



Vallox 132_E

• 1.09.409E
• 3.10.2012
• Typ A3550 E
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VALLOX 132 E R



Speed selection switch

TECHNICAL SPECIFICATION

- Cross-flow heat recovery cell ($\eta > 60\%$)
- Alternating current fans
- 4-step transformer adjustment
- Fireplace/booster function (optional)
- Manual heat recovery cell bypass during summer
- Fireplace switch function (option)
- Antifrost
- Maintenance reminder
- Good outdoor air filtering (F7)
- Wide selection of radiator options
- Silencer unit (option)

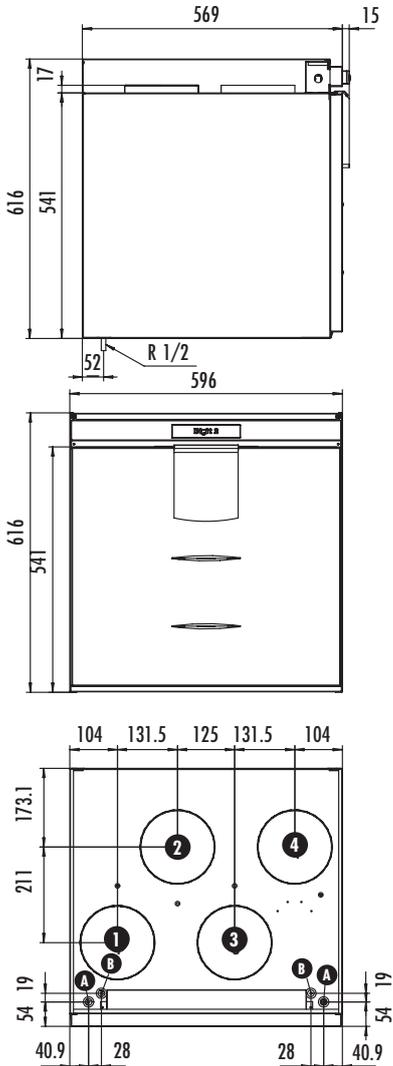
Electrical connection	230 V, 50 Hz
Class of protection	IP 34
Fans	Extract air 210 W 0.91 A (AC) 120 dm ³ /s (120 Pa) Supply air 210 W, 0.91 A (AC) 110 dm ³ /s (100 Pa)
Heat recovery	Cross-flow cell, $n > 60\%$
Filters	Supply air G4 and F7 Extract air G4
Weight	71 kg
Power adjustment	Separate four-step speed selector or PTEXP/i132 cooker hood
Options 132 E/132 E VKL	Filter guard (supply and/or extract air) Insulated attic floor penetration plate Ceiling mounting plate Vallox 132 E VKL expansion tank + stand VKL heat exchanger pipe for Vallox 132 VKL Fireplace switch with 0-120 min. timer, surface mounting Fireplace switch with 0-120 min. timer, flush mounting Silencer unit
Options VALLOX 132 E	2.7 kW, 12.0 A Preheating unit Electric 1200 W, 5.2 A Post-heating unit Electric 1200 W, 5.2 A
Options VALLOX 132 E VKL	1.55 kW, 6.7 A Preheating unit Electric 1200 W, 5.2 A Post-heating unit VKL water radiator



VALLOX 132 E

DIMENSIONS AND MAIN PARTS

Dimensions and duct outlets



Duct outlets

Inner diameter of collar \varnothing 160 mm + connector outlets.

The letter L or R after the name of the unit indicates whether the unit is left- or right-handed.

Model R

- 1 Supply air to the dwelling
- 2 Extract air from the dwelling
- 3 Outdoor air to the unit
- 4 Exhaust air outside

Model L

- 1 Exhaust air outside
- 2 Outdoor air to the unit
- 3 Extract air from the dwelling
- 4 Supply air to the dwelling
- A Supply liquid/water
- B Return liquid/water

Code: A3550 E

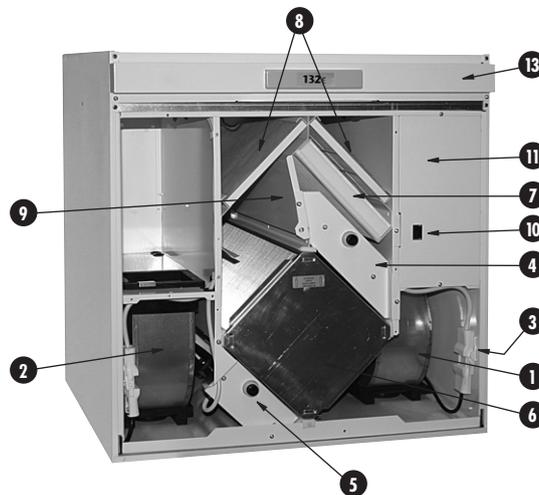
VALLOX 132 E

- Preheating radiator: electric, 1200 W
- Post-heating radiator: electric, 1200 W

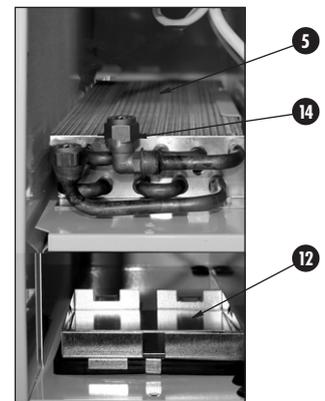
VALLOX 132 E VKL

- Preheating radiator: electric 1200 W
- Post-heating radiator: VKL water radiator

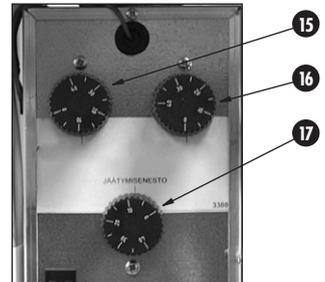
The picture shows VALLOX 132 E model R (electric radiator model).



Post-heating unit for the VKL model



Thermostats (behind cover plate 11)



Main parts

- 1 Extract air fan 210 W/0.92 A, alternating current (AC)
- 2 Supply air fan 210 W/0.92 A, alternating current (AC)
- 3 Electrical quick-connect terminal for fan
- 4 Preheating unit (electric 1.2 kW, option)
- 5 Post-heating unit (electric 1.2 kW or water, option)
- 6 Heat recovery cell
- 7 Outdoor air filter F7
- 8 Outdoor and extract air prefilter G4
- 9 Summer/winter damper
- 10 Maintenance switch
- 11 Connection box cover plate
- 12 Self-actuated one-way dampers (only in VKL models)
- 13 Air flow measuring outlets (behind cover plate)
- 14 Connection \varnothing 12 (only in VKL models)
- 15 Electric radiator unit (option): post-heating adjustment
VKL model (option):
VKL radiator antifreeze
- 16 Preheating adjustment
- 17 Antifrost function of the heat recovery cell



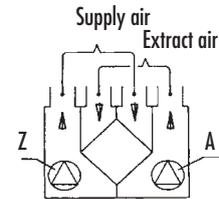
Air flows/Vallox 132 E (electric radiator unit, winter setting)

E = Extract air fan
S = Supply air fan

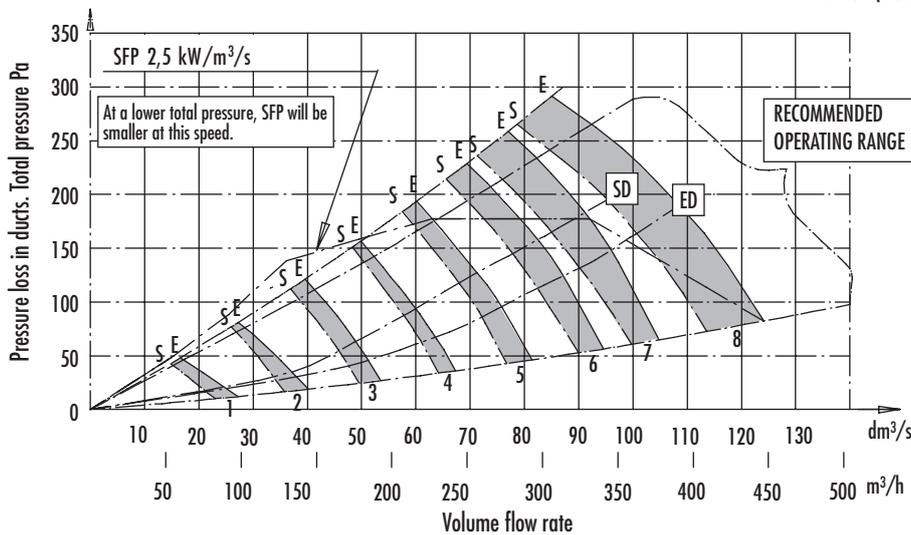
ED and SD are examples of pressure losses in supply and extract ducts

SFP (Specific Fan Power) guideline value < 2.5 (kW m³/s)

$$SFP = \frac{\text{Input power (total) (W)}}{\text{Air flow (max.) (dm}^3/\text{s)}}$$



Measuring points after the connection outlet. Fan curves indicate the total pressure available for duct losses.



