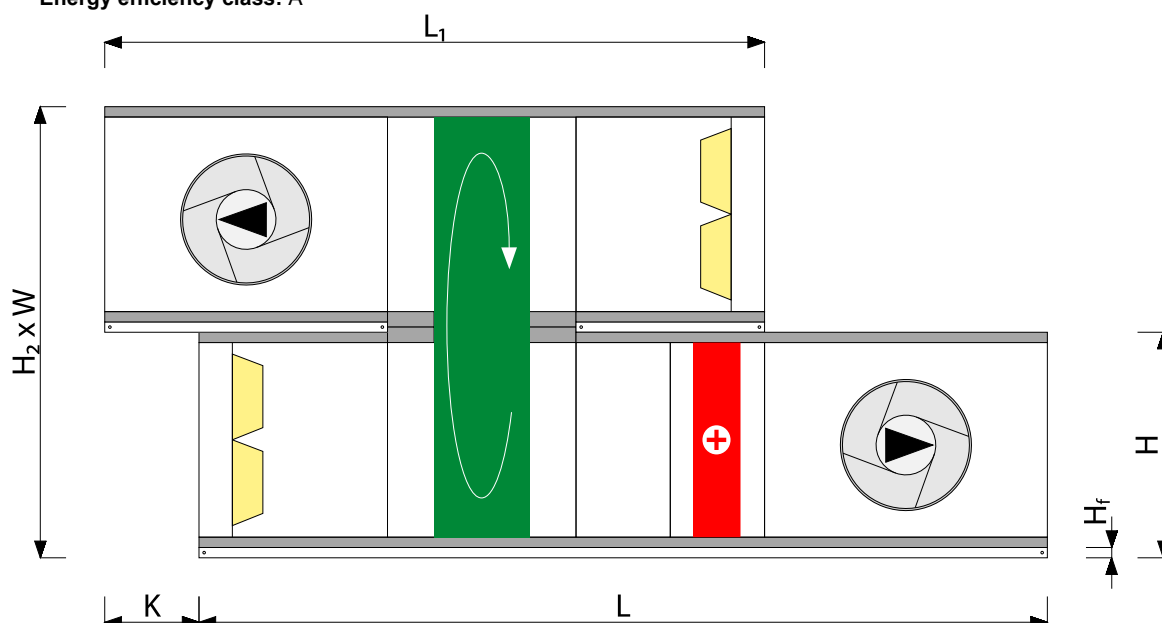


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2. PN-2; Sporta Zale  
**TYPE:** Sup-Exh  
**SET:** VS-55-R-RH  
**SIZE:** 55  
**SUPPLY:** 6000 m<sup>3</sup>/h  
**EXHAUST:** 6000 m<sup>3</sup>/h  
**INSULATION THICKNESS:** 40 mm  
**EXTERNAL PRESSURE:** 300 Pa  
**EXTERNAL PRESSURE:** 300 Pa  
**WEIGHT OF UNIT (+/- 10%):** 551 kg  
**SFP:** 2,27 kW/m<sup>3</sup>/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	Lt	h x w
<b>Dimension</b>	1339	795	1510	80	3318	2587	366	3684	575x1199
Supply	758,758,1856								
Exhaust	758,1124								

Pamatnes rāmja ārējie izmēri ir iekļauti OMM

### Supply part



#### Filter

Name	VS 55 P.FLT G4	Final pressure drop	150 Pa
Air pressure drop	97 Pa	Air velocity	2,12 m/s
Initial pressure drop	44 Pa	Type	DEU4



#### Rotary exchanger

Type	VS 55 RRG.ROT.SET	Latent efficiency (winter)	28 %
Pressure drop (supply)	117 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	117 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	157 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	157 Pa	Exhaust air outlet (in summer)	24 °C
Air velocity (supply)	2,7 m/s	Sensible efficiency (summer)	0 %
Air velocity (exhaust)	3,1 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)	10 °C	22 %	Total recovery capacity (winter)	72,8 kW
Exhaust air intake (in winter)	22 °C	30 %	Sensible recovery capacity	0 kW
Exhaust air outlet (in winter)	-11,3 °C	95 %	(summer)	
Sensible efficiency (winter)		73 %	Sensible recovery capacity (winter)	66,3 kW
Sensible efficiency (winter)		73 %	Percentage of air in by-pass	0 %
balanced flow				



