

**Datasheet:** 02037270  
**Project:** Mc Donalds DK-  
Braband  
**Location:** Braband  
**Unit:** AHU 02

**Position:** 727002  
**Side:** 1 by 13  
**Date:** 19.06.2024  
**Tender Position:**



**Clerk:** M.Leis **Quantity:** 1 Piece  
**Construction:** HYD S Outside installation  
**Base Frame:** inside galvanized 160 mm,  
164,16 kg  
**Base Frame top unit:** Without  
**Total Weight:** Ca 2000 kg  
**Thermal Decoupling:** T2/TB4  
**CAL (R)@-400 Pa:** 0,327 dm<sup>3</sup>/(sm<sup>2</sup>)  
**CAL (R)@+400 Pa:** 0,403 dm<sup>3</sup>/(sm<sup>2</sup>)  
**Accessories:** Roof overhang 100mm  
Transport Steel Pipes  
insulation strips

**Cert. No:** 02.03.036  
**Efficiency Factor Winter:** 0,91  
**Efficiency Factor Summer:** 0,91  
**Reference city:** DK-Jaegersborg  
**Dry bulb temperature:** 26,80  
**Wet bulb temperature:** 18,30  
**Dew point temperature:** 13,60



Software ALAG  
[02.05.2024]  
Version 1.23/4.2



<b>Datasheet:</b>	02037270	<b>Position:</b>	727002
<b>Project:</b>	Mc Donalds DK- Braband	<b>Side:</b>	2 by 13
<b>Location:</b>	Braband	<b>Date:</b>	19.06.2024
<b>Unit:</b>	AHU 02	<b>Tender Position:</b>	



## Technical Data Supply Air

<b>Outside Metal Sheet:</b>	mm	1,0 galvanized coated, RAL 9002	<b>Unit Size:</b>	Special
<b>Inside Metal Sheet:</b>	mm	1,0 galvanized	<b>Position of Access Side:</b>	Left
<b>Inside Floor Metal Sheet:</b>	mm	53,0 galvanized	<b>Position of Piping Side:</b>	Left
<b>Wall Thickness:</b>	mm	53,0 galvanized	<b>Insulation Roof/Floor:</b>	Mineral Wool 99kg/m <sup>3</sup>
<b>Dimensions (L x W x H):</b>	mm	4562x1121x825	<b>Insulation Walls:</b>	Mineral Wool 99kg/m <sup>3</sup>
<b>Air velocity:</b>	m/sec	1,85	<b>Class of Velocity:</b>	V3
<b>Weight:</b>	kg	1086	<b>Design:</b>	Standard

---

**(SUP) Air Inlet Section**    **GSC/GSC/GSC**    **Weight: 104 kg**    **Length: 554 mm**    **Pressure Drop: 24 Pa**

<b>Connection:</b>		<b>Damper Size:</b>	
<b>Layer</b>	Roof	<b>Assembly:</b>	Inside
<b>Material:</b>	galvanized and painted	<b>Material:</b>	Aluminium
<b>Design:</b>	Damping Connection VDI6022	<b>Design:</b>	Gear
<b>Potential Equalisation:</b>	Yes	<b>Tightness:</b>	Class 2
		<b>Shaft Position:</b>	Inside
		<b>Actuator:</b>	Open/Close 24V
<b>Dimensions (W x H)</b>	762 x 314	<b>Dimensions (W x H x D):</b>	762 x 314 x 115
<b>Grating:</b>	Without		

<b>Design:</b>	Access Door	<b>Condensate Trough:</b>	RAL/V2A (AISI304)
<b>Lockers:</b>	Lockers	<b>Condensate Drain:</b>	Yes
<b>Hinges:</b>	3D-Hinges		

### Accessories

Item Number	Description	Weight
	Siphon SN	
	Door locker	

**Datasheet:** 02037270      **Position:** 727002  
**Project:** Mc Donalds DK-Braband      **Side:** 3 by 13  
**Location:** Braband      **Date:** 19.06.2024  
**Unit:** AHU 02      **Tender Position:**



