

TriaAir[®]

Ventilationsanlæg

Tekniske data

J Prime 25_15, 1RH og ROTOR



Varenr.: QA01500150
Med 1RH og ROTOR
(1RH varmefflade maks. 57,63 kW)

Standardfarve: RAL 9002 glans 30 (hvid)



TECHNICAL DATA			
Date	21.08.2020	Rev. Date	21.09.2020
Project ID	4157	Tracking Number	4126
Project Name	Item no. QA01500150		
AHU Name	J Prime_25_15_1RH		
AHU Model	JUPITER 8 X 8		



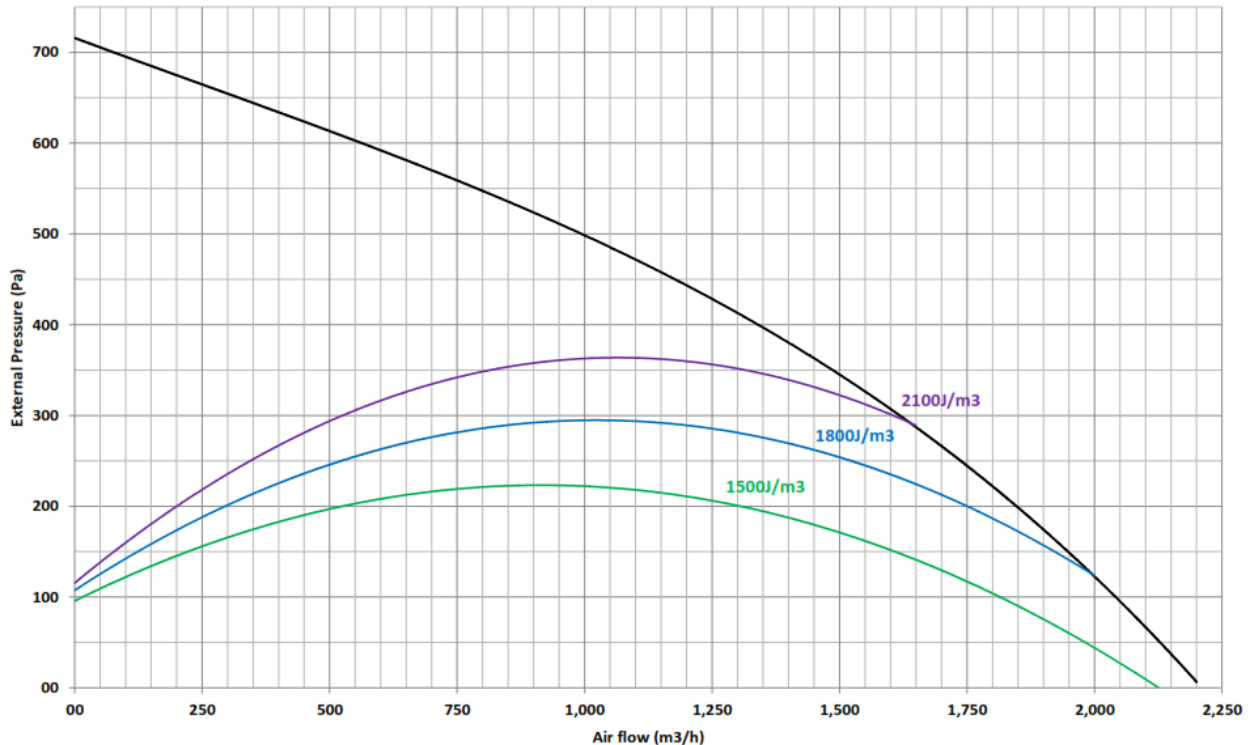
Ecodesign Requirements Table

		Value		2018
	Product	JUPITER 25		
	Erp	2018		
A	Manufacturer	BSK Havalandırma Ekipmanları A.Ş.		
B	Model Identifier	JUPITER 8 X 8		
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	81,62 %		81,62 % >= 73 %
G	Nominal Flow Rate	0,42 m³/s	0,42 m³/s	
H	Effective Electrical Power Input	0,38 kW	0,38 kW	0,76 kW
I	SFPInt	525 W/(m³/s)	474 W/(m³/s)	999W/(m³/s) <= 1296
J	Face Velocity	1,09 m/s	1,04 m/s	
K	Nominal External Drop Δps, Ext	150 Pa		150 Pa
L	Internal Pressure Drop Δps, Int Supply Air	326 Pa		326 Pa
	Internal Pressure Drop Δps, Int Exhaust Air	334 Pa		334 Pa
