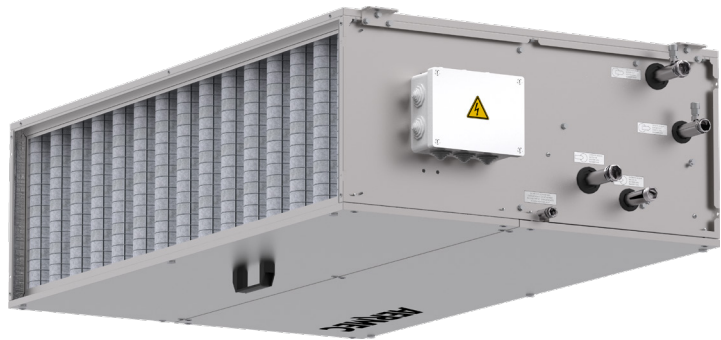


TVS

Air handling unit



- Centrifugal fan with EC motor
- Horizontal and vertical installation
- Available units with heat exchanger with 4-6 rows
- Large range of available static pressure
- Ductable unit



DESCRIPTION

TVS is a thermoventilation unit designed to guarantee high heads in small to medium-sized rooms with nominal air flow rates from 800 to 5200 m³/h. As standard, it is suitable for 2-pipe systems, however the availability (as an accessory) of the secondary water coil, which can be installed inside the unit downstream of the main coil, makes it also suitable for 4-pipe systems. The unit is suitable for both horizontal installation in suspended ceilings and vertical installation on walls for greater versatility in use.

FEATURES

Structure

The supporting structure is made of galvanised steel sheet panels of suitable thickness. The panels are internally insulated with M1 fire reaction class insulation according to French standard NFP 92-501.

The bottom panels, which can be inspected, are of the sandwich type made of galvanised steel sheet with 15 mm thick polyurethane insulation (density 45 kg/m³).

The particular formulation of the polyurethane foam provides the sandwich panels with reaction to fire class M1 according to NFP standard 92-501. The polyurethane foam was developed with precise specifications to achieve the exceptional value of GWP = 0 (Global Warming Potential), not contributing to the greenhouse effect.

The presence of sandwich type panels on the bottom of the machine enables to significantly reduce the noise outside the unit in typical horizontal suspended ceiling installations.

The unit is supplied with specific brackets for attaching it to the wall.

Heat exchanger coil

Heat exchanger made with copper pipes and aluminium louvers blocked by the mechanical expansion of the pipes.

The main heat exchanger can be 4 or 6-row.

The secondary heat exchanger, available as an accessory, is 2-row.

Hydraulic connections

The hydraulic connections are on the right and are made with female threaded connections, however male-male threaded sleeves, with air release valves, are supplied to facilitate hydraulic connections.

The side of the hydraulic connections can be reversed on site by turning the coil.

The definition of "RH connections side" or "LH connections side" refers to the position of the coil connections in relation to the air flow direction (convection: air flow from behind a hypothetical operator inserted in the flow).

Condensate drip

The galvanised steel condensate drip tray is thermally insulated and has a double drain on the right and left. The unused condensate drain must be sealed.

Ventilation group

The ventilation unit consists of double intake centrifugal fans with blades facing forwards.

The electric motor, directly coupled to the impeller, is of the EC type. The use of the EC motor allows significant energy savings when compared to traditional AC motors and a continuous control of the rotation speed, simplifying air flow rate calibration operations on site.

Except for the first two sizes, Sensorless fans with integrated flow control are installed, without the need for additional accessories.

Air filtration

Air filtration is provided, as standard, by 48 mm thick corrugated synthetic filters with Coarse 55% efficiency according to EN ISO 16890 (G4 according to EN 779) positioned in the intake.

The filters are easily accessible for servicing and cleaning. Extraction is carried out by pulling them out from below by removing the respective panel.