<b>(SUP) Filter</b>	<b>GSC/GSC/GSC</b>	<b>Weight: 78 kg</b>	<b>Length: 555 mm</b>	<b>Pressure Drop: 142 Pa</b>
<b>Brand:</b>	Rox	<b>Filter Maintenance:</b>	Clamp Rail	
<b>Spare Filter:</b>	No	<b>Frame:</b>	V2A (AISI304)	
		<b>Manometer:</b>	DPA2500 with display	
<b>1st Filter step</b>				
<b>Filter Type:</b>	Bag Filter short	<b>Energy Efficiency Class:</b>	C	
<b>Filter Class EN779:2012:</b>	F7	<b>Filter Surface:</b>	m <sup>2</sup>	6,5
<b>Filter Class ISO16890:</b>	ePM1 60%	<b>Medium:</b>	Glass Fibre	
<b>ΔP Initial:</b>	Pa 85			
<b>ΔP End:</b>	Pa 200			
<b>Max. Pressure Drop:</b>	Pa 250			
<b>ΔP Dim:</b>	Pa 142			
<b>Type/Size/Quantity</b>	Hi-Flo XLT 7/370 50+	592*592*370 mm	1 Piece	
	Hi-Flo XLT 7/370 50+	287*592*370 mm	1 Piece	
<b>Design:</b>	Access Door	<b>Condensate Trough:</b>	RAL/V2A (AISI304)	
<b>Lockers:</b>	Lockers	<b>Condensate Drain:</b>	Yes	
<b>Hinges:</b>	3D-Hinges			
<b>Accessories</b>				
<b>Item Number</b>	<b>Description</b>	<b>Weight</b>		
	Siphon SN			
	Door locker			



Datasheet: 02037270      Position: 727002  
 Project: Mc Donalds DK-Braband      Side: 4 by 13  
 Location: Braband      Date: 19.06.2024  
 Unit: AHU 02      Tender Position:



**Plate Heat Exchanger**      GSC/GS/GS      Weight: 382 kg      Length: 1497 mm      Pressure Drop: 146 Pa

Brand: Rox      Type: KV-100/P1/0990/BSK116,H

Actuator: Continuously 24V      Diagonal: mm 1387

Technical Data      Supply Air      Extract Air

Operating Mode: Winter

Air Volume:	m³/h	4800	4300
Temp. In:	°C	-12	22
Rel. Humidity In:	%	90	30
Temp. Out:	°C	13,3	-1,9
Rel. Humidity out:	%	12,9	100
Heat Recovery dry:	%	69,3	77,1
Heat Recovery wet:	%	74,4	70,4

Humidification / Dehumidification: g/kg

Condensate:	kg/h	0	9
Pressure Drop dry:	Pa	145,99	124,19
Pressure Drop wet:	Pa	0	0
Pressure drop standard density:	Pa	159	132
Air velocity:	m/s	1,7	1,5
Sensible Heat Load:	kW	40,8	-34,7
Latent Heat Load:	kW	0	-6,1
Total Heat Load:	kW	40,8	-40,8

Operating Mode: Summer

Air Volume:	m³/h	4800	4300
Temp. In:	°C	34	26
Rel. Humidity In:	%	35	50
Temp. Out:	°C	28,4	32,2
Rel. Humidity out:	%	48	34,9
Heat Recovery dry:	%	69,7	77,6
Heat Recovery wet:	%	69,7	77,6

Humidification / Dehumidification: g/kg

Condensate:	kg/h	0	0
Pressure Drop dry:	Pa	165,09	136,07
Pressure Drop wet:	Pa	0	0
Pressure drop standard density:	Pa	159	132
Air velocity:	m/s	1,7	1,5
Sensible Heat Load:	kW	-9,2	9,1
Latent Heat Load:	kW	0	0,1
Total Heat Load:	kW	-9,2	9,2

