

Datasheet: 02037293
Project: KVP-Kiel
Location:
Unit:

Position: 729301
Side: 1 by 19
Date: 28.11.2024
Tender Position:



Clerk: Solbach **Quantity:** 1 Piece
Construction: HYD Climate Outside installation, VDI 6022
Base Frame: reinforced 260 mm,
Base Frame top unit: reinforced 220 mm,
Total Weight: 10844 kg
Thermal Decoupling: T2/TB2
CAL (R)@-400 Pa: 0,108 dm³/(sm²)
CAL (R)@+400 Pa: 0,173 dm³/(sm²)
Accessories: Roof overhang 100mm
Transport Steel Pipes
insulation strips
Brand Information are exemplary and nonobligatory

Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 2 by 19
 Date: 28.11.2024
 Tender Position:



Technical Data Supply Air

Outside Metal Sheet:	mm	1,0 galvanized coated RAL9002	Unit Size:	Special
Inside Metal Sheet:	mm	1,0 galvanized coated RAL9002	Position of Access Side:	Right
Inside Floor Metal Sheet:	mm	62,0 V2A (AISI304)	Position of Piping Side:	Right
Wall Thickness:	mm	62,0 galvanized coated	Insulation Roof/Floor:	Mineral Wool 170kg/m³
Dimensions (L x W x H):	mm	9551x2041x2168	Insulation Walls:	Mineral Wool 170kg/m³
Air velocity:	m/sec	1,50	Class of Velocity:	V1
Weight:	kg	5390	Design:	VDI 6022

(SUP) Air Inlet Section GSC/GSC/SS Weight: 408 kg Length: 637 mm Pressure Drop: 21 Pa

Connection:

Layer: Front Side
 Material: galvanized
 Design: Hood
 Potential Equalisation: Yes

Damper Size:

Assembly: Inside
 Material: Aluminium
 Design: Gear
 Tightness: Class 4
 Shaft Position: Inside
 Actuator: Actuator _auf/zu_24V
 Belimo NM 24A
 Dimensions (W x H x D): 1665 x 669 x 175

Dimensions (W x H) 1726 x 929

Grating: Without

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

Condensate Trough: RAL/V2A (AISI304)
 Condensate Drain: Yes
 Sight glass: Yes
 Light: Wet Room Lamp IP65
 Wired: Yes
 Cable-Passage M20: 1

Accessories

Item Number	Description	Weight
	Siphon SN	
	Lamp 230V	
	Door locker	



Datasheet: 02037293
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 Unit:

Position: 729301
 Side: 3 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Heater		GSC/GSC/SS	Weight: 719 kg	Length: 384 mm	Pressure Drop: 5 Pa
Brand:	Rox		Type:	Convecta	
Pipes:	Copper		Heat Transfer Medium:	Water Glykol N 25%v	
Fin:	without		Weight Heat Exchanger:	kg	240,00
Collector:	Colpper		<u>Medium</u>		
Frame:	AISI304		Flow-Rate:	m³/h	--
Separation (A x B)	mm		Temp. In:	°C	--
Quantity Pipe Rows:	0		Temp. Out:	°C	--
Fin distance:	mm	0,00	Charge:	l	61,00
Connections:	straight		Druckverlust:	kPa	--
Connection Inlet:	2x 5/4"		<u>Luft</u>		
Connection Outlet:	2x 5/4"		Air Volume:	m³/h	21000
Finned height:	mm	--	Temp. In:	°C	-12,00
Finned width:	mm	--	Temp. Out:	°C	-10,30
Freeze protection:	°C	--	Pressure Drop:	Pa	5
Surface Reserve:	%		Capacity:	kW	13,30
Design:	Fixed Panel		Condensate Trough:	RAL/V2A (AISI304)	
			Condensate Drain:	Yes	

Accessories

Item Number	Description	Weight
	Siphon SN	
Hints:	This component is not included in the software Eurovent certified	