Electrical wiring

On the side of the hydraulic connections there is an electric box, with IP55 protection rating, for connecting power and the 0-10V control signal or a potentiometer of the ventilation unit.

In the case of reversing the side of the hydraulic connections, there is no need to reverse the position of the electrical connections.

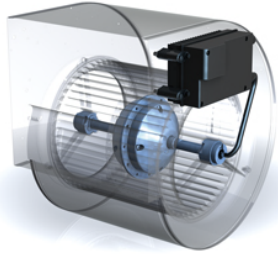
VENTILATION EFFICIENCY

All fans in the range TVS use an EC motor that, operating without slip losses, consumes less energy than conventional AC motors.

This applies to all speeds, i.e. also to partial load operation. The EC motor therefore uses less energy than the AC motor under all operating conditions

and has a significantly higher level of efficiency of the drive system (motor and control).

In addition, continuous speed control via the 0-10V signal allows the air flow rate to be varied, and the static pressure can be adapted to the system's pressure drop, making unit start-up particularly easy.



Fans in sizes from TVS204 to TVS526 use an innovative “driver” that provides advanced functions that go far beyond simple speed control via the 0-10V signal (factory setting) and monitoring of operating limits to enable safe operation.

CONFIGURATOR

ACCESSORIES

BS2x: 2 row water coil: 2-row water coil for 4-pipe system, located internally, downstream of the main coil. The threaded sleeves for the hydraulic connections and the air vent valve are supplied.

F7x: filter with ePM1 50% efficiency: Filter with ePM1 50% efficiency according to EN ISO 16890 (F7 according to EN 779) to be placed inside the unit in place of the standard filter.

F7x: filter with ePM1 80% efficiency: Filter with ePM1 80% efficiency according to EN ISO 16890 (F9 according to EN 779) to be placed inside the unit in place of the standard filter.

SMBEx: Electric coil module with double safety thermostat (manual and automatic) to be installed on the unit's flow side. Not compatible for vertical installation.

SMF7x: Filter module with ePM1 50% efficiency according to EN ISO 16890 (F7 according to EN 779) to be positioned at the unit's flow or intake in order to carry out a two-stage filtration. Filter extraction from below.

SMF9x: Filter module with ePM1 80% efficiency according to EN ISO 16890 (F9 according to EN 779) to be positioned at the unit's flow or intake in order to carry out a two-stage filtration. Filter extraction from below.

SM25x: Mixing chamber module complete with two galvanised steel calibration dampers to be positioned at the intake of the unit. The damper pins are equipped with an easily removable hand control.

SMLFx: Module consisting of state-of-the-art devices with UV germicidal lamp with photocatalytic effect for active disinfection. To be placed at the discharge of the unit. The complete elimination of germs, bacteria and viruses cannot be achieved by using SMLFx modules alone, but a reduction in microbial load means less exposure to infection.

FAIx: Filter holder flange to allow intake in a direction perpendicular to the air flow through the unit. The use of the flange does not allow the installation of other accessories or the ducting of the unit to the intake.

SERx: Galvanised steel damper to be installed on the intake or flow side of the unit. The damper pin is equipped with an easily removable hand control.

GRAx: Natural anodised aluminium intake grid with fixed louvers inclined at 45°. To be installed at the intake of the unit via the supplied flange.

GRMx: Natural anodised aluminium flow grille with two rows of adjustable louvers. To be installed on the unit's flow side via the flange supplied.

V2Vx for main and secondary coil: 2-way valve for main and secondary coil.

V3Vx for main and secondary heat exchanger: 3-way valve for main and secondary coil.

AV24F - 24V / ON-OFF actuator for main and secondary coil: 24V / ON-OFF actuator for main and secondary coil.

In fact, advanced operating modes can be activated through the use of free PC software, an RS485 interface cable and a commercially available USB to RS485 converter.

