

TriaAir[®]

Ventilationsanlæg

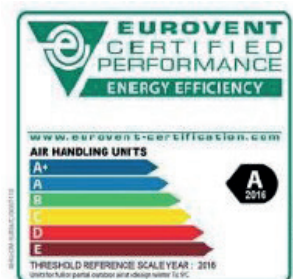
Tekniske data

J Prime 25_145, 2RH og MODSTRØM



Varenr.: QH15000300
Med 2RH og MODSTRØM
(2RH varmefflade maks. 128,80 kW)

Standardfarve: RAL 9002 glans 30 (hvid)





TECHNICAL DATA			
Date	10.07.2020	Rev. Date	21.10.2020
Project ID	4261	Tracking Number	
Project Name	Item no. QH15000300		
AHU Name	J Prime_25_145_CF_2RH		
AHU Model	JUPITER 16 X 20		

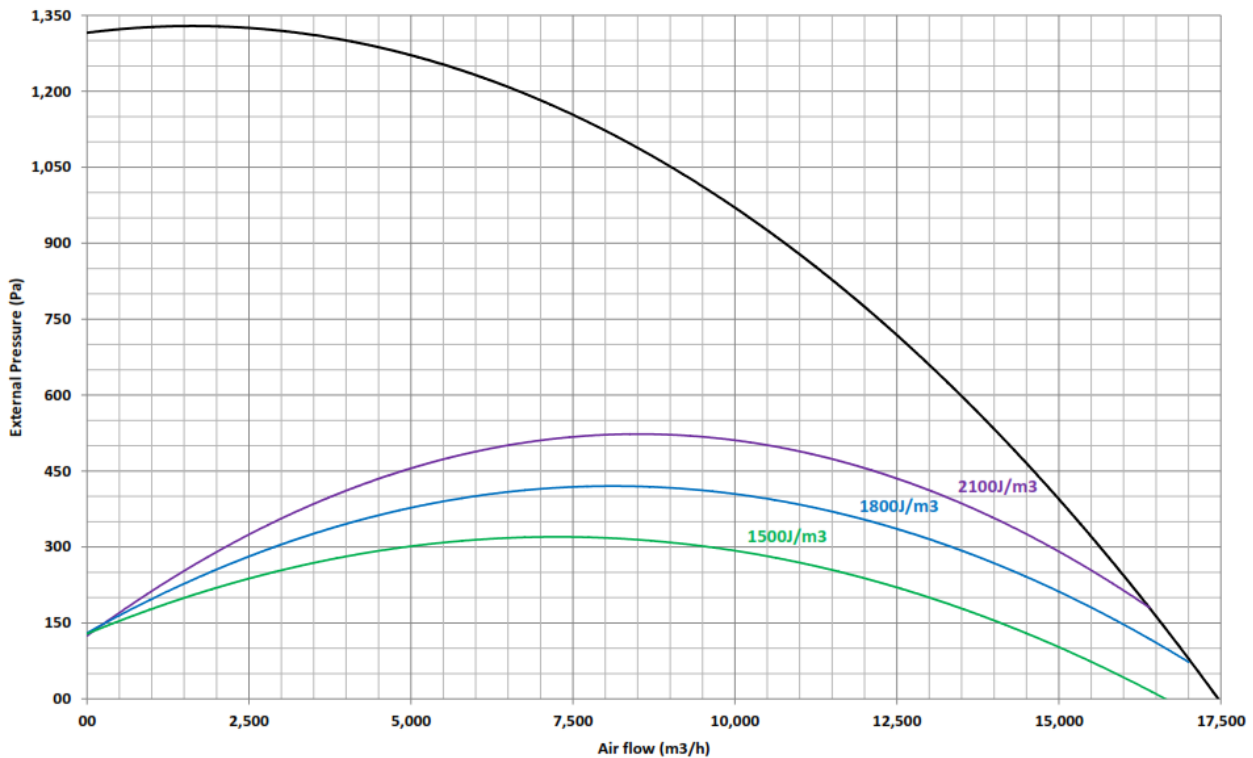


Ecodesign Requirements Table

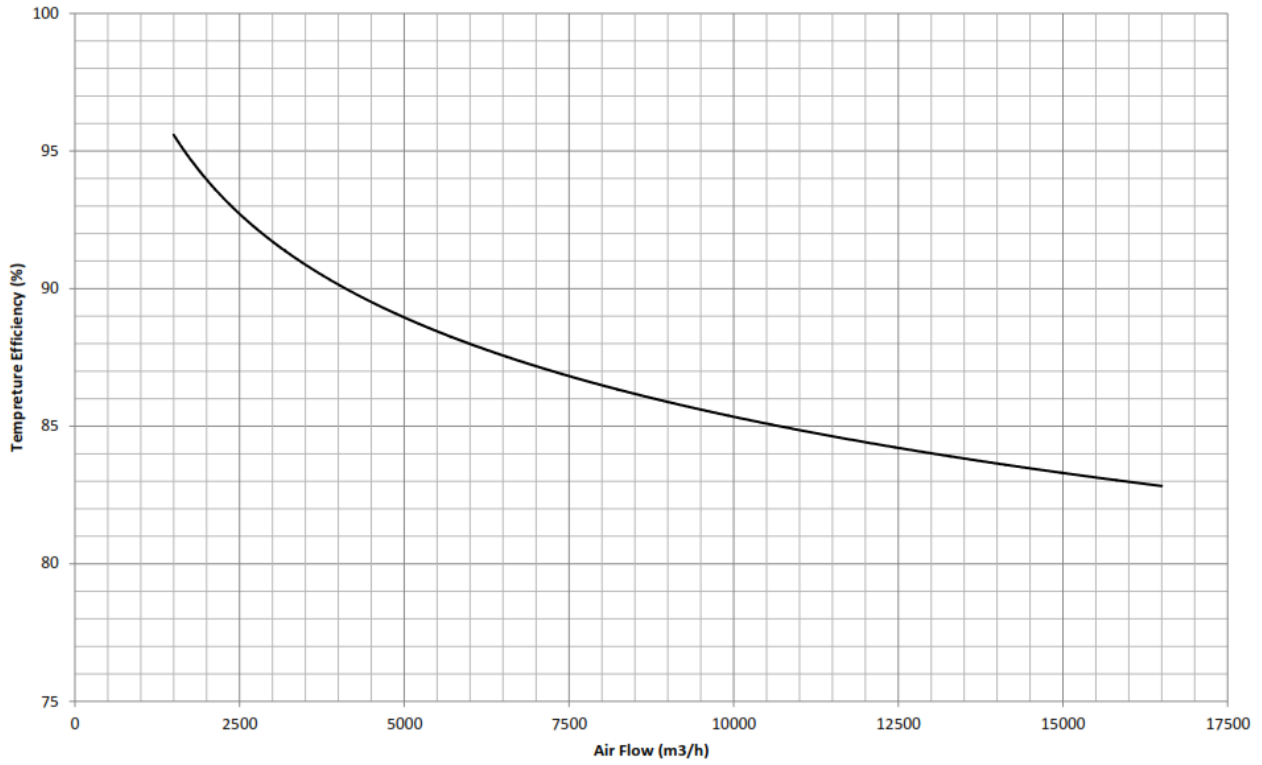
	Value			2018
Product	JUPITER 25			
Erp	2018			
A Manufacturer	BSK Havalandırma Ekipmanları A.Ş.			
B Model Identifier	JUPITER 16 X 20			
C ErP Code	NRVU - BVU			
D Type Of Drive	Variable Speed Drive (VSD)In	Variable Speed Drive (VSD)Out		Required
E Type Of HRS	Counterflow			
HRS Damper	Exists		Exists	Required
F Thermal Efficiency of HRS	84,00 %		84,00 %	>= 73 %
G Nominal Flow Rate	4,01 m³/s	4,01 m³/s		
H Effective Electrical Power Input	2,32 kW x 2	2,34 kW x 2	9,32 kw	
