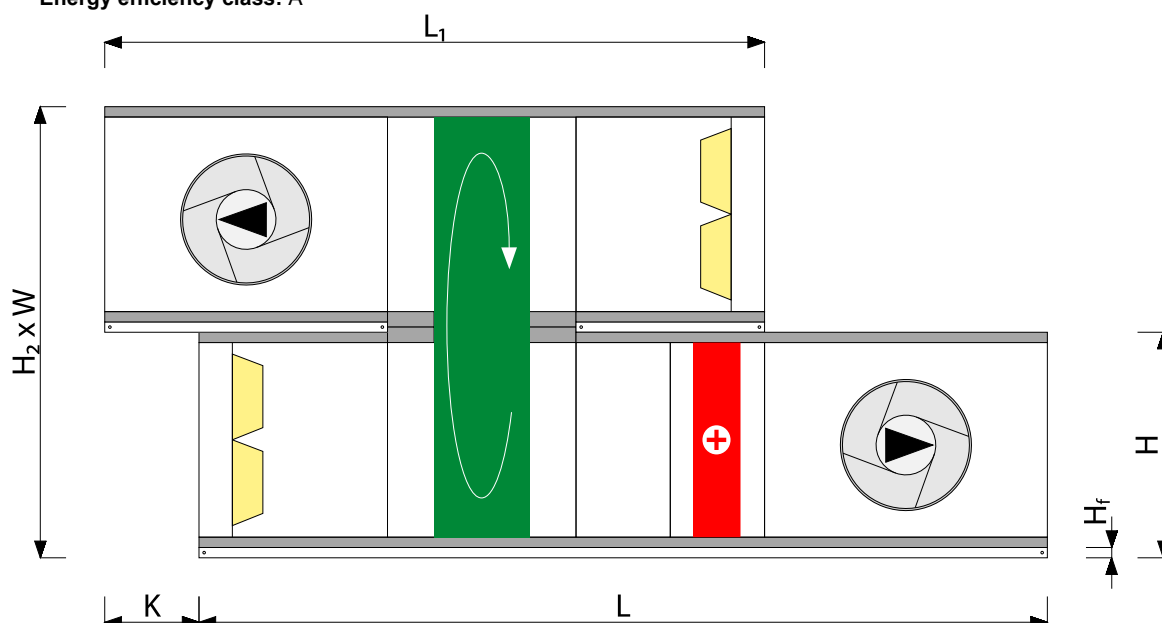


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3. PN-3; 2 Stava klases
TYPE: Sup-Exh
SET: VS-21-R-RH
SIZE: 21
SUPPLY: 1320 m³/h
EXHAUST: 1320 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 250 Pa
EXTERNAL PRESSURE: 250 Pa
WEIGHT OF UNIT (+/- 10%): 334 kg
SFP: 1,89 kW/m³/s (EN 13779)
Energy efficiency class: A



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 x w
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	136 Pa	Air velocity	1,49 m/s
Initial pressure drop	22 Pa	Type	EU5



Rotary exchanger

Type	VS 21 RRG.ROT.SET	Latent efficiency (winter)	14 %
Pressure drop (supply)	67 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	67 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	90 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	90 Pa	Exhaust air outlet (in summer)	24 °C
Air velocity (supply)	1,6 m/s	Sensible efficiency (summer)	0 %
Air velocity (exhaust)	1,9 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)	13,6 °C	8 %	Total recovery capacity (winter)	16,7 kW
Exhaust air intake (in winter)	22 °C	20 %	Sensible recovery capacity	0 kW
Exhaust air outlet (in winter)	-14,9 °C	95 %	(summer)	
Sensible efficiency (winter)		81 %	Sensible recovery capacity (winter)	16,2 kW
Sensible efficiency (winter)		81 %	Percentage of air in by-pass	0 %
balanced flow				

**Water heater**

Name	VS 21 WCL 2		Glycol content	0 %
Air pressure drop		22 Pa	Medium pressure drop	0,51 kPa
Air velocity		1,62 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	8,6 °C	12 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	5 %	Medium flow rate	0,22 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	5,07 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 1"
Type of glycol	Ethylene			

**Fan section**

Fan			Frequency	45,7 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		475 Pa	Rated current	3 A
Static pressure (winter)		475,1 Pa	Rated power	0,75 kW
Dynamic pressure		25 Pa	Electric power consumption	0,345 kW
External pressure		250 Pa	Electric power consumption (winter)	0,345 kW
Static efficiency		71 %	Rated revolutions	2855 1/min
Total efficiency		75 %	Fan section	VS 21 1
Rated revolutions		2610 1/min	DRCT.DR.PLUG.FAN.SET	25/0,75/2
Shaft power		0,245 kW		
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	0,94 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	62,1	67,6	66,2	60	52,8	43	37,1	66,2
Outlet	dB	70,1	76,6	77,2	74	70,8	66	62,1	79
Environment	dB	60,1	63,2	57,5	52,2	51,2	37	30,1	59,7
Sound press. **	dB(A)	37	47,6	47,3	45,2	45,4	31	22	52,7

(**) Approximate data of sound pressure.

Exhaust section**Filter**

Name	VS 21 B.FLT F5		Final pressure drop	250 Pa
Air pressure drop		136 Pa	Air velocity	1,49 m/s
Initial pressure drop		22 Pa	Type	EU5

**Fan section**

Fan			Frequency	45,7 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		476 Pa	Rated current	3 A
Static pressure (winter)		476,1 Pa	Rated power	0,75 kW
Dynamic pressure		25 Pa	Electric power consumption	0,346 kW
External pressure		250 Pa	Electric power consumption (winter)	0,346 kW
Static efficiency		71 %	Rated revolutions	2855 1/min
Total efficiency		75 %	Fan section	VS 21 1
Rated revolutions		2612 1/min	DRCT.DR.PLUG.FAN.SET	25/0,75/2
Shaft power		0,245 kW		



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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	0,94 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	63,2	68,7	67,3	62,1	54,9	47,1	41,2	67,6
Outlet	dB	70,2	76,7	77,3	74,1	70,9	66,1	62,2	79
Environment	dB	60,2	63,3	57,6	52,3	51,3	37,1	30,2	59,7
Sound press. **	dB(A)	37,1	47,7	47,4	45,3	45,5	31,1	22,1	52,7

(**) 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	Valve set	VS 00 3W.VLV 2,5 1
	10A type10x38	Pressure control	VS 10-150 1
Fuse element	VS 21-150 FUSE gG 1		DFF.PRSS.GG 400
	10A type10x38		Pa
HMI Interface Basic	HMI BASIC UPC 1	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
Throttle valve actuator	VS 00 AD.ACTR 1	Capillary grip	VS 1
	ON-OFF 10Nm		CPLRY.GRIP.SET
			3#

Control box VS 10-75 CG UPC