Fan speeds	Control voltage (V)	Fan input power W
1	60	42
2	80*	67
3	100	97
4	120*	130
5	140	167
6	160*	205
7	180	242
8	230*	315

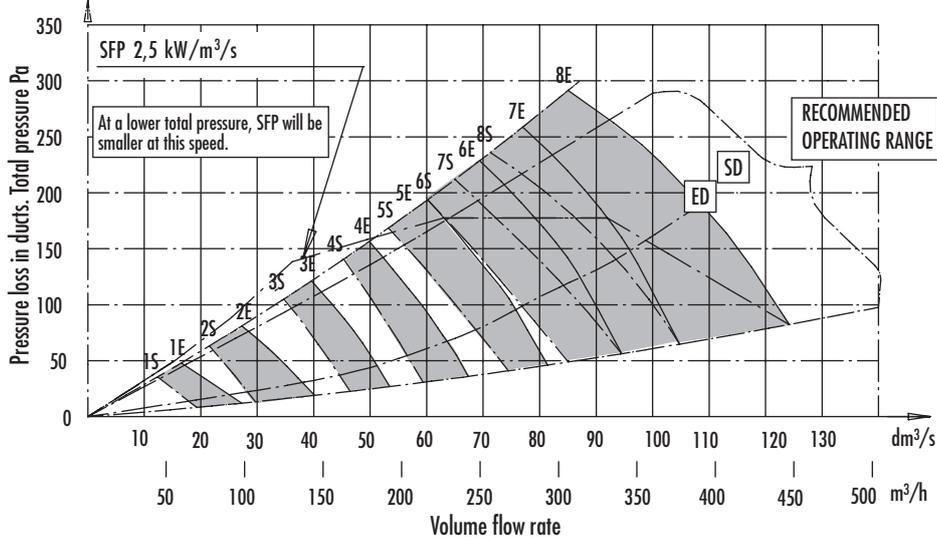
*) Factory preselected control speeds

Air flows/Vallox 132 E VKL (liquid radiator unit, winter setting)

E = Extract air fan
S = Supply air fan

ED and SD are examples of pressure losses in supply and extract ducts

SFP (Specific Fan Power) guideline value < 2.5 (kW m³/s)



NOTE!

If the unit has a post-heating radiator, it must be selected when the system is adjusted.

Air flow measurement outlets



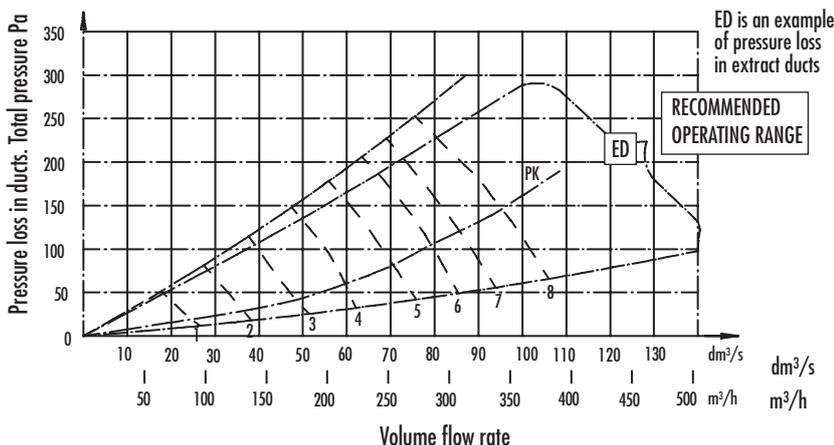
The fixed air flow measurement outlets are located behind the cover plate.

You can measure the total pressure of the supply and extract air ductwork at the measurement outlets using a pressure gauge.

Compare the pressure readings with the adjoining air volume curves to see unit air flows at various adjustment positions.

The red measurement hose gives the pressure reading for the supply air fan curve and the black hose the pressure reading for the extract air fan curve. Observe unit model and setting (summer or winter).

Extract air flow during heat recovery bypass (summer setting)



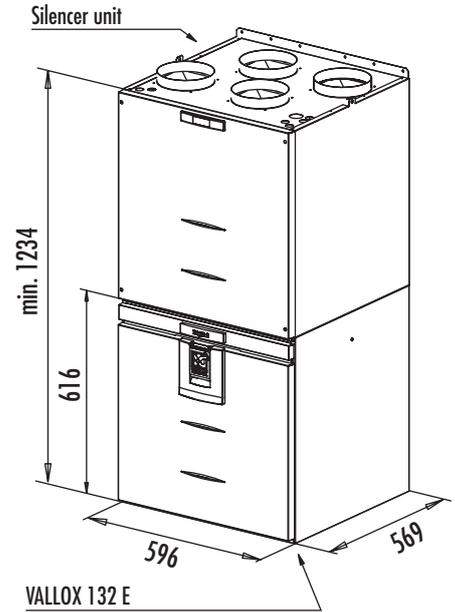
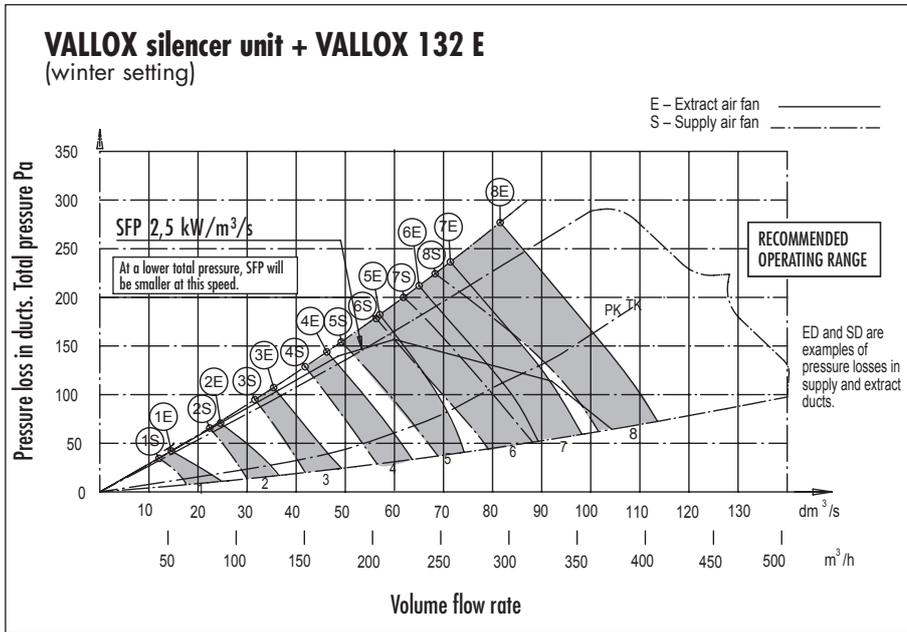