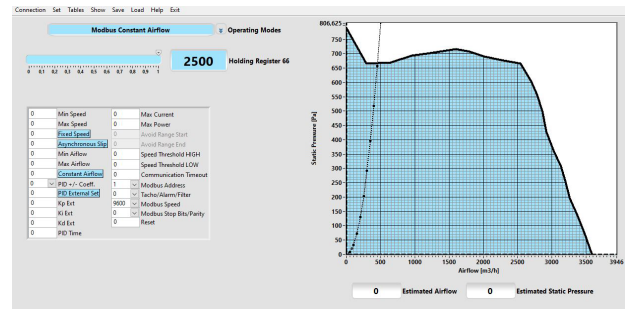
Particularly innovative is the operating mode with constant flow rate control. The air flow rate can be varied via an analogue 0-10V signal or the desired value can be set via the dedicated software.

Sensorless constant flow rate

Sensorless constant flow rate control is performed without the use of pressure probes.

The driver determines the operating point by measuring the rotational speed and input power of the fan and then adjusts the rotational speed to maintain the set value of the air flow rate within a predetermined range.

This control system can compensate for a change in system pressure loss or a change in unit pressure loss due to e.g. filter fouling.



AV24FM - 24V / ON-OFF - 0-10V actuator for main and secondary coil: Actuator with 24V power supply for ON-OFF or modulating 0-10V control of 2-way and 3-way main and secondary coil valves.

AV24M - 24V / 0-10V actuator for main and secondary coil: Actuator with 24V power supply for modulating 0-10V control of 2-way and 3-way main and secondary coil valves.

GT2x - 2-way valve tube assembly for main coil: Hose assembly and hydraulic fittings for connecting the 2-way valve to the main coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT2Px - 2-way valve hose assembly for secondary coil: Hose assembly and hydraulic fittings for connecting the 2-way valve to the secondary coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT3x - 3-way valve hose assembly for main coil: Hose assembly and hydraulic fittings for connecting the 3-way valve to the main coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT3Px - 3-way valve hose assembly for secondary coil: Hose assembly and hydraulic fittings for connecting the 3-way valve to the secondary coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

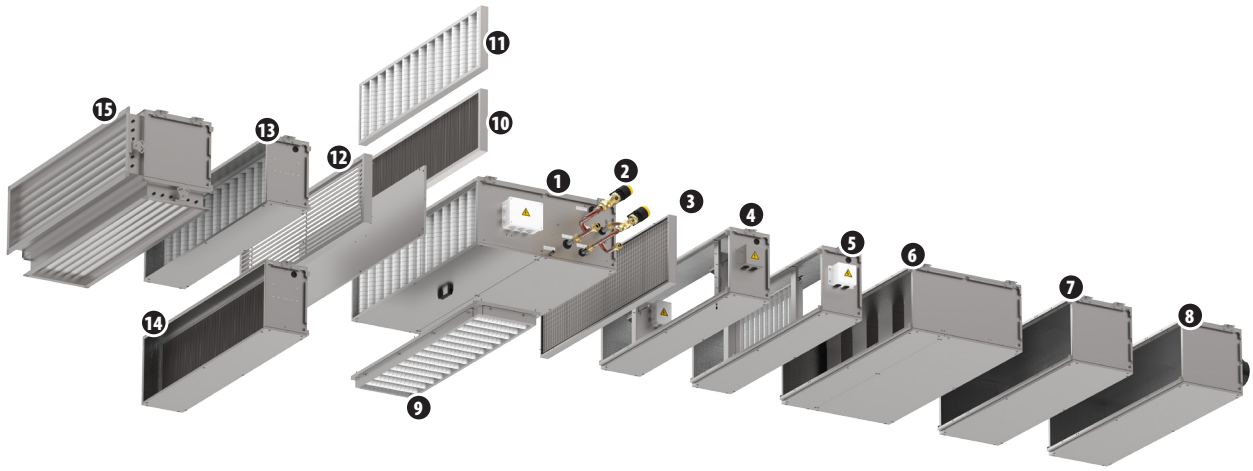
PVV: Potentiometer for fan speed control. The +10V signal is available directly on the electrical connection box located outside the unit.