(SUP) Empty section	GSC/GSC/SS	Weight: 225 kg	Length: 695 mm	Pressure Drop: 0 Pa
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Design:	Access Door	Condensate Trough:	RAL/V2A (AISI304)
Lockers:	Lever Fastener	Condensate Drain:	Yes
Hinges:	3D-Hinges	Sight glass:	Yes
		Light:	Wet Room Lamp IP65
		Wired:	Yes

Accessories

Item Number	Description	Weight
	Siphon SN	
	Lamp 230V	
	Door locker	

Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 4 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Filter	GSC/GSC/SS	Weight: 220 kg	Length: 600 mm	Pressure Drop: 82 Pa
Brand:	Rox	Filter Maintenance:	Dust Air Side	
Spare Filter:	No	Frame:	V2A (AISI304)	
		Manometer:	Wika A2G Mini	
1st Filter step				
Filter Type:	Taschenfilter XL	Energy Efficiency Class:	A+	
Filter Class EN779:2012:	F7	Filter Surface:	m ²	81,9
Filter Class ISO16890:	ePM1 60%	Medium:	Glass Fibre	
ΔP Initial:	Pa 41			
ΔP End:	Pa 123			
Max. Pressure Drop:	Pa 250			
ΔP Dim:	Pa 82			
Type/Size/Quantity	Hi-Flo M M7 50+	592*592*640 mm	9 Piece	
Design:	Access Door	Condensate Trough:	RAL/V2A (AISI304)	
Lockers:	Lever Fastener	Condensate Drain:	Yes	
Hinges:	3D-Hinges			
Accessories				
Item Number	Description	Weight		
	Siphon SN			
	Door locker			

(SUP) Silencer	GSC/GSC/SS	Weight: 435 kg	Length: 959 mm	Pressure Drop: 26 Pa				
Brand:	Rox	Splitter length:	mm	745				
Splitter Frame:	V2A (AISI304)	Splitter Height:	mm	2035				
Gap:	mm 55	Silencer Cover:	Fibreglass cover					
Velocity (Gap):	m/s 6,50							
Splitter Width:	mm 180	Quantity:	7					
Splitter Width:	mm 200	Quantity:	1					
f	125	250	500	1000	2000	4000	8000	Hz
De	8	20	34	40	40	40	35	dB
Design:	Access Panel							
Lockers:	Lockers							

(SUP) Empty section	GSC/GSC/SS	Weight: 136 kg	Length: 515 mm	Pressure Drop: 0 Pa
Design:	Access Door		Sight glass:	Yes
Lockers:	Lever Fastener		Light:	Wet Room Lamp IP65
Hinges:	3D-Hinges		Wired:	Yes
Accessories				
Item Number	Description	Weight		
	Lamp 230V			
	Door locker			



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 5 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Run-Around-Coil System Supply Air

GSC/GSC/SS

Weight: 993 kg

Length: 504 mm

Pressure Drop: 140 Pa

Type: Convecta

Operation Point Winter

Medium

Heat Transfer Medium: AntifrogenN 25%v
 Flow-Rate: m³/h --
 Temp. In: °C --
 Temp. Out: °C --
 Charge: l 91,00
 Pressure Drop: kPa --
 Medium Velocity: m/s --
 Surface Reserve: % --
 Efficiency wet: % --

Air

Air Volume: m³/h 21000
 Temp. In: °C -10,20
 Rel. Humidity In: % 78,00
 Temp. Out: °C 22,00
 Rel. Humidity out: % 8,00
 Pressure Drop dry: Pa 140
 Air velocity: m/s --
 Dehumidification: kg/h --
 Capacity: kW 235,00

Operation Point according to EN13053:2012:

Temp. In Supply Air: °C 5,0
 relative humidity In Supply Air: % 0,0
 Pressure drop dry Supply Air: Pa 145
 Pel HR: kW 5,3
 Power Digit: - 17,2
 Energy Efficiency: % 64,1
 electrical Power (auxiliary power): W 2400
 Heat Recovery: % 68,00
 Heat Recovery Class: H2

Temp. In Extract Air: °C 25,0
 relative humidity In Extract Air: % 0,0
 Pressure drop dry Extract Air: Pa 180

