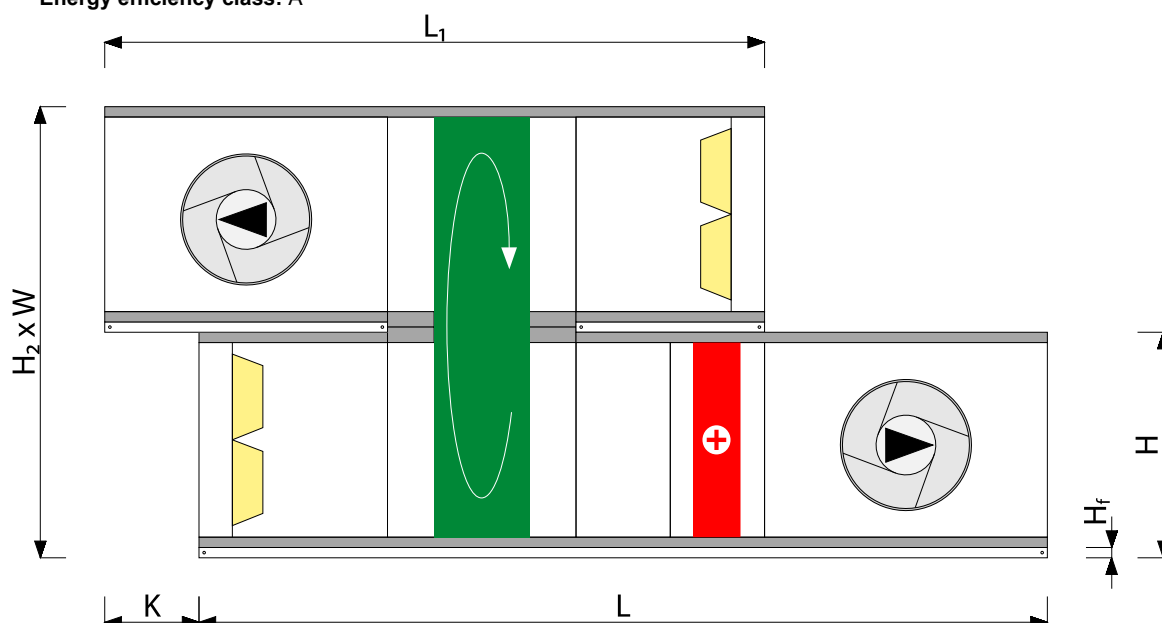


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2. PN-2; Klases
TYPE: Sup-Exh
SET: VS-21-R-RH
SIZE: 21
SUPPLY: 1902 m³/h
EXHAUST: 1902 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 350 Pa
EXTERNAL PRESSURE: 350 Pa
WEIGHT OF UNIT (+/- 10%): 334 kg
SFP: 2,55 kW/m³/s (EN 13779)
Energy efficiency 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	hxw
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	148 Pa	Air velocity	2,15 m/s
Initial pressure drop	46 Pa	Type	EU5



Rotary exchanger

Type	VS 21 RRG.ROT.SET	Latent efficiency (winter)	29 %
Pressure drop (supply)	98 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	98 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	132 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	132 Pa	Exhaust air outlet (in summer)	24 °C
Air velocity (supply)	2,3 m/s	Sensible efficiency (summer)	0 %
Air velocity (exhaust)	2,7 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)	11,2 °C	21 %	Total recovery capacity (winter)	23,9 kW
Exhaust air intake (in winter)	22 °C	30 %	Sensible recovery capacity	0 kW
Exhaust air outlet (in winter)	-12,6 °C	95 %	(summer)	
Sensible efficiency (winter)		76 %	Sensible recovery capacity (winter)	21,8 kW
Sensible efficiency (winter)		76 %	Percentage of air in by-pass	0 %
balanced flow				

**Water heater**

Name	VS 21 WCL 2		Glycol content	0 %
Air pressure drop		40 Pa	Medium pressure drop	1,04 kPa
Air velocity		2,31 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	6,2 °C	29 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	12 %	Medium flow rate	0,38 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	8,87 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 1"
Type of glycol	Ethylene			

**Fan section**

Fan			Frequency	57,9 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		636 Pa	Rated current	3 A
Static pressure (winter)		636,1 Pa	Rated power	0,75 kW
Dynamic pressure		53 Pa	Electric power consumption	0,677 kW
External pressure		350 Pa	Electric power consumption (winter)	0,677 kW
Static efficiency		70 %	Rated revolutions	2855 1/min
Total efficiency		76 %	Fan section	VS 21 1
Rated revolutions		3308 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power		0,479 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	1,28 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	66,9	72,4	71	64,8	57,6	47,8	41,9	70,9
Outlet	dB	74,9	81,4	82	78,8	75,6	70,8	66,9	83,8
Environment	dB	64,9	68	62,3	57	56	41,8	34,9	64,5
Sound press. **	dB(A)	41,8	52,4	52,1	50	50,2	35,8	26,8	57,5

(**) Approximate data of sound pressure.

Exhaust section**Filter**

Name	VS 21 B.FLT F5		Final pressure drop	250 Pa
Air pressure drop		148 Pa	Air velocity	2,15 m/s
Initial pressure drop		46 Pa	Type	EU5

**Fan section**

Fan			Frequency	57,8 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		630 Pa	Rated current	3 A
Static pressure (winter)		630,1 Pa	Rated power	0,75 kW
Dynamic pressure		53 Pa	Electric power consumption	0,671 kW
External pressure		350 Pa	Electric power consumption (winter)	0,671 kW
Static efficiency		70 %	Rated revolutions	2855 1/min
Total efficiency		76 %	Fan section	VS 21 1
Rated revolutions		3300 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power		0,475 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	1,27 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	67,8	73,3	71,9	66,7	59,5	51,7	45,8	72,2
Outlet	dB	74,8	81,3	81,9	78,7	75,5	70,7	66,8	83,7
Environment	dB	64,8	67,9	62,2	56,9	55,9	41,7	34,8	64,4
Sound press. **	dB(A)	41,7	52,3	52	49,9	50,1	35,7	26,7	57,4

(**) 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 4	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