

Series VENTS VUT EH



A16 control panel

Air handling units with the air flow up to **2200 m³/h** and heat recovery efficiency up to 88 % in sound-proof and heat-insulated casing with electric heater

Description

Air handling units VUT EH with electric heater and VUT WH with water heater are the complete air handling units designed to provide both supply and exhaust ventilation with air filtering and heat recovery. The exhaust air energy is used to heat up the supply fresh air through the heat exchanger. All the models are designed for connection with Ø 125, 150, 160, 200, 250, 315 mm round ducts.

Modifications

VUT EH – a range of compact energy saving air handling units (AHU) equipped with supply and exhaust centrifugal fans, cross-flow heat exchanger, electric heater and air filters.

VUT WH – a range of compact energy saving air handling units (AHU) equipped with supply and exhaust centrifugal fans, cross-flow heat exchanger, water or glycol heater and air filters.

Casing

The casing is made of aluminum-zinc compound with 25 mm thick mineral wool heat- and sound-insulating layer.

Filter

Two incorporated G4 panel filters for extract air ventilation are supplied with the unit.

Series VENTS VUT WH



A13 control panel

Air handling units with the air flow up to **2100 m³/h** and heat recovery efficiency up to 78 % in sound-proof and heat-insulated casing with water heater

Fans

The units are equipped with supply and exhaust centrifugal double-inlet fans with forward curved blades and built-in thermostat with automatic restart. The electric motors and impellers are dynamically balanced in two planes. The ball-bearings used with motors are designed for at least 40 000 hours operation and are maintenance-free.

Heat exchanger

The heat exchangers have high efficiency and are made of polystyrol. The unit is also equipped with the drain pan for condensate drainage.

Heater

The electric heater (for the unit VUT EH) or the water heater (for the unit VUT WH) at outlet from the heat exchanger is designed for warming up of supply air up to the set level if heat recovery is not enough to attain the set supply air temperature. The water heaters are designed for max. operating pressure 1.0 MPa (10 bar) and max. heat medium operating temperature 95 °C.

Automation and control system

The unit incorporates an integrated automation and control system with a multi-functional control panel with LCD display. The standard delivery set includes 10 m connection cable for connection to the remote control panel. The unit has the freezing

protection function to prevent the heat exchanger freezing by means of actuating the bypass damper and controlling water heater. As the temperature sensor warns of the freezing danger, the bypass air damper is opened and the intake air is directed through the air duct beside the heat exchanger. As the heat exchanger is warmed the supply air temperature rises up to the set level while passing through the heater. Meanwhile the warm extract air warms up the heat exchanger. After the freezing danger is no longer imminent, the bypass damper shuts the bypass duct and the unit reverts to the standard operation mode.

VUT EH control and protection functions

- ▶ control from the control panel: switching on/off, speed selection, timer, faults
- ▶ maintaining the set room temperature by the sensor on the control panel – smooth heating capacity control
- ▶ three-speed fan speed control (low-medium-high);
- ▶ unit operation according to daily and week schedule (timer adjustable from the control panel)
- ▶ safe start-up/shutdown of the fans
- ▶ electric heater overheating protection by the temperature sensor installed in the supply air duct and by two overheating thermostats, one thermostat activated at 60 °C with automatic reset and another thermostat activated at 90 °C with manual reset. Blowing of the heating elements for heat removing at the end of the heating cycle
- ▶ filter clogging control by engine filter time

VUT WH control and protection functions

- ▶ control from the control panel: switching on/off, three-speed fan selection, selecting heating/cooling modes (if connected to duct heater); room temperature display;
- ▶ maintaining supply air temperature set from the control panel by controlling the circulation pump and actuating the heat medium regulating valve; input from the heat medium flow switch (pump alarm);
- ▶ Safe start-up/ shutdown of the fans, warming up of the water heater before start-up; return heat medium temperature control when the fan is off.
- ▶ Freezing protection of the water heating coils by the exhaust temperature sensor and the return heat medium temperature sensor.
- ▶ Control of the compressor and condensing unit of the water cooler by the room temperature sensor (for the models equipped with a duct air cooler).
- ▶ Actuating the external air dampers with a return spring.
- ▶ Unit operation according to week schedule (set at the system setup).

Designation key

Series	Rated air flow [m³/h]	Heater type	Duct connection	Row number of the heater	Service side (for VUT 1500 WH, VUT 2000 WH)
VENTS VUT	350; 500; 530; 600; 800; 1000; 1500; 2000	E: electric W: water	H: horizontal	2: two rows 4: four rows	L: left side R: right side

- ▶ unit shut down at signal from the fire alarm system;
- ▶ smooth bypass damper control in the bypassing mode to prevent the heat exchanger freezing.

■ Mounting

The unit is designed for indoor mounting. While mounting the unit provide the correct condensate collection and drainage. Access for the unit servicing and filter cleaning is from the side panels on the left from supply air side.

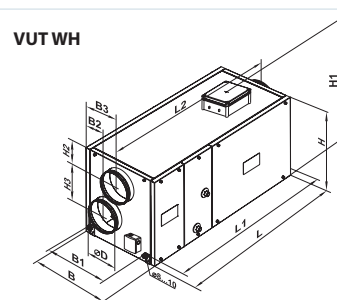
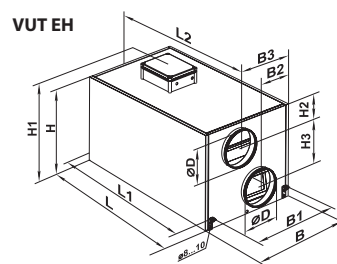
Access for the unit servicing for VUT 1500 WH and VUT 2000 WH is available from the left or right side panels depends on order code.

■ Options

For attenuation of sound generated by the fans it is recommended to install the duct silencer (refer SR) from inside before the unit. For vibration absorbing it is recommended to install the flexible anti-vibration connectors (refer VVG) on both sides of the unit. The mixing units USWK are recommended for smooth supply air temperature regulation in the units equipped with water heaters. The mixing unit USWK with three-way heat medium regulating valve and circulation pump provides smooth heating capacity regulation and minimizes the water heater freezing danger.

