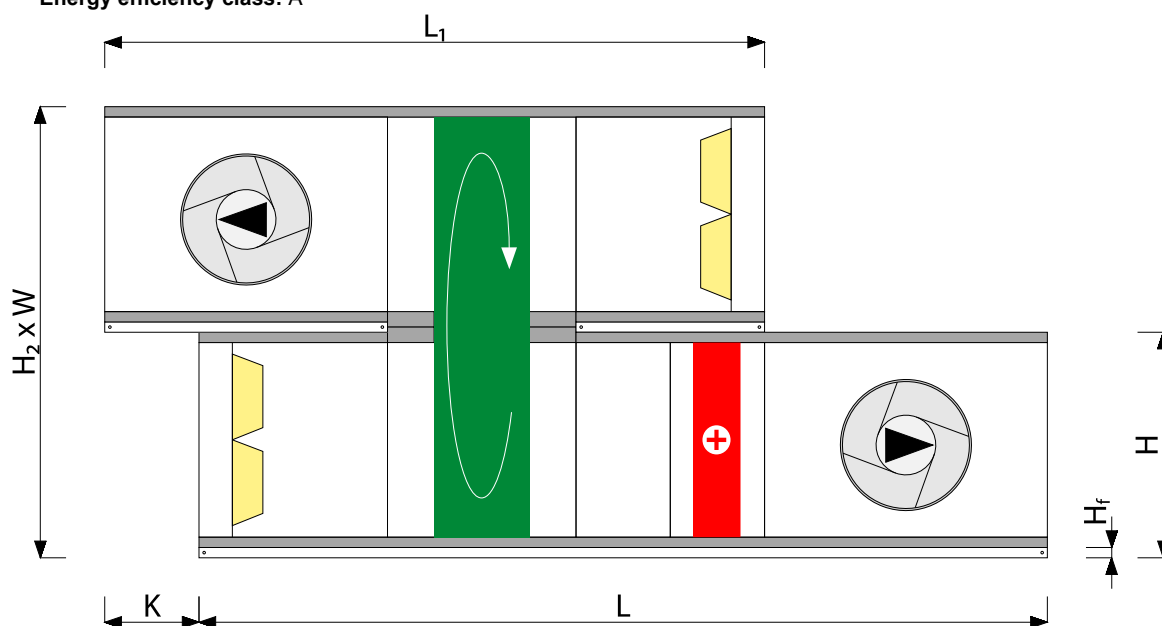


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2. PN-1; Jaunais korpuss (Sporta Zale)  
**TYPE:** Sup-Exh  
**SET:** VS-30-R-RH  
**SIZE:** 30  
**SUPPLY:** 3200 m<sup>3</sup>/h  
**EXHAUST:** 3200 m<sup>3</sup>/h  
**INSULATION THICKNESS:** 40 mm  
**EXTERNAL PRESSURE:** 250 Pa  
**EXTERNAL PRESSURE:** 250 Pa  
**WEIGHT OF UNIT (+/- 10%):** 378 kg  
**SFP:** 2,38 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	h x w
<b>Dimension</b>	961	660	1240	80	2953	2221	0	440x821
Supply	758,758,1490							
Exhaust	758,758							

Pamatnes rāmja ārējie izmēri ir iekļauti OMM

### Supply part



#### Filter

Name	VS 30 B.FLT F5	Final pressure drop	250 Pa
Air pressure drop	154 Pa	Air velocity	2,43 m/s
Initial pressure drop	59 Pa	Type	EU5



#### Rotary exchanger

Type	VS 30 RRG.ROT.SET	Latent efficiency (winter)	28 %
Pressure drop (supply)	166 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	166 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	223 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	223 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)	10,1 °C	22 %	Total recovery capacity (winter)	38,9 kW
Exhaust air intake (in winter)	22 °C	30 %	Sensible recovery capacity	0 kW
Exhaust air outlet (in winter)	-11,4 °C	95 %	(summer)	
Sensible efficiency (winter)		74 %	Sensible recovery capacity (winter)	35,5 kW
Sensible efficiency (winter)		74 %	Percentage of air in by-pass	0 %
balanced flow				