VALLOX 132 E

PERFORMANCE

Sound values	Sound power level from the ventilation unit to supply air ducts by octave band L _w , dB								Sound power level from the ventilation unit to extract air ducts by octave band L _w , dB								
	AP qV, dm ³ /s	ADJUSTMENT POSITION / AIR FLOW								ADJUSTMENT POSITION / AIR FLOW							
		1 15,2	2 25,8	3 36,1	4 48,3	5 59,2	6 70,5	7 79,1	8 89,8	1 23,7	2 33,3	3 42,2	4 54,5	5 68,5	6 82,7	7 92,1	8 109,0
Medium frequency of the octave band, Hz	63	64,1	68,7	71,2	74,4	73,3	77,0	77,2	78,2	50,3	56,3	63,4	66,8	66,3	64,1	70,2	70,4
	125	52,3	58,4	62,6	68,0	68,3	69,5	70,6	72,8	39,4	50,0	56,7	61,4	62,9	63,4	65,2	66,9
	250	42,8	49,7	54,8	58,1	61,1	63,7	65,3	67,5	31,6	39,8	47,0	52,1	55,4	59,9	60,0	62,2
	500	42,8	46,6	51,0	54,0	56,8	59,1	61,0	63,5	30,3	34,3	40,2	44,2	46,7	48,7	50,6	52,9
	1000	39,8	51,1	52,9	55,6	58,0	59,2	60,3	61,8	25,9	34,2	39,4	42,7	45,0	46,8	48,1	50,2
	2000	29,4	37,3	43,8	48,1	51,6	55,0	58,4	61,0	17,4	27,0	33,9	38,9	42,3	45,0	47,1	49,5
	4000	24,6	32,9	39,4	43,8	47,0	49,9	51,9	54,3			25,2	31,5	34,4	37,1	39,2	41,9
	8000		23,2	31,5	39,4	42,8	45,8	47,9	50,7					24,3	26,5	32,5	36,3
	L _w , dB	64,4	69,2	71,9	75,5	74,9	78,0	78,5	79,8	50,8	57,3	64,4	68,0	68,2	69,1	71,8	72,5
	L _{wA} , dB(A)	44,7	52,6	55,9	59,3	61,7	63,7	65,5	67,6	32,1	39,5	45,9	50,1	52,5	54,2	56,1	58,2
		A-weighted sound pressure level dB (A) coming from the unit through the envelope in rooms where the unit has been installed (10 m ² sound absorption)								Vallox 132 E							
		ADJUSTMENT POSITION / AIR FLOWS (supply / extract)															
	AP supply/extract, dm ³ /s	1 20,3 / 23,2	2 32,1 / 35,1	3 44,5 / 47,8	4 56,8 / 61,2	5 68,4 / 74,4	6 78,4 / 86,2	7 86,2 / 95,7	8 97,3 / 109,0								
	L _{pA} , dB(A)	11,8	23,7	28,9	32,8	36,2	38,5	40,7	42,9								

PERFORMANCE / VALLOX SILENCER UNIT



Sound values Digit 132 E + silencer unit

Adjustment position Air flow (dm ³ /s)/pressure (Pa)	Sound power level by octave band in supply air ducts after the silencer unit L _W (dB)								Sound power level by octave band in extract air ducts after the silencer unit L _W (dB)							
	ADJUSTMENT POSITION/AIR FLOW								ADJUSTMENT POSITION/AIR FLOW							
	1 16/24	2 25/47	3 36/70	4 48/90	5 58/104	6 68/116	7 75/131	8 87/148	1 25/7	2 38/7	3 46/46	4 59/69	5 72/79	6 82/106	7 92/112	8 104/141
63	64	67	69	72	72	74	77	76	54	61	65	68	69	71	71	74
125	51	57	61	66	69	68	69	70	*	40	52	56	59	60	63	65
250	39	45	49	53	56	58	60	62	22	34	42	47	51	54	56	59
500	25	31	35	38	41	43	45	48	*	18	26	32	37	40	42	45
1000	10	21	21	24	26	29	31	34	*	*	11	21	28	32	36	39
2000	*	*	*	13	11	17	18	21	*	*	*	*	12	18	23	28
4000	*	*	*	*	14	19	22	24	*	*	*	*	*	*	*	16
8000	*	*	*	*	*	*	*	23	*	*	*	*	*	*	*	*
L_W dB	64	67	70	73	74	75	77	77	54	61	65	68	70	71	72	74
L_{WA} dB(A)	37	43	46	50	53	54	55	56	24	32	39	43	46	48	50	53
Adjustment position Air flow (dm ³ /s)/pressure (Pa)	A-weighted sound pressure level dB (A) coming from the unit through the envelope in the rooms where the unit has been installed (10 m ² sound absorption)															
	ADJUSTMENT POSITION/AIR FLOWS (supply/extract)															
	1 20/25	2 31/37	3 43/50	4 55/64	5 66/77	6 76/89	7 84/99	8 95/112								
L_{pA} dB(A)	20	26	31	34	37	40	41	44								



VALLOX 132 E

VENTILATION ADJUSTMENT



Speed selector



VALLOX 1993 A YK control centre



Cooker hood PTXP/i132

Speed selector

Vallox 132 E comes with a four-step speed selector switch. The flush-mounted switch is mounted in a standard instrument box. The switch can be used to select four of the eight speeds for the unit. Speeds 2, 4, 6 and 8 have been preselected for the unit. An expert may select different speeds at the transformer of the unit.

Remote monitoring control

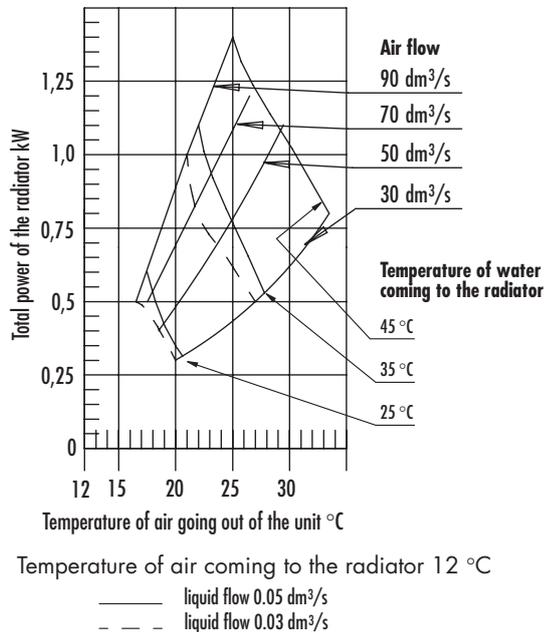
It is sometimes necessary (for example in public facilities) to control the unit by remote monitoring. The unit can then be controlled by VALLOX control centre 1993A YK, for instance. Two speeds and one bypass speed can be chosen at the centre; the bypass speed can be used to bypass the two first speeds. The standard four-step switch can also be replaced with a corresponding control system, which must be planned by an expert for each specific case.

Control with a cooker hood

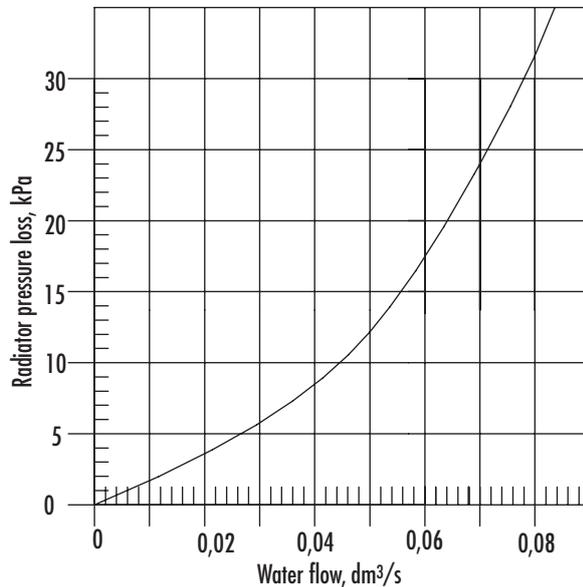
If cooking smoke abatement is connected directly to the unit, it can be controlled with cooker hood PTXP/i132 or PTXPA/i132.

VALLOX 132 E/VKL post-heating radiator performance (option)

