

Datasheet: 02037270 **Position:** 727001
Project: Mc Donalds DK-Braband **Side:** 1 by 7
Location: Braband **Date:** 19.06.2024
Unit: Kitchen **Tender Position:**



Clerk:	M.Leis	Quantity:	1 Piece
Construction:	HYD S Outside installation, VDI 6022		
Base Frame:	inside galvanized 160 mm, 92,49 kg		
Base Frame top unit:	Without		
Total Weight:	1050 kg		
Thermal Decoupling:	T2/TB4		
CAL (R)@-400 Pa:	0,327 dm ³ /(sm ²)		
CAL (R)@+400 Pa:	0,403 dm ³ /(sm ²)		
Accessories:	Roof overhang 100mm Transport Steel Pipes insulation strips		
Cert. No:	02.03.036		
Efficiency Factor Winter:	1,00		
Efficiency Factor Summer:	1,00		
Reference city:	Jaegersborg		
Dry bulb temperature:	26,80		
Wet bulb temperature:	18,30		
Dew point temperature:	13,60		



Software ALAG
[02.05.2024]
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Unit: Kitchen **Tender Position:**



Technical Data Supply Air

Outside Metal Sheet:	mm	1,0 galvanized coated, RAL 9002	Unit Size:	Special
Inside Metal Sheet:	mm	1,0 galvanized	Position of Access Side:	Left
Inside Floor Metal Sheet:	mm	53,0 galvanized	Position of Piping Side:	Left
Wall Thickness:	mm	53,0 galvanized	Insulation Roof/Floor:	Mineral Wool 99kg/m ³
Dimensions (L x W x H):	mm	2850x1046x825	Insulation Walls:	Mineral Wool 99kg/m ³
Air velocity:	m/sec	1,67	Class of Velocity:	V2
Weight:	kg	676	Design:	VDI 6022

(SUP) Air Inlet Section **GSC/GSC/GSC** **Weight: 98 kg** **Length: 544 mm** **Pressure Drop: 20 Pa**

Connection:

Layer: Roof
Material: galvanized
Design: Damping Connection VDI6022
Potential Equalisation: Yes

Damper Size:

Assembly: Inside
Material: Aluminium
Design: Gear
Tightness: Class 2
Shaft Position: Inside
Actuator: Open/Close 24V
Dimensions (W x H x D): 687 x 314 x 115

Dimensions (W x H) 687 x 314

Grating: Without

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

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

Accessories

Item Number	Description	Weight
	Siphon SN	
	Door locker	



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Unit: Kitchen **Tender Position:**



(SUP) Filter	GSC/GSC/GSC	Weight: 70 kg	Length: 555 mm	Pressure Drop: 135 Pa
Brand:	Rox	Filter Maintenance:	Clamp Rail	
Spare Filter:	No	Frame:	V2A (AISI304)	
		Manometer:	DPA2500 with display	
1st Filter step				
Filter Type:	Bag Filter short	Energy Efficiency Class:	C	
Filter Class EN779:2012:	F7	Filter Surface:	m ²	6,5
Filter Class ISO16890:	ePM1 60%	Medium:	Glass Fibre	
ΔP Initial:	Pa 71			
ΔP End:	Pa 200			
Max. Pressure Drop:	Pa 250			
ΔP Dim:	Pa 135			
Type/Size/Quantity	Hi-Flo XLT 7/370 50+	592*592*370 mm	1 Piece	
	Hi-Flo XLT 7/370 50+	287*592*370 mm	1 Piece	
Design:	Access Door	Condensate Trough:	RAL/V2A (AISI304)	
Lockers:	Lockers	Condensate Drain:	Yes	
Hinges:	3D-Hinges			
Accessories				
Item Number	Description	Weight		
	Siphon SN			
	Door locker			

(SUP) Empty section **GSC/GS/GS** **Weight: 56 kg** **Length: 590 mm** **Pressure Drop: 0 Pa**
 Empty Section for Heat recovery

Design: Fixed Panel



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Unit: Kitchen **Tender Position:**



(SUP) Heater		GSC/GS/GS	Weight: 63 kg	Length: 395 mm	Pressure Drop: 37 Pa
Brand:	Rox		Type:		W / 22 / 762 / 2 R / 6 K / 2.2 Cu,12/Al-L1
Pipes:	Copper/Aluminium		Weight Heat Exchanger:	kg	16,04
Fin:	Aluminium		Medium		
Collector:	Copper		Heat Transfer Medium:		Water / Glycol
Frame:	Galvanized Steel		Flow-Rate:	m³/h	1,43
Separation (A x B):	mm 30x26		Temp. In:	°C	50,00
Quantity Pipe Rows:	2		Temp. Out:	°C	30,00
Fin Distance:	mm 2,2		Charge:	l	4,60
Connections:	Straight		Pressure Drop:	kPa	16,80
Connection Inlet:	DN 25, CuØ28, 1"		Medium Velocity:	m/s	0,67
Connection Outlet:	DN 25, CuØ28, 1"		Air		
Finned height:	mm 660		Air Volume:	m³/h	4000
Finned width:	mm 762		Temp. In:	°C	-12,00
Pressure Stage:			Temp. Out:	°C	10,00
Freeze protection:	°C -20		Pressure Drop:	Pa	37
Frost Protection Support Frame:	Extendible		Air velocity:	m/s	2,21
			Surface Reserve:	%	10,00
			Capacity:	kW	29,62
Design:	Fixed Panel				

