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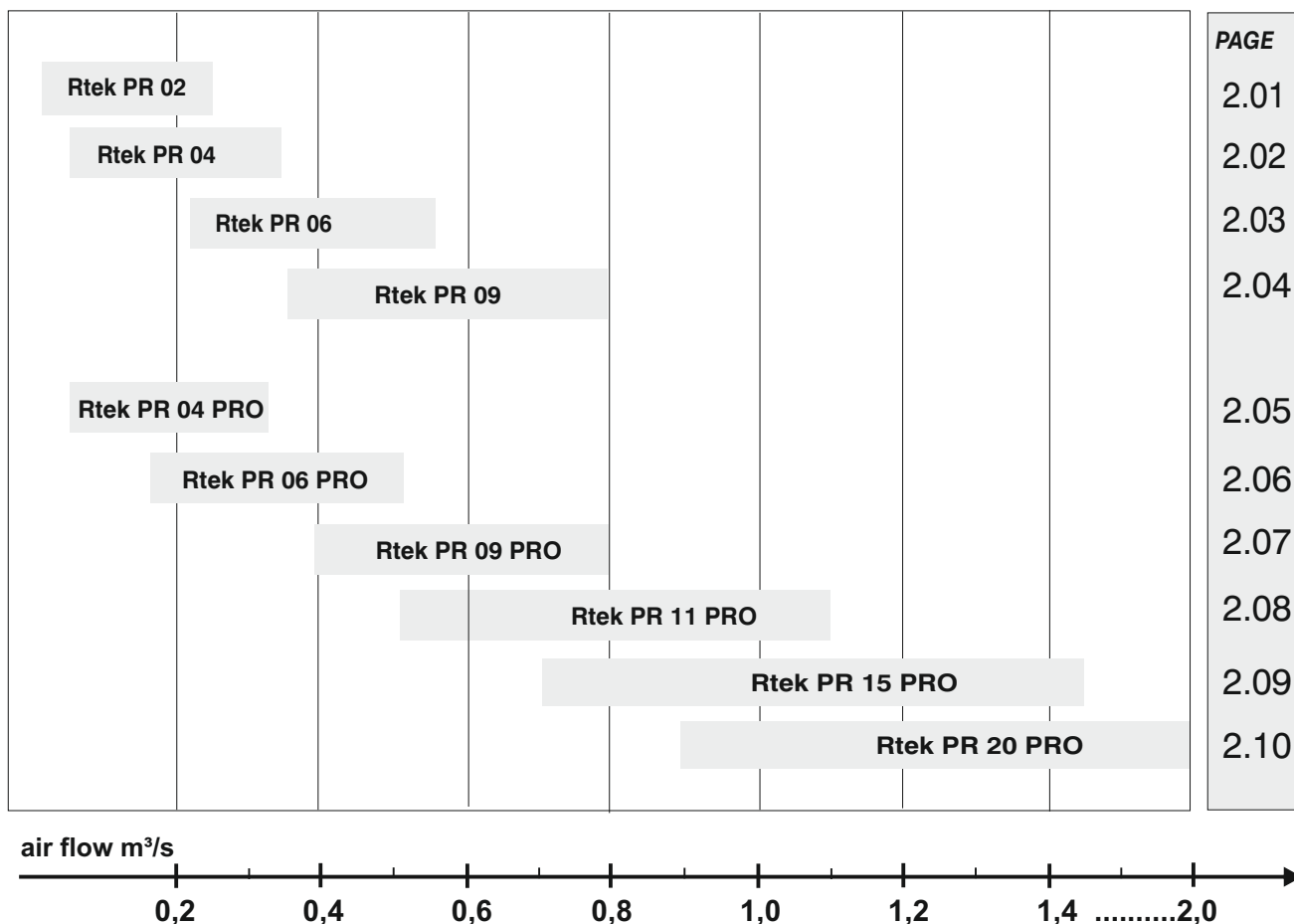
with rotating heat exchanger (PR)

with rotating heat exchanger and
with mounted cooler (PR-CO))

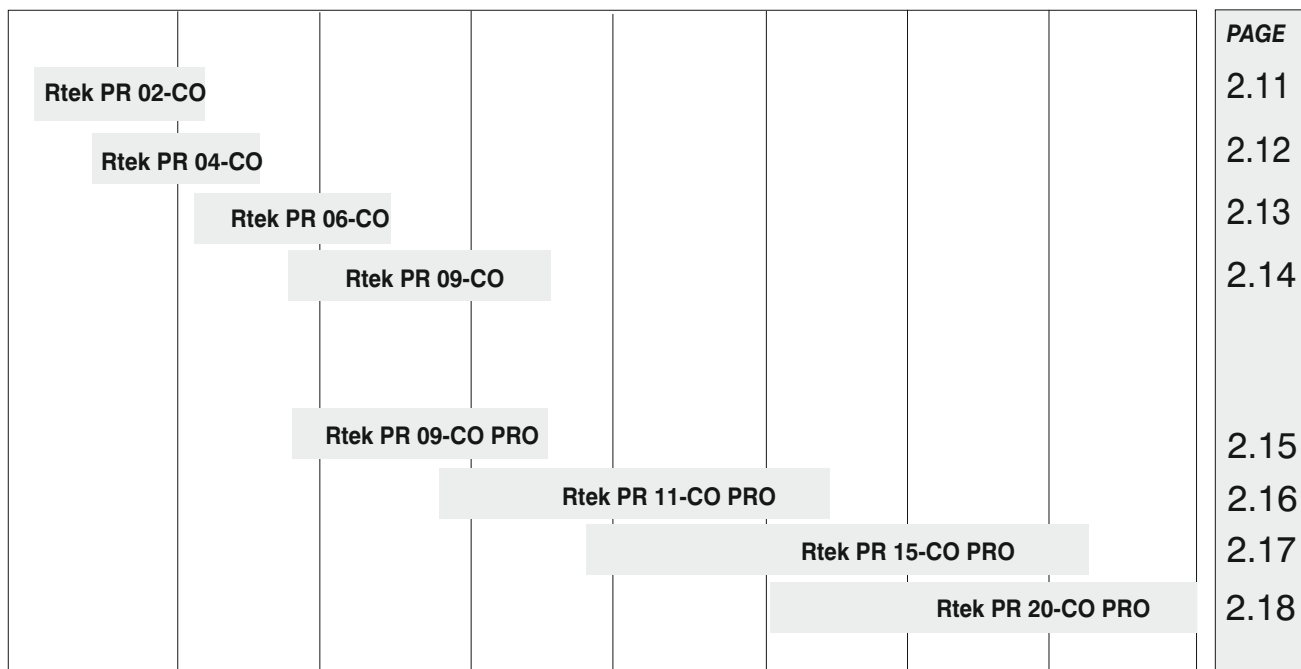
with a counter-flow
heat exchanger (VVE)