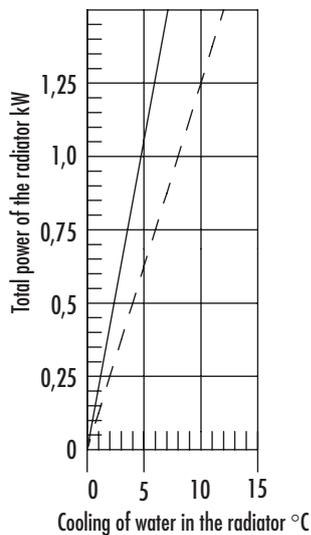
Power of VKL water radiator



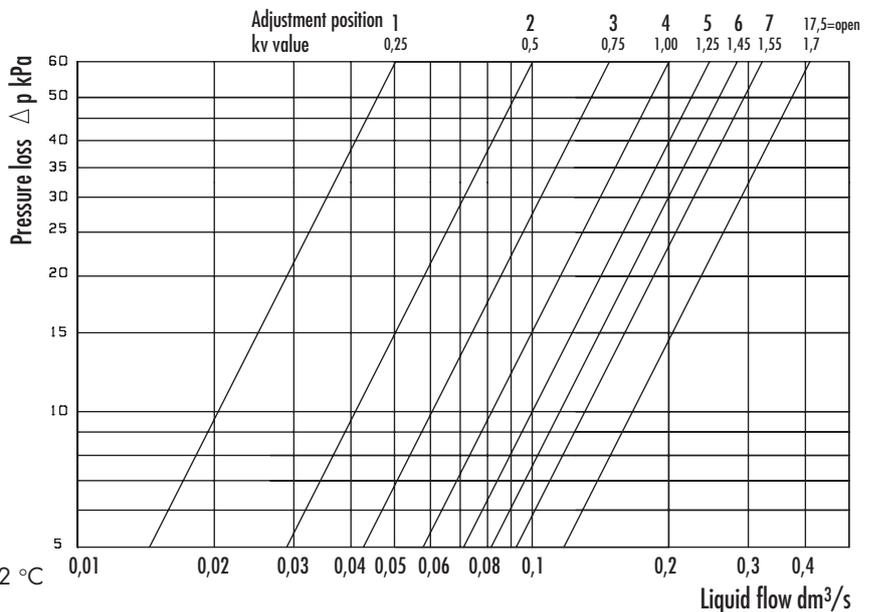
Pressure loss in the VKL water radiator



Cooling of water in the radiator



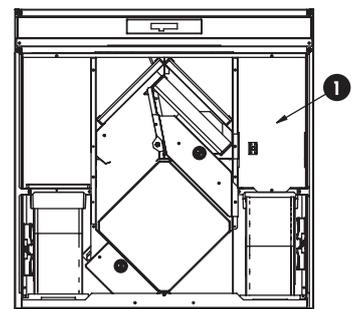
Pressure loss in the valve



Water radiator freezing protection

VALLOX 132 E VKL comes standard with a thermostat, which protects the radiator against freezing. It stops the unit when radiator temperature goes below +5 °C. When this happens, the self-actuated dampers close. The unit restarts and the dampers open as soon as radiator temperature exceeds +10 °C. The stopping threshold can be adjusted. The thermostats are located below cover 1.

Note! Power supply to the unit must be turned off on the electric board before opening the cover.