## Water heater

Name	VS 55 WCL 2	Glycol content	0 %
Air pressure drop	52 Pa	Medium pressure drop	1,47 kPa
Air velocity	2,68 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	5 °C	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	Medium flow rate	1,31 m³/h
Air intake (in summer)	25,2 °C	Total heater capacity	30,37 kW
Air outlet (in summer)	25,2 °C	Header type	R 1 1/4"
Type of glycol	Ethylene		



## Fan section

Fan		Frequency	81,4 Hz
Name	VS 55 DRCT.DR.FAN 1 v.2	Rated voltage	3x230 V
Static pressure	566 Pa	Rated current	8,14 A
Static pressure (winter)	565,9 Pa	Rated power	2,2 kW
Dynamic pressure	83 Pa	Electric power consumption	1,881 kW
External pressure	300 Pa	Electric power consumption (winter)	1,881 kW
Static efficiency	64 %	Rated revolutions	1420 1/min
Total efficiency	74 %	Fan section	VS 55 1
Rated revolutions	2312 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power	1,478 kW		40/2,2/4
Motor	M 2,2/4P v.2	Frequency converter	VS 21-150 FC 2,2 v 1
IEC size	100		3
		Frequency converter's power supply	1x230 V
		SFPs	1,13 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	73	78,5	78,1	72,9	67,7	58,9	54	78,5
Outlet	dB	79	85,5	86,1	82,9	79,7	74,9	71	87,9
Environment	dB	69	72,1	66,4	61,1	60,1	45,9	39	68,6
Sound press. **	dB(A)	45,9	56,5	56,2	54,1	54,3	39,9	30,9	61,6

(\*\*) Approximate data of sound pressure.

## Exhaust section



## Filter

Name	VS 55 P.FLT G4	Final pressure drop	150 Pa
Air pressure drop	97 Pa	Air velocity	2,12 m/s
Initial pressure drop	44 Pa	Type	DEU4



## Fan section

Fan		Frequency	81,1 Hz
Name	VS 55 DRCT.DR.FAN 01 v.2	Rated voltage	3x230 V
		Rated current	5,89 A
Static pressure	554 Pa	Rated power	1,5 kW
Static pressure (winter)	553,9 Pa	Electric power consumption	1,91 kW
Dynamic pressure	83 Pa	Electric power consumption (winter)	1,91 kW
External pressure	300 Pa	Rated revolutions	1420 1/min
Static efficiency	64 %	Fan section	VS 55 1
Total efficiency	74 %		DRCT.DR.PLUG.FAN.SET
Rated revolutions	2304 1/min		40/1,5/4



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Shaft power	1,454 kW	Frequency converter	VS 21-150 FC 1,5 v 1
Motor	M 1,5/4P v.2		2
IEC size	90	Frequency converter's power supply	1x230 V
		SFPe	1,15 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	74	79,5	79,1	74,9	69,7	62,9	58	79,9
Outlet	dB	79	85,5	86,1	82,9	79,7	74,9	71	87,8
Environment	dB	69	72,1	66,4	61,1	60,1	45,9	39	68,5
Sound press. **	dB(A)	45,9	56,5	56,2	54,1	54,3	39,9	30,9	61,5

(\*\*) Approximate data of sound pressure.

### Options

Flexible connection	VS 55-100 FLX.CNC 1	Damper	VS 55/100/120 1
	1199x575		A.DAMP 1199x575
Flexible connection	VS 55-100 FLX.CNC 1	Damper	VS 55/100/120 1
	1199x575		A.DAMP 1199x575
Flexible connection	VS 55-100 FLX.CNC 1	Siphon	VS 00 SPHN 1
	1199x575		
Flexible connection	VS 55-100 FLX.CNC 1		
	1199x575		

### Controls AR-1E

Fuse element	VS 21-150 FUSE gG 1	Valve set	VS 00 3W.VLV 10 1
	20A type10x38	Pressure control	VS 10-150 1
Fuse element	VS 21-150 FUSE gG 1		DFF.PRSS.GG 400
	20A 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 55-150 1
	ON-OFF/S 10Nm		FROST.THMST 6m
Throttle valve actuator	VS 00 AD.ACTR 1	Capillary grip	VS 2
	ON-OFF 10Nm		CPLRY.GRIP.SET
			3#

### Control box VS 10-75 CG UPC