**Operation Point according to EN13053:2012**

Temp. In:	°C	5,00	25,00
relative humidity %:	%	0,00	0,00
Pressure Drop dry:	Pa	151	129
Pel HR:	kW	0,58	
Power Digit:	-	38,92	
Energy Efficiency:	%	71,70	
electrical Power (auxiliary power):	W	0,00	
Heat Recovery:	%	73,59	
Heat Recovery Class:	-	H1	

Design: Access Door  
 Lockers: Lockers

Condensate Trough: RAL/V2A (AISI304)  
 Condensate Drain: Yes

Software ALAG  
 [02.05.2024]  
 Version 1.23/4.2



Management System  
 ISO 9001:2015  
 www.tuv.com  
 ID 0910083041

**Datasheet:** 02037270  
**Project:** Mc Donalds DK-Braband  
**Location:** Braband  
**Unit:** AHU 02

**Position:** 727002  
**Side:** 5 by 13  
**Date:** 19.06.2024  
**Tender Position:**



**Hinges:** 3D-Hinges

**Accessories**

Item Number	Description	Weight
	Siphon SN	
	Door locker	

<b>(SUP) Cooler/Heater</b>		<b>GSC/GS/GS</b>	<b>Weight: 307 kg</b>	<b>Length: 153 mm</b>	<b>Pressure Drop: 62 Pa</b>
<b>Brand:</b>	Rox	<b>Type:</b>	DR-ZL.S-2.5-845-560-4R-4-Cu0,35-Al0,12-AlMg3-1-Cu 16/22-E0-1-L-0		
<b>Pipes:</b>	Copper	<b>Heat Transfer Medium:</b>	R410A		
<b>Fin:</b>	AlMg	<b>Weight Heat Exchanger:</b>	26,4		
<b>Collector:</b>	Copper	<b>Medium</b>			
<b>Frame:</b>	AlMg	<b>Flow-Rate:</b>	kg/h	504,865	
<b>Separation (A x B)</b>	mm	<b>Evaporation Temperature:</b>	°C	8,50	
<b>Quantity Pipe Rows:</b>	4	<b>Condensation Temperature:</b>	°C	45,00	
<b>Fin Distance:</b>	mm 2,5	<b>Charge:</b>	l	7,65	
<b>Connections:</b>	Straight	<b>Pressure Drop:</b>	kPa	30,9	
<b>Connection Inlet:</b>	16mm				
<b>Connection Outlet:</b>	22mm				
<b>Finned height:</b>	mm 525	<b>Air</b>		<b>Cooling</b>	<b>Heating</b>
<b>Finned width:</b>	mm 800	<b>Air Volume:</b>	m³/h	4800	
<b>Freeze protection:</b>	°C 0,00	<b>Temp. In:</b>	°C	29,40	10
		<b>Rel. Humidity In:</b>	%	48,00	
		<b>Temp. Out:</b>	°C	18,10	24
		<b>Rel. Humidity out:</b>	%	88	
		<b>Pressure Drop:</b>	Pa	65	62
		<b>Capacity:</b>	kW	22,04	22,68
		<b>Surface Reserve:</b>	%	30	
<b>Design:</b>	Fixed Panel	<b>Condensate Trough:</b>	RAL/V2A (AISI304)		

**Accessories**

Item Number	Description	Weight
<b>Heat Pump</b>	1x Samsung AM080AXVGGH	250
<b>EEV-Kit</b>	1x Samsung MXD K100AN	

The heat pump will be mounted on a base frame extension and delivered piped and pre-filled factory site