M	Additional Pressure Drop Δps, Add	30 Pa	30 Pa	
N	Static Fan Efficiency EC327/2011	57,40 %	57,54 %	
O	Declared Maximum Ext./Int. Leakage Rate	1,00 %		1,00 %
	Leakage Classifications by Eurovent	L1		L1
P	Energy Performance Of Filters	A	A	
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge	Required
R	Casing Sound Power Level (Lwa)	48,4 dBA		48,4 dBA
S	Internet Address Of Instructions	www.Termicplus.dk		
	Total Dimension mm	W 800 x H 1.415 x L 1860		
	Supply Airflow	1.500 m³/h		1.500 m³/h
	Return Airflow	1.500 m³/h		1.500 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	2,08 m/s		2,08 m/s
	SUPPLY CONNECTION Air Velocity	2,08 m/s		2,08 m/s
	RETURN CONNECTION Air Velocity	2,08 m/s		2,08 m/s
	EXHAUST CONNECTION Air Velocity	2,08 m/s		2,08 m/s
	Total Heating Capacity	6,93 kW		6,93 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	474 kg		474 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	

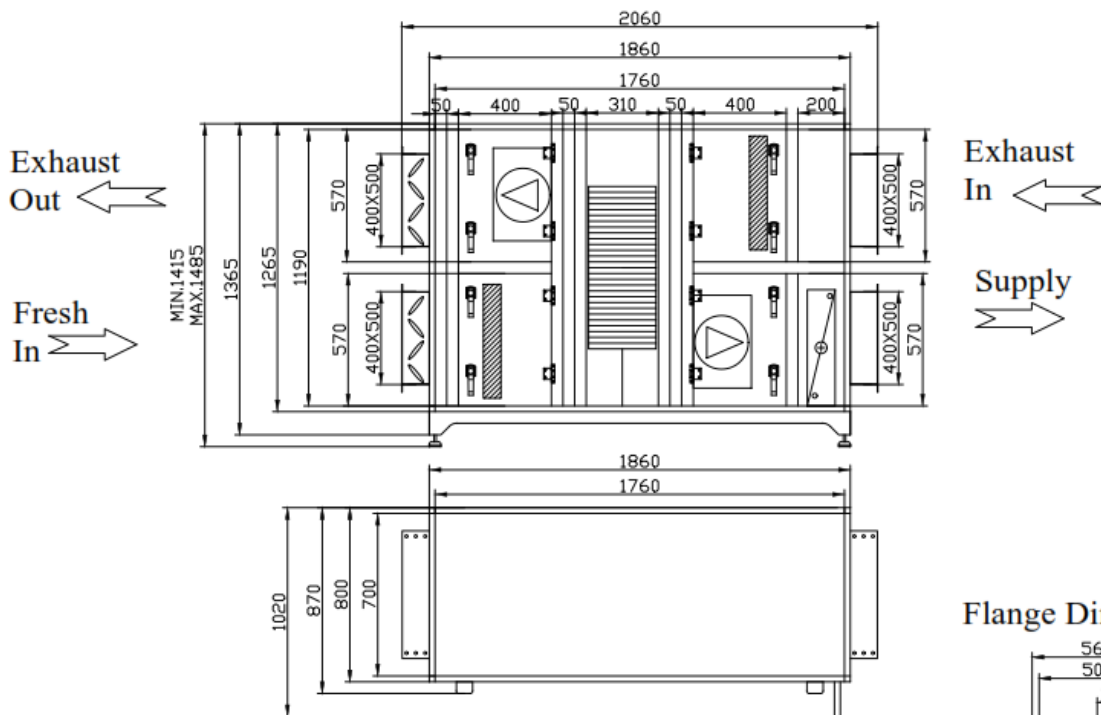
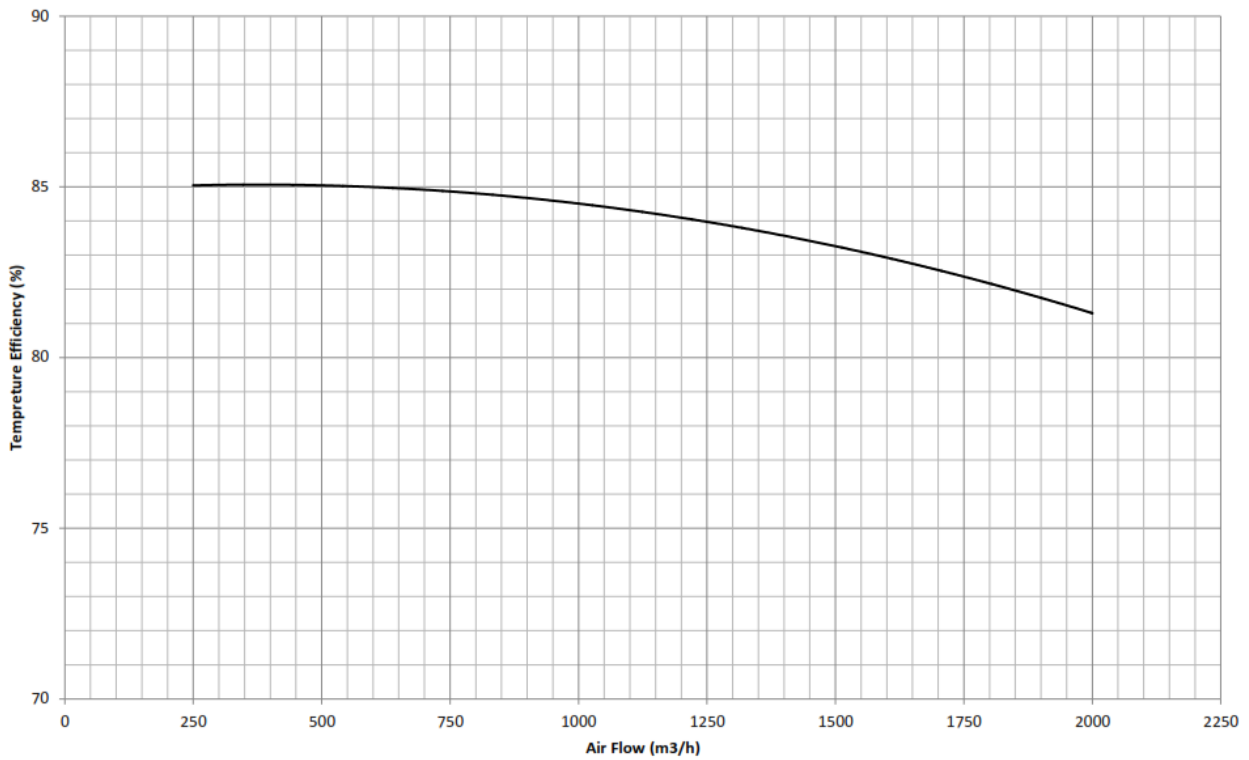
Air Flow