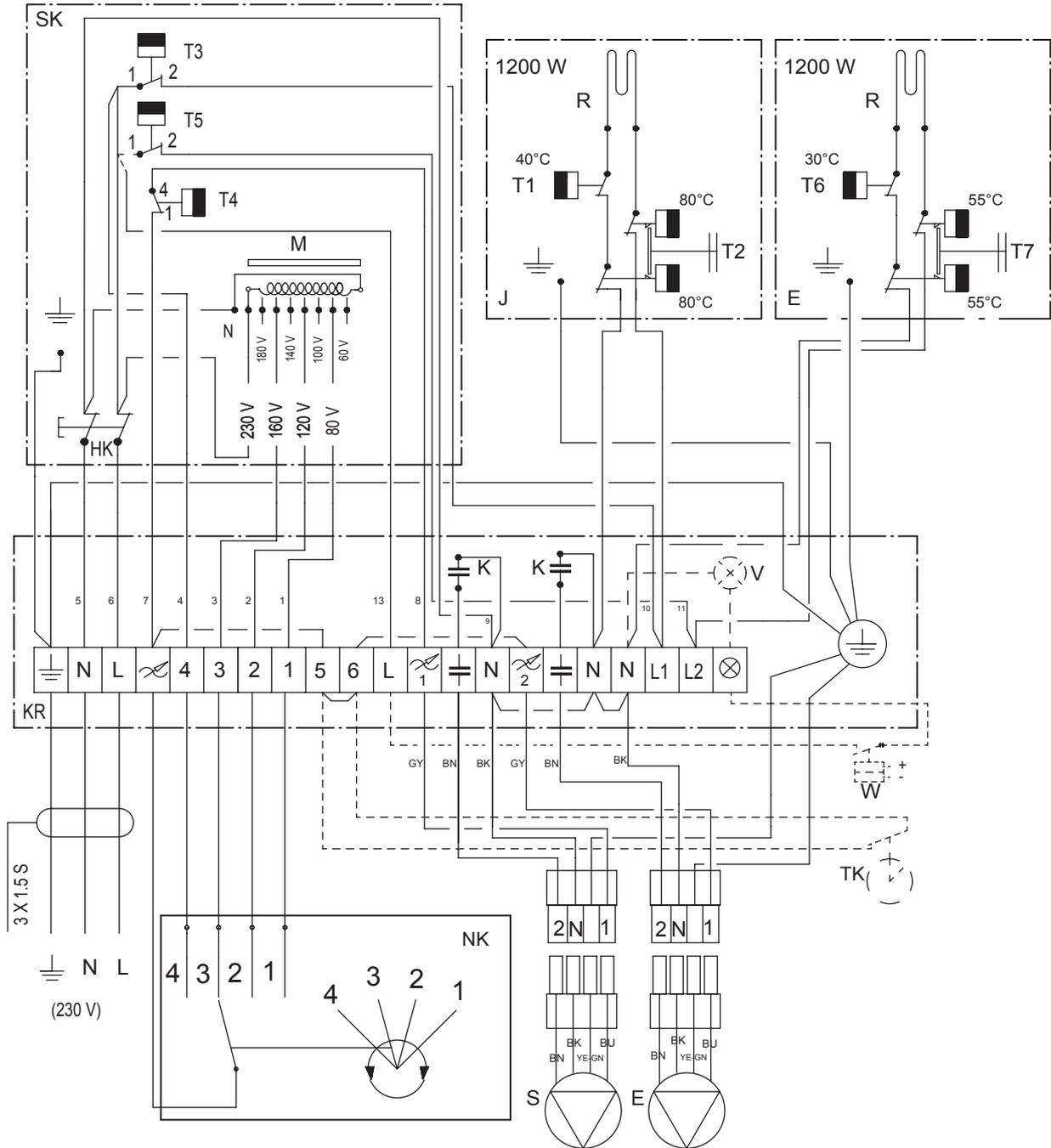




VALLOX 132 E

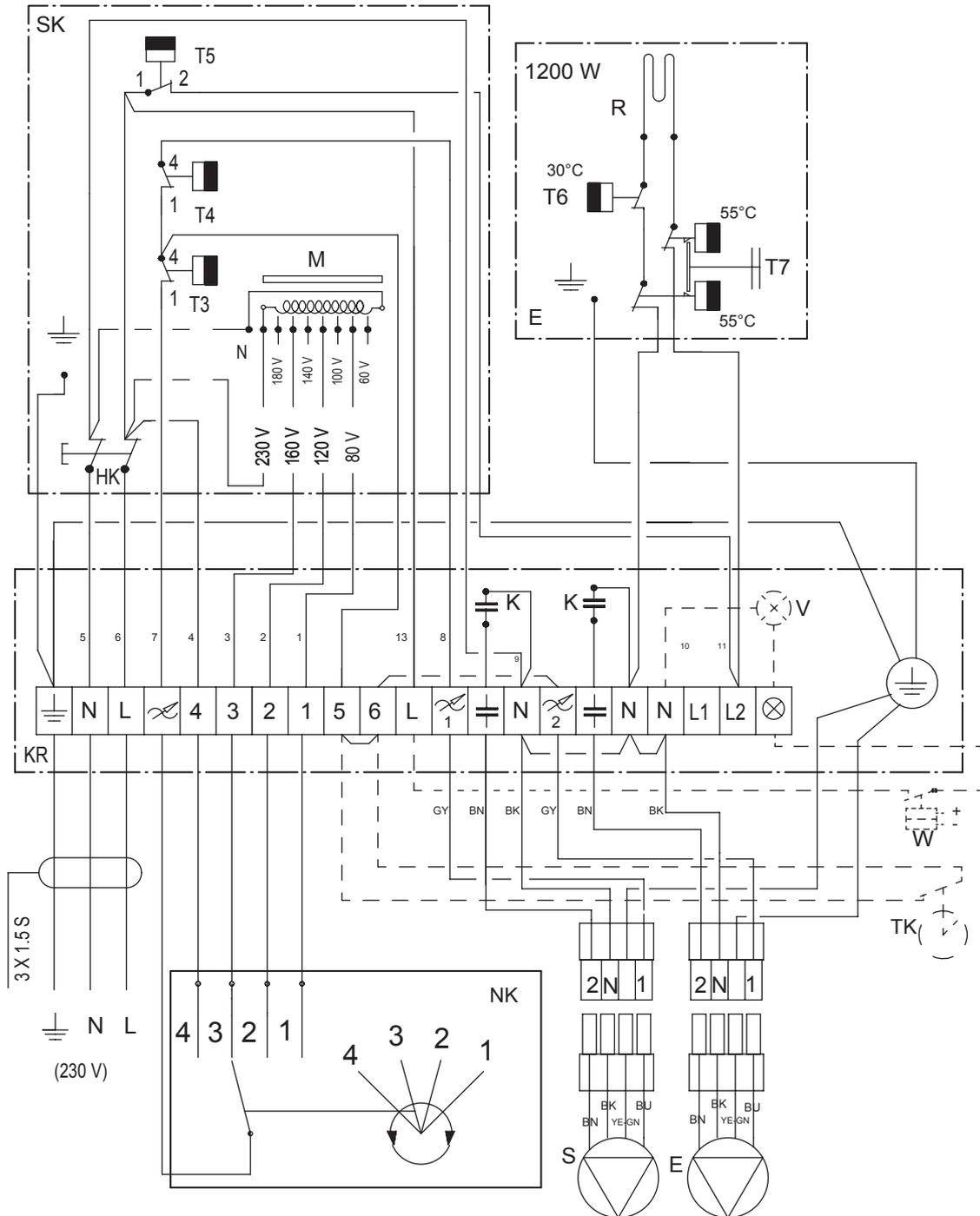
INTERNAL ELECTRICAL DIAGRAMS

Electric post-heating radiator



- | | | | | | | | |
|----|---|----|--|----|---|-------|--------------|
| S | Supply air fan | T6 | Overheat protection, 30 °C, automatic | V | Indicator of pressure difference switch, option | BU | blue |
| E | Extract air fan | T7 | Overheat protection, 2 pcs, 55 °C | J | Post-heating radiator | GY | grey |
| T1 | Overheat protection, 40 °C, automatic | M | Transformer | E | Preheating radiator | BN | brown |
| T2 | Overheat protection, 2 pcs, 80 °C, manually reset | K | Capacitor 4µF | KR | Connection box (on top of the unit) | BK | black |
| T3 | Post-heating radiator regulating thermostat +0...+40 °C | HK | Maintenance switch | SK | Connection box (inside the unit) | YE-GN | yellow-green |
| T4 | Antifreeze thermostat, cell +4 °C | TK | Fireplace switch, e.g. 15 min. timer with opening contacts, option Mounted to replace wire 5-6 | | | | |
| T5 | Preheating radiator regulating thermostat +5 °C | NK | Cam switch | | | | |
| | | W | Pressure difference switch, option | | | | |

VKL water post-heating radiator



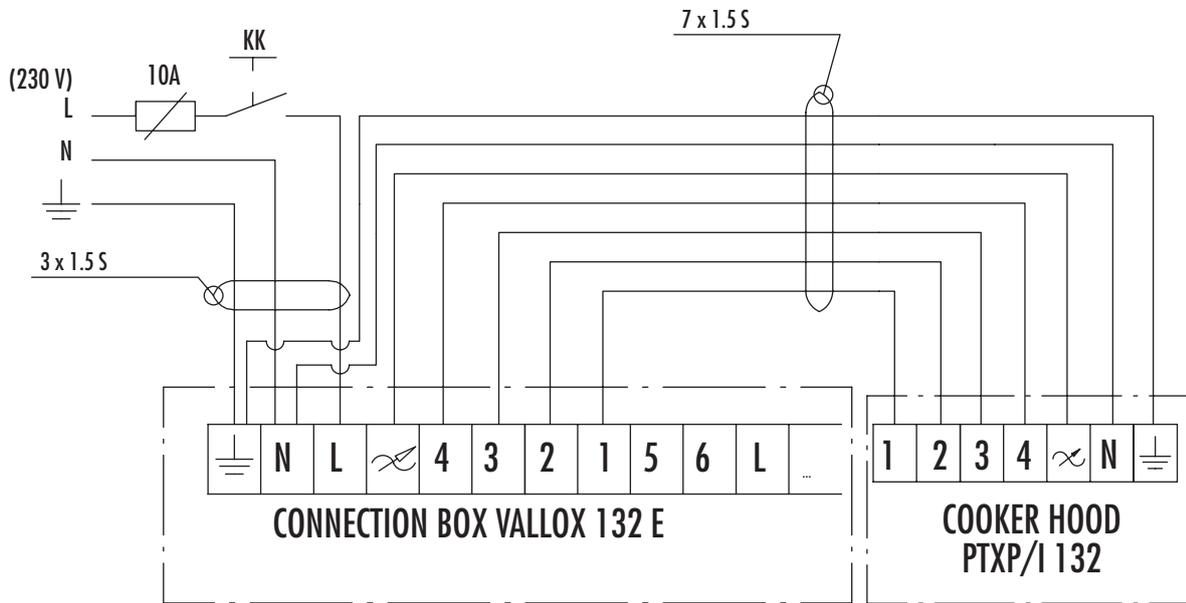
- | | | | | | | | |
|----|---|----|--|----|---|----|--------------|
| S | Supply air fan | T5 | Preheating radiator regulating thermostat +5 °C | W | Pressure difference switch, option | GY | yellow-green |
| E | Extract air fan | M | Transformer | V | Indicator of pressure difference switch, option | BN | brown |
| T6 | Overheat protection, 30 °C, automatic | K | Capacitor 4µF | J | Post-heating radiator | BK | black |
| T7 | Overheat protection, 2 pcs, 55 °C, manually reset | HK | Maintenance switch | E | Preheating radiator | | |
| T3 | Antifreeze thermostat for radiator | TK | Fireplace switch, e.g. 15 min. timer with opening contacts, option | KR | Connection box (on top of the unit) | | |
| T4 | Antifreeze thermostat, cell +4 °C | NK | Cam switch | SK | Connection box (inside the unit) | | |