I SFPInt	477 W/(m³/s)	450 W/(m³/s)	927W/(m³/s)	<= 1130
J Face Velocity	1,90 m/s	1,85 m/s		
K Nominal External Drop Δps, Ext	300 Pa		300 Pa	
L Internal Pressure Drop Δps, Int Supply Air	332 Pa		332 Pa	
Internal Pressure Drop Δps, Int Exhaust Air	341 Pa		341 Pa	
M Additional Pressure Drop Δps, Add	89 Pa	89 Pa		
N Static Fan Efficiency EC327/2011	59,46 %	59,64 %		
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)	62,4 dBA		62,4 dBA	
S Internet Address Of Instructions	www.Termicplus.dk			
Total Dimension mm	W 2.335 x H 2.305 x L 4.510			
Supply Airflow	14.450 m³/h		14.450 m³/h	
Return Airflow	14.450 m³/h		14.450 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	2,94 m/s		2,94 m/s	
SUPPLY CONNECTION Air Velocity	2,94 m/s		2,94 m/s	
RETURN CONNECTION Air Velocity	2,94 m/s		2,94 m/s	
EXHAUST CONNECTION Air Velocity	2,94 m/s		2,94 m/s	
Total Heating Capacity	76,34 kW		76,34 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	2.570 kg		2.570 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	

