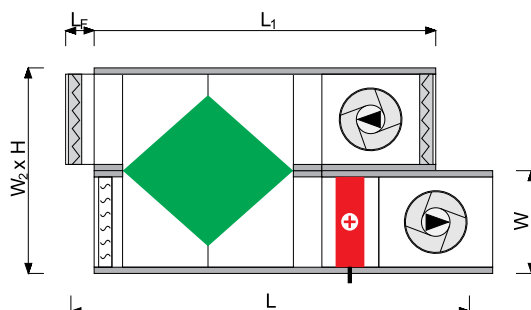


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3. PN-3; Virtuve
TYPE: Sup-Exh
SET: VS-10-R-PH-T
SIZE: 10
SUPPLY: 877 m³/h
EXHAUST: 877 m³/h
INSULATION THICKNESS: 40 mm
EXTERNAL PRESSURE: 300 Pa
EXTERNAL PRESSURE: 300 Pa
WEIGHT OF UNIT (+/- 10%) *: 202 kg
SFP: 1,78 kW/m³/s (EN 13779)
Energy efficiency 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 | 0,74 m/s |
| Initial pressure drop | 5 Pa | Type | DEU4 |



Plate exchanger

| | | | |
|----------------------------------|--------------|-------------------------------------|--------------|
| Type | VS 10 PCR | Latent efficiency (winter) | 0 % |
| Pressure drop (supply) | 58 Pa | Supply air intake (in summer) | 25,2 °C 60 % |
| Pressure drop (supply - winter) | 58 Pa | Supply air outlet (in summer) | 25,2 °C 60 % |
| Pressure drop (exhaust) | 66 Pa | Exhaust air intake (in summer) | 24 °C 50 % |
| Pressure drop (exhaust - winter) | 66 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) | 6,7 kW |
| Sensible efficiency (winter) | 51 % | Sensible recovery capacity | 0 kW |
| Sensible efficiency (winter) | 51 % | (summer) | |
| balanced flow | | Sensible recovery capacity (winter) | 6,7 kW |



Water heater

| | | | |
|-------------------|-------------|-----------------------|----------|
| Name | VS 10 WCL 2 | Glycol content | 0 % |
| Air pressure drop | 27 Pa | Medium pressure drop | 2,12 kPa |
| Air velocity | 2 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 | 0,32 m³/h |
| Air intake (in summer) | 25,2 °C | 60 % | Total heater capacity | 7,41 kW |
| Air outlet (in summer) | 25,2 °C | 60 % | Header type | R 3/4" |
| Type of glycol | Ethylene | | | |

**Fan section**

| | | | |
|--------------------------|--------------------|-------------------------------------|-----------------------|
| Fan | | Frequency | 49,6 Hz |
| Name | VS 10 DRCT.DR.FAN | Rated voltage | 3x230 V |
| Static pressure | 463 Pa | Rated current | 2,35 A |
| Static pressure (winter) | 462,7 Pa | Rated power | 0,55 kW |
| Dynamic pressure | 18 Pa | Electric power consumption | 0,22 kW |
| External pressure | 300 Pa | Electric power consumption (winter) | 0,22 kW |
| Static efficiency | 71 % | Rated revolutions | 2790 1/min |
| Total efficiency | 73 % | Fan section | VS 10 1 |
| Rated revolutions | 2769 1/min | | DRCT.DR.PLUG.FAN.ASM |
| Shaft power | 0,16 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 | 0,9 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 | 62,8 | 68,3 | 68,9 | 63,7 | 61,5 | 52,7 | 48,8 | 69,6 |
| Outlet | dB | 68,8 | 75,3 | 75,9 | 72,7 | 69,5 | 64,7 | 60,8 | 77,7 |
| Environment | dB | 58,8 | 61,9 | 56,2 | 50,9 | 49,9 | 35,7 | 28,8 | 58,4 |
| Sound press. ** | dB(A) | 35,7 | 46,3 | 46 | 43,9 | 44,1 | 29,7 | 20,7 | 51,4 |

(**) 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 | 0,74 m/s |
| Initial pressure drop | 5 Pa | Type | DEU4 |

**Fan section**

| | | | |
|--------------------------|--------------------|-------------------------------------|-----------------------|
| Fan | | Frequency | 49 Hz |
| Name | VS 10 DRCT.DR.FAN | Rated voltage | 3x230 V |
| Static pressure | 448 Pa | Rated current | 2,35 A |
| Static pressure (winter) | 447,7 Pa | Rated power | 0,55 kW |
| Dynamic pressure | 18 Pa | Electric power consumption | 0,213 kW |
| External pressure | 300 Pa | Electric power consumption (winter) | 0,213 kW |
| Static efficiency | 71 % | Rated revolutions | 2790 1/min |
| Total efficiency | 74 % | Fan section | VS 10 1 |
| Rated revolutions | 2735 1/min | | DRCT.DR.PLUG.FAN.ASM |
| Shaft power | 0,155 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 | 0,87 kW/m³/s |

Moisture eliminator

| | | | |
|------|----------------|-------------------|------|
| Name | VS 10 DRP.ELTR | Air pressure drop | 4 Pa |
|------|----------------|-------------------|------|

Sound-level table

| Frequency | | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Lw dB(A) |
|-----------|----|--------|--------|--------|---------|---------|---------|---------|----------|
| Intake | dB | 65,5 | 72 | 72,6 | 69,4 | 66,2 | 60,4 | 56,5 | 74,3 |

LAPA: 2/3



OFFER NUMBER: 710/LV/2012

| Frequency | | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Lw dB(A) |
|-----------------|-------|--------|--------|--------|---------|---------|---------|---------|----------|
| Outlet | dB | 64,5 | 70 | 69,6 | 65,4 | 60,2 | 48,4 | 42,5 | 70,3 |
| Environment | dB | 58,5 | 61,6 | 55,9 | 50,6 | 49,6 | 35,4 | 28,5 | 58,1 |
| Sound press. ** | dB(A) | 35,4 | 46 | 45,7 | 43,6 | 43,8 | 29,4 | 20,4 | 51,1 |

(**) 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