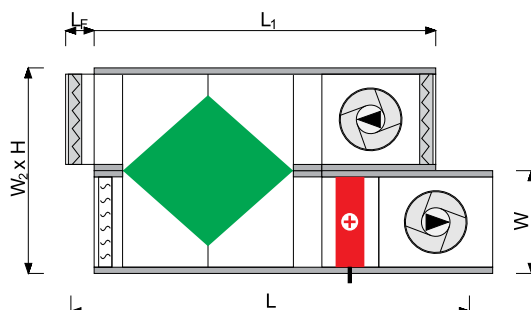


**OFFER NUMBER: 716/LV/2012**

2. PN-2; Virtuve  
**TYPE:** Sup-Exh  
**SET:** VS-10-R-PH-T  
**SIZE:** 10  
**SUPPLY:** 981 m³/h  
**EXHAUST:** 981 m³/h  
**INSULATION THICKNESS:** 40 mm  
**EXTERNAL PRESSURE:** 200 Pa  
**EXTERNAL PRESSURE:** 200 Pa  
**WEIGHT OF UNIT (+/- 10%) \*:** 202 kg  
**SFP:** 1,45 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	78 Pa	Air velocity	0,83 m/s
Initial pressure drop	7 Pa	Type	DEU4



#### Plate exchanger

Type	VS 10 PCR	Latent efficiency (winter)	0 %
Pressure drop (supply)	72 Pa	Supply air intake (in summer)	25,2 °C 60 %
Pressure drop (supply - winter)	72 Pa	Supply air outlet (in summer)	25,2 °C 60 %
Pressure drop (exhaust)	81 Pa	Exhaust air intake (in summer)	24 °C 50 %
Pressure drop (exhaust - winter)	81 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)	1,5 °C 9 %	Latent efficiency (summer)	0 %
Exhaust air intake (in winter)	22 °C 40 %	Total recovery capacity (summer)	0 kW
Exhaust air outlet (in winter)	2,5 °C 100 %	Total recovery capacity (winter)	8 kW
Sensible efficiency (winter)	54 %	Sensible recovery capacity	0 kW
Sensible efficiency (winter)	54 %	(summer)	
balanced flow		Sensible recovery capacity (winter)	8 kW



#### Water heater

Name	VS 10 WCL 2	Glycol content	0 %
Air pressure drop	32 Pa	Medium pressure drop	2,29 kPa
Air velocity	2,24 m/s	Inlet temp. of medium	80 °C

**LAPA: 1/3**



OFFER NUMBER: 716/LV/2012

Air intake (in winter)	-3,5 °C	14 %	Outlet temp. of medium	60 °C
Air outlet (in winter)	20 °C	3 %	Medium flow rate	0,33 m³/h
Air intake (in summer)	25,2 °C	60 %	Total heater capacity	7,77 kW
Air outlet (in summer)	25,2 °C	60 %	Header type	R 3/4"
Type of glycol	Ethylene			

**Fan section**

Fan		Frequency	48,2 Hz
Name	VS 10 DRCT.DR.FAN	Rated voltage	3x230 V
Static pressure	382 Pa	Rated current	2,35 A
Static pressure (winter)	382,4 Pa	Rated power	0,55 kW
Dynamic pressure	22 Pa	Electric power consumption	0,203 kW
External pressure	200 Pa	Electric power consumption (winter)	0,203 kW
Static efficiency	71 %	Rated revolutions	2790 1/min
Total efficiency	75 %	Fan section	VS 10 1
Rated revolutions	2688 1/min		DRCT.DR.PLUG.FAN.ASM
Shaft power	0,147 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	0,74 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	61,5	67	67,6	62,4	60,2	51,4	47,5	68,4
Outlet	dB	67,5	74	74,6	71,4	68,2	63,4	59,5	76,4
Environment	dB	57,5	60,6	54,9	49,6	48,6	34,4	27,5	57,1
Sound press. **	dB(A)	34,4	45	44,7	42,6	42,8	28,4	19,4	50,1

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

**Exhaust section****Filter**

Name	VS 10 P.FLT G4	Final pressure drop	150 Pa
Air pressure drop	78 Pa	Air velocity	0,83 m/s
Initial pressure drop	7 Pa	Type	DEU4

**Fan section**

Fan		Frequency	47,5 Hz
Name	VS 10 DRCT.DR.FAN	Rated voltage	3x230 V
Static pressure	364 Pa	Rated current	2,35 A
Static pressure (winter)	364,4 Pa	Rated power	0,55 kW
Dynamic pressure	22 Pa	Electric power consumption	0,193 kW
External pressure	200 Pa	Electric power consumption (winter)	0,193 kW
Static efficiency	71 %	Rated revolutions	2790 1/min
Total efficiency	76 %	Fan section	VS 10 1
Rated revolutions	2649 1/min		DRCT.DR.PLUG.FAN.ASM
Shaft power	0,141 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	0,71 kW/m³/s

**Moisture eliminator**

Name	VS 10 DRP.ELTR	Air pressure drop	5 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	64,2	70,7	71,3	68,1	64,9	59,1	55,2	73

LAPA: 2/3



OFFER NUMBER: 716/LV/2012

Frequency		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Lw dB(A)
Outlet	dB	63,2	68,7	68,3	64,1	58,9	47,1	41,2	69
Environment	dB	57,2	60,3	54,6	49,3	48,3	34,1	27,2	56,7
Sound press. **	dB(A)	34,1	44,7	44,4	42,3	42,5	28,1	19,1	49,7

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

### Control box VS 10-75 CG UPC