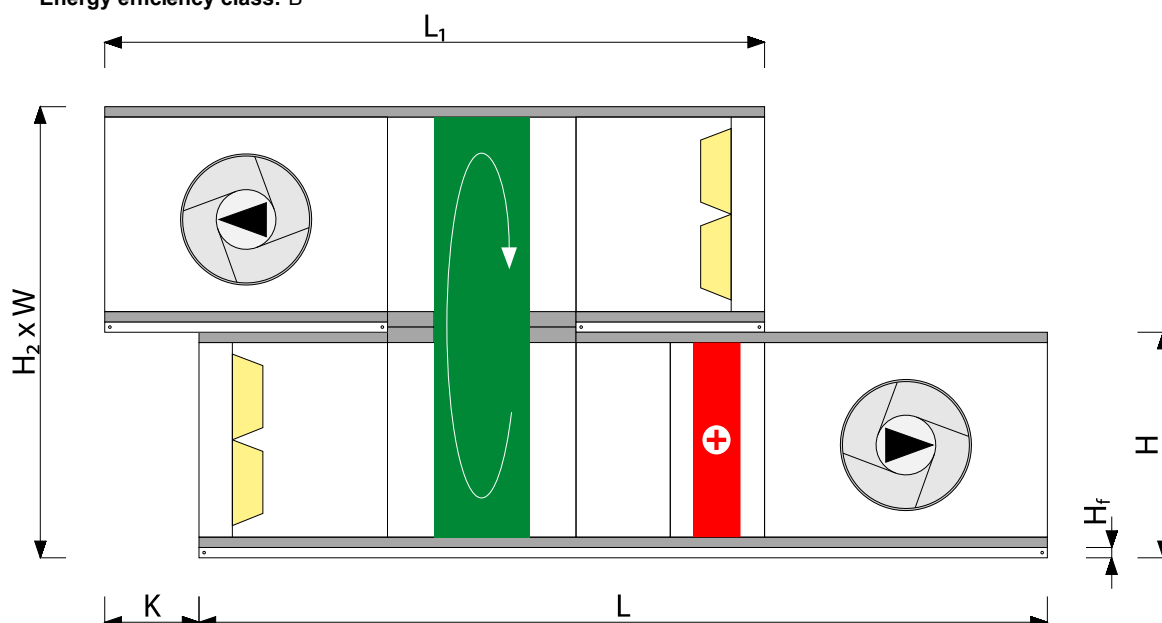


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1. PN-1
TYPE: Sup-Exh
SET: VS-21-R-RH
SIZE: 21
SUPPLY: 2600 m³/h
EXHAUST: 2600 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 250 Pa
EXTERNAL PRESSURE: 250 Pa
WEIGHT OF UNIT (+/- 10%): 334 kg
SFP: 2,76 kW/m³/s (EN 13779)
Energy efficiency class: B



OPTIONAL SETS ARE INTEGRAL PART OF BASE UNIT.

(*) Net weight of AHU including optional equipment without controls.

Unit dimensions

Dimension name	W	H	H2	Hf	L	L1	K	h _{xw}
Dimension	961	528	976	80	2953	2221	0	313x821
Supply	758,758,1490							
Exhaust	758,758							

Pamatnes rāmja ārējie izmēri ir iekļauti OMM

Supply part



Filter

Name	VS 21 B.FLT F5	Final pressure drop	250 Pa
Air pressure drop	168 Pa	Air velocity	2,94 m/s
Initial pressure drop	86 Pa	Type	EU5



Rotary exchanger

Type	VS 21 RRG.ROT.SET	Latent efficiency (winter)	27 %
Pressure drop (supply)	138 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	138 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	186 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	186 Pa	Exhaust air outlet (in summer)	24 °C
Air velocity (supply)	3,1 m/s	Sensible efficiency (summer)	0 %
Air velocity (exhaust)	3,7 m/s	Latent efficiency (summer)	0 %
Supply air intake (in winter)	-23 °C	Total recovery capacity (summer)	0 kW



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Supply air outlet (in winter)	8,8 °C	23 %	Total recovery capacity (winter)	30,4 kW
Exhaust air intake (in winter)	22 °C	30 %	Sensible recovery capacity (summer)	0 kW
Exhaust air outlet (in winter)	-10 °C	95 %	Sensible recovery capacity (winter)	27,7 kW
Sensible efficiency (winter)		71 %	Percentage of air in by-pass	0 %
Sensible efficiency (winter) balanced flow		71 %		