Unit overall dimensions

Type	Dimensions [mm]											
	ØD	B	B1	B2	B3	H	H1	H2	H3	L	L1	L2
VUT 350 EH	124	497	403	248	348	554	–	111	230	954	996	1054
VUT 500 EH	149	497	403	248	348	554	–	111	230	954	996	1054
VUT 530 EH	159	497	403	248	348	554	–	111	230	954	996	1054
VUT 600 EH	199	497	403	248	348	554	–	111	230	954	996	1054
VUT 800 EH	249	613	460	306	386	698	832	154	280	1071	1117	1171
VUT 800 WH	249	613	460	306	386	698	832	154	280	1071	1117	1171
VUT 1000 EH	249	613	460	306	386	698	832	154	280	1071	1117	1171
VUT 1000 WH	249	613	460	306	386	698	832	154	280	1071	1117	1171
VUT 1500 EH	314	842	581	320	520	814	947	201	595	1345	1388	1445
VUT 1500 WH	314	842	581	320	520	814	947	201	595	1345	1388	1445
VUT 2000 EH	314	842	581	320	520	814	947	201	595	1345	1388	1445
VUT 2000 WH	314	842	581	320	520	814	947	201	595	1345	1388	1445



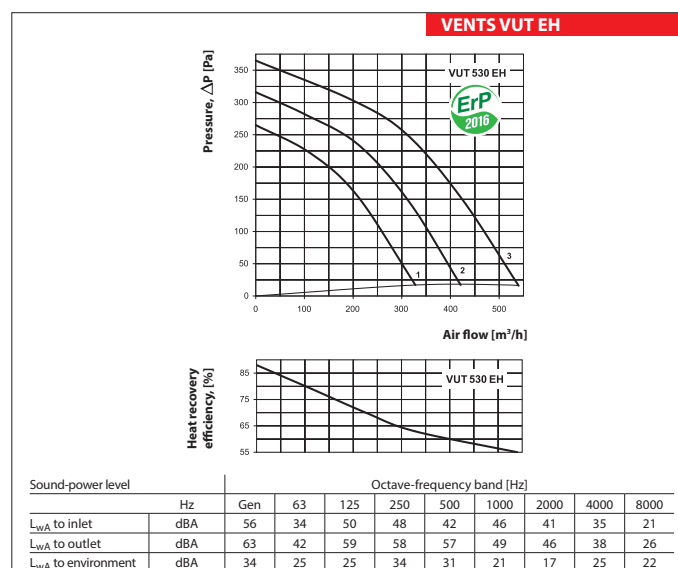
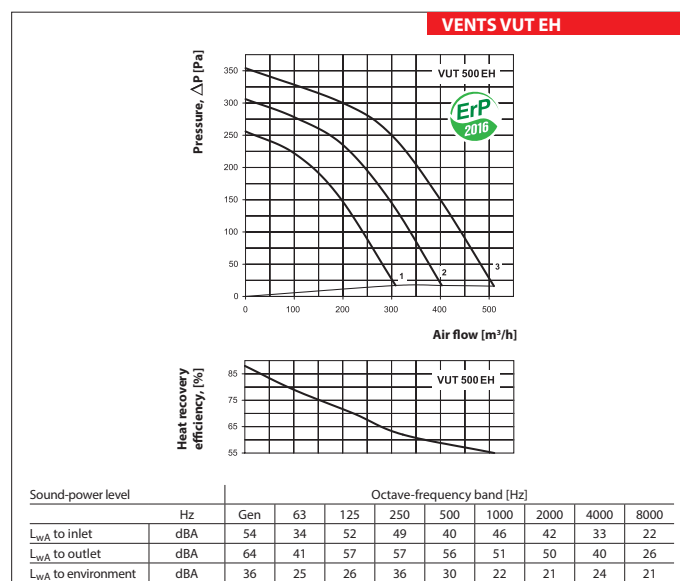
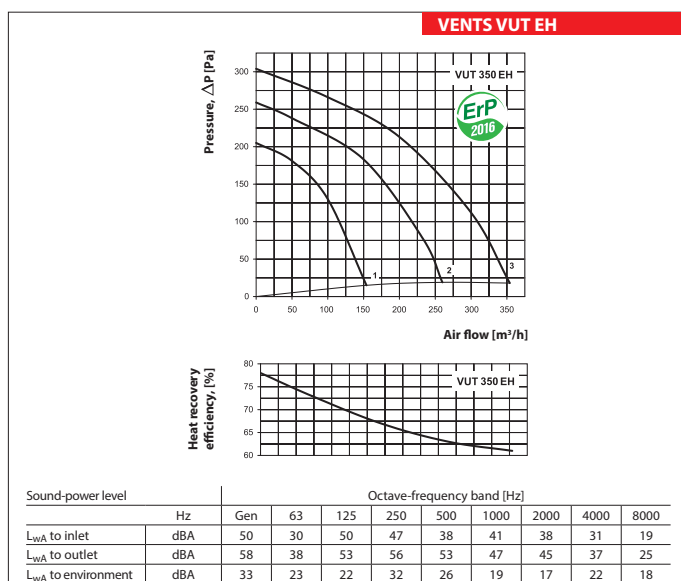
Accessories for air handling units

Model	G4 panel filter	Silencers		Back valves	Air dampers	Clamps	Summer blocks
							
VUT 350 EH	SF 438x215x48 G4	SR 125 600/900/1200	SRF 125 600/900/1200	KOM 125	KR 125	C 125	VL C4 300/300
VUT 500 EH		SR 150 600/900/1200	SRF 150 600/900/1200	KOM 150	KR 150	C 150	
VUT 530 EH		SR 160 600/900/1200	SRF 160 600/900/1200	KOM 160	KR 160	C 160	
VUT 600 EH		SR 200 600/900/1200	SRF 200 600/900/1200	KOM 200	KR 200	C 200	
VUT 800 EH	SF 550x253x48 G4	SR 250 600/900/1200	SRF 250 600/900/1200	KOM 250	KR 250	C 250	VL C4 300/300*2
VUT 1000 EH							
VUT 1500 EH	SF 780x273x48 G4	SR 315 600/900/1200	SRF 315 600/900/1200	KOM 315	KR 315	C 315	VL C4 300/384
VUT 2000 EH							
VUT 800 WH-2	SF 550x253x48 G4	SR 250 600/900/1200	SRF 250 600/900/1200	KOM 250	KR 250	C 250	VL C4 300/300*2
VUT 800 WH-4							
VUT 1000 WH-2	SF 780x273x48 G4	SR 315 600/900/1200	SRF 315 600/900/1200	KOM 315	KR 315	C 315	VL C4 300/384
VUT 1000 WH-4							
VUT 1500 WH-2	SF 550x253x48 G4	SR 250 600/900/1200	SRF 250 600/900/1200	KOM 250	KR 250	C 250	VL C4 300/300*2
VUT 1500 WH-4							
VUT 2000 WH-2	SF 780x273x48 G4	SR 315 600/900/1200	SRF 315 600/900/1200	KOM 315	KR 315	C 315	VL C4 300/384
VUT 2000 WH-4							

AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

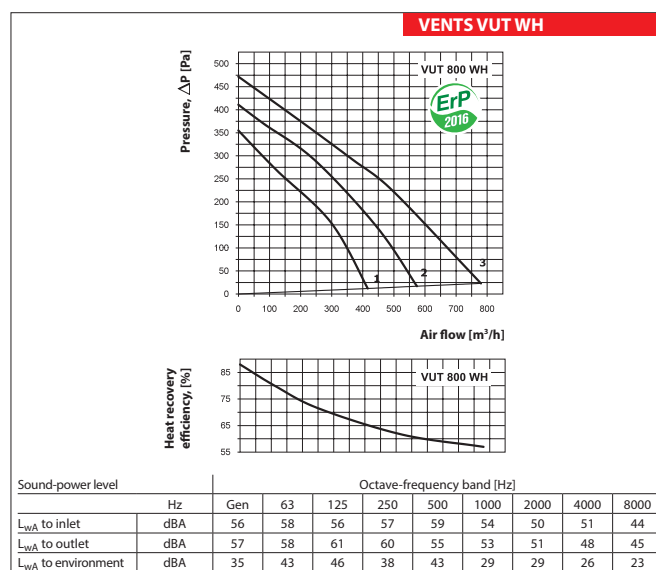
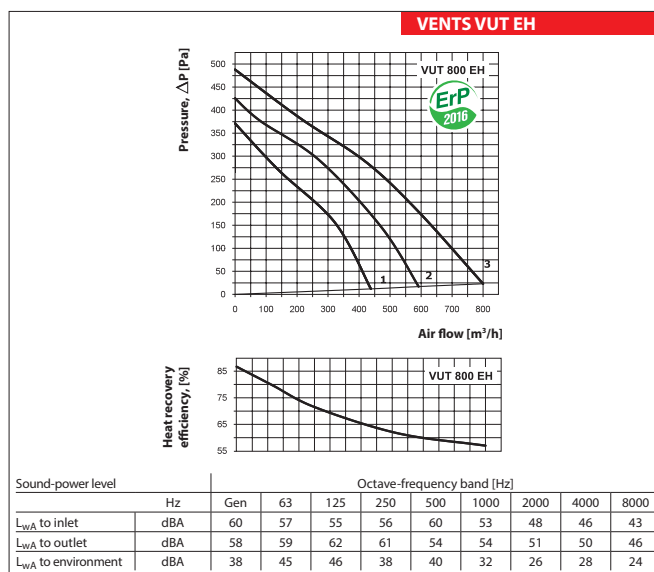
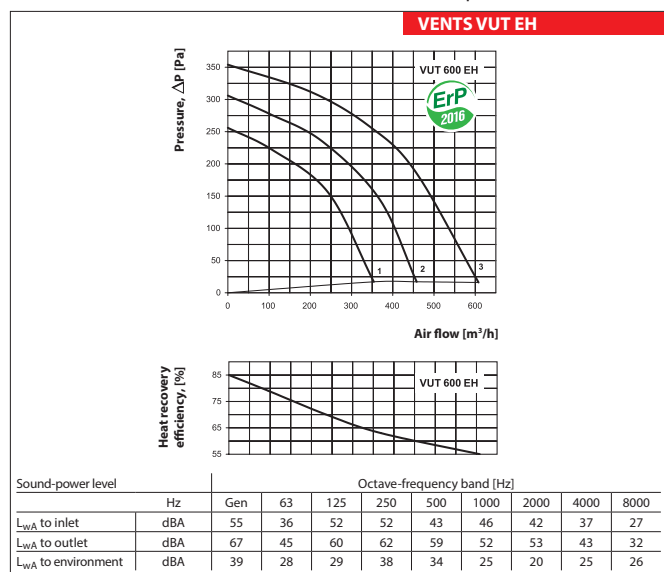
	VUT 350 EH	VUT 500 EH	VUT 530 EH
Voltage [V/Hz]	1~230/50-60		
Maximum fan power [W]	2 pcs. x 130	2 pcs. x 150	
Fan current [A]	2 pcs. x 0.60	2 pcs. x 0.66	
Electric heater power [kW]	3	3	4
Electric heater current [A]	13	13	17.4
Number of water (glycol) coil rows	–	–	–
Total unit power [kW]	3.26	3.3	4.3
Total unit current [A]	14.2	14.32	18.72
Air flow [m³/h]	350	500	530
RPM	1150	1100	1100
Noise level at 3m [dBA]	24-45	28-47	28-47
Transported air [°C]	-25 up to +40	-25 up to +40	-25 up to +40
Casing material	aluzinc	aluzinc	aluzinc
Insulation	25 mm mineral wool		
Extract filter	G4		
Supply filter	G4		
Connected air duct diameter [mm]	Ø 125	Ø 150	Ø 160
Weight [kg]	45	49	49
Heat recovery efficiency	up to 78 %	up to 88 %	up to 88 %
Heat exchanger type	cross-flow type		
SEC Class	E		
Heat exchanger material	polystyrol		



Technical data

	VUT 600 EH	VUT 800 EH	VUT 800 WH-2 VUT 800 WH-4
Voltage [V/Hz]	1~230/50-60	3~400/50-60	1~230/50
Maximum fan power [W]	2 pcs. x 195		2 pcs. x 245
Fan current [A]	2 pcs. x 0.86		2 pcs. x 1.08
Electric heater power [kW]	4	9.0	–
Electric heater current [A]	17.4	13.0	–
Number of water (glycol) coil rows	–	–	2 or 4
Total unit power [kW]	4.39	9.49	0.49
Total unit current [A]	19.1	15.16	2.16
Air flow [m³/h]	600	800	780
RPM	1350		1650
Noise level at 3m [dBA]	32-48		48
Transported air [°C]	-25 up to +40		-25 up to +40
Casing material		aluzinc	
Insulation		25 mm mineral wool	
Extract filter		G4	
Supply filter		G4	
Connected air duct diameter [mm]	Ø 200		Ø 250
Weight [kg]	54	85	88
Heat recovery efficiency	up to 85 %		up to 78 %
Heat exchanger type		cross-flow type	
SEC Class		E	
Heat exchanger material		polystyrol	

*option

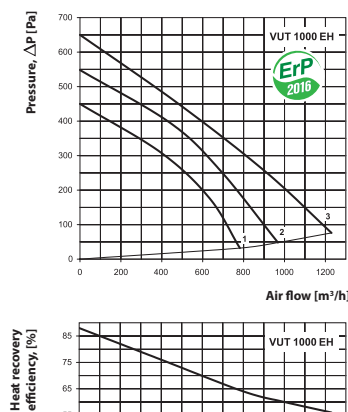


AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

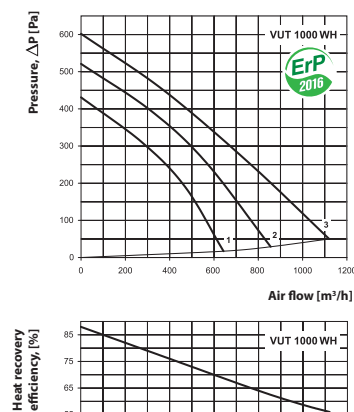
	VUT 1000 EH	VUT 1000 WH-2 VUT 1000 WH-4	VUT 1500 EH
Voltage [V/Hz]	3~400/50	1~230/50	3~400/50-60
Maximum fan power [W]	2 pcs. x 410		2 pcs. x 490
Fan current [A]	2 pcs. x 1.8		2 pcs. x 2.15
Electric heater power [kW]	9.0	–	18.0
Electric heater current [A]	13.0	–	26.0
Number of water (glycol) coil rows	–	2 or 4	–
Total unit power [kW]	9.80	0.82	18.98
Total unit current [A]	16.6	3.6	30.3
Air flow [m³/h]	1200	1100	1750
RPM	1850		1100
Noise level at 3m [dBA]	60		49
Transported air [°C]	-25 up to +40		-25 up to +40
Casing material	aluzinc		
Insulation	25 mm mineral wool		
Extract filter	G4		
Supply filter	G4		
Connected air duct diameter [mm]	Ø 250		Ø 315
Weight [kg]	85	88	96
Heat recovery efficiency	up to 78 %		up to 77 %
Heat exchanger type	cross-flow type		
Heat exchanger material	polystyrol		