VALLOX 132 E

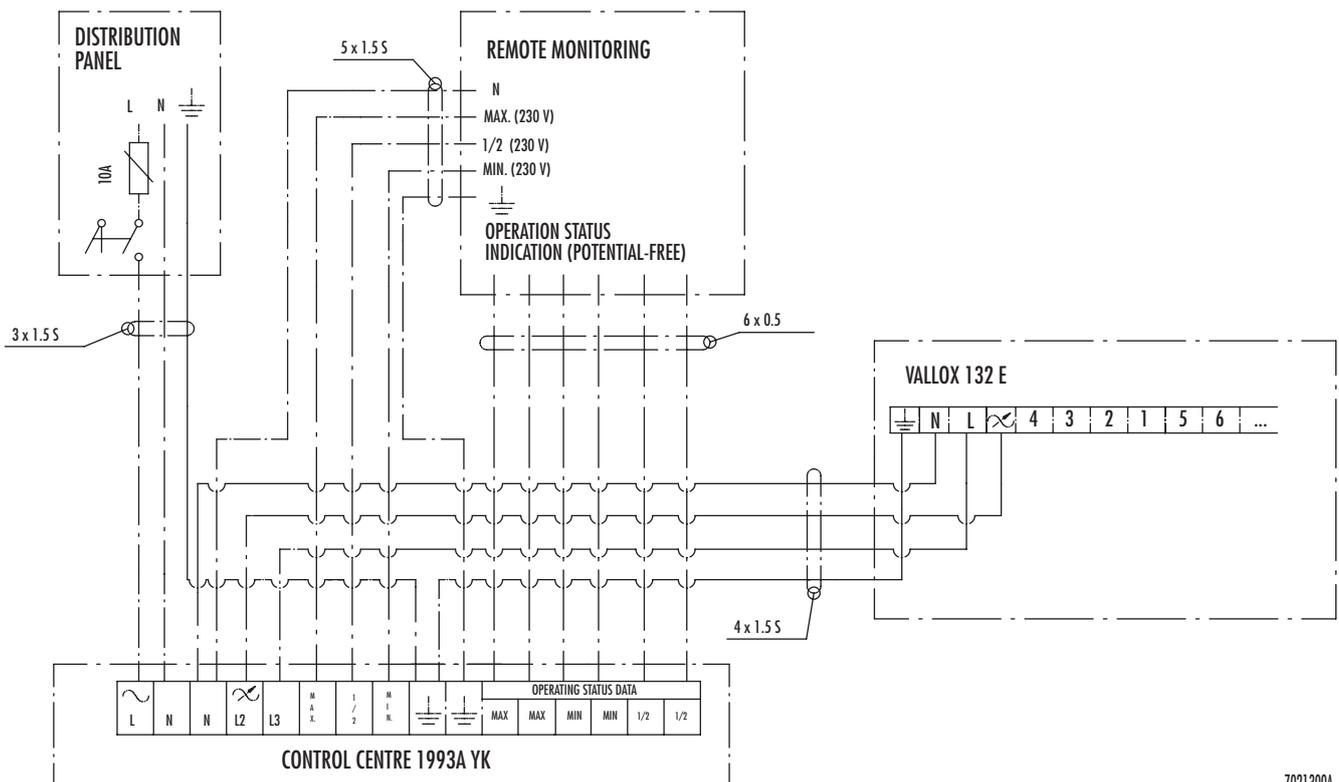
EXTERNAL ELECTRICAL DIAGRAM

Cooker hood control



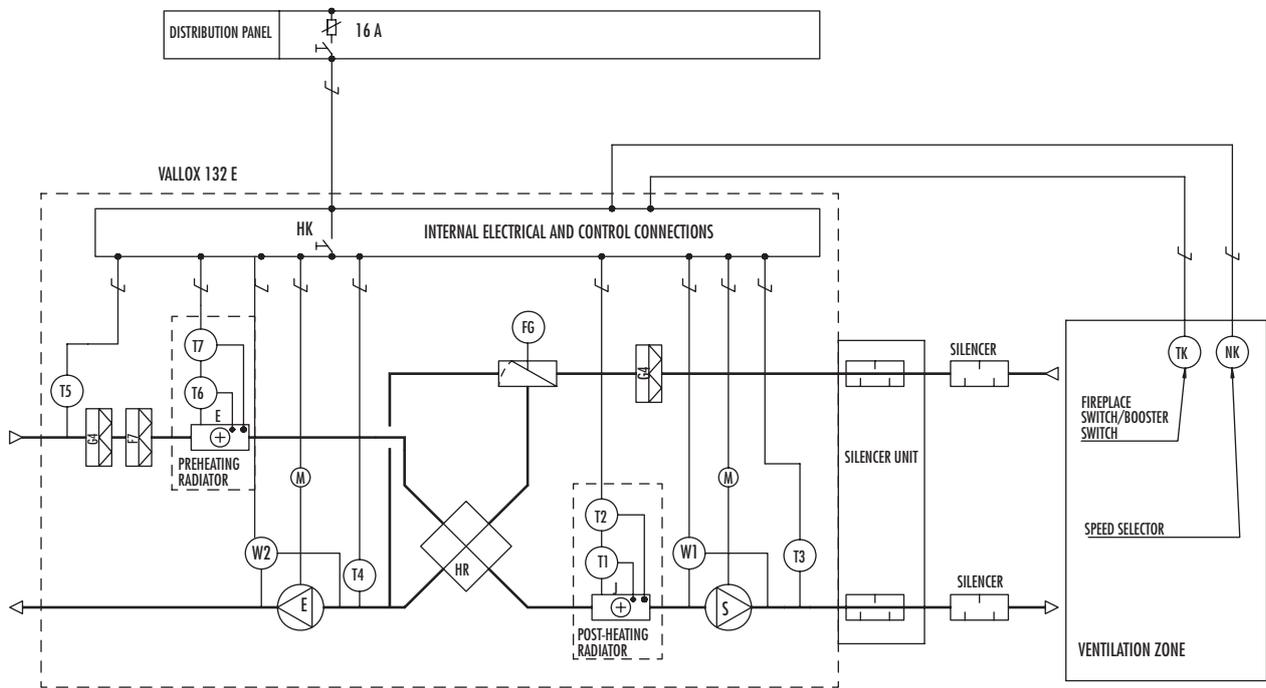
7021400
2009-09-28 NL

Remote monitoring control with control centre 1993 A YK



7021300A

VALLOX 132 E (electric post-heating radiator)



5046500A 2010-05-31 KP

Control of operation

Power supply to the unit is controlled with the 0/1 switch in the distribution panel. There is also a maintenance switch HK inside the unit. It stops power supply when the door of the unit is opened.

Fan speed adjustment

The S and E fans of the unit are controlled depending on operating conditions with a speed selector switch NK in four steps.

Supply air temperature

Regulating thermostat T3 controls the operation of electric radiator J, keeping the supply air going out from the unit at the setpoint.

Preheating

The preheating radiator can heat outdoor air and decrease the stopping of the fan. Thermostat T5 switches the radiator on before thermostat T4 stops the supply fan.

Preheating radiator overheating protection

Overheat protection thermostats T6 and T7 monitor the operation of preheating radiator E, preventing the surface temperature of the radiator from exceeding the threshold. When temperature exceeds the threshold, the overheat protector trips and power supply to the radiator stops. Overheat protector T6 is reset automatically, whereas overheat protector T7 is reset manually.

Post-heating radiator overheating protection

Overheat protection thermostats T1 and T2 monitor the operation of post-heating unit J, preventing the surface temperature of the radiator from exceeding the threshold. When temperature exceeds the threshold, the overheat protector trips and power supply to the radiator stops. Overheat protector T1 is reset automatically, whereas overheat protector T2 is reset manually.

Heat recovery bypass

Summer-time bypass of heat recovery cell HR is done manually by turning the HR damper FG in the bypass position for the summer.

Heat recovery antifreeze

Antifreeze thermostat T4 of the HR cell intermittently stops supply air fan S, preventing the freezing risk of the HR cell. The fan restarts automatically as the risk of freezing passes. The threshold temperature for the risk of freezing can be set at thermostat T4.

Alarms

Pressure difference switches W1 and W2 are options, designed to monitor pressure difference on the supply and extract air sides. If the pressure difference rises too high because of dirty filters or clogged ductwork, an indicator is lit on the front panel of the unit.

Booster or fireplace switch function

It is possible to mount an optional fireplace switch TK for the unit. The fireplace switch can be a 15...20 minute timer equipped with opening contacts.

Parts list Vallox 132 E (electric radiator model)

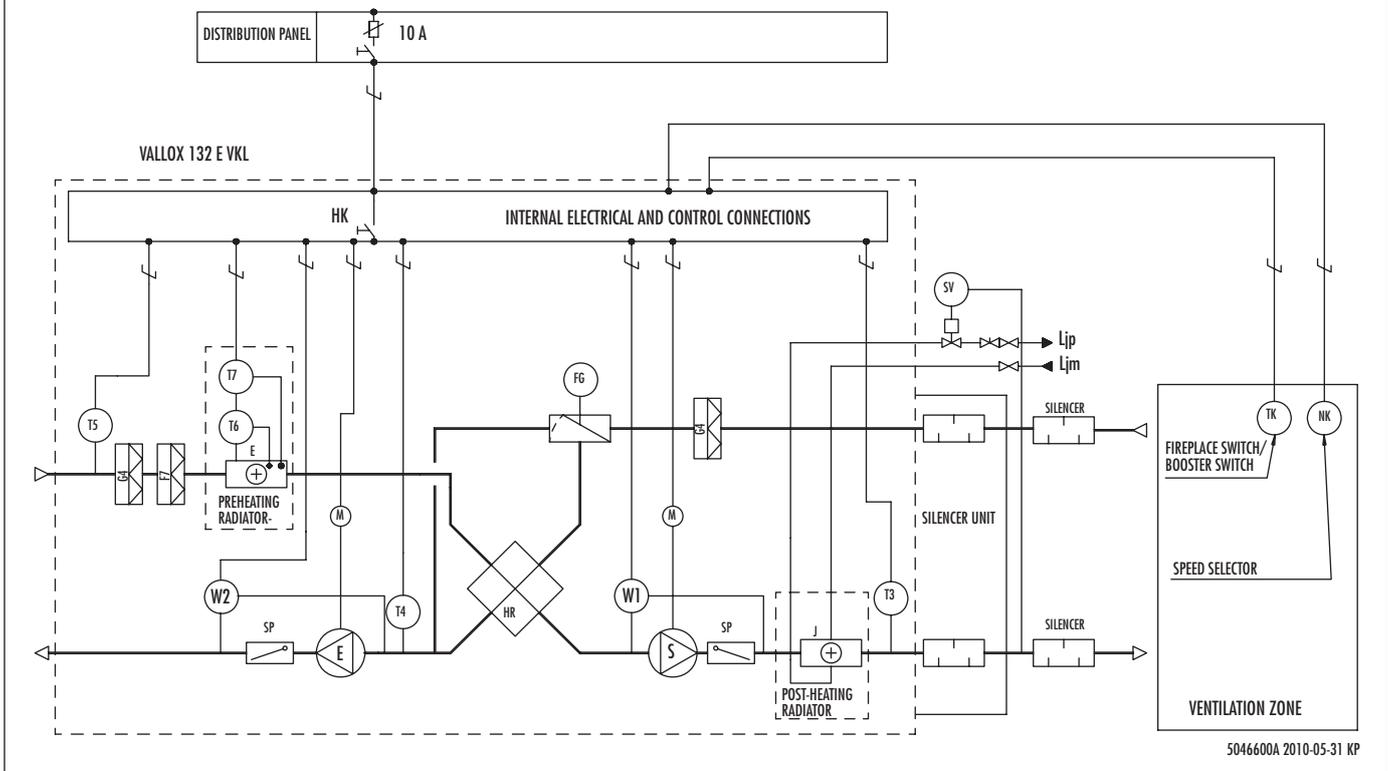
Code	Name	Technical data (factory settings in parentheses)	Standard/Option
G4	Filter	Supply air, extract air	Standard
F7	Filter	Supply air	Standard
FG	HR bypass damper	Manual	Standard
NK	Speed selector switch	4-step	Standard
E	Preheating unit	Electric radiator 1.2 kW	Standard
J	Post-heating unit	Electric radiator 1.2 kW	Standard
HR	Heat recovery cell	Cross flow cell, efficiency 60%	Standard
HK	Maintenance switch	Door switch	Standard
S	Supply air fan	105 l/s (100 Pa)	Standard
E	Extract air fan	125 l/s (100 Pa)	Standard
W1	Pressure difference switch unit Pressure guard on the supply air side	Adjustment range 0...500 Pa (320 Pa)	Option
W2	Pressure difference switch unit Pressure guard on the extract air side	Adjustment range 0...500 Pa (320 Pa)	Option
T4	HR cell antifreeze thermostat	(+4 °C)	Standard
T3	Post-heating radiator regulating thermostat	Adjustment range 0...40 °C	Standard
T5	Preheating radiator regulating thermostat	(+5 °C)	Standard
T1	Overheat protector for the heating unit	Automatic +40 °C	Included in J
T2	Overheat protector for the heating unit	2 pcs, manually reset, +80 °C	Included in J
T6	Overheat protector for the heating unit	Automatic +30 °C	Included in E
T7	Overheat protector for the heating unit	2 pcs, manually reset, +55 °C	Included in E
TK	Fireplace switch	Opening contacts, 15...20 min.	Option



