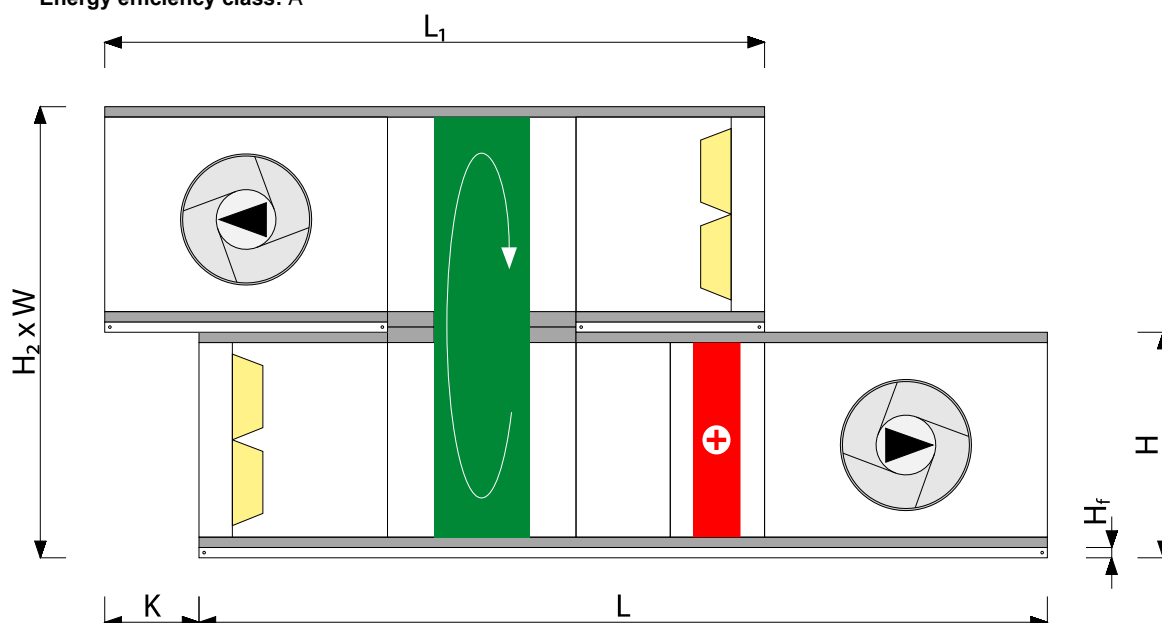


OFFER NUMBER: 713/LV/2012

2. PN-2; 1,2,3 stavs
TYPE: Sup-Exh
SET: VS-21-R-RH
SIZE: 21
SUPPLY: 2219 m³/h
EXHAUST: 2219 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 400 Pa
EXTERNAL PRESSURE: 400 Pa
WEIGHT OF UNIT (+/- 10%): 334 kg
SFP: 2,95 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	156 Pa	Air velocity	2,51 m/s
Initial pressure drop	63 Pa	Type	EU5



Rotary exchanger

Type	VS 21 RRG.ROT.SET	Latent efficiency (winter)	28 %
Pressure drop (supply)	116 Pa	Supply air intake (in summer)	25,2 °C
Pressure drop (supply - winter)	116 Pa	Supply air outlet (in summer)	25,2 °C
Pressure drop (exhaust)	156 Pa	Exhaust air intake (in summer)	24 °C
Pressure drop (exhaust - winter)	156 Pa	Exhaust air outlet (in summer)	24 °C
Air velocity (supply)	2,6 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



OFFER NUMBER: 713/LV/2012

Supply air outlet (in winter)	10 °C	22 %	Total recovery capacity (winter)	26,9 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)		73 %	Sensible recovery capacity (winter)	24,6 kW
Sensible efficiency (winter)		73 %	Percentage of air in by-pass	0 %
balanced flow				

**Water heater**

Name	VS 21 WCL 2		Glycol content	0 %
Air pressure drop		52 Pa	Medium pressure drop	1,49 kPa
Air velocity		2,67 m/s	Inlet temp. of medium	80 °C
Air intake (in winter)	5 °C	31 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	12 %	Medium flow rate	0,48 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	11,21 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 1"
Type of glycol	Ethylene			

**Fan section**

Fan			Frequency	64,8 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		724 Pa	Rated current	3 A
Static pressure (winter)		724,5 Pa	Rated power	0,75 kW
Dynamic pressure		72 Pa	Electric power consumption	0,916 kW
External pressure		400 Pa	Electric power consumption (winter)	0,916 kW
Static efficiency		69 %	Rated revolutions	2855 1/min
Total efficiency		76 %	Fan section	VS 21 1
Rated revolutions		3700 1/min	DRCT.DR.PLUG.FAN.SET	25/0,75/2
Shaft power		0,648 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	1,49 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	69,2	74,7	73,3	67,1	59,9	50,1	44,2	73,3
Outlet	dB	77,2	83,7	84,3	81,1	77,9	73,1	69,2	86,1
Environment	dB	67,2	70,3	64,6	59,3	58,3	44,1	37,2	66,8
Sound press. **	dB(A)	44,1	54,7	54,4	52,3	52,5	38,1	29,1	59,8

(**) Approximate data of sound pressure.

Exhaust section**Filter**

Name	VS 21 B.FLT F5		Final pressure drop	250 Pa
Air pressure drop		156 Pa	Air velocity	2,51 m/s
Initial pressure drop		63 Pa	Type	EU5

**Fan section**

Fan			Frequency	64,6 Hz
Name	VS 21 DRCT.DR.FAN 1 v.2		Rated voltage	3x230 V
Static pressure		712 Pa	Rated current	3 A
Static pressure (winter)		712,5 Pa	Rated power	0,75 kW
Dynamic pressure		72 Pa	Electric power consumption	0,902 kW
External pressure		400 Pa	Electric power consumption (winter)	0,902 kW
Static efficiency		69 %	Rated revolutions	2855 1/min
Total efficiency		76 %	Fan section	VS 21 1
Rated revolutions		3687 1/min	DRCT.DR.PLUG.FAN.SET	25/0,75/2
Shaft power		0,639 kW		



OFFER NUMBER: 713/LV/2012

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	1,46 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	70,1	75,6	74,2	69	61,8	54	48,1	74,5
Outlet	dB	77,1	83,6	84,2	81	77,8	73	69,1	86
Environment	dB	67,1	70,2	64,5	59,2	58,2	44	37,1	66,7
Sound press. **	dB(A)	44	54,6	54,3	52,2	52,4	38	29	59,7

(**) 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	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