VENTS VUT EH



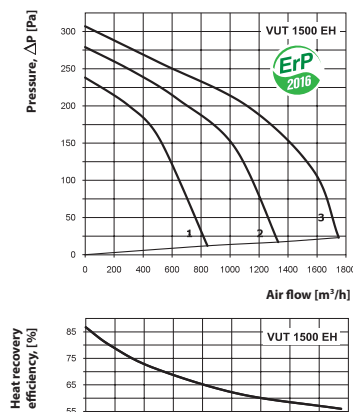
Sound-power level	Hz	Octave-frequency band [Hz]							
		Gen	63	125	250	500	1000	2000	4000
L _{WA} to inlet	dBA	69	68	66	68	68	60	63	61
L _{WA} to outlet	dBA	70	70	73	70	65	65	62	59
L _{WA} to environment	dBA	49	54	55	49	51	41	37	33

VENTS VUT WH



Sound-power level	Hz	Octave-frequency band [Hz]							
		Gen	63	125	250	500	1000	2000	4000
L _{WA} to inlet	dBA	68	68	70	69	66	61	62	61
L _{WA} to outlet	dBA	70	68	69	69	68	64	61	59
L _{WA} to environment	dBA	47	55	56	48	55	38	40	36

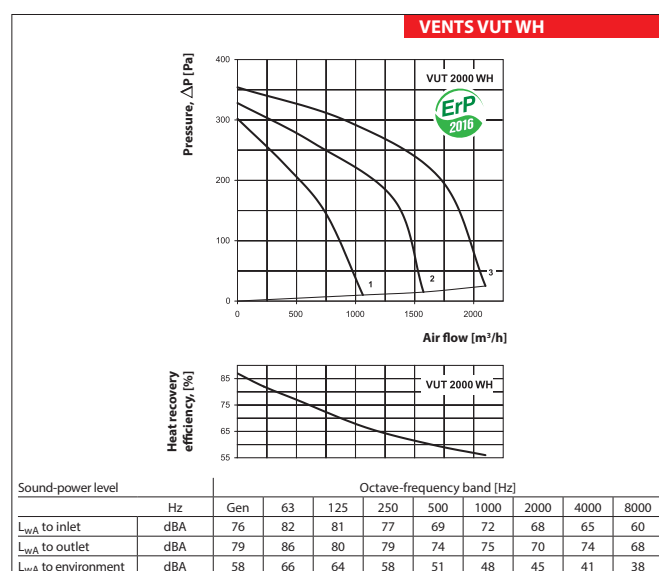
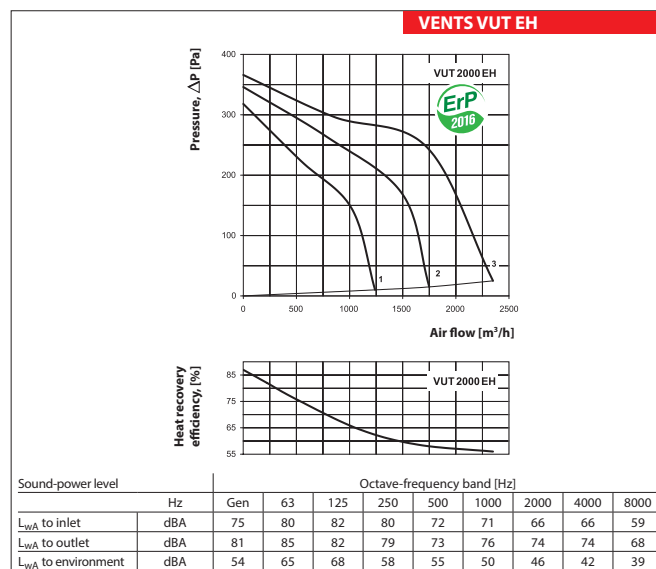
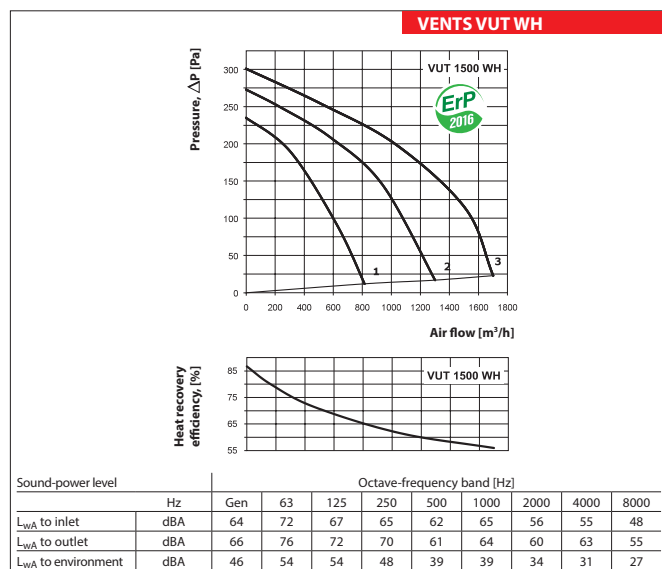
VENTS VUT EH



Sound-power level	Hz	Octave-frequency band [Hz]							
		Gen	63	125	250	500	1000	2000	4000
L _{WA} to inlet	dBA	66	69	71	68	64	64	51	51
L _{WA} to outlet	dBA	69	74	71	70	62	65	63	65
L _{WA} to environment	dBA	43	56	59	47	44	41	35	34