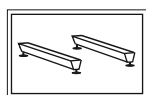
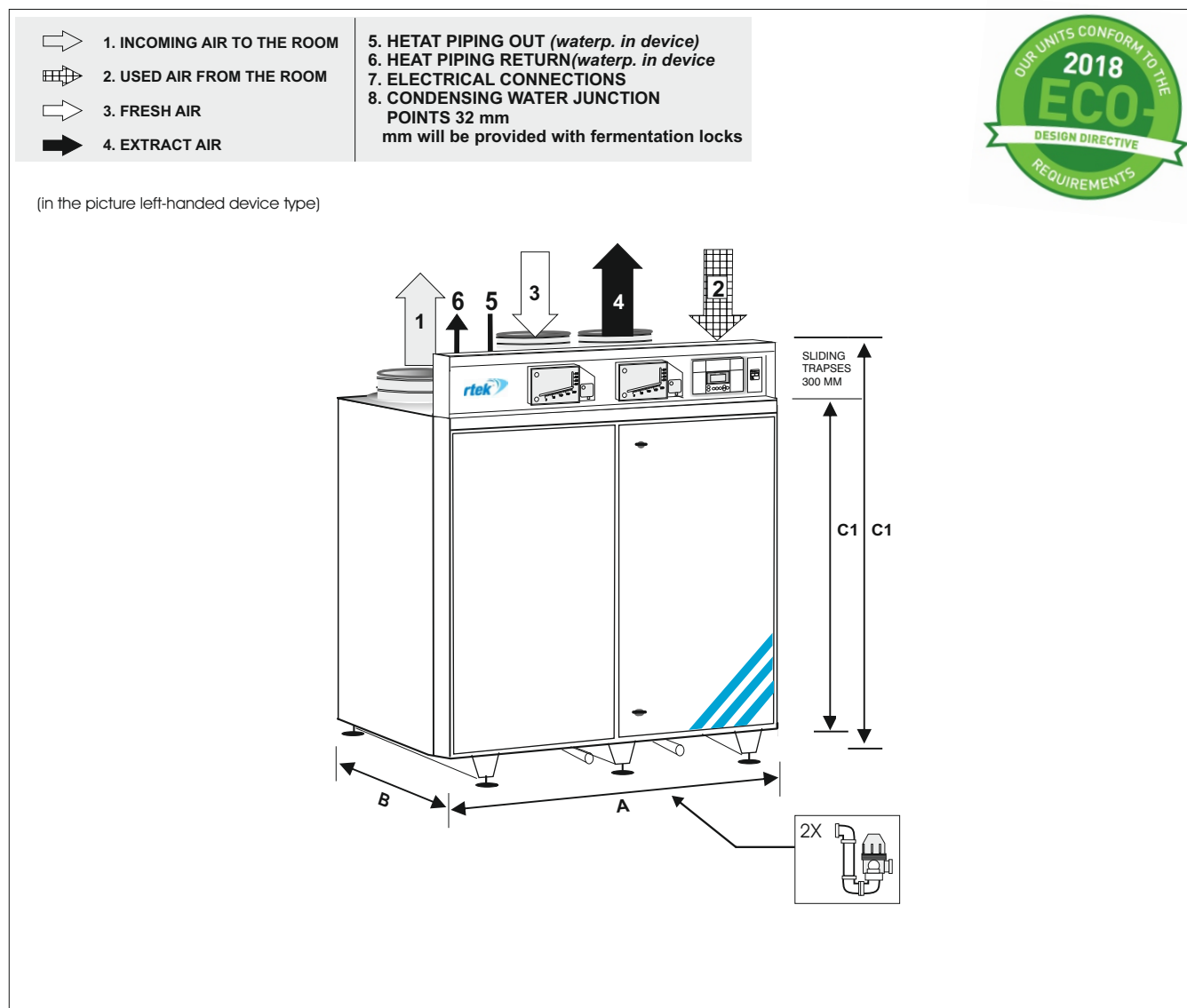
with rotating heat exchanger



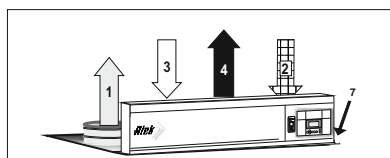
and with mounted cooler



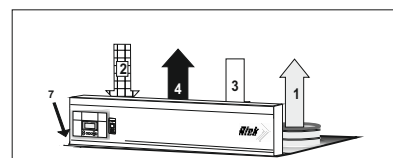
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**




Machine is equipped adjustable feet 0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 02	1290	750	1240	1610	250	250	250	250	DN20	DN20

TEHNIICAL DATA

ELECTRICAL HEATING	5,1 kW
HEATING WITH WATER	5 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,545 kW 3,5 A.max 230 V 50/60 Hz
WEIGHT:	200 Kg
FREE SPACE	800 mm

ELECTRIC CONNECTION

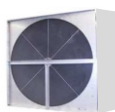
ELECTRIC HEATER:

Max.power 6,3kW
 3 x 16A
 MMJ 5x2.5S

WATER HEATER:

Max.power 1.3 kW
 3 x 16A
 MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



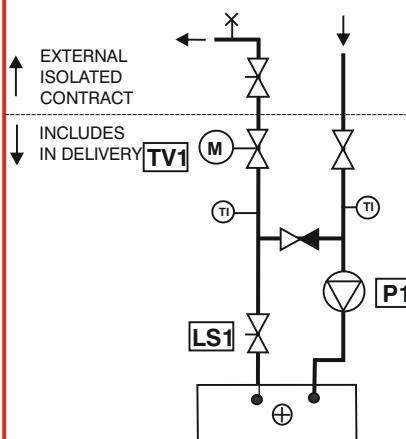
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