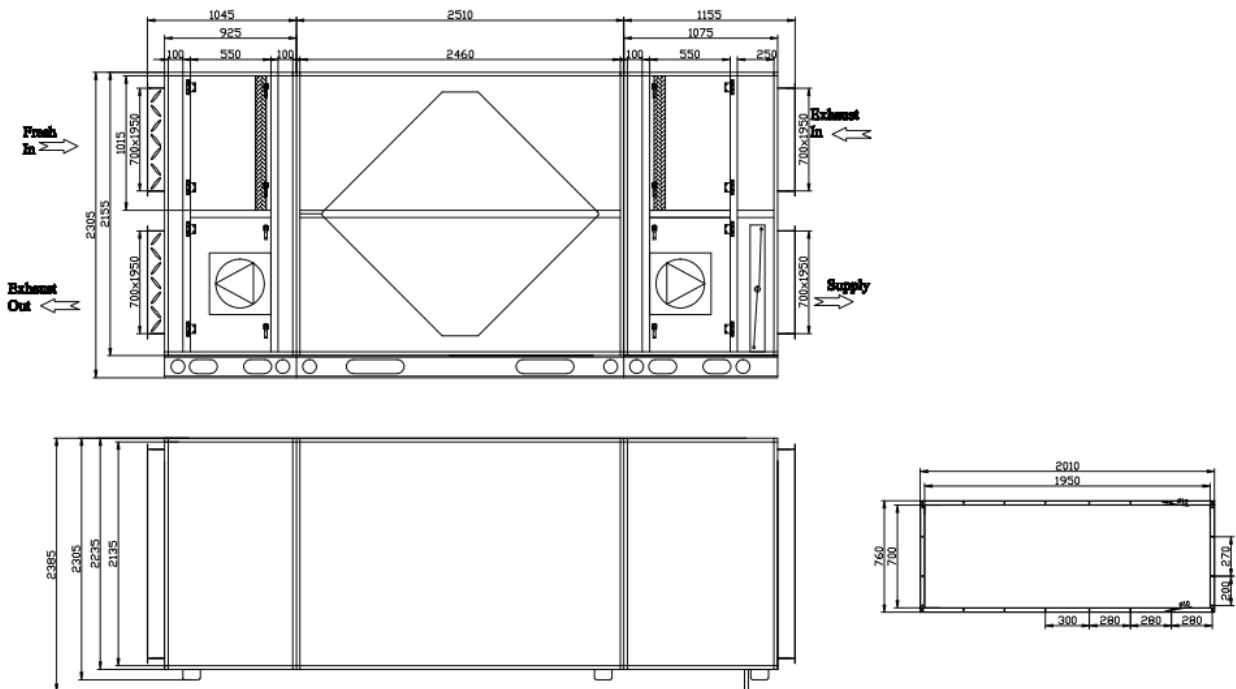
Air Flow



Efficiency



145CF-RH





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



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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