**Hints:** This component is not included in the software Eurovent certified



**Datasheet:** 02037270  
**Project:** Mc Donalds DK-  
Braband  
**Location:** Braband  
**Unit:** AHU 02

**Position:** 727002  
**Side:** 6 by 13  
**Date:** 19.06.2024  
**Tender Position:**



**(SUP) Droplet  
Eliminator**

<b>GSC/GS/GS</b>	<b>Weight: 65 kg</b>	<b>Length: 462 mm</b>	<b>Pressure Drop: 22 Pa</b>
<b>Brand:</b> Rox			
<b>Material:</b> PPTV	<b>Guiding Rail:</b> V2A (AISI304)		
<b>Design:</b> Access Panel	<b>Condensate Trough:</b> RAL/V2A (AISI304)		
<b>Lockers:</b> Lockers	<b>Condensate Drain:</b> Yes		

**Accessories**

Item Number	Description	Weight
	Siphon SN	



**Datasheet:** 02037270      **Position:** 727002  
**Project:** Mc Donalds DK-Braband      **Side:** 7 by 13  
**Location:** Braband      **Date:** 19.06.2024  
**Unit:** AHU 02      **Tender Position:**



<b>(SUP) Fan</b>		<b>GSC/GS/GS</b>	<b>Weight: 118 kg</b>	<b>Length: 765 mm</b>	<b>Pressure Drop: 0 Pa</b>
<b>Brand:</b>	Rox		<b>Construction:</b>	Free Running	
<b>Fan Type:</b>	1 x GKHM 355-CII.118.6FF IE Gen3		<b>Drivetrain:</b>	Motor in Airstream	
<b>SFP-Data with FC:</b>	m³/s 1316		<b>SFP-Class with FC:</b>	SFP3	
<b>Air Volume:</b>	m³/h 4800		<b>Motor type:</b>	EC	
<b>ΔP ext.:</b>	Pa 300		<b>Voltage / Frequency:</b>	V/Hz	3~200-240 / 50/60
<b>Dyn. Pressure Drop:</b>	Pa 47		<b>Nominal Power:</b>	kW	2,77
<b>Installation loss:</b>	Pa 28		<b>Nominal Current:</b>	A	7,25
<b>Static Pressure Drop:</b>	Pa 800		<b>Nominal Rotation Speed:</b>	1/min	3115
<b>Total Pressure Drop:</b>	Pa 847		<b>Frequency Converter:</b>	Integrated	
<b>electrical Power Input:</b>	kW 1,75 / P1		<b>Nozzle Pressure Difference:</b>	Pa	1045,29
<b>Reference Power Input:</b>	kW 2,29		<b>k-Factor:</b>	m²s/h	115
<b>Nominal Rotation Speed:</b>	1/min 2646				
<b>Maximum Rotation Speed:</b>	1/min 3115				
<b>Rotation Speed Spare:</b>	% 14,98				
<b>Total Efficiency:</b>	% 64,40				
<b>Static System Efficiency:</b>	% 60,80				
<b>Total Efficiency in Efficiency Optimum:</b>	% 69				
<b>Air Volume Measuring Point:</b>	Air Volume Measuring Point with Pressure Sensor DPA 2500				
<b>Total Sound Power level:</b>	dB(A) 80,4				

f	125	250	500	1000	2000	4000	8000	Hz
Lw o	53	77	77	78	76	75	72	dB
Lw i	47	73	74	73	72	71	68	dB

**Design:** Access Door  
**Lockers:** Lockers  
**Hinges:** 3D-Hinges

### Accessories

Item Number	Description	Weight
	PTC	
	Door locker	

**Hints:** The Installation losses of the fan are considered in the Fan Performances  
 Designed for wet conditions  
 Motor wired to Repair Switch  
 Ring measuring line with T-piece led to the outside



**Datasheet:** 02037270      **Position:** 727002  
**Project:** Mc Donalds DK-Braband      **Side:** 8 by 13  
**Location:** Braband      **Date:** 19.06.2024  
**Unit:** AHU 02      **Tender Position:**



**(SUP) Air Outlet Section**

GSC/GS/GS      Weight: 32 kg      Length: 1 mm      Pressure Drop: 19 Pa

**Connection:**

**Layer:** Front Side  
**Material:** galvanized  
**Design:** Damping Connection VDI6022  
**Potential Equalisation:** Yes  
**Dimensions (W x H):** 956 x 360  
  