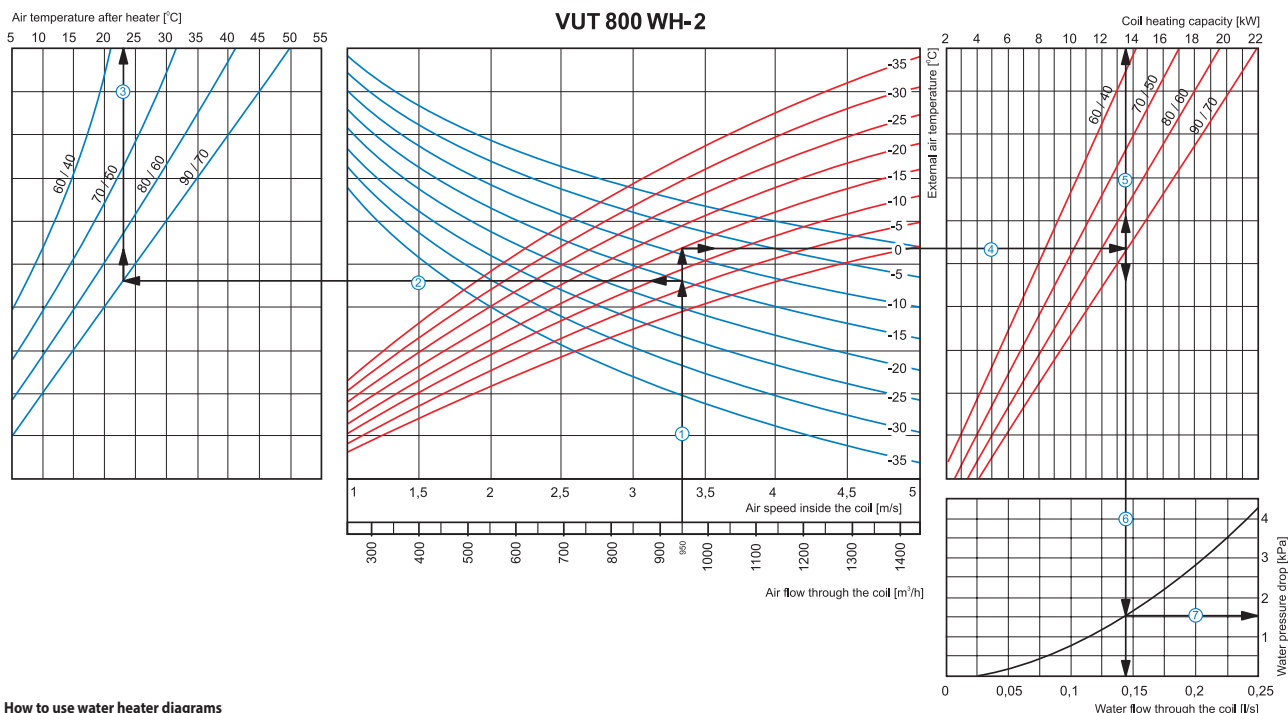
Technical data

	VUT 1500 WH-2 VUT 1500 WH-4	VUT 2000 EH	VUT 2000 WH-2 VUT 2000 WH-4
Voltage [V/Hz]	1~230/50	3~400/50-60	1~230/50
Maximum fan power [W]	2 pcs. x 490		2 pcs. x 650
Fan current [A]	2 pcs. x 2.15		2 pcs. x 2.84
Electric heater power [kW]	–	18.0	–
Electric heater current [A]	–	26.0	–
Number of water (glycol) coil rows	2 or 4	–	2 or 4
Total unit power [kW]	0.98	19.30	1.30
Total unit current [A]	4.3	31.7	5.68
Air flow [m³/h]	1700	2200	2100
RPM	1100		1150
Noise level at 3m [dBA]	49		65
Transported air [°C]	-25 up to +40		-25 up to +40
Casing material		aluzinc	
Insulation		25 mm mineral wool	
Extract filter		G4	
Supply filter		G4	
Connected air duct diameter [mm]		Ø 315	
Weight [kg]	99	96	99
Heat recovery efficiency		up to 77 %	
Heat exchanger type		cross-flow type	
Heat exchanger material		polystyrol	



Hot water coil parameters

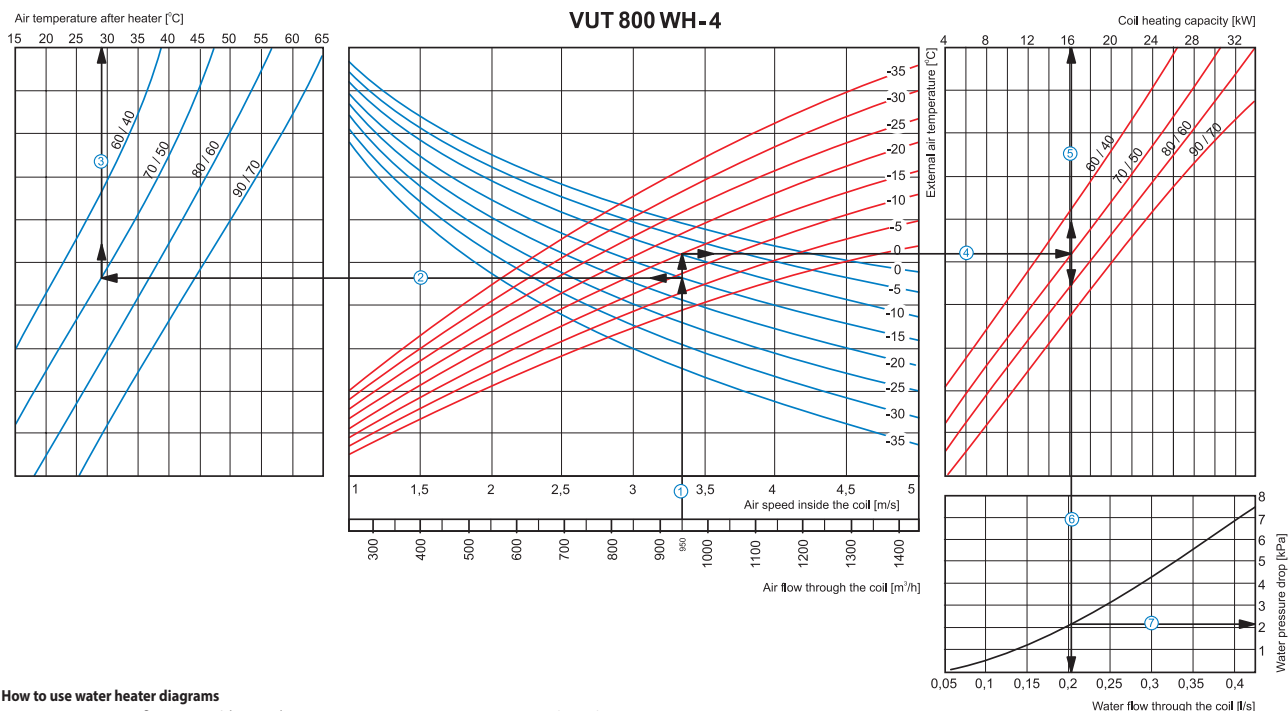
VENTS VUT WH



How to use water heater diagrams

System Parameters: Air flow = 950 m³/h. Outside air temper. = -15 °C. Water temperature (in/out) = 90/70 °C

- **Air Speed.** Starting from 950 m³/h on the air flow scale draw a vertical line ① till the air speed axis which makes about 3.35 m/s.
- **Supply air temperature.** Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 90/70 °C). From this point draw a vertical line ③ up to the supply air temperature axis on top of the graphic (+23 °C).
- **Heating coil capacity.** Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g., 90/70 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (13.5 kW).
- **Water flow.** Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.14 l/s).
- **Water pressure drop.** Draw the line ⑦ from the point where the line ⑥ crosses the black curve to the pressure drop axis. (1.5 kPa).