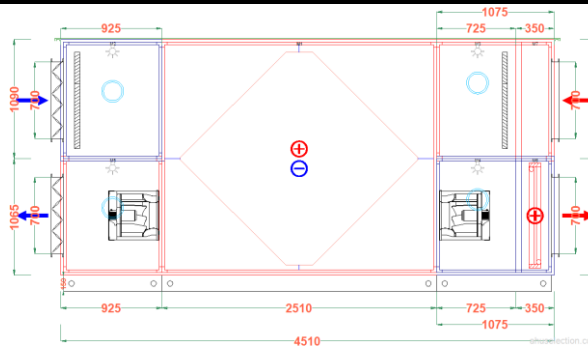
Web : www.bskhavalandirma.com

DECLARATION OF CONFORMITY

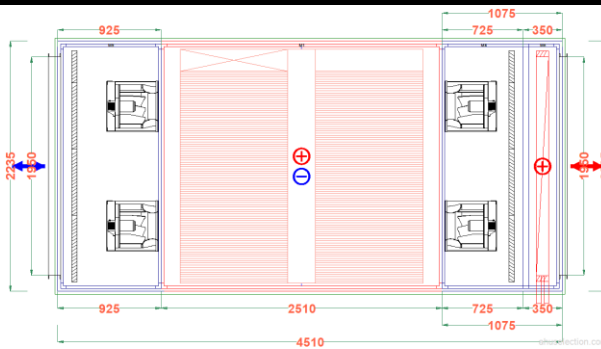
		TECHNICAL DATA	
		Date	10.07.2020
Project ID		4261	Tracking Number
Project Name		J Prime_CounterFlow_Onaylı_Düzelme	
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	
BSK	1/6	AHU Model	
		JUPITER 16 X 20	



RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Air Flow	Return Air Flow	Frame	Total Dimensions mm	
14.450 m³/h	14.450 m³/h	25 steel profile	W 2.335 x H 2.305 x L 4.510	
Air Velocity	Return Air Velocity	Insulation Material	Total Weight	
1,9 m/s	1,85 m/s	50 mm Rockwool 70 kg/m³	2.570 kg	
Coil Air Velocity	Air Density	Outside Sheet Material	Base Height	Roof (Outside)
2,31 m/s	1,3478 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	9,33 kW	
Total Heating Capacity		Total Sensible Capacity	Motor Power	
76,34 kW			2,5 kW x 2 / 2,5 kW x 2	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	Real Unit CAL Class -400 Pa	Real Unit CAL Class +400 Pa
0,93 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	70,7	65,9	60,1	52,2	52,8	47,1	35,9	62,4	dBA
Air Outlet Induct Sound Power Level	80,4	84,8	82,6	80,8	80,1	78,3	75,5	86,1	dBA
Air Inlet Induct Sound Power Level	89,5	81,4	73,3	65,1	60,4	53,2	44,6	77,5	dBA
Return Air Outlet Induct Sound Power Level	82,7	87,1	84,7	82,8	81,3	79,3	76,6	88,3	dBA
Return Air Inlet Induct Sound Power Level	88,3	80,4	72,2	64,0	59,7	52,4	43,9	76,8	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.

	TECHNICAL DATA			
	Date	10.07.2020	Rev. Date	21.10.2020
	Project ID	4261	Tracking Number	
	Project Name	J Prime_CounterFlow_Onaylı_Düzelme		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_145_CF_2RH - (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
Air Flow	Dimensions	Air Velocity
14.450 m³/h	W 1.950 mm x H 700 mm	2,94 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		0 Pa
Air Flow	Dimensions	Air Velocity
14.450 m³/h	W 1.950 mm x H 700 mm	2,94 m/s

RETURN CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		0 Pa
Air Flow	Dimensions	Air Velocity
14.450 m³/h	W 1.950 mm x H 700 mm	2,94 m/s

EXHAUST CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Automatic (NM230ASR)	0 Pa
Air Flow	Dimensions	Air Velocity
14.450 m³/h	W 1.950 mm x H 700 mm	2,94 m/s

EMPTY SECTION (M7)

Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
14.450 m³/h			0 Pa	130 kg

ACCESSORIES (M7)



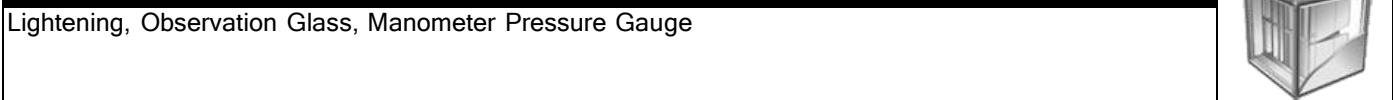
FILTER (M3)