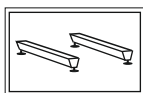
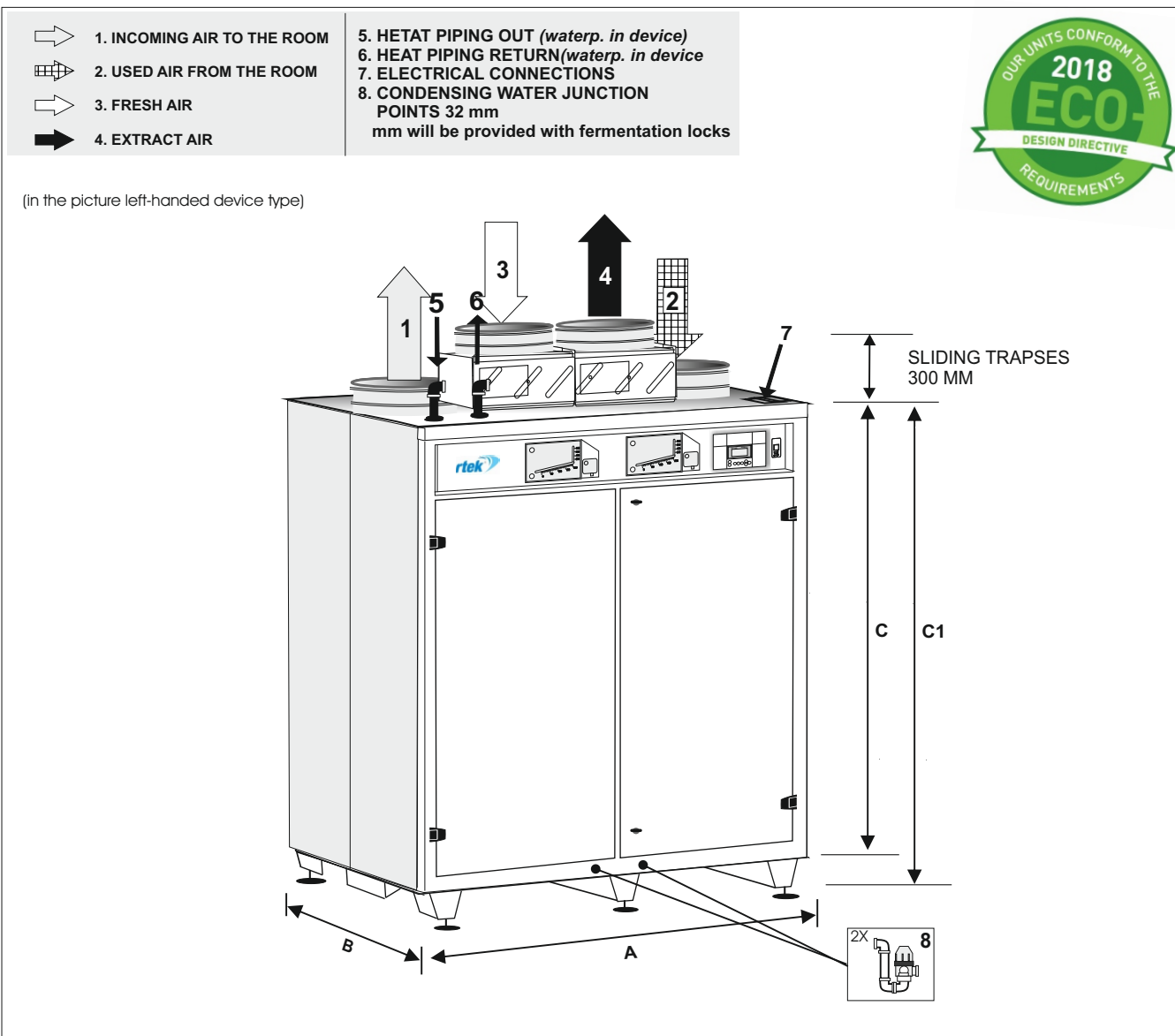
- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

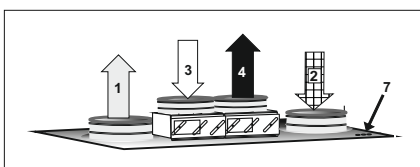
<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW),duct
<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct |
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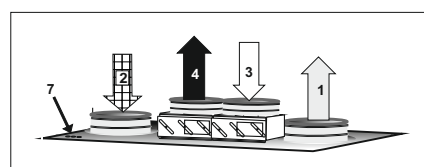
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 04	1530	790	1700	2165*	315	315	315	315	DN20	DN20

TEHNIICAL DATA

ELECTRICAL HEATING	6,8 kW
HEATING WITH WATER	8,4 kW water 60°/40°C, air Δt 20°C
EC-FAN:	0,5 kW 2,2 A.max 230 V 50/60 Hz
WEIGHT:	350 Kg
FREE SPACE	800 mm

ELECTRIC CONNECTION

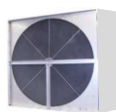
ELECTRIC HEATER:

Max.power 7,8kW
3 x 16A
MMJ 5x6S

WATER HEATER:

Max.power 1.2 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



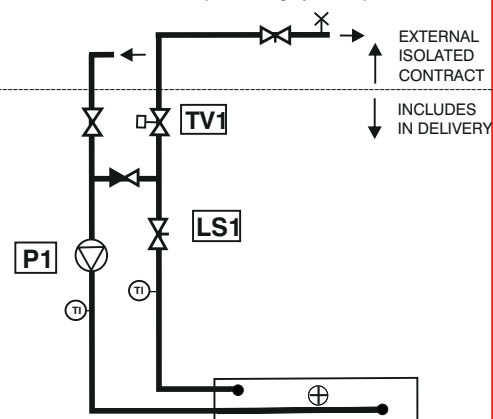
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