**Grating:** Without

**Design:** Fixed Panel

**Supply Air Acoustic Data**

**Supply Air Connector**

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	52	76	76	77	75	74	71	83
Residue Sound Power in dB(A)	36	68	73	77	77	75	70	82

**Outside Air Connector**

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	32	53	54	49	39	40	36	57
Residue Sound Power in dB(A)	16	44	50	49	40	41	35	54

**Surrounding Acoustic Emission (Casing Emission)**

Wall Thickness: 53 mm

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	39	68	65	58	49	39	32	70
Residue Sound Power in dB(A)	23	59	62	58	50	40	31	65

The Acoustic Data refer only on the inside fan  
Possibly the Supply Air and Extract Air Data have to be added together



<b>Datasheet:</b>	02037270	<b>Position:</b>	727002
<b>Project:</b>	Mc Donalds DK- Braband	<b>Side:</b>	9 by 13
<b>Location:</b>	Braband	<b>Date:</b>	19.06.2024
<b>Unit:</b>	AHU 02	<b>Tender Position:</b>	



## Technical Data Extract Air

<b>Outside Metal Sheet:</b>	mm	1,0 galvanized coated, RAL 9002	<b>Unit Size:</b>	Special
<b>Inside Metal Sheet:</b>	mm	1,0 galvanized	<b>Position of Access Side:</b>	Right
<b>Inside Floor Metal Sheet:</b>	mm	53,0 galvanized	<b>Position of Piping Side:</b>	Right
<b>Wall Thickness:</b>	mm	53,0 galvanized	<b>Insulation Roof/Floor:</b>	Mineral Wool 99kg/m <sup>3</sup>
<b>Dimensions (L x W x H):</b>	mm	2300x1121x825	<b>Insulation Walls:</b>	Mineral Wool 99kg/m <sup>3</sup>
<b>Air velocity:</b>	m/sec	1,66	<b>Class of Velocity:</b>	V2
<b>Weight:</b>	kg	346	<b>Design:</b>	Standard

---

**(EXT) Air Inlet Section**    GSC/GS/GS    Weight: 32 kg    Length: 1 mm    Pressure Drop: 1 Pa

### Connection:

<b>Layer</b>	Front Side
<b>Material:</b>	galvanized
<b>Design:</b>	Damping Connection VDI6022
<b>Potential Equalisation:</b>	Yes
<b>Dimensions (W x H)</b>	956 x 759

**Grating:** Without

**Design:** Fixed Panel

**Datasheet:** 02037270  
**Project:** Mc Donalds DK-Braband  
**Location:** Braband  
**Unit:** AHU 02

**Position:** 727002  
**Side:** 10 by 13  
**Date:** 19.06.2024  
**Tender Position:**



<b>(EXT) Filter</b>		<b>GSC/GS/GS</b>	<b>Weight: 68 kg</b>	<b>Length: 650 mm</b>	<b>Pressure Drop: 138 Pa</b>
<b>Brand:</b>	Rox		<b>Filter Maintenance:</b>	Clamp Rail	
<b>Spare Filter:</b>	No		<b>Frame:</b>	galvanized	
			<b>Manometer:</b>	DPA2500 with display	
<b>1st Filter step</b>					
<b>Filter Type:</b>	Bag Filter short		<b>Energy Efficiency Class:</b>	C	
<b>Filter Class EN779:2012:</b>	F7		<b>Filter Surface:</b>	m <sup>2</sup>	6,5
<b>Filter Class ISO16890:</b>	ePM1 60%		<b>Medium:</b>	Glass Fibre	
<b>ΔP Initial:</b>	Pa	76			
<b>ΔP End:</b>	Pa	200			
<b>Max. Pressure Drop:</b>	Pa	250			
<b>ΔP Dim:</b>	Pa	138			
<b>Type/Size/Quantity</b>	Hi-Flo XLT 7/370 50+		592*592*370 mm		1 Piece
	Hi-Flo XLT 7/370 50+		287*592*370 mm		1 Piece
<b>Design:</b>	Access Door				
<b>Lockers:</b>	Lockers				
<b>Hinges:</b>	3D-Hinges				
<b>Accessories</b>					
<b>Item Number</b>	<b>Description</b>			<b>Weight</b>	
	Door locker				