Air Flow	Condensation Pan	Hygienic	Spare Filter	Section Weight
14.450 m³/h				161 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*
M6 Panel	86 Pa / 186 Pa / 86 Pa	2,32 m/s	592x592x48/3/E	592x287x48/4/E

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M3)



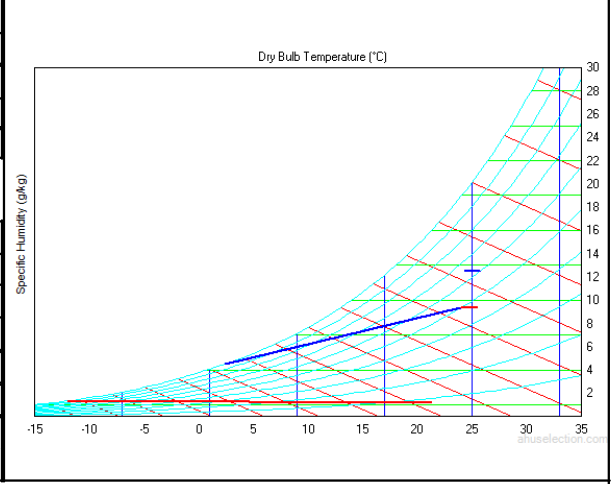
	TECHNICAL DATA			
	Date	10.07.2020	Rev. Date	21.10.2020
	Project ID	4261	Tracking Number	
	Project Name	J Prime CounterFlow Onaylı Düzeltme		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_145_CF_2RH - (1 QTY)	
BSK	3/6	AHU Model	JUPITER 16 X 20	



COUNTERFLOW HEAT EXCHANGER (M1)

Model	Maximum Internal Leakage Rate	Quantity	Section Weight
Klingenburg-GS Kombi 110 / 1891 - BY199	1 %	1	1.294 kg

	Fresh Air	Exhaust	Capacity	Winter	Summer		
Air Flow	14.450 m³/h	14.450 m³/h		146,83 kW	-7,32 kW		
Air Vel.	1,46 m/s	1,67 m/s		Fresh	Exhaus	Fresh	Exhaus
	Winter		Summer		P.D		
	Effic.	Balan.(*)	Effic.	Balan.(*)	1.2kg/m³	220 Pa	220 Pa
Wet	92,55	92,55	82,97	82,97			
Dry	84,00	84,00	82,97	82,97			



Air Inlet / Outlet	Winter				Summer			
	Fresh Air		Exhaust		Fresh Air		Exhaust	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
	DT	-12,00 °	21,32 °C	24,00 °C	2,40 °C	25,80 °C	24,31 °C	24,00 °C
WT	-12,29 °	7,94 °C	17,07 °C	2,40 °C	20,16 °C	19,70 °C	17,07 °C	17,58 °C
RH	90,00 %	7,73 %	50,03 %	100,00	60,00 %	65,58 %	50,03 %	45,75 %

Condensation Pan	Size mm	Bypass Damper
	2.170-1.344-246-21-1.891-1.9	W 199 mm x H 1.344 mm

* Efficiency at balanced flow

ACCESSORIES (M1)



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EXHAUST FAN (M5)

Air Flow	Fan Model	Quantity	Section Weight
7.225 m³/h x 2	EBM Papst-R3G400PI9201	2	325 kg

Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	Backup Fan	Backup Motor
341 Pa	2,5 kW/3P/400V/50-60Hz				