Pipes:
 Fin: Aluminium
 Collector: Copper
 Frame: V2A (AISI304)
 Connections: straight
 Freeze protection: °C -12,00
 Weight Heat Exchanger: kg 760,00

Finned height: mm --
 Finned width: mm --
 Separation (A x B): mm
 Fin Distance: mm --
 Quantity Pipe Rows: --
 Connection Inlet: 2x 5/4"
 Connection Outlet: 2x 5/4"

Design: Fixed Panel

Condensate Trough: RAL/V2A (AISI304)

Accessories

Item Number	Description	Weight
	geteiltes Register	1
	Versteifung der Einschubschiene	50

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



Datasheet: 02037293
Project: KVP-Kiel
Location:
Unit:

Position: 729301
Side: 6 by 19
Date: 28.11.2024
Tender Position:



(SUP) Droplet Eliminator

GSC/GSC/SS Weight: 88 kg Length: 200 mm Pressure Drop: 12 Pa

Brand: Rox
Material: PPTV Guiding Rail: V2A (AISI304)
Design: Access Panel Condensate Trough: RAL/V2A (AISI304)
Lockers: Lockers Condensate Drain: Yes

Accessories

Item Number	Description	Weight
	Siphon SN	

(SUP) Empty section

GSC/GSC/SS Weight: 141 kg Length: 500 mm Pressure Drop: 0 Pa

Design: Access Door Sight glass: Yes
Lockers: Lever Fastener Light: Wet Room Lamp IP65
Hinges: 3D-Hinges Wired: Yes

Accessories

Item Number	Description	Weight
	Lamp 230V	
	Door locker	



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 7 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Fan		GSC/GSC/SS	Weight: 802 kg	Length: 1236 mm	Pressure Drop: 0 Pa
Brand:		Rox	Construction:	Free Running	
Fan Type:		1 x RQM F6-8090-BI-Y3-M	Drivetrain:	Motor in Airstream	
SFP-Data with FC:	W/(m³/s)	1530	SFP-Class with FC:	SFP3	
Air Volume:	m³/h	21000	Motor type:	270-240 / IE5-12	
ΔP ext.:	Pa	700	Voltage / Frequency:	V/Hz	3~380-480-50/60
Dyn. Pressure Drop:	Pa	41	Nominal Power:	kW	15
Installation loss:	Pa	25	Nominal Current:	A	32,0
Static Pressure Drop:	Pa	1135	Nominal Rotation Speed:	1/min	1200
Total Pressure Drop:	Pa	1201	Frequency Converter:	Integrated	
Mechanical Shaft Power:	kW	8,21	Nozzle Pressure Difference:	Pa	686
electrical Power Input:	kW	8,92 / P1	k-Factor:	m²s/h	621
Reference Power Input:	kW	12,73	Inside Fan Connection:	mm	1009 * 1009
Nominal Rotation Speed:	1/min	1075			
Maximum Rotation Speed:	1/min	1320			
Rotation Speed Spare:	%	22,78			
Nominal Frequency:	Hz	107,00			
Maximum Frequency:	Hz	132			
Total Efficiency:	%	85,00			
Static Efficiency:	%	82,00			
Static System Efficiency:	%	76			
Total Efficiency in Efficiency Optimum:	%	79.6			
Air Volume Measuring Point:		Air Volume Measuring Point			
Total Sound Power level:	dB(A)	84 / 81			

f	125	250	500	1000	2000	4000	8000	Hz
Lw o	88	82	79	79	76	74	67	dB
Lw i	85	81	78	76	71	70	63	dB
Design:	Access Door			Sight glass:	Yes			
Lockers:	Lever Fastener			Light:	Wet Room Lamp IP65			
Hinges:	3D-Hinges			Wired:	Yes			

Accessories

Item Number	Description	Weight
	EPOX 60μ	
	PTC	
	Spring damper	
	additional locker	
	Lamp 230V	
	Door locker	

Hints:
 The Installation losses of the fan are considered in the Fan Performances
 Designed for wet conditions
 The operating point can only be achieved by using a frequency converter
 Motor wired to Repair Switch

Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 8 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Empty section GSC/GSC/SS Weight: 69 kg Length: 150 mm Pressure Drop: 0 Pa

Design: Fixed Panel

Accessories

Item Number	Description	Weight
	Ausschnitt DN 400 mit Bundkragen und Bogen 90 Grad	15
	Schuko-Steckdose 230 V - Montageort hinterfragen	

(SUP) Silencer GSC/GSC/SS Weight: 578 kg Length: 1215 mm Pressure Drop: 34 Pa

Brand:	Rox	Splitter length:	mm	1110
Splitter Frame:	V2A (AISI304)	Splitter Height:	mm	2035
Gap:	mm 55	Silencer Cover:	Fibreglass cover	
Velocity (Gap):	m/s 6,50			
Splitter Width:	mm 180	Quantity:	7	
Splitter Width:	mm 200	Quantity:	1	

f	125	250	500	1000	2000	4000	8000	Hz
De	12	29	44	40	40	40	40	dB

Design: Access Panel
 Lockers: Lockers

(SUP) Empty section GSC/GSC/SS Weight: 170 kg Length: 600 mm Pressure Drop: 0 Pa

Design: Access Door Sight glass: Yes
 Lockers: Lever Fastener Light: Wet Room Lamp IP65
 Hinges: 3D-Hinges Wired: Yes

Accessories

Item Number	Description	Weight
	Lamp 230V	
	Door locker	



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 9 by 19
 Date: 28.11.2024
 Tender Position:



(SUP) Filter	GSC/GSC/SS	Weight: 196 kg	Length: 590 mm	Pressure Drop: 112 Pa
Brand:	Rox	Filter Maintenance:	Dust Air Side	
Spare Filter:	No	Frame:	V2A (AISI304)	
		Manometer:	Wika A2G Mini	
1st Filter step				
Filter Type:	Compact Filter	Energy Efficiency Class:	A+	
Filter Class EN779:2012:	F9	Filter Surface:	m ²	153
Filter Class ISO16890:	ePM1 80%	Medium:	Glass Fibre	
ΔP Initial:	Pa 62			
ΔP End:	Pa 162			
Max. Pressure Drop:	Pa 300			
ΔP Dim:	Pa 112			
Type/Size/Quantity	Opakfil ES ES9	592*592*296 mm		9 Piece
Design:	Access Door	Sight glass:	Yes	
Lockers:	Lever Fastener	Light:	Wet Room Lamp IP65	
Hinges:	3D-Hinges	Wired:	Yes	

Accessories

Item Number	Description	Weight
	Lamp 230V	
	Door locker	

(SUP) Air Outlet Section	GSC/GSC/SS	Weight: 210 kg	Length: 1 mm	Pressure Drop: 3 Pa
Connection:		Damper Size:		
Layer	Front Side	Assembly:	Inside	
Material:	SS	Material:	Aluminium	
Design:	Damping Connection VDI6022	Design:	Leverage	
Potential Equalisation:	Yes	Tightness:	Class 4	
		Shaft Position:	Inside	
		Actuator:	Actuator _auf/zu_24V Belimo NM 24A	
Dimensions (W x H)	1856 x 1674	Dimensions (W x H x D):	1665 x 1659 x 175	
Grating:	Without			
Design:	Fixed Panel	Cable-Passage M20:	1	
Hints:	Blow-out guard incl.			



Datasheet: 02037293
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 Unit:

Position: 729301
 Side: 10 by 19
 Date: 28.11.2024
 Tender Position:



Supply Air Acoustic Data

Supply Air Connector

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	75	52	34	35	28	26	18	75
Residue Sound Power in dB(A)	59	43	31	35	29	27	17	59

Outside Air Connector

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	74	56	38	27	15	16	14	74
Residue Sound Power in dB(A)	58	47	35	27	16	17	13	58

Surrounding Acoustic Emission (Casing Emission)

Wall Thickness: 62 mm

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	74	59	58	53	44	34	24	74
Residue Sound Power in dB(A)	58	50	54	53	45	35	23	61