VALLOX 132 E

CONTROL DIAGRAM and DESCRIPTION OF OPERATION / VKL model

VALLOX 132 E VKL (water radiator model)



5046600A 2010-05-31 KP

Control of operation

Power supply to the unit is controlled with the 0/1 switch in the distribution panel. There is also a maintenance switch HK inside the unit. It stops power supply when the door of the unit is opened.

Fan speed adjustment

The S and E fans of the unit are controlled depending on operating conditions with a speed selector switch NK in four steps.

Supply air temperature

Self-actuated control valve SV controls the operation of post-heating radiator J, maintaining the temperature of supply air going out from the unit at the setpoint.

Preheating

The preheating radiator can heat outdoor air and decrease the stopping of the fan. Thermostat T5 switches the radiator on before thermostat T4 stops the supply fan.

Preheating radiator overheat protection

Overheat protection thermostats T6 and T7 monitor the operation of preheating radiator E, preventing the surface temperature of the radiator from exceeding the threshold. When temperature exceeds the threshold, the overheat protector trips and power supply to the radiator stops. Overheat protector T6 is reset automatically, whereas overheat protector T7 is reset manually.

Heat recovery bypass

Summer-time bypass of heat recovery cell HR is done manually by turning the HR damper FG in the bypass position for the summer.

Heat recovery antifreeze

Antifreeze thermostat T4 of the HR cell intermittently stops supply air fan S, preventing the freezing risk of the HR cell. The fan restarts automatically as the risk of freezing passes. The threshold temperature for the risk of freezing can be set at thermostat T4.

Water radiator antifreeze

When the surface temperature of the water radiator goes below the threshold, the antifreeze thermostat T3 of post-heating radiator J stops the unit and self-actuated dampers SP close. This decreases the freezing risk of the water radiator. The unit restarts automatically as soon as the freezing risk is over. The threshold temperature for the risk of freezing can be set at thermostat T3.

Alarms

Pressure difference switches W1 and W2 are options, designed to monitor pressure difference on the supply and extract air sides. If the pressure difference rises too high because of dirty filters or clogged ductwork, an indicator is lit on the front panel of the unit.

Booster or fireplace switch function

It is possible to mount an optional fireplace switch TK for the unit. The fireplace switch can be a 15...20 minute timer equipped with opening contacts.

Parts list Vallox 132 E (VKL water radiator model)

Code	Name	Technical data (factory settings in parentheses)	Standard/Option
G4	Filter	Supply air, extract air	Standard
F7	Filter	Supply air	Standard
FG	HR bypass damper	Manual	Standard
NK	Speed selector switch	4-step	Standard
E	Preheating unit	Electric radiator 1.2 kW	Standard
J	Post-heating unit	Electric radiator 1.2 kW	Standard
HR	Heat recovery cell	Cross-counter flow cell, efficiency 60%	Standard
HK	Maintenance switch	Door switch	Standard
S	Supply air fan	105 l/s (100 Pa)	Standard
E	Extract air fan	125 l/s (100 Pa)	Standard
W1	Pressure difference switch unit Pressure guard on the supply air side	Adjustment range 0...500 Pa (320 Pa)	Option
W2	Pressure difference switch unit Pressure guard on the extract air side	Adjustment range 0...500 Pa (320 Pa)	Option
T4	HR cell antifreeze thermostat	Factory setting +4 °C	Standard
T3	Post-heating radiator regulating thermostat	Adjustment range 0...40 °C	Standard
T5	Preheating radiator regulating thermostat		Standard
T6	Overheat protector for the heating unit	Automatic, +30 °C	Included in E
T7	Overheat protector for the heating unit	2 pcs, manually reset, +55 °C	Included in E
TK	Fireplace switch	Opening contacts, 15...20 min.	Option
SP	Damper, 2 pcs	Air flow operated	Standard
SV	Thermostat valve with removable sensor	Self-actuated	not included in the delivery

Location of the unit

Vallox 132 E is mounted in a place where temperature does not fall below +10 °C. Without protective casing, the unit has to be located in a place with no acoustic disturbance: storerooms, utility rooms etc. Vallox 132 E can also be located in a damp room, but not in a bathroom next to a sauna bath.

Condensing water

A water seal is recommended for the condensing water pipe. The condensing water pipe must have a downward slope.

The condensing water pipe must never be connected directly to the sewer.

If condensing water is led to a water seal or floor drain where also warm washing or shower water is led, the use of a VALLOX Silent water seal is recommended.

The water seal and the pipes and their parts are not included in standard delivery.

CEILING MOUNTING

Vallox 132 E can be equipped with an optional easy-to-use ceiling mounting plate (patent pending). The ceiling mounting plate is fixed to the ceiling with M8 thread bars. Fix the bars so that they stand the weight of the unit, i.e. approximately 71 kg.

The ceiling mounting plate has to be fixed horizontally in order to ensure that the unit will be straight. The outdoor air duct must be insulated against condensation, also between the unit and the ceiling mounting plate.

Installation of the unit

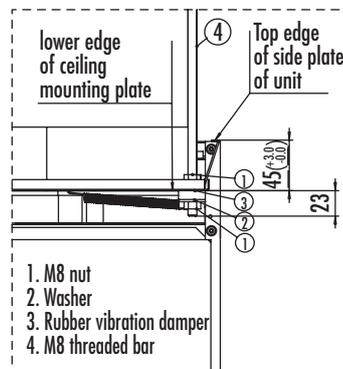
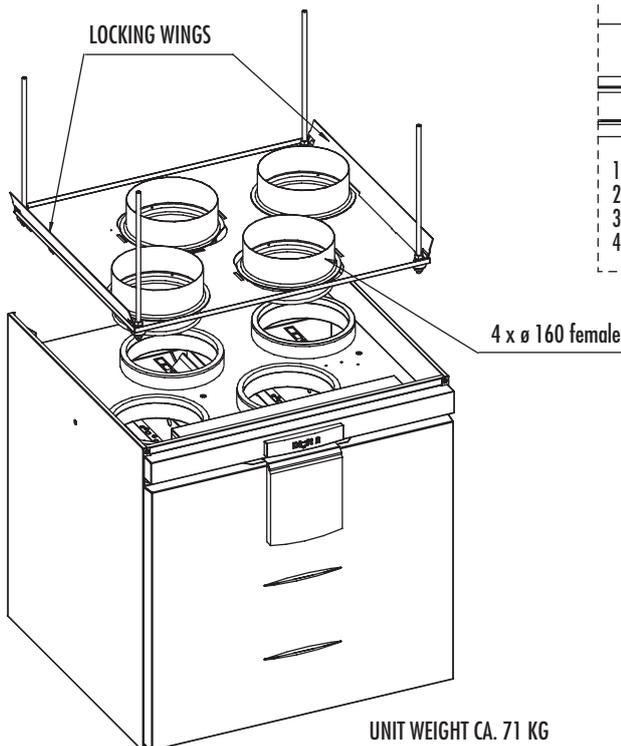
Lift the unit straight upward, till the locking wings on the sides of the mounting plate lock into the side plates of the unit. You can detach the unit from the mounting plate by releasing the locking wings from the side plates.