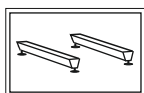
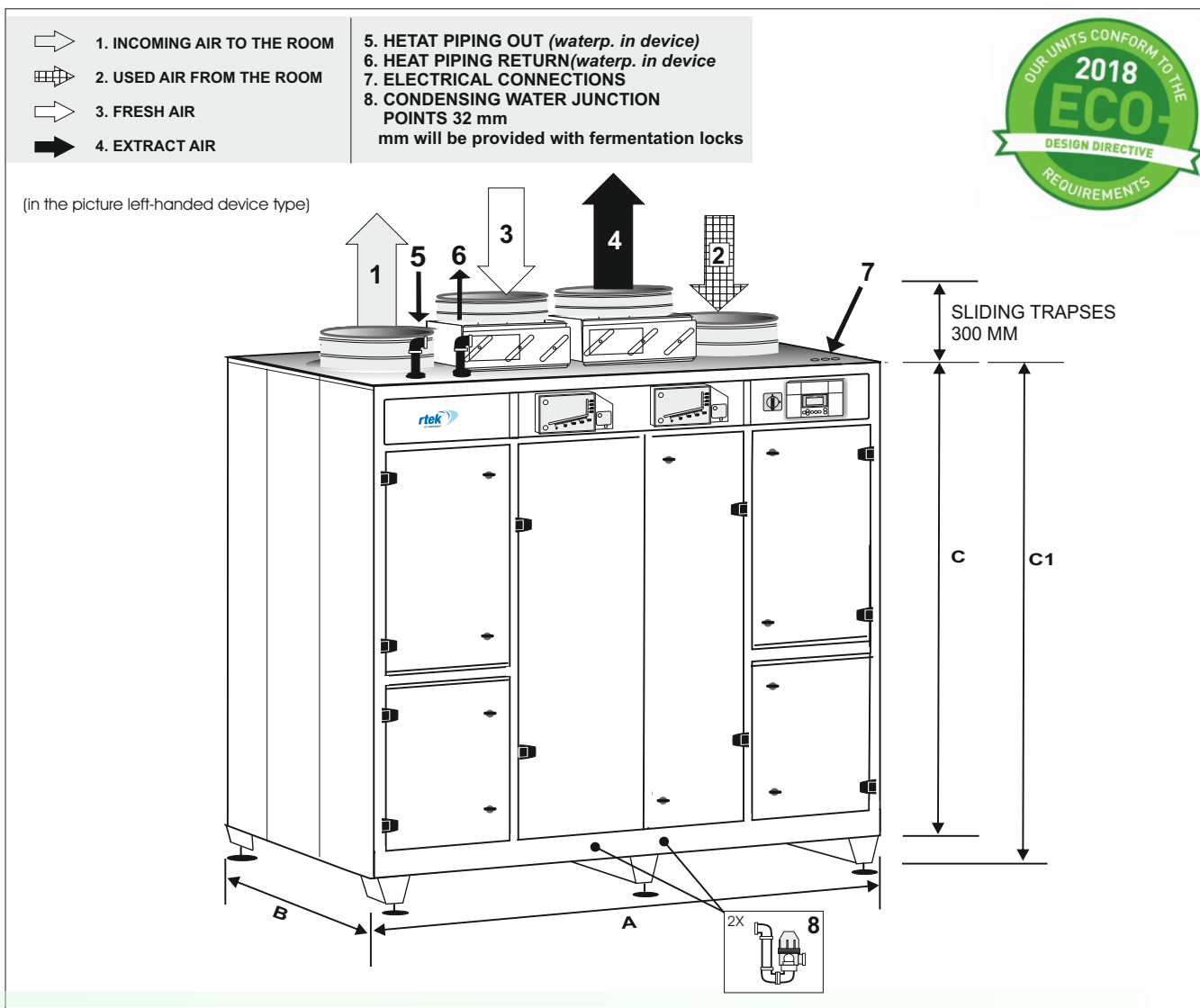
- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery's stepless rotation speed adjuster with rotation controller

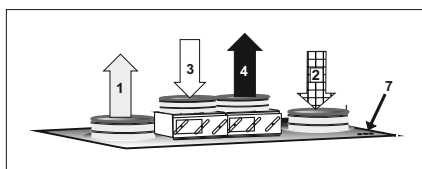
<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW), duct
<input type="checkbox"/> -cooling radiator, freon (CF), duct
<input type="checkbox"/> -cooling radiator, glykol (CG), duct |
|--|--|

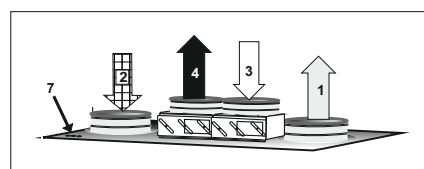
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



Machine is equipped adjustable feet 0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 06	2050	940	1700	2165*	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	12,75 kW
HEATING WITH WATER	13,2 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,715 kW 3,1 A.max 230 V 50/60 Hz
WEIGHT:	550 Kg
FREE SPACE	900 mm

ELECTRIC CONNECTION

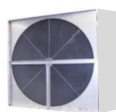
ELECTRIC HEATER:

Max.power 14,3kW
3 x 25A
MMJ 5x6S

WATER HEATER:

Max.power 1.6 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



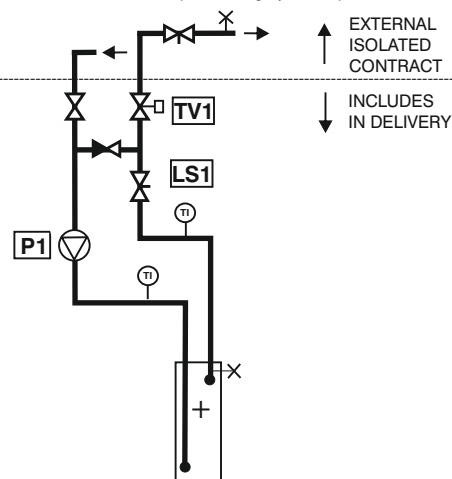
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