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

Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 11 by 19
 Date: 28.11.2024
 Tender Position:



Technical Data Extract Air

Outside Metal Sheet:	mm	1,0 galvanized coated RAL9002	Unit Size:	750
Inside Metal Sheet:	mm	1,0 galvanized coated RAL9002	Position of Access Side:	Left
Inside Floor Metal Sheet:	mm	62,0 V2A (AISI304)	Position of Piping Side:	Left
Wall Thickness:	mm	62,0 galvanized coated	Insulation Roof/Floor:	Mineral Wool 170kg/m³
Dimensions (L x W x H):	mm	9551x2041x1758	Insulation Walls:	Mineral Wool 170kg/m³
Air velocity:	m/sec	1,52	Class of Velocity:	V1
Weight:	kg	4043	Design:	VDI 6022

(EXT) Air Inlet Section

GSC/GSC/SS

Weight: 151 kg

Length: 1 mm

Pressure Drop: 12 Pa

Connection:

Layer: Front Side
 Material: SS
 Design: Damping Connection
 VDI6022
 Potential Equalisation: Yes

Damper Size:

Assembly: Inside
 Material: Aluminium
 Design: Leverage
 Tightness: Class 4
 Shaft Position: Inside
 Actuator: Actuator _auf/zu_24V
 Belimo NM 24A
 Dimensions (W x H x D): 1665 x 669 x 175

Dimensions (W x H): 1876 x 817

Grating: Without

Design: Fixed Panel

Sight glass: Yes
 Light: Wet Room Lamp IP65
 Wired: Yes

Accessories

Item Number	Description	Weight
	Lamp 230V	



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 13 by 19
 Date: 28.11.2024
 Tender Position:



(EXT) Silencer	GSC/GSC/SS	Weight: 300 kg	Length: 710 mm	Pressure Drop: 26 Pa
Brand:	Rox	Splitter length:	mm 650	
Splitter Frame:	V2A (AISI304)	Splitter Height:	mm 1625	
Gap:	mm 53	Silencer Cover:	Fibreglass cover	
Velocity (Gap):	m/s 6,82			
Splitter Width:	mm 180	Quantity:	6	
Splitter Width:	mm 200	Quantity:	2	

f	125	250	500	1000	2000	4000	8000	Hz
De	7	18	31	38	38	38	32	dB
Design:	Access Panel							
Lockers:	Lockers							



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 14 by 19
 Date: 28.11.2024
 Tender Position:



(EXT) Fan		GSC/GSC/SS	Weight: 566 kg	Length: 1331 mm	Pressure Drop: 0 Pa
Brand:		Rox	Construction:	Free Running	
Fan Type:		1 x RQM F3-6371-BI-YT-M	Drivetrain:	Motor in Airstream	
SFP-Data with FC:	W/(m³/s)	1437	SFP-Class with FC:	SFP3	
Air Volume:	m³/h	17000	Motor type:	220-110 / IE5-20	
ΔP ext.:	Pa	700	Voltage / Frequency:	V/Hz	3~380-480-50/60
Dyn. Pressure Drop:	Pa	66	Nominal Power:	kW	11
Installation loss:	Pa	40	Nominal Current:	A	24,0
Static Pressure Drop:	Pa	1052	Nominal Rotation Speed:	1/min	1600
Total Pressure Drop:	Pa	1158	Frequency Converter:	Integrated	
Mechanical Shaft Power:	kW	6,16	Nozzle Pressure Difference:	Pa	1253
electrical Power Input:	kW	6,78 / P1	k-Factor:	m²/s/h	372
Reference Power Input:	kW	9,74	Inside Fan Connection:	mm	803 * 803
Nominal Rotation Speed:	1/min	1458			
Maximum Rotation Speed:	1/min	1730			
Rotation Speed Spare:	%	18,62			
Nominal Frequency:	Hz	243,00			
Maximum Frequency:	Hz	289			
Total Efficiency:	%	89,00			
Static Efficiency:	%	84,00			
Static System Efficiency:	%	76			
Total Efficiency in Efficiency Optimum:	%	78.7			
Air Volume Measuring Point:		Air Volume Measuring Point			
Total Sound Power level:	dB(A)	85 / 82			

f	125	250	500	1000	2000	4000	8000	Hz
Lw o	89	83	80	80	77	75	68	dB
Lw i	84	82	79	77	72	71	64	dB
Design:	Access Door			Sight glass:	Yes			
Lockers:	Lever Fastener			Light:	Wet Room Lamp IP65			
Hinges:	3D-Hinges			Wired:	Yes			