SM5Sx - Silencer baffles module: Module consisting of rock wool silencing baffles covered with polyethylene film and protective mesh to prevent flaking. To be installed on the flow and/or intake side of the unit.

SPCx: Closed plenum to be positioned at the flow or intake of the unit. Depending on the opening of the flow/intake hole, the accessory allows flow/intake in both longitudinal and perpendicular directions to the air flow through the unit.

SPMx: Plenum with circular flows to be positioned at the flow and/or intake of the unit. The multi-diameter (200mm, 180mm, 150mm) circular plastic

couplings allow the connection of circular ducts. Flow/intake is allowed in the longitudinal direction of the air flow through the unit.



Key:

- 1 TVS
- 2 Valvola (V3V, AV24,GT3, GT3P)
- 3 GRM
- 4 SMLF
- 5 SMBE

- 6 SMSS
- 7 SPC
- 8 SPM
- 9 FAI
- 10 F7
- 11 F9

- 12 GRA
- 13 SMF9
- 14 SMF7
- 15 SM2S

ACCESSORIES COMPATIBILITY

Control

Potentiometer for fan speed control

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
PVV

Water valves

2 way valve kit

	TVS084	TVS154	TVS204	TVS274	TVS344	TVS404	TVS524
Main coil							
2 way valve	V2V2	V2V3	V2V4	V2V5	V2V5	V2V6	V2V6
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT21	GT21	GT22	GT23	GT23	GT24	GT24
Secondary coil							
2 way valve	V2V1	V2V1	V2V4	V2V4	V2V4	V2V5	V2V5
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT2P1	GT2P1	GT2P2	GT2P2	GT2P2	GT2P3	GT2P3
TVS086 TVS156 TVS206 TVS276 TVS346 TVS406 TVS526							
Main coil							
2 way valve	V2V2	V2V3	V2V4	V2V5	V2V5	V2V6	V2V6
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT21	GT21	GT22	GT23	GT23	GT24	GT24
Secondary coil							
2 way valve	V2V1	V2V1	V2V4	V2V4	V2V4	V2V5	V2V5
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT2P1	GT2P1	GT2P2	GT2P2	GT2P2	GT2P3	GT2P3

Tabella 3 way valve kit

	TVS084	TVS154	TVS204	TVS274	TVS344	TVS404	TVS524
Main coil							
Three-way valve	V3V2	V3V2	V3V4	V3V5	V3V5	V3V6	V3V6
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT31	GT31	GT32	GT33	GT33	GT34	GT34
Secondary coil							
Three-way valve	V3V1	V3V1	V3V4	V3V4	V3V4	V3V5	V3V5
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT3P1	GT3P1	GT3P2	GT3P2	GT3P2	GT3P3	GT3P3
TVS086 TVS156 TVS206 TVS276 TVS346 TVS406 TVS526							
Main coil							
Three-way valve	V3V2	V3V2	V3V4	V3V5	V3V5	V3V6	V3V6
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT31	GT31	GT32	GT33	GT33	GT34	GT34
Secondary coil							
Three-way valve	V3V1	V3V1	V3V4	V3V4	V3V4	V3V5	V3V5
Actuator	AV24F/AV24M	AV24F/AV24M	AV24FM	AV24FM	AV24FM	AV24FM	AV24FM
Pipe assembly	GT3P1	GT3P1	GT3P2	GT3P2	GT3P2	GT3P3	GT3P3

Heating only additional coil

2 row water coil

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
BS21	.	.												
BS22			.	.										
BS23					.	.								
BS24										
BS25										

Electric coil module

2-stage electric coil module

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SMBE1 (1)	.	.												
SMBE2 (1)			.	.										
SMBE3 (1)					.	.								
SMBE4 (1)										
SMBE5 (1)										

(1) Module not compatible for vertical installation.