To facilitate mounting, you may use a lubricant, such as O-ring grease, in the collar seals. Mounting accessories include rubber silencers, base plates and nuts. Thread bars are not included in the delivery.



Ceiling mounting plate before fastening

VALLOX 132 E ceiling mounting

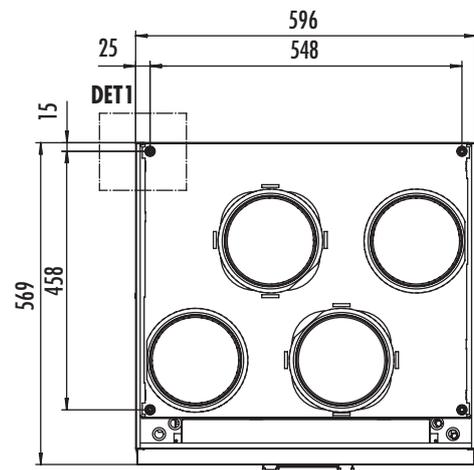
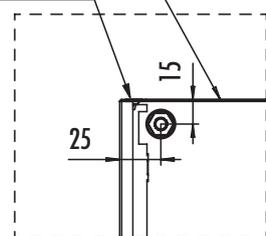


DET1

1:2

132 E
back edge of side plate

back edge of ceiling mounting plate





VALLOX 132 E

INSTALLATION

Wall mounting

Vallox 132 E is mounted on the wall with a fixing plate as shown in the adjacent figure.

Wall construction

Pay attention to the wall construction when mounting the unit. Avoid mounting the unit on a hollow, echoing dividing wall and on a bedroom wall because of sound conduction, or prevent sound conduction.

Condensing water

The delivery includes a water seal. By connecting a pipe to the water seal the water condensing from extract air can be led to a floor drain. The pipe must never be connected directly to the drain. The condensing water pipe must have a downward slope.

The unit comes with separate instructions for mounting and using the water seal.

VALLOX 132 E wall mounting



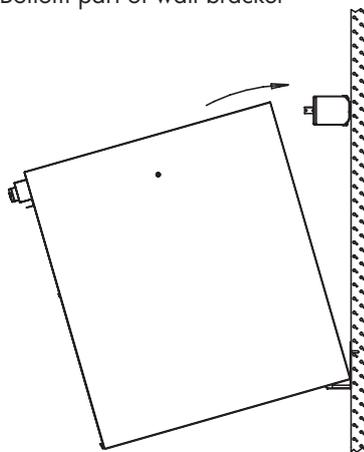
Top part of wall bracket



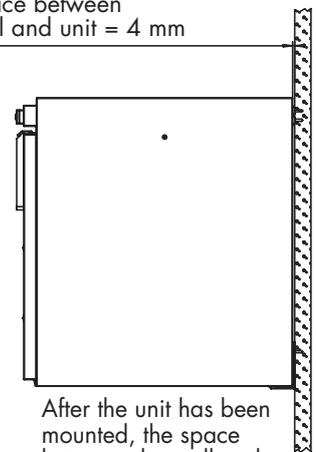
Wall bracket mounted



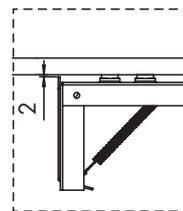
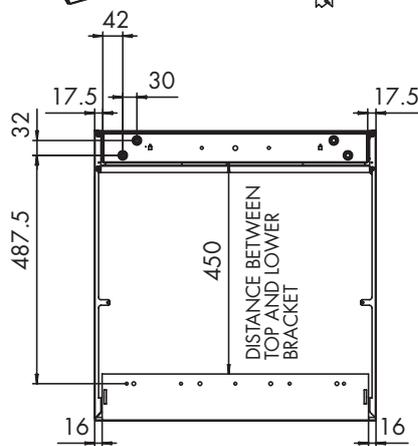
Bottom part of wall bracket



Space between wall and unit = 4 mm



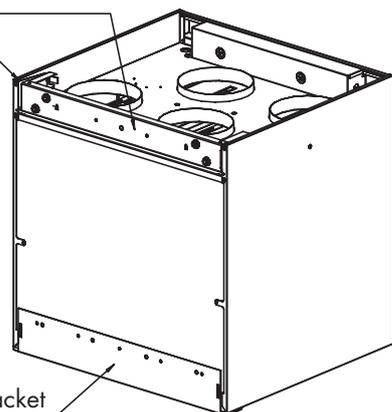
After the unit has been mounted, the space between the wall and unit can be shortened by tightening the top bracket.



Note!
Distance between straight-line wing and wall is 2 mm.

Wall mounting top bracket

Wing



Wall mounting bottom bracket

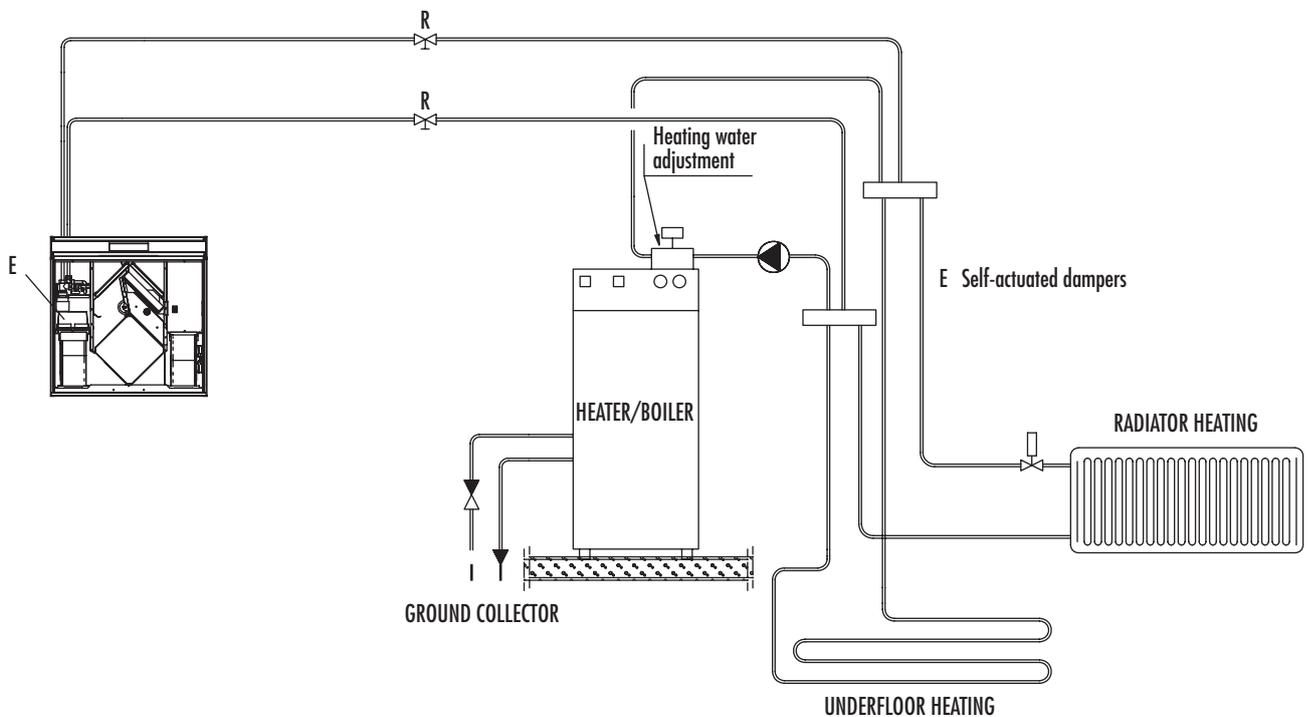
Connection of VKL post-heating radiator to underfloor heating circuit

To minimise the risk of freezing involved in the connection the system has several antifreeze functions.

1. The unit stops if supply air temperature goes below the set temperature and automatically starts as soon as temperature rises.
2. When the unit stops, the self-actuated dampers (E) close.

Use of VKL post-heating radiator

- The temperature of heating water shall be adjusted according to the temperature of outdoor air.
- No water must be led into the radiator of the unit until the system has been adjusted for operation and the heating network has heating on or it has been otherwise ensured that the radiator will not freeze.
- Water circulation in the heating network connected to the unit and the circulation pump must not be stopped during the heating season.
- The base volume of water flow into the radiator of the unit can be adjusted with valves (R), which can also act as stop valves.



Other connections

Heat can be conducted to the post-heating radiator of Vallox 132 E VKL in other ways than described above. It is possible to build a separate circuit for the radiator if higher power is desired, or the risk of freezing can be eliminated by using non-freezing heat transfer solution. For more information, see the instructions for VALLOX VKL connections.

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VALLOX 132 E