**Datasheet:** 02037270      **Position:** 727002  
**Project:** Mc Donalds DK-Braband      **Side:** 11 by 13  
**Location:** Braband      **Date:** 19.06.2024  
**Unit:** AHU 02      **Tender Position:**



<b>(EXT) Fan</b>		<b>GSC/GS/GS</b>	<b>Weight: 120 kg</b>	<b>Length: 730 mm</b>	<b>Pressure Drop: 0 Pa</b>
<b>Brand:</b>	Rox		<b>Construction:</b>	Free Running	
<b>Fan Type:</b>	1 x GKHM 355-CII.118.6FF IE Gen3		<b>Drivetrain:</b>	Motor in Airstream	
<b>SFP-Data with FC:</b>	m³/s 1045		<b>SFP-Class with FC:</b>	SFP2	
<b>Air Volume:</b>	m³/h 4300		<b>Motor type:</b>	EC	
<b>ΔP ext.:</b>	Pa 300		<b>Voltage / Frequency:</b>	V/Hz	3~200-240 / 50/60
<b>Dyn. Pressure Drop:</b>	Pa 38		<b>Nominal Power:</b>	kW	2,77
<b>Installation loss:</b>	Pa 23		<b>Nominal Current:</b>	A	7,25
<b>Static Pressure Drop:</b>	Pa 623		<b>Nominal Rotation Speed:</b>	1/min	3115
<b>Total Pressure Drop:</b>	Pa 661		<b>Frequency Converter:</b>	Integrated	
<b>electrical Power Input:</b>	kW 1,25 / P1		<b>Nozzle Pressure Difference:</b>	Pa	838,87
<b>Reference Power Input:</b>	kW 1,64		<b>k-Factor:</b>	m²s/h	115
<b>Nominal Rotation Speed:</b>	1/min 2349				
<b>Maximum Rotation Speed:</b>	1/min 3115				
<b>Rotation Speed Spare:</b>	% 24,53				
<b>Total Efficiency:</b>	% 63,30				
<b>Static System Efficiency:</b>	% 59,60				
<b>Total Efficiency in Efficiency Optimum:</b>	% 69				
<b>Air Volume Measuring Point:</b>	Air Volume Measuring Point with Pressure Sensor DPA 2500				
<b>Total Sound Power level:</b>	dB(A) 77,4				

f	125	250	500	1000	2000	4000	8000	Hz
Lw o	50	74	74	75	73	72	69	dB
Lw i	44	70	71	70	69	68	65	dB

**Design:** Access Door  
**Lockers:** Lockers  
**Hinges:** 3D-Hinges

### Accessories

Item Number	Description	Weight
	PTC	
	Door locker	

**Hints:** The Installation losses of the fan are considered in the Fan Performances  
 Designed for wet conditions  
 Motor wired to Repair Switch  
 Ring measuring line with T-piece led to the outside



**Datasheet:** 02037270      **Position:** 727002  
**Project:** Mc Donalds DK-Braband      **Side:** 12 by 13  
**Location:** Braband      **Date:** 19.06.2024  
**Unit:** AHU 02      **Tender Position:**



**(EXT) Air Outlet Section**      **GSC/GS/GS**      **Weight: 126 kg**      **Length: 534 mm**      **Pressure Drop: 37 Pa**