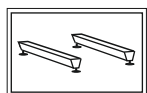
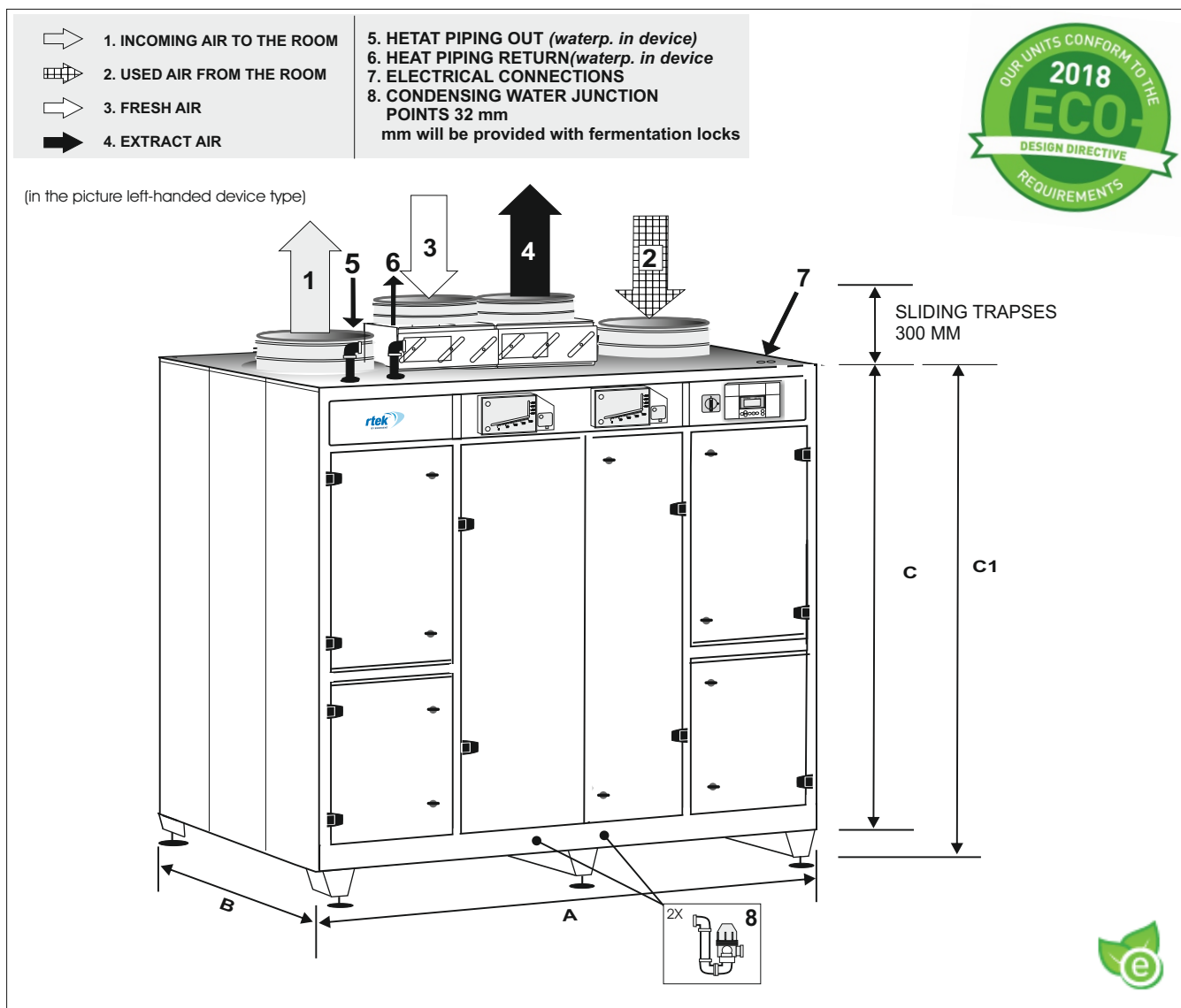
- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

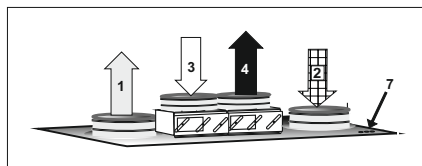
<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
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<input type="checkbox"/> -platemotors
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<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW),duct
<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct |
|--|--|

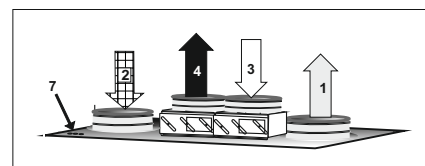
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**




Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS PIPE SIZES					
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 09	2050	1100	1700	2165*	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	17,0 kW
HEATING WITH WATER	18,0 kW water 60°/40°C, air Δt 20°C
EC-FAN:	1,0 kW 1,6 A.max 400 V 50/60 Hz
WEIGHT:	750 Kg
FREE SPACE	1000 mm

ELECTRIC CONNECTION

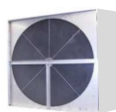
ELECTRIC HEATER:

Max.power 19,1kW
3 x 40A
MMJ 5x10S

WATER HEATER:

