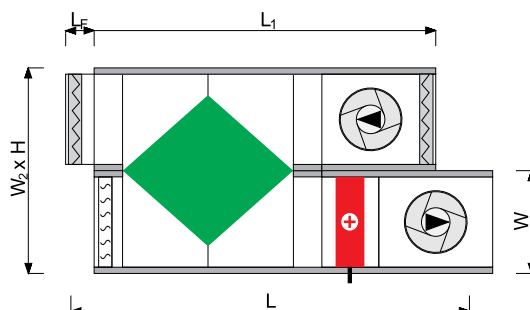


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1. PN-1; Virtuve
TYPE: Sup-Exh
SET: VS-10-R-PH-T
SIZE: 10
SUPPLY: 1177 m³/h
EXHAUST: 1177 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 400 Pa
EXTERNAL PRESSURE: 400 Pa
WEIGHT OF UNIT (+/- 10%) *: 202 kg
SFP: 2,38 kW/m³/s (EN 13779)
Energy efficiency class: C



OPTIONAL SETS ARE INTEGRAL PART OF BASE UNIT.

(*) Net weight of AHU including optional equipment without controls.

Unit dimensions

Dimension name	W	H	W2	Hf	L	K	Lf	Lt	h x w
Dimension	660	360	1330	0	1883	0	95	1978	220x500

Supply part



Filter

Name	VS 10 P.FLT G4	Final pressure drop	150 Pa
Air pressure drop	80 Pa	Air velocity	1 m/s
Initial pressure drop	10 Pa	Type	DEU4



Plate exchanger

Type	VS 10 PCR	Latent efficiency (winter)	0 %
Pressure drop (supply)	100 Pa	Supply air intake (in summer)	25,2 °C 60 %
Pressure drop (supply - winter)	100 Pa	Supply air outlet (in summer)	25,2 °C 60 %
Pressure drop (exhaust)	114 Pa	Exhaust air intake (in summer)	24 °C 50 %
Pressure drop (exhaust - winter)	114 Pa	Exhaust air outlet (in summer)	24 °C 50 %
Supply air intake (in winter)	-23 °C 80 %	Sensible efficiency (summer)	0 %
Supply air outlet (in winter)	-0,1 °C 10 %	Latent efficiency (summer)	0 %
Exhaust air intake (in winter)	22 °C 30 %	Total recovery capacity (summer)	0 kW
Exhaust air outlet (in winter)	1,3 °C 100 %	Total recovery capacity (winter)	9,1 kW
Sensible efficiency (winter)	51 %	Sensible recovery capacity	0 kW
Sensible efficiency (winter)	51 %	(summer)	
balanced flow		Sensible recovery capacity (winter)	9,1 kW



Water heater

Name	VS 10 WCL 2	Glycol content	0 %
Air pressure drop	44 Pa	Medium pressure drop	3,46 kPa
Air velocity	2,66 m/s	Inlet temp. of medium	80 °C

LAPA: 1/3



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Air intake (in winter)	-5,1 °C	15 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	3 %	Medium flow rate	0,43 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	9,92 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 3/4"
Type of glycol	Ethylene			

**Fan section**

Fan		Frequency	60,1 Hz
Name	VS 10 DRCT.DR.FAN	Rated voltage	3x230 V
Static pressure	624 Pa	Rated current	2,35 A
Static pressure (winter)	623,8 Pa	Rated power	0,55 kW
Dynamic pressure	32 Pa	Electric power consumption	0,396 kW
External pressure	400 Pa	Electric power consumption (winter)	0,396 kW
Static efficiency	71 %	Rated revolutions	2790 1/min
Total efficiency	75 %	Fan section	VS 10 1
Rated revolutions	3355 1/min		DRCT.DR.PLUG.FAN.ASM
Shaft power	0,288 kW		225/0,55/2
Motor	VS EL.MTR M 0,55/2	Frequency converter	VS 21-150 FC 0,75 v 1
IEC size	71		2
		Frequency converter's power supply	1x230 V
		SFPs	1,21 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	66,5	72	72,6	67,4	65,2	56,4	52,5	73,3
Outlet	dB	72,5	79	79,6	76,4	73,2	68,4	64,5	81,4
Environment	dB	62,5	65,6	59,9	54,6	53,6	39,4	32,5	62,1
Sound press. **	dB(A)	39,4	50	49,7	47,6	47,8	33,4	24,4	55,1

(**) Approximate data of sound pressure.

Exhaust section**Filter**

Name	VS 10 P.FLT G4	Final pressure drop	150 Pa
Air pressure drop	80 Pa	Air velocity	1 m/s
Initial pressure drop	10 Pa	Type	DEU4

**Fan section**

Fan		Frequency	59,4 Hz
Name	VS 10 DRCT.DR.FAN	Rated voltage	3x230 V
Static pressure	601 Pa	Rated current	2,35 A
Static pressure (winter)	600,8 Pa	Rated power	0,55 kW
Dynamic pressure	32 Pa	Electric power consumption	0,382 kW
External pressure	400 Pa	Electric power consumption (winter)	0,382 kW
Static efficiency	71 %	Rated revolutions	2790 1/min
Total efficiency	75 %	Fan section	VS 10 1
Rated revolutions	3315 1/min		DRCT.DR.PLUG.FAN.ASM
Shaft power	0,278 kW		225/0,55/2
Motor	VS EL.MTR M 0,55/2	Frequency converter	VS 21-150 FC 0,75 v 1
IEC size	71		2
		Frequency converter's power supply	1x230 V
		SFPe	1,17 kW/m³/s

Moisture eliminator

Name	VS 10 DRP.ELTR	Air pressure drop	7 Pa
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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	75,7	76,3	73,1	69,9	64,1	60,2	78

LAPA: 2/3



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Frequency		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Lw dB(A)
Outlet	dB	68,2	73,7	73,3	69,1	63,9	52,1	46,2	74
Environment	dB	62,2	65,3	59,6	54,3	53,3	39,1	32,2	61,8
Sound press. **	dB(A)	39,1	49,7	49,4	47,3	47,5	33,1	24,1	54,8

(**) Approximate data of sound pressure.

Options

Flexible connection	VS 10/21/30	1	Flexible connection	VS 10/21/30	1
	FLX.CNC 500x220			FLX.CNC 500x220	
Flexible connection	VS 10/21/30	1	Damper	VS 10/21/30	1
	FLX.CNC 500x220			A.DAMP 500x220	
Flexible connection	VS 10/21/30	1	Damper	VS 10/21/30	1
	FLX.CNC 500x220			A.DAMP 500x220	

Controls AP-1E

Fuse element	VS 21-150 FUSE gG	1	Throttle valve actuator	VS 00 AD.ACTR	1
	10A type10x38			0-10/S 10Nm	
Fuse element	VS 21-150 FUSE gG	1	Throttle valve actuator	VS 00 AD.ACTR	1
	10A type10x38			ON-OFF 10Nm	
HMI Interface Basic	HMI BASIC UPC	1	Valve set	VS 00 3W.VLV 2,5	1
HMI Interface Advanced	HMI ADVANCED	1	Pressure control	VS 10-150	1
	UPC			DFF.PRSS.GG 400	
Duct temperature sensor	NTC.TEMP.SNR	4		Pa	
	DUCT		Pressure control	VS 10-150	1
				DFF.PRSS.GG 400	
				Pa	

Control box VS 10-75 CG UPC