J Prime 25_15



Efficiency

Jprime 25_15



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

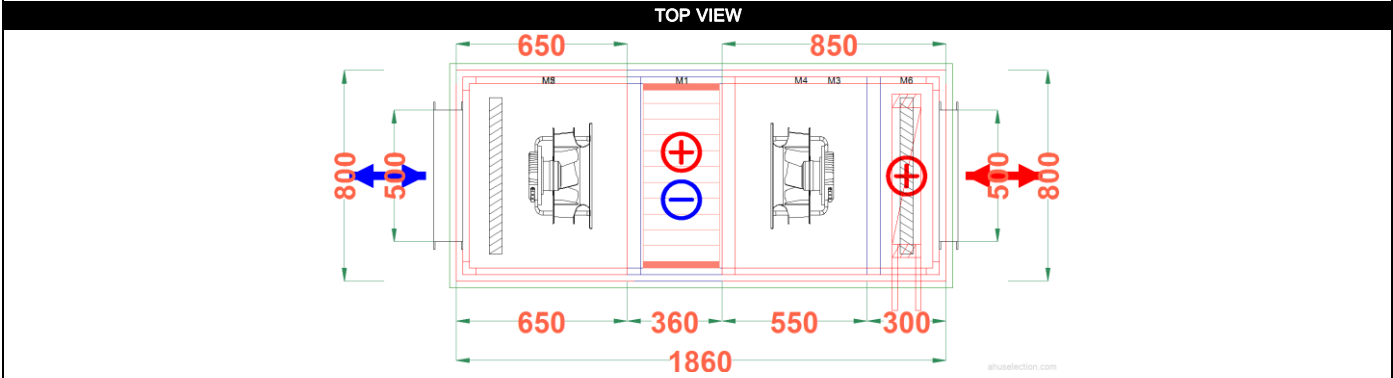
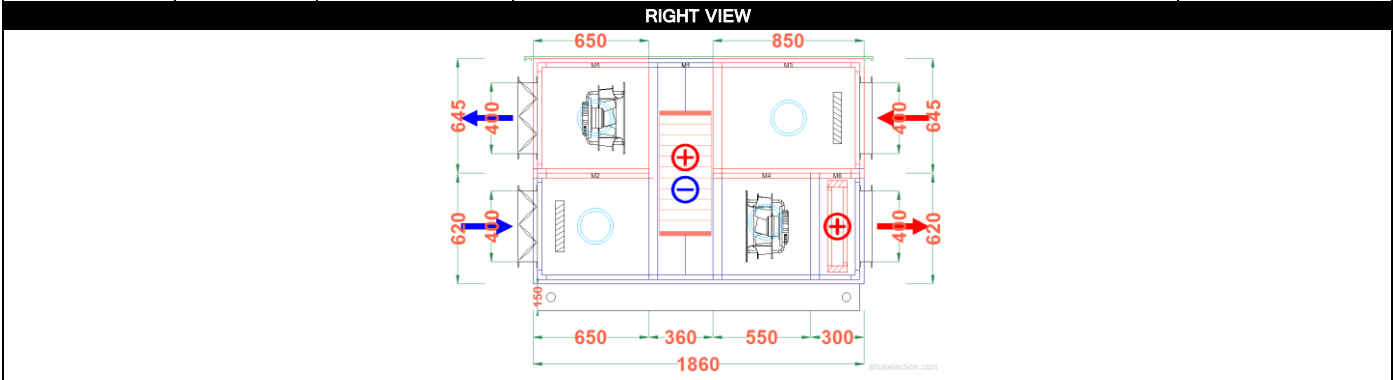
Phone / Telefon: : + 90 216 669 09 70