**Water heater**

Name	VS 30 WCL 2		Glycol content	0 %
Air pressure drop		53 Pa	Medium pressure drop	1,72 kPa
Air velocity		2,71 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	5,1 °C	31 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	12 %	Medium flow rate	0,69 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	16,08 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 1"
Type of glycol	Ethylene			

**Fan section**

Fan			Frequency	47 Hz
Name	VS 30 DRCT.DR.FAN 2 v.2		Rated voltage	3x230 V
Static pressure		623 Pa	Rated current	5,89 A
Static pressure (winter)		623,4 Pa	Rated power	1,5 kW
Dynamic pressure		60 Pa	Electric power consumption	1,056 kW
External pressure		250 Pa	Electric power consumption (winter)	1,056 kW
Static efficiency		69 %	Rated revolutions	2860 1/min
Total efficiency		76 %	Fan section	VS 30 1
Rated revolutions		2688 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power		0,804 kW		31/1,5/2
Motor	M 1,5/2P v.2		Frequency converter	VS 21-150 FC 1,5 v 1
IEC size		90		2
			Frequency converter's power supply	1x230 V
			SFPs	1,19 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	68,6	74,1	72,7	66,5	59,3	49,5	43,6	72,6
Outlet	dB	76,6	83,1	83,7	80,5	77,3	72,5	68,6	85,4
Environment	dB	66,6	69,7	64	58,7	57,7	43,5	36,6	66,2
Sound press. **	dB(A)	43,5	54,1	53,8	51,7	51,9	37,5	28,5	59,2

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

**Exhaust section****Filter**

Name	VS 30 B.FLT F5		Final pressure drop	250 Pa
Air pressure drop		154 Pa	Air velocity	2,43 m/s
Initial pressure drop		59 Pa	Type	EU5

**Fan section**

Fan			Frequency	47,1 Hz
Name	VS 30 DRCT.DR.FAN 2 v.2		Rated voltage	3x230 V
Static pressure		627 Pa	Rated current	5,89 A
Static pressure (winter)		627,4 Pa	Rated power	1,5 kW
Dynamic pressure		60 Pa	Electric power consumption	1,062 kW
External pressure		250 Pa	Electric power consumption (winter)	1,062 kW
Static efficiency		70 %	Rated revolutions	2860 1/min
Total efficiency		76 %	Fan section	VS 30 1
Rated revolutions		2692 1/min		DRCT.DR.PLUG.FAN.SET
Shaft power		0,808 kW		31/1,5/2



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Motor	M 1,5/2P v.2	90	Frequency converter	VS 21-150 FC 1,5 v	1
IEC size			Frequency converter's power supply	2	1x230 V
			SFPe		1,19 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	69,6	75,1	73,7	68,5	61,3	53,5	47,6	74
Outlet	dB	76,6	83,1	83,7	80,5	77,3	72,5	68,6	85,5
Environment	dB	66,6	69,7	64	58,7	57,7	43,5	36,6	66,2
Sound press. **	dB(A)	43,5	54,1	53,8	51,7	51,9	37,5	28,5	59,2

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

### Options

Flexible connection	VS 30-55 FLX.CNC	1	Damper	VS 30/55 A.DAMP	1
	821x440			821x440	
Flexible connection	VS 30-55 FLX.CNC	1	Damper	VS 30/55 A.DAMP	1
	821x440			821x440	
Flexible connection	VS 30-55 FLX.CNC	1	Siphon	VS 00 SPHN	1
	821x440				
Flexible connection	VS 30-55 FLX.CNC	1			
	821x440				

### Controls AR-1E

Fuse element	VS 21-150 FUSE gG	1	Valve set	VS 00 3W.VLV 4	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 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