Max.power 2,2 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR

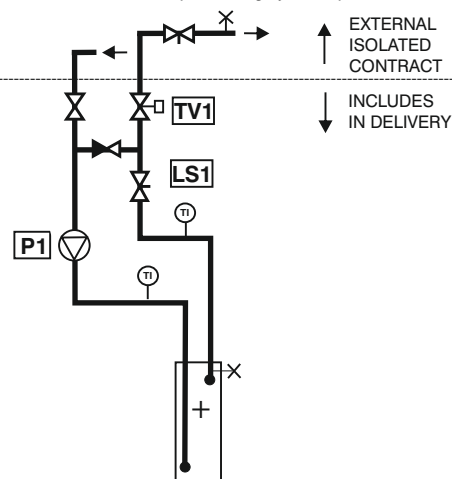


SILENCER

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

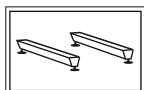
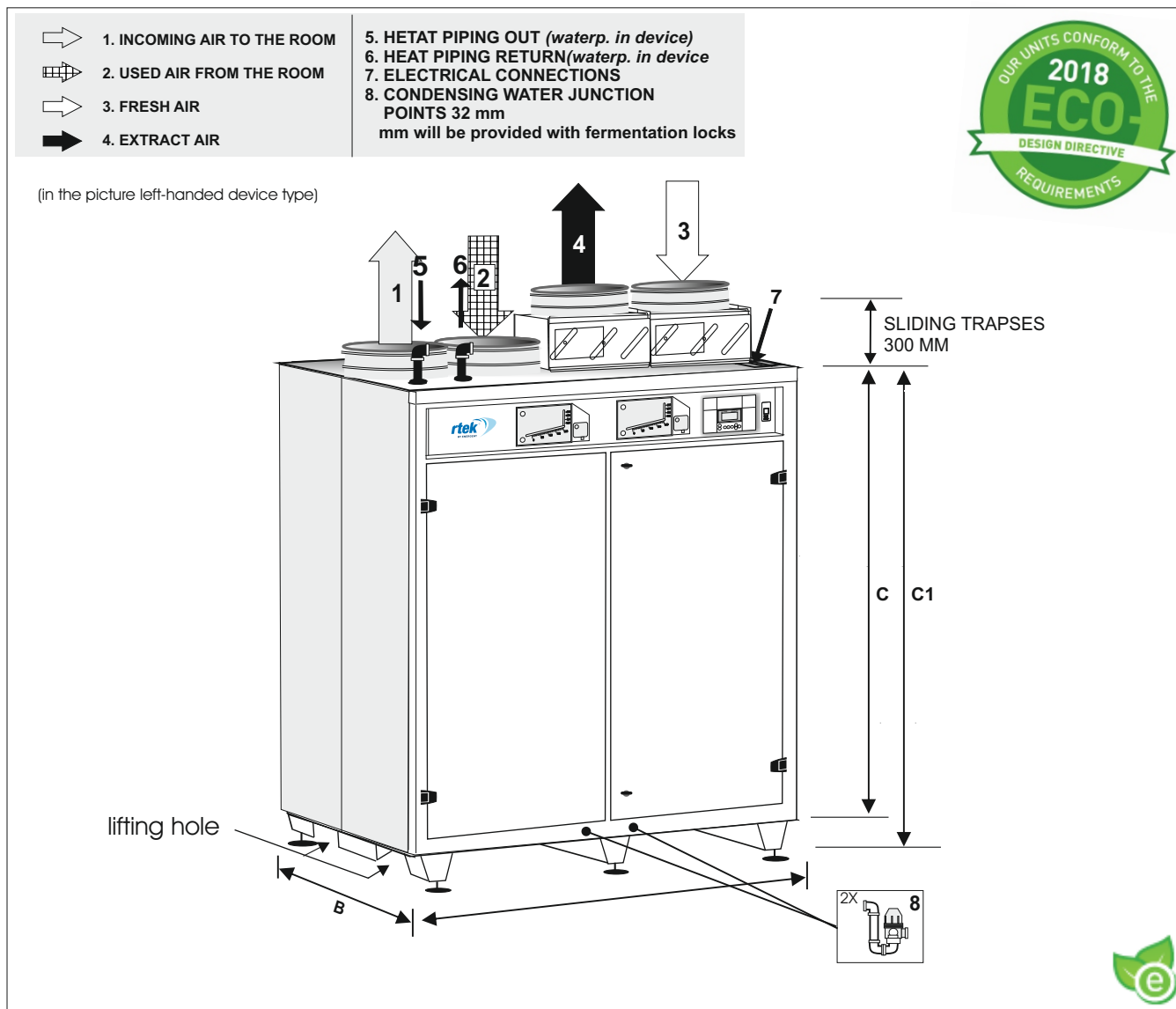
- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

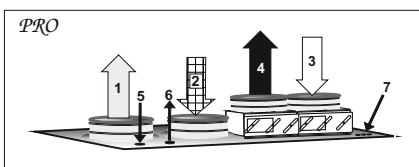
<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW)
<input type="checkbox"/> -cooling radiator, freon (CF)
<input type="checkbox"/> -cooling radiator, glykol (CG) |
|--|---|

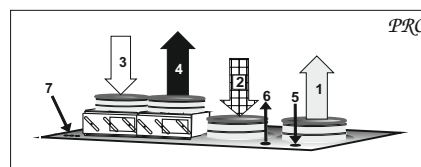
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**




Machine is equipped adjustable feet 0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 04 PRO	1530	790	1700	2165*	315	315	315	315	DN20	DN20

TEHNIICAL DATA

ELECTRICAL HEATING	6,8 kW		
HEATING WITH WATER	8,4 kW water 60°/40°C, air Δ t 20°C		
EC-FAN:	0,5 kW	2,2 A.max	230 V 50/60 Hz
WEIGHT:	350 Kg		
FREE SPACE	800 mm		

ELECTRIC CONNECTION

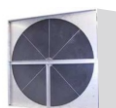
ELECTRIC HEATER:

Max.power 7,9kW
3 x 16A
MMJ 5x2.5S

WATER HEATER:

Max.power 1.2 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



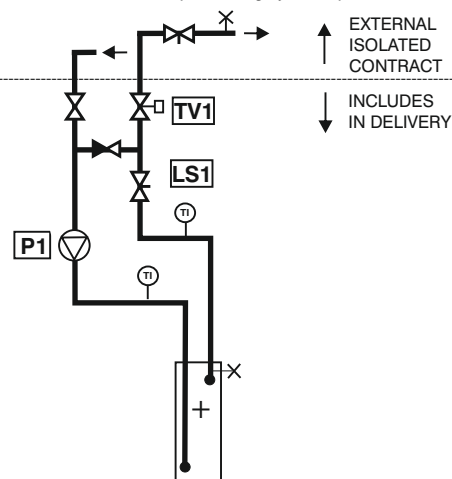
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