How to use water heater diagrams

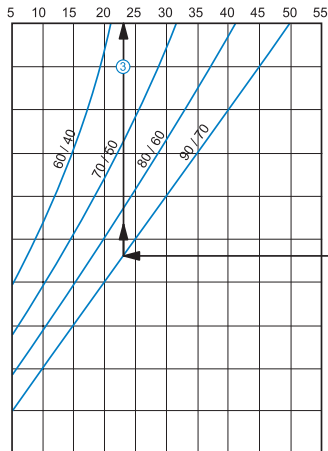
System parameters: Air flow = 950 m³/h. Outside air temperature = -15 °C. Water temperature (in/out) = 70/50 °C.

- **Air Speed.** Starting from 950 m³/h on the air flow scale draw a vertical line ① till the air speed axis which makes about 3.35 m/s.
- **Supply air temperature.** Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 70/50 °C). From this point draw a vertical line ③ up to the supply air temperature axis on top of the graphic (+29 °C).
- **Heating coil capacity.** Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g., 70/50 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (16.0 kW).
- **Water flow.** Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.2 l/s).
- **Water pressure drop.** Draw the line ⑦ from the point where the line ⑥ crosses the black curve to the pressure drop axis. (2.1 kPa).

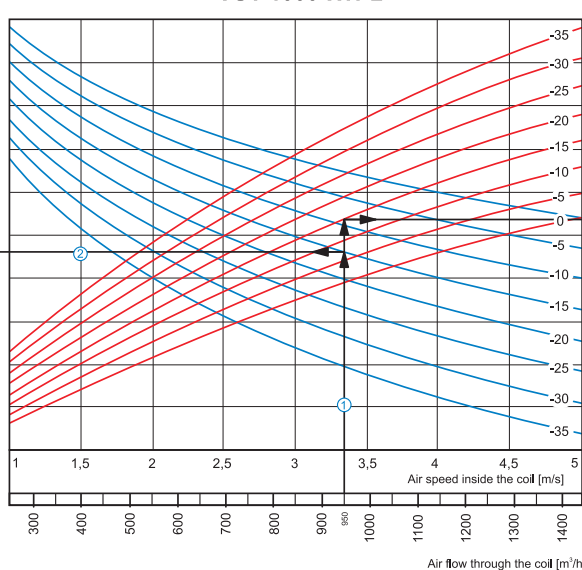
Hot water coil parameters

VENTS VUT WH

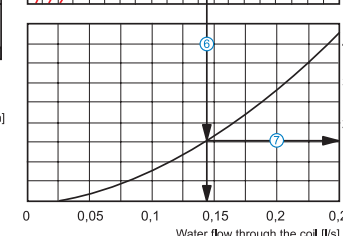
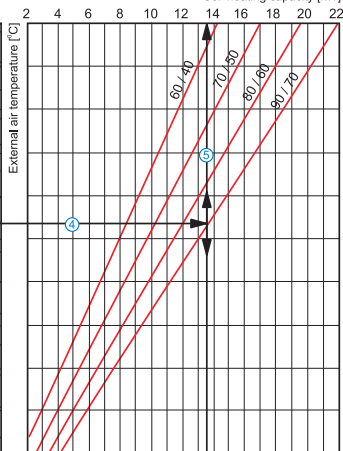
Air temperature after heater [°C]



VUT 1000 WH-2



Coil heating capacity [kW]



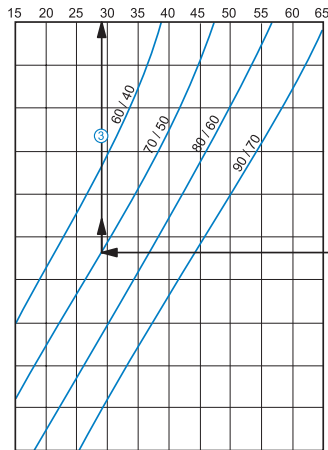
How to use water heater diagrams

System Parameters: Air flow = 950 m³/h. Outside air temper. = -15 °C. Water temperature (in/out) = 90/70 °C

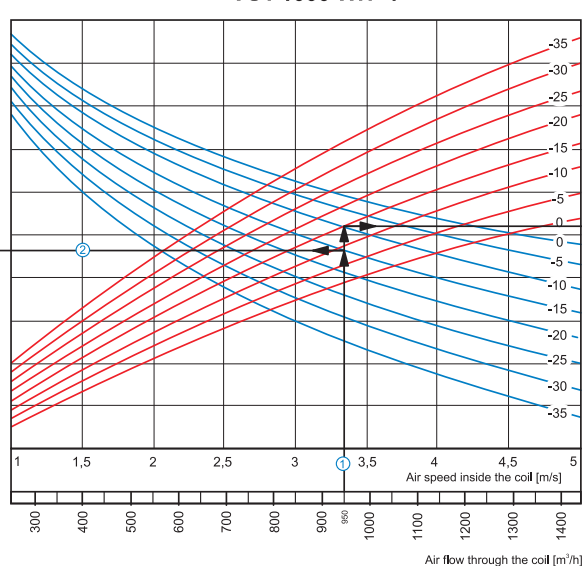
- Air Speed. Starting from 950 m³/h on the air flow scale draw a vertical line ① till the air speed axis which makes about 3.35 m/s.
- Supply air temperature. Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 90/70 °C). From this point draw a vertical line ③ to the supply air temperature axis on top of the graphic (+23 °C).
- Heating coil capacity. Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g., 90/70 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (13.5 kW).
- Water flow. Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.14 l/s).
- Water pressure drop. Draw the line ⑦ from the point where the line ⑤ crosses the black curve to the pressure drop axis. (1.5 kPa).

VENTS VUT WH

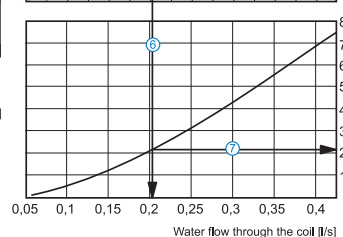
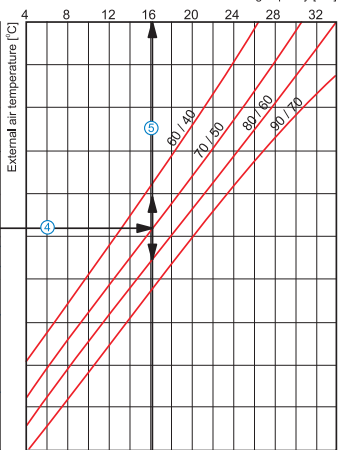
Air temperature after heater [°C]



VUT 1000 WH-4



Coil heating capacity [kW]