Accessories

Item Number	Description	Weight
	EPOX 60μ	
	PTC	
	additional locker	
	Lamp 230V	
	Door locker	

Hints: The Installation losses of the fan are considered in the Fan Performances
 Designed for wet conditions
 The operating point can only be achieved by using a frequency converter
 Motor wired to Repair Switch

Datasheet: 02037293
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 Location:
 Unit:

Position: 729301
 Side: 15 by 19
 Date: 28.11.2024
 Tender Position:



(EXT) Empty section GSC/GSC/SS Weight: 102 kg Length: 405 mm Pressure Drop: 0 Pa

Design: Fixed Panel

(EXT) Silencer GSC/GSC/SS Weight: 325 kg Length: 819 mm Pressure Drop: 26 Pa

Brand: Rox Splitter length: mm 650
 Splitter Frame: V2A (AISI304) Splitter Height: mm 1625
 Gap: mm 53 Silencer Cover: Fibreglass cover
 Velocity (Gap): m/s 6,82
 Splitter Width: mm 180 Quantity: 6
 Splitter Width: mm 200 Quantity: 2

f	125	250	500	1000	2000	4000	8000	Hz
De	7	18	31	38	38	38	32	dB

Design: Access Panel
 Lockers: Lockers

(EXT) Empty section GSC/GSC/SS Weight: 119 kg Length: 500 mm Pressure Drop: 0 Pa

Design: Access Door Sight glass: Yes
 Lockers: Lever Fastener Light: Wet Room Lamp IP65
 Hinges: 3D-Hinges Wired: Yes

Accessories

Item Number	Description	Weight
	Lamp 230V	
	Door locker	



Datasheet: 02037293
Project: KVP-Kiel
Location:
Unit:

Position: 729301
Side: 16 by 19
Date: 28.11.2024
Tender Position:



(EXT) Run-Around-Coil System Extract Air

GSC/GSC/SS

Weight: 1188 kg

Length: 684 mm

Pressure Drop: 180 Pa

Type: Convecta

Operation Point Winter

Medium

Heat Transfer Medium: AntifrogenN 25%v

Flow-Rate: m³/h --

Temp. In: °C --

Temp. Out: °C --

Charge: l 227,00

Pressure Drop: kPa --

Medium Velocity: m/s --

Surface Reserve: % --

Efficiency wet: % --

Air

Air Volume: m³/h 17000

Temp. In: °C 22,00

Rel. Humidity In: % 15,00

Temp. Out: °C -0,40

Rel. Humidity out: % 66,00

Pressure Drop: Pa 180

Air velocity: m/s --

Dehumidification: kg/h --

Capacity: kW -133,10

Finned height: mm --

Finned width: mm --

Separation (A x B): mm

Fin Distance: mm --

Quantity Pipe Rows: --

Connection Inlet: 1x 1 1/2"

Connection Outlet: 1x 1 1/2"

Pipes:

Fin: Aluminium

Collector: Copper

Frame: V2A (AISI304)

Connections: straight

Freeze protection: °C -12,00

Weight Heat Exchanger: kg 940,00

Design: Fixed Panel

Condensate Trough: RAL/V2A (AISI304)

Accessories

Item Number	Description	Weight
	Verstärkte Einschubschiene für ca. 1130 kg	200

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

(EXT) Droplet Eliminator

GSC/GSC/SS

Weight: 74 kg

Length: 175 mm

Pressure Drop: 12 Pa

Brand: Rox

Material: PPTV

Design: Access Panel

Lockers: Lockers

Guiding Rail: V2A (AISI304)