Mail: info@bskhavalandirma.com

Web : www.bskhavalandirma.com

DECLARATION OF CONFORMITY

		TECHNICAL DATA			
		Date	21.08.2020	Rev. Date	21.09.2020
		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_15_1RH - (1 QTY)		
BSK	1/7	AHU Model	JUPITER 8 X 8		



GENERAL SPECIFICATIONS				
Supply Air Flow	Return Air Flow	Frame	Total Dimensions mm	
1.500 m³/h	1.500 m³/h	25 steel profile	W 800 x H 1.415 x L 1860	
Supply Air Velocity	Return Air Velocity	Insulation Material	Total Weight	
1,09 m/s	1,04 m/s	50 mm Rockwool 70 kg/m³	474 kg	
Coil Air Velocity	Air Density	Outside Sheet Material	Base Height	Roof (Outside)
1,8 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	0,76 kW	
Total Heating Capacity		Total Sensible Capacity	Motor Power(Vent/Asp)	
6,93 kW			0,54 kW / 0,54 kW	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	Real Unit CAL Class -400 Pa	Real Unit CAL Class +400 Pa
1,00 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		55,7	53,9	45,8	36,4	35,4	25,9	13,2	48,4	dB(A)
Air Outlet Induct Sound Power Level		66,6	73,9	69,5	66,4	64,4	58,9	54,8	71,5	dB(A)
Air Inlet Induct Sound Power Level		77,3	65,3	59,7	51,9	44,5	37,5	29,9	64,3	dB(A)
Return Air Outlet Induct Sound Power Level		69,0	76,2	71,7	68,5	65,5	60,0	55,9	73,7	dB(A)
Return Air Inlet Induct Sound Power Level		77,5	65,6	59,8	52,0	44,5	37,6	29,9	64,5	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				
		Date	21.08.2020	Rev. Date	21.09.2020	
		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_15_1RH - (1 QTY)			
BSK	2/7	AHU Model	JUPITER 8 X 8			
FRESH AIR CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
1.500 m³/h		W 500 mm x H 400 mm		2,08 m/s		
SUPPLY CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
1.500 m³/h		W 500 mm x H 400 mm		2,08 m/s		
RETURN CONNECTION						
Connection Type		Control Type		Pressure Drop		
Flange				0 Pa		
Airflow		Dimensions		Air Velocity		
1.500 m³/h		W 500 mm x H 400 mm		2,08 m/s		
EXHAUST CONNECTION						
Connection Type		Control Type		Pressure Drop		
Gear Damper		Automatic (LM230ASR)		0 Pa		
Airflow		Dimensions		Air Velocity		
1.500 m³/h		W 500 mm x H 400 mm		2,08 m/s		
FILTER (M2)						
Airflow	Condensation Pan			Spare Filter	Section Weight	
1.500 m³/h					90 kg	
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
F7 Panel	43 Pa / 129 Pa / 86 Pa	2,45 m/s	592x287x48/1/A			
* Filter Energy Performance; preferably energy classification						
* Frame sealing applied.						
ACCESSORIES (M2)						
Lightening, Observation Glass, Manometer Pressure Gauge						