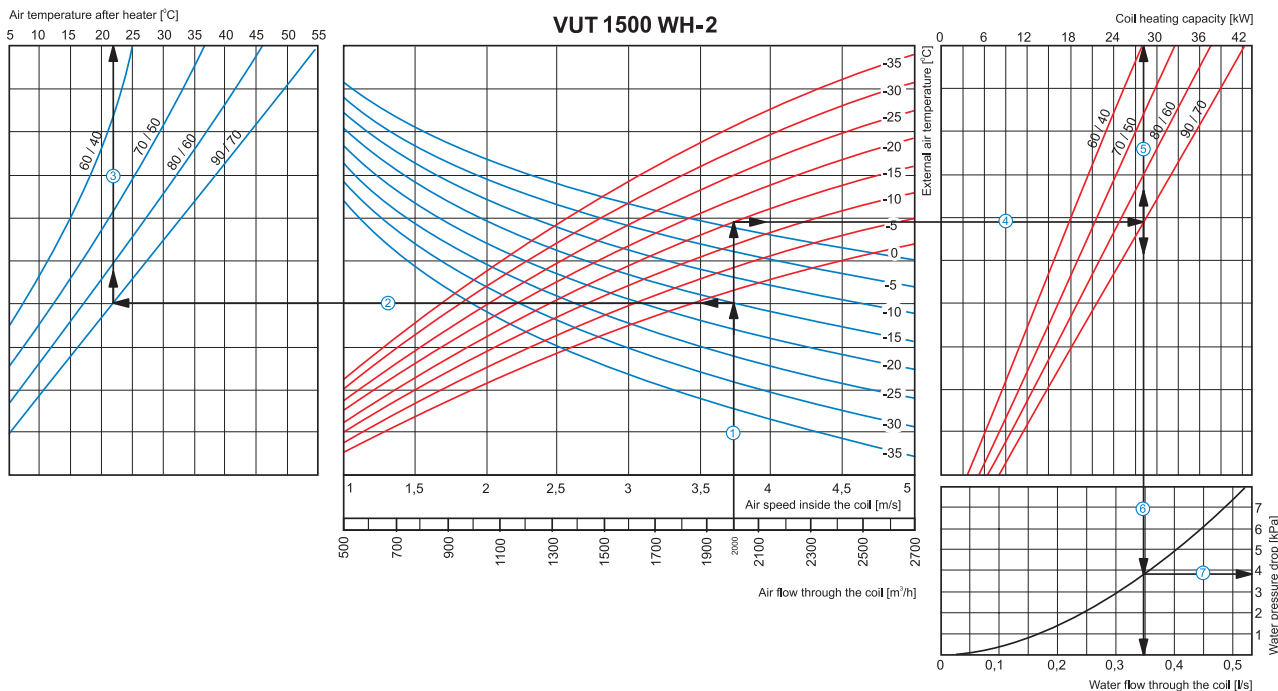
How to use water heater diagrams

System parameters: Air flow = 950 m³/h. Outside air temperature = -15 °C. Water temperature (in/out) = 70/50 °C.

- Air Speed. Starting from 950 m³/h on the air flow scale draw a vertical line ① till the air speed axis which makes about 3.35 m/s.
- Supply air temperature. Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 70/50 °C). From this point draw a vertical line ③ to the supply air temperature axis on top of the graphic (+29 °C).
- Heating coil capacity. Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g., 70/50 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (16.0 kW).
- Water flow. Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.2 l/s).
- Water pressure drop. Draw the line ⑦ from the point where the line ⑤ crosses the black curve to the pressure drop axis. (2.1 kPa).

Hot water coil parameters

VENTS VUT WH

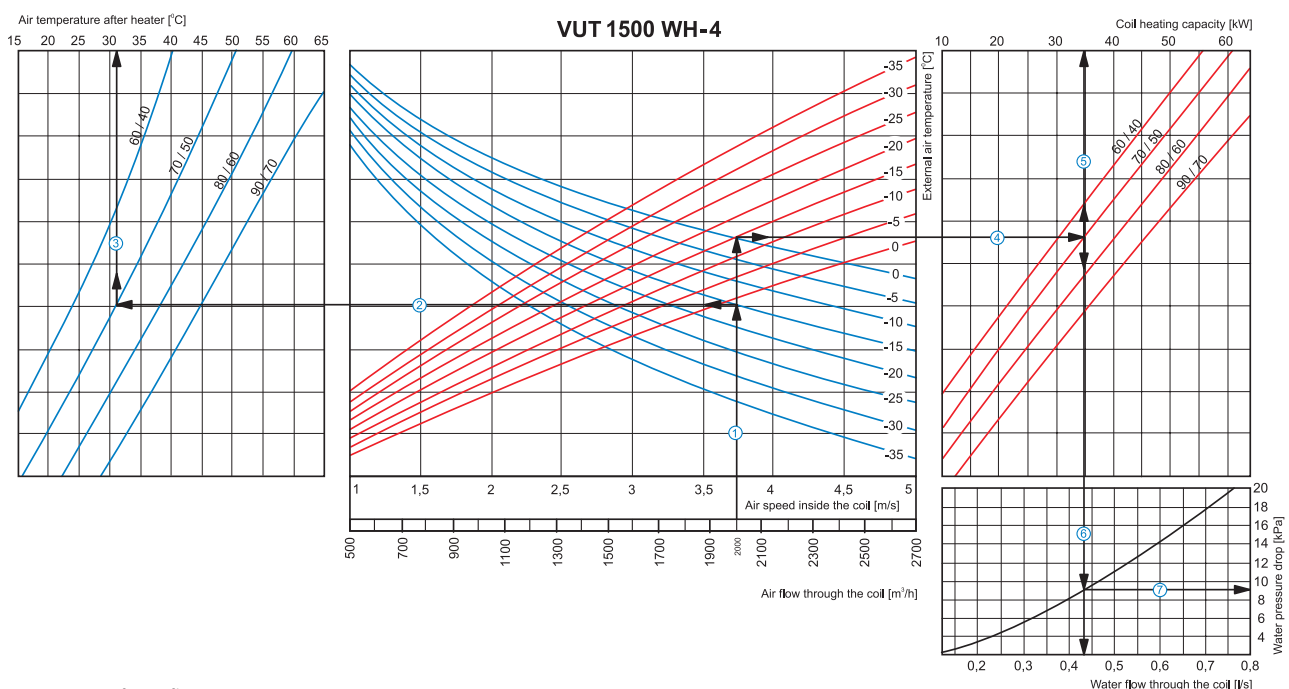


How to use water heater diagrams

System Parameters: Air flow = 2000 m³/h. Outside air temperature = -15 °C. Water temperature (in/out) = 90/70 °C.

- Air Speed. Starting from 2000 m³/h on the air flow scale draw a vertical line ① till the air speed axis. (3.75 m/s).
- Supply air temperature. Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 90/70 °C). From this point draw a vertical line ③ to the supply air temperature axis on top of the graphic (+22 °C).
- Heating coil capacity. Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g. 90/70 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (28.0 kW).
- Water flow. Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.35 l/s).
- Water pressure drop. Draw the line ⑦ from the point where the line ⑥ crosses the black curve to the pressure drop axis. (3.8 kPa).

