft Power / Absorbed Power	2,71 / 2,94 kW x 2	Absorbed Pow.With VFD	2,94 kW x 2									
Fan Speed	2105 rpm (Max.2480 rpm)											
	Air Density	1,2000 kg/m ³										
Specific Fan Power (SFPe int)	0,40 kW/(m ³ /s)	Sound Power Level (dB)										
		Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current	4,25 A x 2 (Max.7,06 A x 2)	SPLm - Outlet Side	74,8	80,8	81,0	82,5	84,0	83,6	81,3	80,3	89,6	dBA
		SPLa - Inlet Side	71,5	79,6	82,1	79,6	75,6	76,4	78,9	79,7	85,2	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	
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