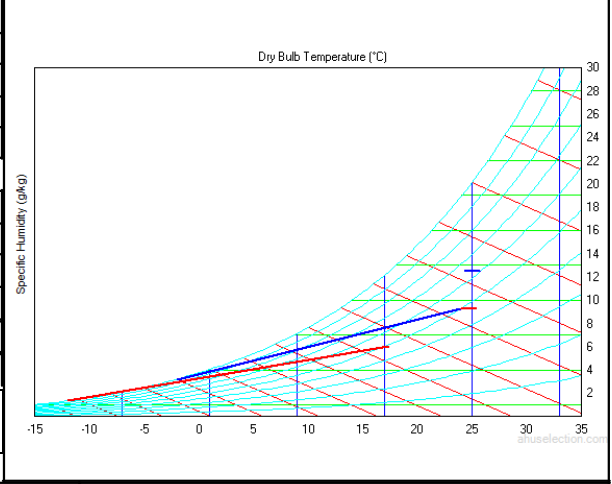
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	Project ID	4157	Tracking Number	4126
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AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime 25_15_1RH - (1 QTY)	
BSK	3/7	AHU Model	JUPITER 8 X 8	



ROTARY HEAT EXCHANGER (M1)

Model	RRU_ECO-P-E14-700/700-650	Rpm	15	Quantity	1	Section Weight	93 kg
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	Fresh Air	Exhaust	Capacity	Winter	Summer		
Airflow	1.500 m³/h	1.500 m³/h		20,87 kW	-0,72 kW		
Air Vel.	2,23 m/s	2,55 m/s		Fresh	Exhau	Fresh	Exhaus
	Winter		P.D	190 Pa	227 Pa	243 Pa	227 Pa
	Summer			235 Pa	222 Pa	235 Pa	222 Pa
	Effic.	Balan.(*)	1,2kg/m³	235 Pa	222 Pa	235 Pa	222 Pa
	81,62	81,62		78,19	78,19		



Air Inlet / Outlet	Winter				Summer			
	Fresh Air		Exhaust		Fresh Air		Exhaust	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
	DT	-12,00 °	17,38 °C	24,00 °C	-1,92 °C	25,80 °C	24,39 °C	24,00 °C
WT	-12,29 °	11,47 °C	17,07 °C	-2,18 °C	20,16 °C	19,73 °C	17,07 °C	17,55 °C
RH	90,00 %	48,74 %	50,00 %	95,00 %	60,00 %	65,25 %	50,00 %	45,96 %

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

<input type="checkbox"/> Frequency Inverter	Size mm (700 x 700 x 290) - 650	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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AHUSEL V.	2.2.3.17 15.08.2020	AHU Name	J Prime_25_15_1RH - (1 QTY)	
BSK	4/7	AHU Model	JUPITER 8 X 8	



SUPPLY FAN (M4)

Airflow	1.500 m ³ /h	Fan Model	EBM Papst-K3G250PR04H2		Quantity	1	Section Weight	60 kg				
Internal Static Pressure	326 Pa	Motor P./Pha./Volt./Freq.	0,54 kW/1P/230V/50-60Hz		Isolator		Isolator Count	Backup Fan	Backup Motor			
External Static Pressure	150 Pa											
Total Static Pressure	476 Pa											
Total Pressure	506 Pa								System Effect	34 Pa		
Total / Static Efficiency	61,07 / 57,40 %											
Shaft Power / Absorbed Power	0,35 / 0,38 kW								Absorbed Pow.With VFD	0,38 kW		
Fan Speed	2497 rpm (Max.3080 rpm)											
	Air Density	1,3505 kg/m ³										
Specific Fan Power (SFPe int)	0,53 kW/(m ³ /s)	Sound Power Level (dB)										
		Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Electrical Current	1,63 A (Max.2,55 A)	SPLm - Outlet Side	63,2	63,8	69,2	67,9	68,4	67,4	62,4	58,7	73,2	dBa
		SPLa - Inlet Side	72,5	69,1	66,6	66,2	64,2	60,3	59,6	55,8	69,2	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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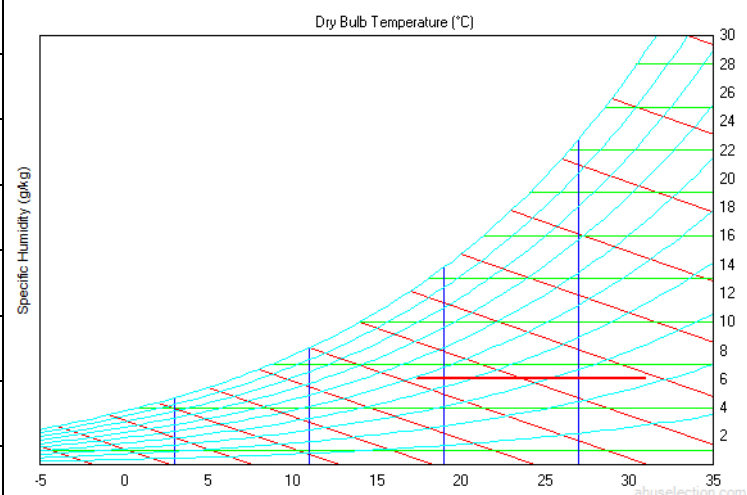
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BSK	5/7	AHU Model	JUPITER 8 X 8	