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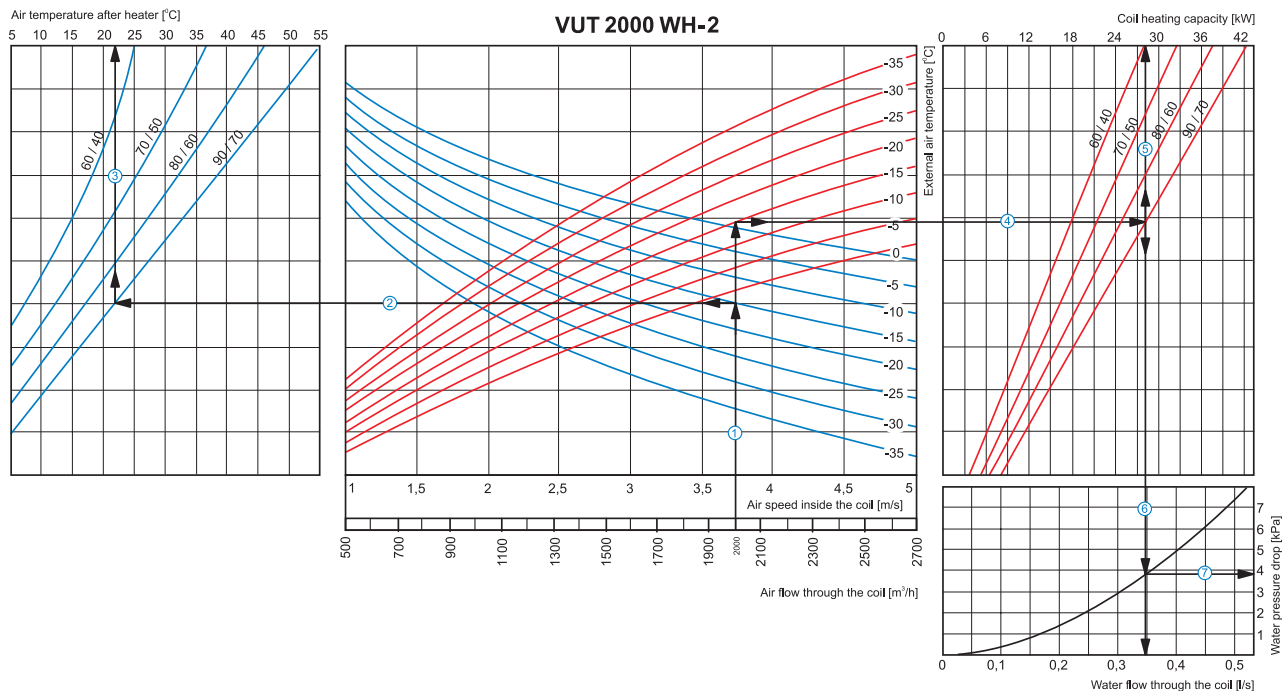
How to use water heater diagrams

System Parameters: Air flow = 2000 m³/h. Outside air temperature = -15 °C. Water temperature (in/out) = 70/50 °C.

- Air Speed. Starting from 2000 m³/h on the air flow scale draw a vertical line ① till the air speed axis which makes about 3.75 m/s.
- Supply air temperature. Prolong the line ① up to the point where it crosses the outside air temperature (blue curve, e.g. -15 °C); then draw a horizontal line ② from this point to the left till crossing water in/out temperature curve (e.g. 70/50 °C). From this point draw a vertical line ③ to the supply air temperature axis on top of the graphic (+31 °C).
- Heating coil capacity. Prolong the line ① up to the point where it crosses the outside air temperature (e.g. -15 °C, red curve) and draw a horizontal line ④ from this point to the right until it crosses water in/out temperature curve (e.g. 70/50 °C), from here draw a vertical line ⑤ up to the scale representing the heating coil capacity (35.0 kW).
- Water flow. Prolong the line ⑤ down to water flow axis at the bottom of the graphic ⑥ (0.43 l/s).
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Hot water coil parameters

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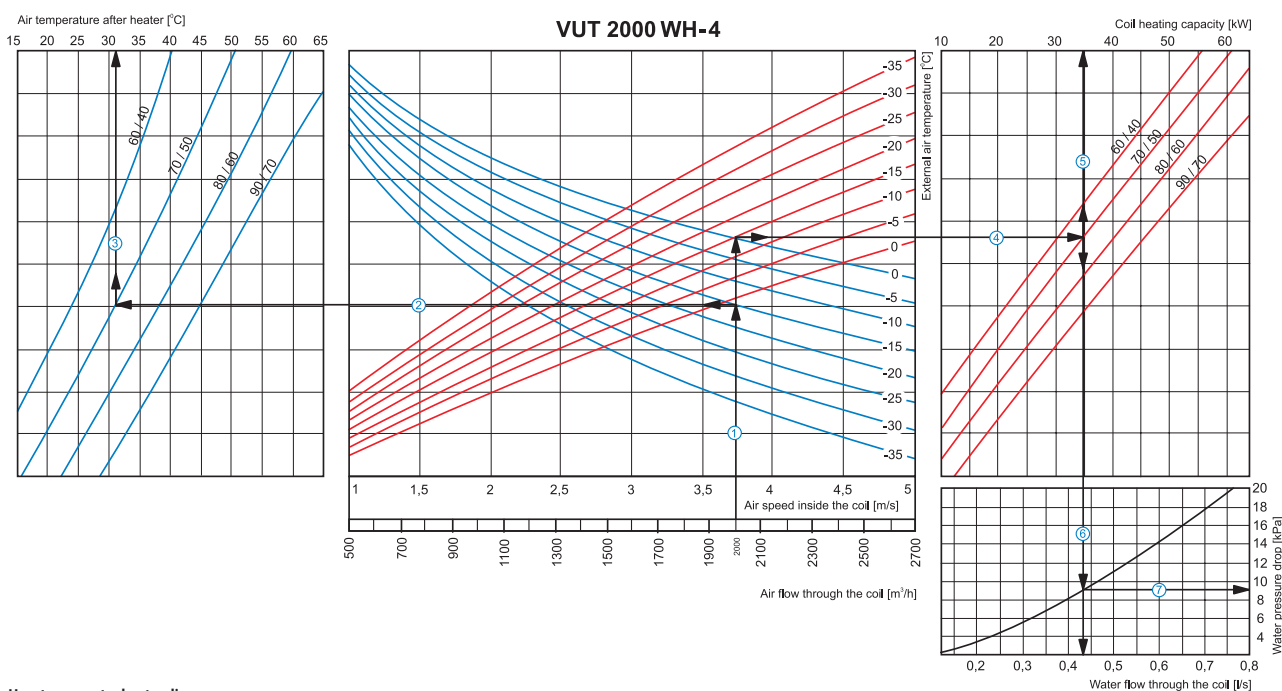


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