<b>Connection:</b>		<b>Damper Size:</b>	
<b>Layer</b>	Roof	<b>Assembly:</b>	Inside
<b>Material:</b>	galvanized and painted	<b>Material:</b>	Aluminium
<b>Design:</b>	Throwing Nozzle, rainproof	<b>Design:</b>	Gear
<b>Potential Equalisation:</b>	Yes	<b>Tightness:</b>	Class 2
		<b>Shaft Position:</b>	Inside
		<b>Actuator:</b>	Open/Close 24V
<b>Dimensions (W x H)</b>	715 x 314	<b>Dimensions (W x H x D):</b>	715 x 314 x 115
<b>Grating:</b>	Without		

<b>Design:</b>	Access Door	<b>Condensate Trough:</b>	RAL/V2A (AISI304)
<b>Lockers:</b>	Lockers	<b>Condensate Drain:</b>	Yes
<b>Hinges:</b>	3D-Hinges		

**Accessories**

Item Number	Description	Weight
	Siphon DS	
	Door locker	

**Extract Air Acoustic Data**

Exhaust Air Connection								
Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	44	66	70	72	70	69	66	78
Residue Sound Power in dB(A)	28	58	67	72	72	70	65	77

Extract Air Connection								
Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	38	62	61	55	48	46	41	65
Residue Sound Power in dB(A)	22	53	57	55	49	47	40	61

Surrounding Acoustic Emission (Casing Emission)								
Wall Thickness: 53 mm								
Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	36	65	62	55	46	36	29	67
Residue Sound Power in dB(A)	20	56	59	55	47	37	28	62

The Acoustic Data refer only on the inside fan  
Possibly the Supply Air and Extract Air Data have to be added together



Datasheet: 02037270  
 Project: Mc Donalds DK-  
 Braband  
 Location: Braband  
 Unit: AHU 02

Position: 727002  
 Side: 13 by 13  
 Date: 19.06.2024  
 Tender Position:



Unit Type	NRVU	Construction of Unit	BVU
Non residential ventilation unit		Bidirectional ventilation unit	

<b>Total unit characteristics:</b>	
Type of HR:	Plate Heat Exchanger
Temperature ratio dry:	73,59 %
Highest External Leakage rate (+400Pa/-400Pa):	0,27 %
Highest Internal Leakage rate (250Pa):	0,03 %

SFPint:	759,16 [W/(m³/s)]
SFPint max. 2016:	1208,12 [W/(m³/s)]
SFPint max. 2018:	928,12 [W/(m³/s)]



Supply air features		Extract air features	
Air Volume:	1,33 m³/s	Air Volume:	1,19 m³/s
ΔP ext:	300 Pa	ΔP ext:	300 Pa
ΔP s, add:	236 Pa	ΔP s, add:	95 Pa
ΔP s, int:	283 Pa	ΔP s, int:	243 Pa
Filter:	ePM1 60% (F7)	Filter:	ePM1 60% (F7)
Filter pressure drop beginning:	85 Pa	Filter pressure drop beginning:	76 Pa
Heat recovery pressure drop dry:	151 Pa	Heat recovery pressure drop dry:	129 Pa
Fan pressure drop total:	819 Pa	Fan pressure drop total:	638 Pa
Fan pressure drop dynamic:	47 Pa	Fan pressure drop dynamic:	38 Pa
Fan electric power input:	1,75 kW	Fan electric power input:	1,25 kW
Fan efficiency static:	60,80 %	Fan efficiency static:	59,60 %
SFPv:	1175,99 [W/(m³/s)]	SFPv:	902,68 [W/(m³/s)]

<b>Hints</b>	
Filter warn indication	The Filter warn indication is realized by a differential pressure manometer. According to the guideline 1253/2014/EU the filter monitoring has to be mounted onsite if it is not contained in the equipment.
Thermal Bypass	The required thermal bypass of the HRS according to the guideline 1253/2014/EU is realized by a bypass of the HR-System.
Drivetrain	If the unit is ordered and delivered without DDC, a governor or a cascade drive is provided to fulfil the requirements of the guideline 1253/2014/EU.
Disposal note	Further information under <a href="http://www.rox-online.de">www.rox-online.de</a>