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Unit: Kitchen **Tender Position:**



(SUP) Cooler/Heater		GSC/GS/GS	Weight: 287 kg	Length: 235 mm	Pressure Drop: 110 Pa	
Brand:	Rox		Type:		XRCAF 0725 T014 05 F40 E004 1*5/8 1*7/8 (R2) (8mm)	
Pipes:	Copper 9,5x0.7		Weight Heat Exchanger:	kg	26,569	
Fin:	AlMg		Refrigerant:		R410A	
Collector:	Copper		Flow-Rate:	Kg/h	482	
Frame:	AlMg		Evaporation temperature:	°C	8,5	
Separation (A x B):	mm 30x26		Condensation Temperature:	°C	45	
Quantity Pipe Rows:	5		Charge:	l	6,4	
Fin Distance:	mm 4		Pressure Drop:	kPa	33,5	
Connections:	Straight		Air		Cooling	Heating
Connection Inlet:	16mm		Air Volume:	m³/h	4000	
Connection Outlet:	22mm		Temp. In:	°C	34	10
Finned height:	mm 525		Rel. Humidity In:	%	35	
Finned width:	mm 725		Temp. Out:	°C	18,4	24
Freeze protection:	°C 0		Rel. Humidity out:	%	87	
			Pressure Drop:	Pa	110	103
			Dehumidification:	kg/h	0,5	
			Surface Reserve:	%	19	39
			Capacity:	kW	21,87	

Design: Fixed Panel **Condensate Trough:** RAL/V2A (AISI304)

Accessories

Item Number	Description	Weight
Heat Pump	1x Samsung AM080AXVGGH	250
EEV-Kit	1x Samsung MXD K075AN	

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

(SUP) Droplet Eliminator		GSC/GS/GS	Weight: 49 kg	Length: 350 mm	Pressure Drop: 18 Pa	
Brand:	Rox		Guiding Rail:		V2A (AISI304)	
Material:	PPTV		Condensate Trough:		RAL/V2A (AISI304)	
Design:	Access Panel		Condensate Drain:		Yes	
Lockers:	Lockers					

Accessories

Item Number	Description	Weight
	Siphon SN	

Datasheet: 02037270 **Position:** 727001
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Unit: Kitchen **Tender Position:**



(SUP) Fan		GSC/GS/GS	Weight: 98 kg	Length: 575 mm	Pressure Drop: 0 Pa
Brand:	Rox		Construction:	Free Running	
Fan Type:	1 x GKHM 355-CII.118.6FF IE Gen3		Drivetrain:	Motor in Airstream	
SFP-Data with FC:	m³/s 1039		SFP-Class with FC:	SFP3	
Air Volume:	m³/h 4000		Motor type:	EC	
ΔP ext.:	Pa 300		Voltage / Frequency:	V/Hz 3~200-240 / 50/60	
Dyn. Pressure Drop:	Pa 33		Nominal Power:	kW 2,77	
Installation loss:	Pa 20		Nominal Current:	A 7,25	
Static Pressure Drop:	Pa 618		Nominal Rotation Speed:	1/min 3115	
Total Pressure Drop:	Pa 651		Frequency Converter:	Integrated	
electrical Power Input:	kW 1,15 / P1		Nozzle Pressure Difference:	Pa 725,90	
Reference Power Input:	kW 1,54		k-Factor:	m²s/h 115	
Nominal Rotation Speed:	1/min 2277				
Maximum Rotation Speed:	1/min 3115				
Rotation Speed Spare:	% 26,74				
Total Efficiency:	% 62,60				
Static System Efficiency:	% 59,50				
Total Efficiency in Efficiency Optimum:	% 69				
Air Volume Measuring Point:	Air Volume Measuring Point with Pressure Sensor DPA 2500				
Total Sound Power level:	dB(A) 76,6				

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



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Unit: Kitchen **Tender Position:**



(SUP) Air Outlet Section

GSC/GS/GS **Weight: 31 kg** **Length: 1 mm** **Pressure Drop: 15 Pa**

Connection:

Layer: Front Side
Material: galvanized
Design: Damping Connection VDI6022
Potential Equalisation: Yes
Dimensions (W x H): 881 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	49	73	73	74	72	71	68	80
Residue Sound Power in dB(A)	33	64	69	74	73	72	67	79

Outside Air Connector

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	34	57	56	55	47	48	47	61
Residue Sound Power in dB(A)	18	48	52	55	48	49	46	58

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	34	65	61	53	45	33	27	67
Residue Sound Power in dB(A)	17	56	58	53	46	34	26	61

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