Condensate Trough: RAL/V2A (AISI304)

Condensate Drain: Yes

Accessories

Item Number	Description	Weight
	Siphon DS	

Datasheet: 02037293
Project: KVP-Kiel
Location:
Unit:

Position: 729301
Side: 17 by 19
Date: 28.11.2024
Tender Position:



(EXT) Air Outlet Section GSC/GSC/SS Weight: 387 kg Length: 1164 mm Pressure Drop: 36 Pa

Connection:

Layer: Roof
Material: galvanized
Design: Deflector bonnet
Potential Equalisation: Yes

Damper Size:

Assembly: Inside
Material: Aluminium
Design: Gear
Tightness: Class 2
Shaft Position: Inside
Actuator: Actuator_auf/zu_24V
Belimo NM 24A

Dimensions (W x H) 860 x 914

Dimensions (W x H x D): 860 x 914 x 115

Grating: Without

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

Condensate Trough: RAL/V2A (AISI304)
Condensate Drain: Yes
Sight glass: Yes
Light: Wet Room Lamp IP65
Wired: Yes
Cable-Passage M20: 1

Accessories

Item Number	Description	Weight
	Siphon DS	
	Lamp 230V	
	Door locker	

(EXT) Empty section GSC/GSC/SS Weight: 375 kg Length: 1152 mm Pressure Drop: 0 Pa

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

Accessories

Item Number	Description	Weight
	Leerteil für bauseitige Pumpenbaugruppe	
	Door locker	



Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 18 by 19
 Date: 28.11.2024
 Tender Position:



Extract Air Acoustic Data

Exhaust Air Connection

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	75	54	41	35	29	29	29	75
Residue Sound Power in dB(A)	59	45	38	35	30	30	28	59

Extract Air Connection

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	75	62	46	35	24	23	21	75
Residue Sound Power in dB(A)	59	53	43	35	25	24	20	60

Surrounding Acoustic Emission (Casing Emission)

Wall Thickness: 62 mm

Frequency f in Hz	125	250	500	1k	2k	4k	8k	Sum
Residue Sound Power in dB	74	60	59	54	45	35	25	74
Residue Sound Power in dB(A)	58	51	55	54	46	36	24	61

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

Datasheet: 02037293
 Project: KVP-Kiel
 Location:
 Unit:

Position: 729301
 Side: 19 by 19
 Date: 28.11.2024
 Tender Position:



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

Total unit characteristics:	
Type of HR:	Run around coil
Temperature ratio dry:	68,00 %
Highest External Leakage rate (+400Pa/-400Pa):	0,36 %
Highest Internal Leakage rate (250Pa):	0,00 %

SFPint:	537,20 [W/(m³/s)]
SFPint max. 2016:	1550,00 [W/(m³/s)]
SFPint max. 2018:	1300,00 [W/(m³/s)]



Supply air features		Extract air features	
Air Volume:	5,83 m³/s	Air Volume:	4,72 m³/s
ΔP ext:	700 Pa	ΔP ext:	700 Pa
ΔP s, add:	249 Pa	ΔP s, add:	142 Pa
ΔP s, int:	227 Pa	ΔP s, int:	276 Pa
Filter:	ePM1 60% (F7)	Filter:	ePM10 60% (M5)
Filter pressure drop beginning:	41 Pa	Filter pressure drop beginning:	30 Pa
Heat recovery pressure drop dry:	145 Pa	Heat recovery pressure drop dry:	180 Pa
Fan pressure drop total:	1176 Pa	Fan pressure drop total:	1118 Pa
Fan pressure drop dynamic:	41 Pa	Fan pressure drop dynamic:	66 Pa
Fan electric power input:	8,92 kW	Fan electric power input:	6,78 kW
Fan efficiency static:	76,00 %	Fan efficiency static:	76,00 %
SFPv:	1439,47 [W/(m³/s)]	SFPv:	1344,74 [W/(m³/s)]

Hints	
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 www.rox-online.de