External Static Pressure
300 Pa

Total Static Pressure
641 Pa

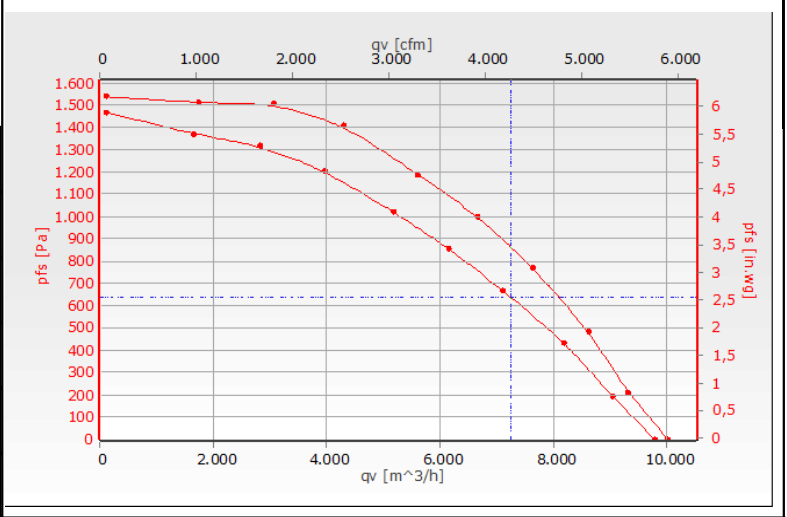
Total Pressure	System Effect
730 Pa	10 Pa

Total / Static Efficiency
67,96 / 59,64 %

Shaft Power / Absorbed Power	Absorbed Pow.With VFD
2,16 / 2,34 kW x 2	2,34 kW x 2

Fan Speed
2307 rpm (Max.2450 rpm)

Air Density
1,3478 kg/m³




Specific Fan Power (SFPe int)	Hz	Sound Power Level (dB)								
		63	125	250	500	1000	2000	4000	8000	LwA-tot
Electrical Current	SPLm - Outlet Side	64,0	73,7	76,2	77,3	79,8	80,8	79,6	77,6	86,5 dBA
3,38 A x 2 (Max.3,92 A x 2)	SPLa - Inlet Side	61,5	73,4	75,4	73,8	72,6	75,2	77,0	75,3	82,3 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

		TECHNICAL DATA			
		Date	10.07.2020	Rev. Date	21.10.2020
		Project ID	4261	Tracking Number	
		Project Name	J Prime_CounterFlow_Onaylı_Düzeltilme		
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_145_CF_2RH - (1 QTY)		
BSK	4/6	AHU Model	JUPITER 16 X 20		



ACCESSORIES (M5)				
Lightening, Observation Glass				

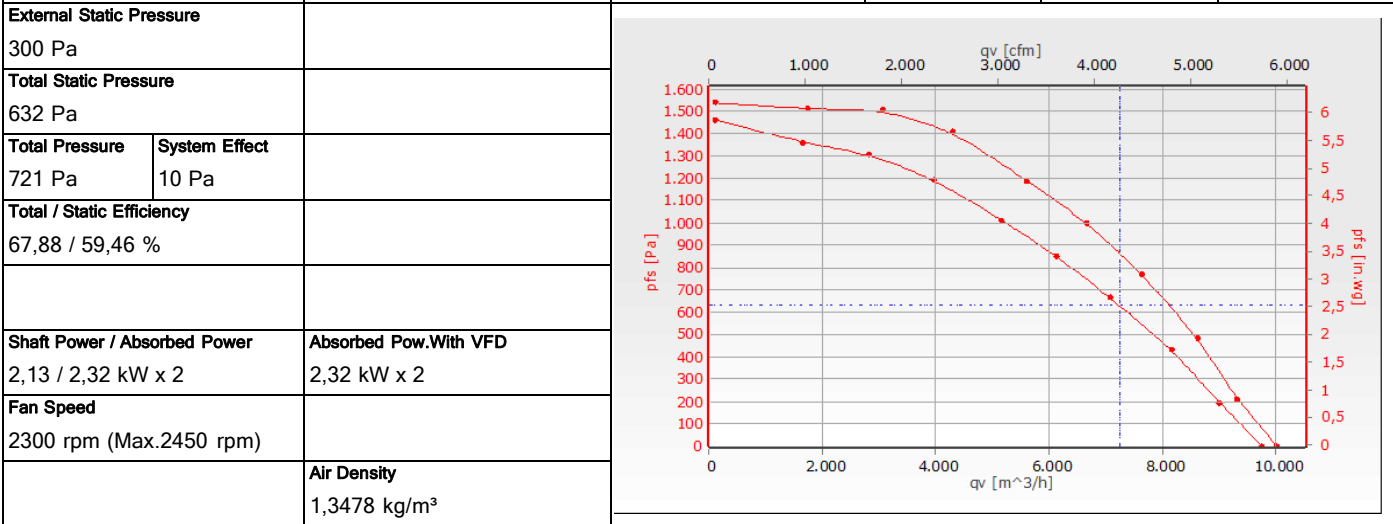
FILTER (M2)						
Air Flow	Condensation Pan		Hygienic	Spare Filter	Section Weight	
14.450 m³/h					287 kg	
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	104 Pa / 204 Pa / 104 Pa	2,32 m/s	592x592x48/3/E	592x287x48/4/E		