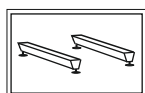
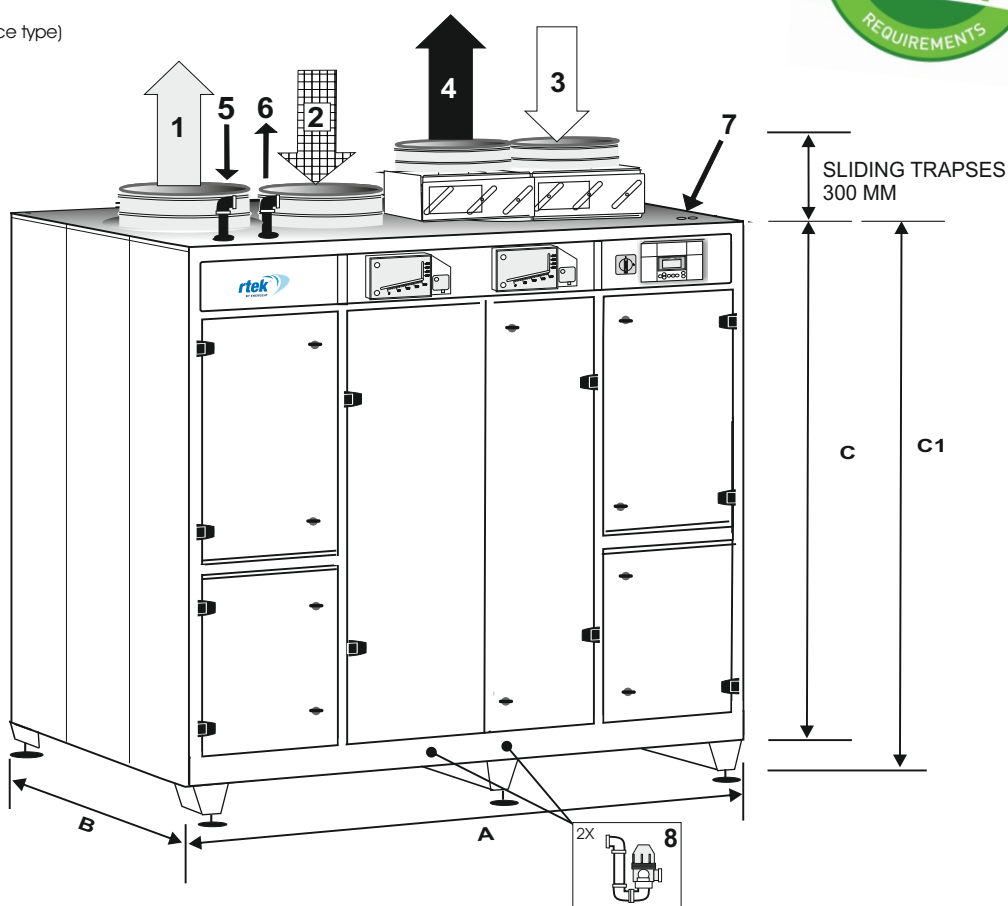
- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> EC fan -direct-drive Plenum fan - adjustment of fan 's speed of rotation <input type="checkbox"/> *2-speed from 0-10 volt control <input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according <input type="checkbox"/> -rotating heat exchanger Heat Recovery 's stepless rotation speed adjuster with rotation controller <input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter <input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter <input type="checkbox"/> -spare filters <input type="checkbox"/> -filter controller, indicating <input type="checkbox"/> -filter controller, alarming | <ul style="list-style-type: none"> <input type="checkbox"/> -open air sliding trap -extract aie sliding trap -platemotors *open/off *spring return -preheating * liquid heater (HG/CG) duct -heater * water heater * electric heater -water heater 's thermostat section -electrical control station -adjustment station * in device are adjusting device example Ouman -GSM-control -Modbus * Interface to the sub-distribution board 's VAK-regulation units -moisture detector -carbon dioxide detectors (Co2) -pressure transmitter <input type="checkbox"/> air flow meters -duct 's temperature detectors -emergency button (fire) -cooling radiator, cold water (CW),duct -cooling radiator, freon (CF),duct -cooling radiator, glykol (CG),duct |
|--|--|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**

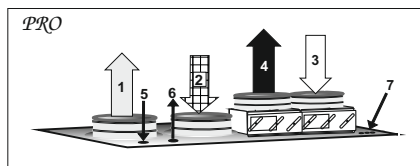
- 1. INCOMING AIR TO THE ROOM
- 2. USED AIR FROM THE ROOM
- 3. FRESH AIR
- 4. EXTRACT AIR
- 5. HETAT PIPING OUT (waterp. in device)
- 6. HEAT PIPING RETURN (waterp. in device)
- 7. ELECTRICAL CONNECTIONS
- 8. CONDENSING WATER JUNCTION POINTS 32 mm mm will be provided with fermentation locks



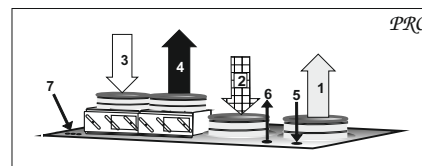
(in the picture left-handed device type)



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 06 PRO	2050	940	1700	2165*	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	12,75 kW
HEATING WITH WATER	13,2 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,715 kW 3,1 A.max 230 V 50/60 Hz
WEIGHT:	550 Kg
FREE SPACE	900 mm

ELECTRIC CONNECTION

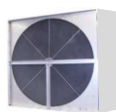
ELECTRIC HEATER:

Max.power 14,3kW
3 x 25A
MMJ 5x6S

WATER HEATER:

Max.power 1.6 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



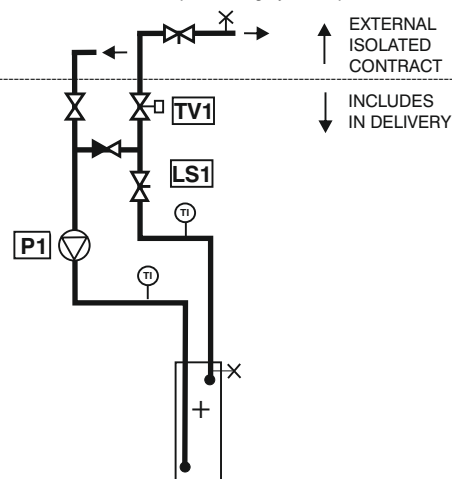
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with rotation controller