COIL (Heating) (M6)

Airflow	Capacity / Sensible	Required Cap.	Face Vel.	Quantity	Tube Mat.	Fin Mat.	Section Weight
1.500 m³/h	6,93/6,93 kW		1,80 m/s	1	Copper	Aluminium	58 kg
Coil Code			Tube Thickness	Fin Thickness	Mixing Ratio		
32 x 28 12 14T 1R 520A 2.1P 1NC			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	
				520 x 445 x 110	Steel	Galvanized Steel	
Fluid Kind	Fluid In / Out						
WATER	70/50 °C						
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature						
17,38 °C	30,98 °C						
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature						
11,47 °C	16,70 °C						
Air Inlet Relative Humidity	Air Outlet Relative Humidity						
48,74 %	21,56 %						
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow						
32,68 - 46,50 kJ/kg	298,1 kg/h / 305 dm³/h						
Air Press.Drop	Fluid Press.Drop / Fluid Velocity						
16 Pa	9,67 kPa / 0,77 m/s						
Coil Surface Area	Tube Inner Volume						
5,54 m²	1,12 L						
Manifold / Conn.QTY	Conn.Direction						
1 / 1	Right						
Connection Sizes				Air Condensation	Hygienic		
21,3 / 21,3 mm (1/2" DN15 / 1/2" DN15)				0,00 l/h			

ACCESSORIES (M6)


FILTER (M3)


Airflow	Condensation Pan				Spare Filter	Section Weight
1.500 m³/h						91 kg
Filter Type	Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
M6 Panel	34 Pa / 102 Pa / 68 Pa	2,45 m/s	592x287x48/1/A			

* Filter Energy Performance; preferably energy classification

* Frame sealing applied.

ACCESSORIES (M3)

Lightening, Observation Glass, Manometer Pressure Gauge	
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BSK	6/7	AHU Model	JUPITER 8 X 8	



EXHAUST FAN (M5)

Airflow	1.500 m ³ /h	Fan Model	EBM Papst-K3G250PR04H2		Quantity	1	Section Weight	83 kg		
Internal Static Pressure	334 Pa	Motor P./Pha./Volt./Freq.	0,54 kW/1P/230V/50-60Hz	Isolator	Isolator Count	Backup Fan	Backup Motor			
External Static Pressure	150 Pa									
Total Static Pressure	484 Pa									
Total Pressure	514 Pa								System Effect	39 Pa
Total / Static Efficiency	61,15 / 57,54 %									
Shaft Power / Absorbed Power	0,35 / 0,38 kW								Absorbed Pow.With VFD	0,38 kW
Fan Speed	2511 rpm (Max.3080 rpm)									
	Air Density								1,3505 kg/m ³	
Specific Fan Power (SFPe int)	0,47 kW/(m ³ /s)									
Electrical Current	1,66 A (Max.2,55 A)									

	Hz	Sound Power Level (dB)								LwA-tot	
		63	125	250	500	1000	2000	4000	8000		
SPLm - Outlet Side		63,5	64,0	69,3	68,0	68,5	67,5	62,5	58,8	73,3	dBA
SPLa - Inlet Side		72,7	69,3	66,8	66,3	64,3	60,4	59,7	55,8	69,3	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

ACCESSORIES (M5)

Lightening, Observation Glass	
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