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

ACCESSORIES (M2)				
Lightening, Observation Glass, Manometer Pressure Gauge				



SUPPLY FAN (M4)				
Air Flow	Fan Model		Quantity	Section Weight
7.225 m³/h x 2	EBM Papst-R3G400PI9201		2	185 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	Backup Fan
332 Pa	2,5 kW/3P/400V/50-60Hz			Backup Motor


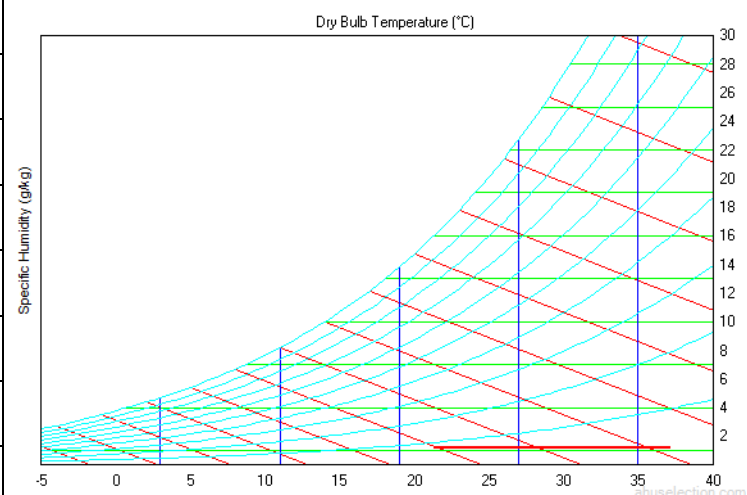


Specific Fan Power (SFPe int)	Sound Power Level (dB)										
0,48 kW/(m³/s)	Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current	SPLm - Outlet Side	64,1	73,6	76,1	77,3	79,8	80,6	79,6	77,5	86,4	dBA
3,35 A x 2 (Max.3,92 A x 2)	SPLa - Inlet Side	61,6	73,3	75,3	73,8	72,7	75,0	77,1	75,3	82,2	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				



		TECHNICAL DATA					
		Date	10.07.2020	Rev. Date	21.10.2020		
		Project ID	4261	Tracking Number			
Project Name		J Prime_CounterFlow_Onaylı_Düzelme					
AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_145_CF_2RH - (1 QTY)				
BSK	5/6	AHU Model	JUPITER 16 X 20				
COIL (Heating) (M6)							
Air Flow	Capacity / Sensible	Required Cap.	Face Vel.	Quantity	Tube Mat.	Fin Mat.	Section Weight
14.450 m³/h	76,34/76,34 kW		2,31 m/s	1	Copper	Aluminium	187 kg
Coil Code			Tube Thickness	Fin Thickness	Mixing Ratio		
32 x 28 12 28T 2R 1955A 3P 14NC			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
				1.955 x 889 x 110		Steel	Galvanized Steel
Fluid Kind	Fluid In / Out						
WATER	70/50 °C						
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature						
21,32 °C	37,12 °C						
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature						
7,94 °C	14,62 °C						
Air Inlet Relative Humidity	Air Outlet Relative Humidity						
7,73 %	3,10 %						
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow						
24,52 - 40,45 kJ/kg	3.283 kg/h / 3.357 dm³/h						
Air Press.Drop	Fluid Press.Drop / Fluid Velocity						
30 Pa	7,31 kPa / 0,61 m/s						
Coil Surface Area	Tube Inner Volume						
59,60 m²	14,36 L						
Manifold / Conn.QTY	Conn.Direction						
1 / 1	Right						
Connection Sizes			Air Condensation	Hygienic	Blygold		
42,2 / 42,2 mm (1-1/4" DN32 / 1-1/4" DN32)			0,00 l/h				
Bypass Damper							
ACCESSORIES (M6)							