Installation accessories

Filter module with ePM1 50% efficiency

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SMF71	.	.												
SMF72			.	.										
SMF73					.	.								
SMF74										
SMF75										

Filter module with ePM1 80% efficiency

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SMF91	.	.												
SMF92			.	.										
SMF93					.	.								
SMF94										
SMF95										

Silencer baffles module

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SMSS1	.	.												
SMSS2			.	.										
SMSS3					.	.								
SMSS4										
SMSS5										

Photocatalytic device module

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SMLF1	.	.												
SMLF2			.	.										
SMLF3					.	.								
SMLF4										
SMLF5										

Mixing chamber module complete with two calibration dampers

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SM2S1	.	.												
SM2S2			.	.										
SM2S3					.	.								
SM2S4										
SM2S5										

Closed plenum

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SPC1	.	.												
SPC2			.	.										
SPC3					.	.								
SPC4										
SPC5										

Plenum with circular deliveries

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SPM1	.	.												
SPM2			.	.										
SPM3					.	.								
SPM4										
SPM5										

Tabella Filter flange

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
FAI1	.	.												
FAI2			.	.										
FAI3					.	.								
FAI4										
FAI5										

Galvanised steel dampers

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
SER1	.	.												
SER2			.	.										
SER3					.	.								
SER4										
SER5													.	.

Alluminium Intake grids

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
GRA1	.	.												
GRA2			.	.										
GRA3					.	.								
GRA4										
GRA5										

Alluminium delivery grille

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
GRM1	.	.												
GRM2			.	.										
GRM3					.	.								
GRM4										
GRM5										

Filter with ePM1 50% efficiency

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
F71	.	.												
F72			.	.										
F73					.	.								
F74										
F75										

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
F71		.	.											
F72				.	.									
F73					.	.								
F74										
F75										

Filter with ePM1 80% efficiency

Accessory	TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
F91	.	.												
F92			.	.										
F93					.	.								
F94										
F95										

4-ROW COIL UNIT PERFORMANCE DATA

Units designed to operate with all recirculating air or maximum 10% of external air.

		TVS084	TVS154	TVS204	TVS274	TVS344	TVS404	TVS524
Performance in heating mode 70 °C / 60 °C - Main coil 2-pipe system (1)								
Heating capacity	kW	10,50	18,80	25,10	31,90	41,40	54,20	66,40
Water flow rate	l/h	901	1615	2157	2738	3557	4659	5705
Pressure drop	kPa	26	25	37	23	41	38	55
Performance in heating mode 45 °C / 40 °C - Main coil for 2-pipe systems (2)								
Heating capacity	kW	5,20	9,30	12,40	15,80	20,50	26,80	32,70
Water flow rate	l/h	896	1600	2139	2718	3525	4610	5640
Pressure drop	kPa	28	27	40	24	44	40	58
Heating performance 65 °C / 55 °C - Secondary coil 4-pipe system (3)								
Heating capacity	kW	4,40	8,10	14,40	18,40	23,60	28,30	32,90
Water flow rate	l/h	380	697	1235	1579	2031	2433	2828
Pressure drop	kPa	6	26	18	20	32	19	25
Cooling performances 7 °C / 12 °C - Main coil 2 pipe system (4)								
Cooling capacity	kW	4,40	7,70	10,90	13,20	17,90	23,20	27,80
Sensible cooling capacity	kW	3,30	6,00	8,20	10,40	13,60	17,10	20,70
Water flow rate	l/h	753	1322	1870	2266	3078	3979	4766
Pressure drop	kPa	22	20	33	20	36	34	46
Fan								
Type	type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan motor	type	EC	EC	EC	EC	EC	EC	EC
Number	no.	1	2	1	1	2	2	2
Nominal air flow rate	m ³ /h	800	1500	2000	2600	3400	4000	5200
Nominal useful head	Pa	150	150	200	200	200	200	200
Maximum useful head (2-pipes) (5)	Pa	213	242	351	361	380	403	414
Maximum useful head (4-pipes) (5)	Pa	194	217	321	337	342	377	375
Input power (2-pipes) (6)	W	199	358	545	825	826	998	1494
Input power (4 pipes) (6)	W	207	377	574	859	896	1044	1608
Sound data (7)								
Sound power level (inlet + radiated)	dB(A)	66,0	68,0	77,0	77,0	78,0	80,0	80,0
Sound power level (outlet)	dB(A)	66,0	68,0	74,0	76,0	74,0	77,0	78,0
Diameter hydraulic fittings								
Main heat exchanger	∅	3/4" F	3/4" F	1" F	1" F	1" F	1" F	1" F
Secondary heat exchanger	∅	1/2" F	1/2" F	3/4" F	3/4" F	3/4" F	3/4" F	3/4" F
Condensate discharge diameter	mm	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M
Power supply								
Power supply		230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Air filter								
Type	type	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)
Electric coil								
Electric coil capacity	kW	1,5 + 1,5	2,5 + 2,5	4 + 4	6 + 6	6 + 6	7,5 + 7,5	7,5 + 7,5
Stages	no.	2	2	2	2	2	2	2
Power supply		400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz

(1) Room air temperature 20°C d.b.; Water (in/out) 70 °C / 60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C / 40 °C

(3) Room air temperature 20 °C d.b.; Water (in/out) 65 °C / 55 °C

(4) Room air 27 °C b.s.47% U.R.; Water (in/out) 7 °C/12 °C

(5) Maximum high static pressure at nominal air flow rate, in heating mode

(6) Input power at nominal air flow rate, at nominal high static pressure, in heating mode

(7) Sound data in 2-pipe configuration, at nominal air flow rate, at nominal high static pressure, in heating mode

6-ROW COIL UNIT PERFORMANCE DATA

		TVS086	TVS156	TVS206	TVS276	TVS346	TVS406	TVS526
Performance in heating mode 70 °C / 60 °C - Main coil 2-pipe system (1)								
Heating capacity	kW	11,50	20,60	27,40	35,10	45,40	58,30	72,00
Water flow rate	l/h	986	1774	2359	3017	3900	5009	6189
Pressure drop	kPa	40	27	30	23	42	31	45
Performance in heating mode 45 °C / 40 °C - Main coil for 2-pipe systems (2)								
Heating capacity	kW	5,70	10,20	13,60	17,30	22,50	28,90	35,80
Water flow rate	l/h	978	1762	2342	2985	3876	4980	6166
Pressure drop	kPa	42	29	32	25	44	33	48
Heating performance 65 °C / 55 °C - Secondary coil 4-pipe system (3)								
Heating capacity	kW	4,40	8,10	14,40	18,40	23,60	28,30	32,90
Water flow rate	l/h	380	697	1235	1579	2031	2433	2828
Pressure drop	kPa	6	26	18	20	32	19	25
Cooling performances 7 °C / 12 °C - Main coil 2 pipe system (4)								
Cooling capacity	kW	5,30	9,00	12,30	15,40	20,70	25,90	31,60
Sensible cooling capacity	kW	3,80	6,70	9,00	11,60	15,00	18,70	22,90
Water flow rate	l/h	912	1538	2104	2649	3554	4443	5427
Pressure drop	kPa	39	24	28	23	41	30	42
Fan								
Type	type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan motor	type	EC	EC	EC	EC	EC	EC	EC
Number	no.	1	2	1	1	2	2	2
Nominal air flow rate	m ³ /h	800	1500	2000	2600	3400	4000	5200
Nominal useful head	Pa	150	150	200	200	200	200	200
Maximum useful head (2-pipes) (5)	Pa	204	230	338	351	364	392	397
Maximum useful head (4-pipes) (5)	Pa	185	205	308	327	326	366	358
Input power (2-pipes) (6)	W	203	368	557	839	856	1016	1544
Input power (4 pipes) (6)	W	211	387	588	873	932	1064	1658
Sound data (7)								
Sound power level (inlet + radiated)	dB(A)	67,0	69,0	78,0	77,0	78,0	81,0	80,0
Sound power level (outlet)	dB(A)	67,0	69,0	74,0	77,0	74,0	78,0	79,0
Diametre hydraulic fittings								
Main heat exchanger	Ø	3/4" F	3/4" F	1" F	1" F	1" F	1" F	1" F
Secondary heat exchanger	Ø	1/2" F	1/2" F	3/4" F	3/4" F	3/4" F	3/4" F	3/4" F
Condensate discharge diameter	mm	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M	1/2" M
Power supply								
Power supply		230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Air filter								
Type	type	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)	Coarse 55% (G4)
Electric coil								
Electric coil capacity	kW	1,5 + 1,5	2,5 + 2,5	4 + 4	6 + 6	6 + 6	7,5 + 7,5	7,5 + 7,5
Stages	no.	2	2	2	2	2	2	2
Power supply		400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz	400V~3 50Hz