Water heater

Name	VS 21 WCL 2	Glycol content	0 %
Air pressure drop	67 Pa	Medium pressure drop	2,19 kPa
Air velocity	3,11 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	3,8 °C	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	Medium flow rate	0,61 m³/h
Air intake (in summer)	25,2 °C	Total heater capacity	14,23 kW
Air outlet (in summer)	25,2 °C	Header type	R 1"
Type of glycol	Ethylene		



Fan section

Fan		Frequency	69,7 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2	Rated voltage	3x230 V
Static pressure	623 Pa	Rated current	3 A
Static pressure (winter)	623,2 Pa	Rated power	0,75 kW
Dynamic pressure	99 Pa	Electric power consumption	1,008 kW
External pressure	250 Pa	Electric power consumption (winter)	1,008 kW
Static efficiency	64 %	Rated revolutions	2855 1/min
Total efficiency	74 %	Fan section	VS 21 1
Rated revolutions	3979 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power	0,713 kW		25/0,75/2
Motor	M 0,75/2P v.2	Frequency converter	VS 21-150 FC 0,75 v 1
IEC size	80		2
		Frequency converter's power supply	1x230 V
		SFPs	1,4 kW/m³/s

Sound-level table

Frequency		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Lw dB(A)
Intake	dB	70,7	76,2	74,8	68,6	61,4	51,6	45,7	74,8
Outlet	dB	78,7	85,2	85,8	82,6	79,4	74,6	70,7	87,6
Environment	dB	68,7	71,8	66,1	60,8	59,8	45,6	38,7	68,3
Sound press. **	dB(A)	45,6	56,2	55,9	53,8	54	39,6	30,6	61,3

(**) Approximate data of sound pressure.

Exhaust section



Filter

Name	VS 21 B.FLT F5	Final pressure drop	250 Pa
Air pressure drop	168 Pa	Air velocity	2,94 m/s
Initial pressure drop	86 Pa	Type	EU5



Fan section

Fan		Frequency	69,4 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2	Rated voltage	3x230 V
Static pressure	604 Pa	Rated current	3 A
Static pressure (winter)	604,2 Pa	Rated power	0,75 kW
Dynamic pressure	99 Pa	Electric power consumption	0,985 kW
External pressure	250 Pa	Electric power consumption (winter)	0,985 kW
Static efficiency	63 %	Rated revolutions	2855 1/min
Total efficiency	73 %	Fan section	VS 21 1
Rated revolutions	3961 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power	0,697 kW		25/0,75/2



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Motor	M 0,75/2P v.2	80	Frequency converter	VS 21-150 FC 0,75 v 1
IEC size			Frequency converter's power supply	2 1x230 V
			SFPe	1,36 kW/m³/s

Sound-level table

Frequency		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Lw dB(A)
Intake	dB	71,6	77,1	75,7	70,5	63,3	55,5	49,6	76
Outlet	dB	78,6	85,1	85,7	82,5	79,3	74,5	70,6	87,5
Environment	dB	68,6	71,7	66	60,7	59,7	45,5	38,6	68,2
Sound press. **	dB(A)	45,5	56,1	55,8	53,7	53,9	39,5	30,5	61,2

(**) Approximate data of sound pressure.

Options

Flexible connection	VS 21/30 FLX.CNC	1	Damper	VS 21 A.DAMP	1
	821x313			821x313	
Flexible connection	VS 21/30 FLX.CNC	1	Damper	VS 21 A.DAMP	1
	821x313			821x313	
Flexible connection	VS 21/30 FLX.CNC	1	Siphon	VS 00 SPHN	1
	821x313				
Flexible connection	VS 21/30 FLX.CNC	1			
	821x313				

Controls AR-1E

Fuse element	VS 21-150 FUSE gG	1	Throttle valve actuator	VS 00 AD.ACTR	1
	10A type10x38			ON-OFF 10Nm	
Fuse element	VS 21-150 FUSE gG	1	Valve set	VS 00 3W.VLV 4	1
	10A type10x38		Pressure control	VS 10-150	1
HMI Interface Basic	HMI BASIC UPC	1		DFF.PRSS.GG 400	
HMI Interface Advanced	HMI ADVANCED	1		Pa	
	UPC		Pressure control	VS 10-150	1
Duct temperature sensor	NTC.TEMP.SNR	4		DFF.PRSS.GG 400	
	DUCT			Pa	
Throttle valve actuator	VS 00 AD.ACTR	1	Antifreeze thermostat	VS 10-40	1
	ON-OFF/S 10Nm			FROST.THMST 2m	
			Capillary grip	VS	1
				CPLRY.GRIP.SET	
				3#	

Control box VS 10-75 CG UPC