

**Data sheet:** 02037320      **Position:** 732001  
**Project:** Bentley Motors      **Page:** 1 By 7  
**Supplier Location:**      **Date:** 13.11.2024  
**Grounds:** 1A35 - ULA  
Intermediate Dryer -  
BMK      **Course position:**



**REV2**

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**Clerk:** Brenner      **Quantity:** 1 piece  
**Type:** Special indoor installation  
**Base frame:** Galvanized inside 200 mm,  
379.66 kg  
**Intermediate frame:** Without  
**Total weight:** Approx. 5613 kg

**Accessories:** Transport pipes  
Insulation strips

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## Technical data supply air

<b>Outer shell:</b>	mm	1.0 Galvanized	<b>Size:</b>	Special
<b>Inner shell:</b>	mm	1.0 Galvanized	<b>Location of the operating side:</b>	right
<b>Bottom tray:</b>	mm	102.0 Galvanized	<b>Location of the connections:</b>	right
<b>Wall thickness:</b>	mm	102.0 Galvanized	<b>Insulation roof/floor:</b>	Mineral fibre 99 kg/m <sup>3</sup> / Armaflex HT
<b>Dimensions (LxWxH):</b>	mm	Approx. 6,800x2,700x2,862 final Dimensions after approval	<b>Insulation walls:</b>	Mineral fibre 99 kg/m <sup>3</sup> / Armaflex HT
<b>Air Velocity:</b>	m/sec	2,22	<b>Speed class:</b>	V5
<b>Weight:</b>	kg	Approx. 5,234		

<b>(SUP) Intake chamber</b>	<b>VZ/VZ/VZ</b>	<b>Pressure drop: 50 Pa</b>
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### Connection:

<b>Location</b>	Bottom
<b>Material:</b>	Galvanized
<b>Execution:</b>	Rigid support
<b>Equipotential bonding:</b>	Yes
<b>Dimensions (W x H)</b>	2221 x 814

### Connection:

<b>Location</b>	Back
<b>Material:</b>	Galvanized
<b>Execution:</b>	Round tube with 6mm Jacob flange
<b>Equipotential bonding:</b>	Yes
<b>Dimensions (W x H)</b>	DN450

<b>Grating:</b>	2 x Galvanized: 875x1140 for floor breakthrough
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<b>Execution:</b>	Inspection door
<b>Closures:</b>	Twist latch
<b>Hinges:</b>	3D hinges

## Accessories

Article number	Description	Weight
	Door stop made of Galv. steel housing Heat insulated Make the sewer connection socket internally screwed into the device base. (30mm SBM), expansion joint on site	
	Angle brackets prepared for installation of door contact switches Fabr. EUCHNER Type CES-AP-C01-AH-SB-111145With Release Unit CES-A-BBN-C04-115271	

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<b>(SUP) Filter</b>	<b>VZ/VZ/VZ</b>	<b>Pressure drop: 105 Pa</b>	
Make:	ON-SITE	Filter maintenance:	Dust air side
Reserve filter:	No	Frame:	Galvanized
1.Filter stage			
Filter Type:	Compact filters	Energy efficiency class:	D
Filter class EN 779:2012:	M6	Filter area:	m <sup>2</sup> 208
Filter class ISO16890:	ePM10 70%	Medium:	Fiber optics
ΔP Start:	Pa 55		
ΔP End:	Pa 155		
Max. pressure drop:	Pa 270		
ΔP sizing:	Pa 105		
Type/Size/Number	Opakfil ST ST6	592*592*296 mm	16 pieces
Execution:	Fixed wall		

**Accessories**

Article number	Description	Weight
	Filter medium on site Pressure measuring points lead twice to the outside in Cu 6x1 according to dimensions on device sketch (for 1xsensor + 1xhand measurement)	
	Shaft ladder 1.4m / 5 rungs / 400mm wide + 2 wall hooks for changing the upper air filters – Part 2120171	

**(SUP) Empty chamber      VZ/VZ/VZ      Pressure drop: 0 Pa**

Execution: Inspection door  
 Closures: Twist latch  
 Hinges: 3D hinges

**Accessories**

Article number	Description	Weight
	Measuring connection 1/2" F with plug in door Door stop made of Galv. steel	

**(SUP) Empty chamber      VZ/VZ/VZ      Pressure drop: 0 Pa**

Execution: Fixed wall



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**(SUP) Direct-fired air heater**      VZ/VZ/VZ      **Pressure drop: 240 Pa**

**Heating Coil NL-A 250-WT995-R1500 + Gas Burner WG 30N/1-C ZM-LN Country Version Great Britain**

210/240kW Power WT

40/350kW power gas burner

Incl. gas control section for 150 - 220 mbar

*Partitions on the WT according to the specifications of NORDLUFT*

**Execution:** Inspection wall in front of exhaust gas WT according to sketch

**Closures:** Twist latch

**Accessories**

Article number	Description	Weight
	Housing heat-insulated	

**(SUP) Empty chamber**      VZ/VZ/VZ      **Pressure drop: 0 Pa**

**Execution:** Fixed wall



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 Course position:




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(SUP) Fan

VZ/VZ/VZ

Pressure drop: 0 Pa

Technical Data			 Ventilatoren und Prozesslufttechnik GmbH		
Quantity	Fan type		Project		
1	REU 729g/2.5-1001-D-4-37-Rh/1485		28025		
position	Offer	customer	Plant / Order	Date/Contact	
1	23106266-6	Rox-Klimatechnik GmbH		07.11.2024/MP	
centrifugal fan, free-running wheel, direct drive for mounting in walls with insulating cassette					
<b>Data from input</b>			<b>Fan data</b>		
Volume flow	m³/h	50000	Fan type	REU 729g/2.5-1001-D-4-37-Rh/1485	
Static pressure rise	Pa	1602	Housing position	Rh	
Inlet pressure	Pa	0	Housing	-	
Density (Ambient)	kg/m³	0,911	Console	-	
Temperature	°C	110	nozzle coefficient	0,4182	
ambient temperature	°C	20	Connection suct. side	1120x1120 mm DIN 24193 T1	
Pressure (Ambient)	kPa	100,13	Weight excl. Motor ca.	276 kg	
Altitude	m	100	Max. allowed temperat.	110 °C	
Medium	air		<b>Components</b> Material surface treatment		
Connection	No connection		Impeller	1.0038	C2-L (PUR-Lack) RAL 9007
operating mode			Blades	S3	
<b>Performance data</b>			Console	1.0038	C2-L (PUR-Lack) RAL 9007
Temperature	°C	110	<b>Design</b>		
Standard volume flow	Nm³/h	35225	- balancing grade ex works, acc. protocol G6,3 ISO 14694		
Volume flow	m³/h	50000	- impeller design with back vanes		
Total pressure rise	Pa	1743	- insulation cassette 100 mm		
Static pressure rise	Pa	1602	- screwed taper hub incl. bushing		
Dynamic pressure (outlet)	Pa	141	- fan design silicon free		
Density (at inlet)	kg/m³	0,911	- fan design BLTV Automotive Standard		
Power (impeller)	kW	29,54	- max. speed ca. 1.580 1/min, power ca. 36 kW		
Speed	1/min	1485	<b>Mounted Accessories</b>		
Frequency	Hz	50,1	- disc sealing		
Outlet velocity	m/s	17,5	- Kompensator Saugseite, Standard, T<=200°C, EI 130mm, BI 150mm, 1120x1120		
Efficiency, impeller	%	81,4	- Inlet nozzle with protection		
moment of inertia	kgm²	18,2	- cooling disk 4 with protection		
Run-up time approx.	s	8,7	- piezometer ring copper / brass		
<b>Motor Data</b>			- sound hood, mounted on motor support, with passive cooling air supply, galvanized sheet metal		
make	HELMKE		<b>Other specifications</b>		
Type	DOR225S-4-3G		- packaging EW palett + film hood		
Size	225S		- type plate film / German		
Power	kW	37	- Installation of fan inside, suspended from customer's system		
Speed	1/min	1483	- documentation Standard (EU languages)		
rated current	A	66,9			
Voltage	V	400VD/690VY			
Frequency	Hz	50(50,1)			
Design	B3				
Terminal box	up				
Efficiency class	IE3				
Ex Protection	-				
Heat class/Enclosure	F/IP55				
Startup	Freq. converter (VFD)				
Motor protection	PTC 1x3 - 150°C				
Insulated bearing NDE	-				
Roller bearing in D-side	-				
Weight	kg	314			
<b>Motor Accessories</b>					
- M8 SPM Nippel					
- silicon free					

Here, if not stated differently, according to BLTV-STANDARD. Performance data acc. DIN 24166 class 2

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Management System  
 ISO 9001:2015

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**Execution:** Inspection door  
**Closures:** Twist latch  
**Hinges:** 3D hinges

**Accessories**

Article number	Description	Weight
	Door stop made of Galv. steel	
	Gate protection door behind inspection door (can only be opened with special tools)	
	Housing heat-insulated	
	Wide parting profile	
	Measuring connection 1/2" F with plug in door	
	PTC Conductor	
	Spring dampers	

**Notes:**

Pressure measuring points lead twice to the outside in Cu 6x1 according to dimensions on device sketch (for 1xsensor + 1xhand measurement)

**(SUP) Drainage chamber**      **VZ/VZ/VZ**      **Pressure drop: 77 Pa**

Connection:

**Location:** Bottom  
**Material:** Galvanized  
**Execution:** Rigid support  
**Equipotential bonding:** Yes  
**Dimensions (W x H):** 2221 x 814

Connection:

**Location:** Roof  
**Material:** Galvanized  
**Execution:** Without  
**Equipotential bonding:** Yes

Blind flap:

**Arrangement:** Exterior  
**Material:** Aluminium  
**Execution:** Gear  
**Tightness:** Class 2  
**Control lever:** Exterior  
**Actuator:** Belimo SM24A-MA 20 Nm  
**Dimensions (W x H x D):** 414 x 414 x 115

**Dimensions (W x H):** 414 x 414  
**Grating:** 2 x Galvanized: 875x1140 for floor breakthrough

**Execution:** Inspection door  
**Closures:** Twist latch  
**Hinges:** 3D hinges

**Accessories**

Article number	Description	Weight
	Door stop and catch hook made of Galv. steel	
	Make the sewer connection socket internally screwed into the device base. (30mm SBM), expansion joint on site	



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Angle brackets prepared for installation of door contact switches  
Fabr. EUCHNER Type CES-AP-C01-AH-SB-111145With Release  
Unit CES-A-BBN-C04-115271