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C / 60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C / 40 °C

(3) Room air temperature 20 °C d.b.; Water (in/out) 65 °C / 55 °C

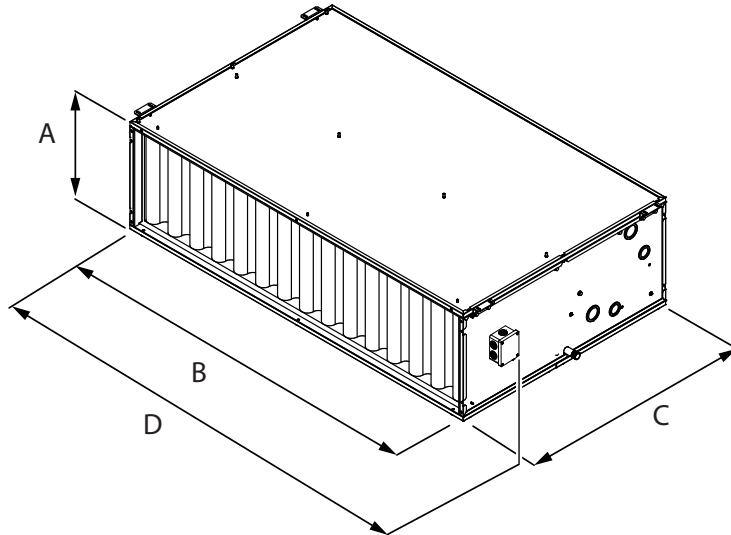
(4) Room air 27 °C b.s.47% U.R.; Water (in/out) 7 °C / 12 °C

(5) Maximum high static pressure at nominal air flow rate, in heating mode

(6) Input power at nominal air flow rate, at nominal high static pressure, in heating mode

(7) Sound data in 2-pipe configuration, at nominal air flow rate, at nominal high static pressure, in heating mode

DIMENSIONS



Unit for horizontal installation

		TVS084	TVS086	TVS154	TVS156	TVS204	TVS206	TVS274	TVS276	TVS344	TVS346	TVS404	TVS406	TVS524	TVS526
Dimensions and weights															
A	mm	300	300	300	300	390	390	390	390	390	390	390	390	390	390
B	mm	700	700	1000	1000	1000	1000	1400	1400	1400	1400	2000	2000	2000	2000
C	mm	700	700	700	700	850	850	850	850	850	850	850	850	850	850
D	mm	770	770	1070	1070	1070	1070	1470	1470	1470	1470	2070	2070	2070	2070
Net weight	kg	27,0	28,0	42,0	44,0	56,0	59,0	79,0	83,0	89,0	94,0	119,0	125,0	120,0	126,0

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
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Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com