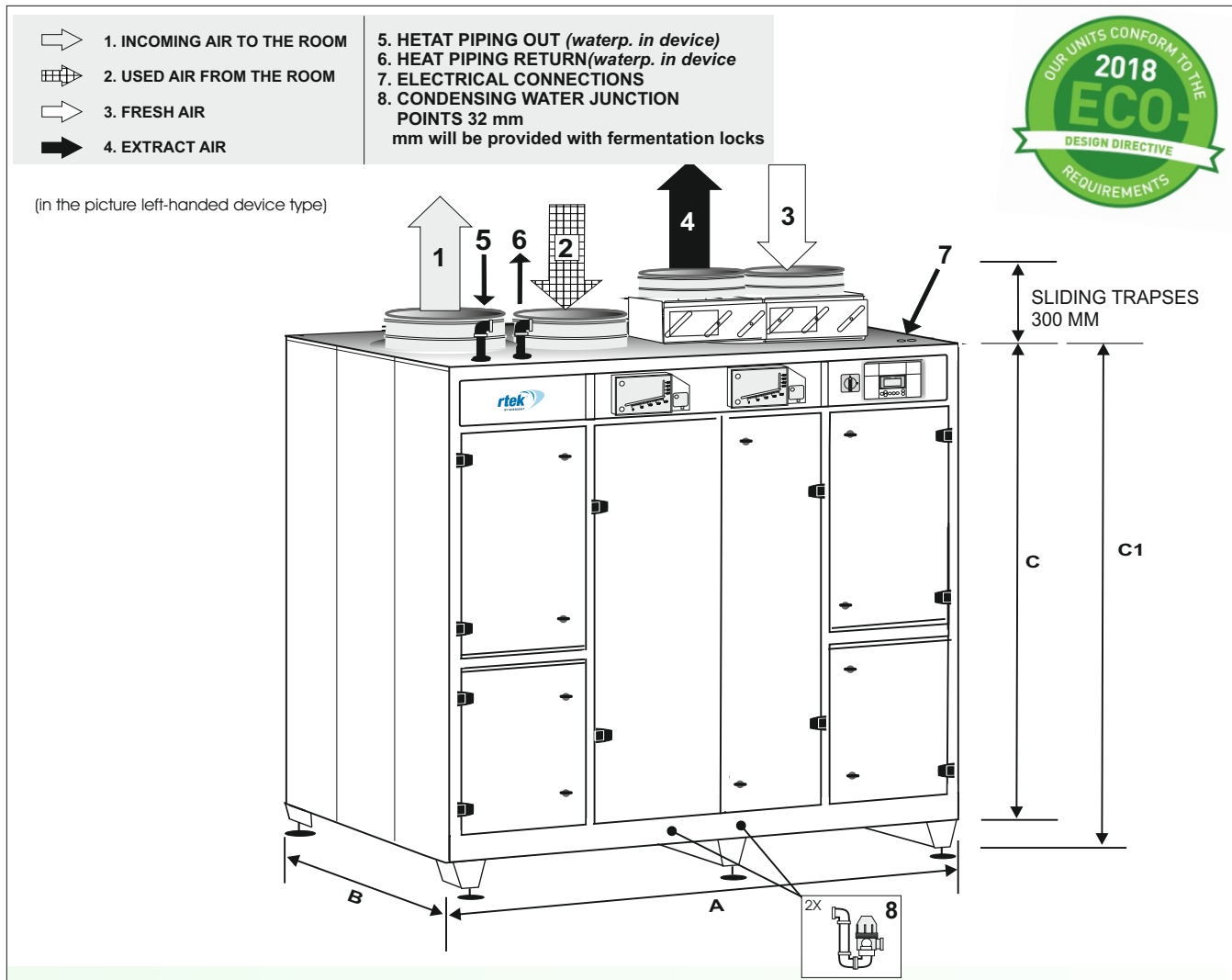
<input type="checkbox"/> -open air filter ; * M5 bag filter or
<input type="checkbox"/> F7 bag filter


<input type="checkbox"/> -used air filter ; * G3 bag filter or
<input type="checkbox"/> M5 bag filter

<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board´s
<input type="checkbox"/> VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW),duct
<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct |
|--|---|

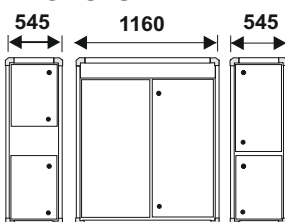
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 09 PRO	2050	1100	1700	2165*)	400	400	400	400	DN25	DN25

*) minimum

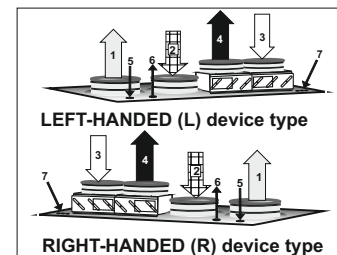
MODULS




The delivery includes Rtek bracket

The device is available right handed too
in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame



 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 09 PRO MODUL	2250	1100	1740	2190	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	15,3 kw or 17,0 kW		
HEATING WITH WATER	14,4 kW water 60°/40°C, air Δ t 15°C		
	18,0 kW water 60°/40°C, air Δ t 20°C		
EC-FAN:	1,0 kW	1,63 A.max	400 V 50/60 Hz
WEIGHT:	750 Kg		
FREE SPACE	1000 mm		

ELECTRIC CONNECTION

ELECTRIC HEATER:

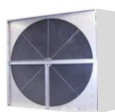
Max.power 17,4 kW
3 x 32A
MMJ 5x10S

Max.power 19,1kW
3 x 40A
MMJ 5x10S

WATER HEATER:

Max.power 2,2 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



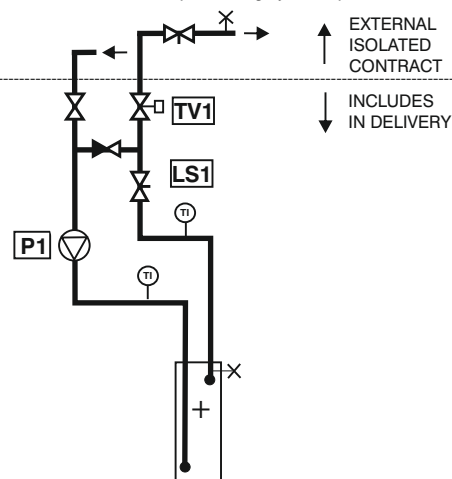
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

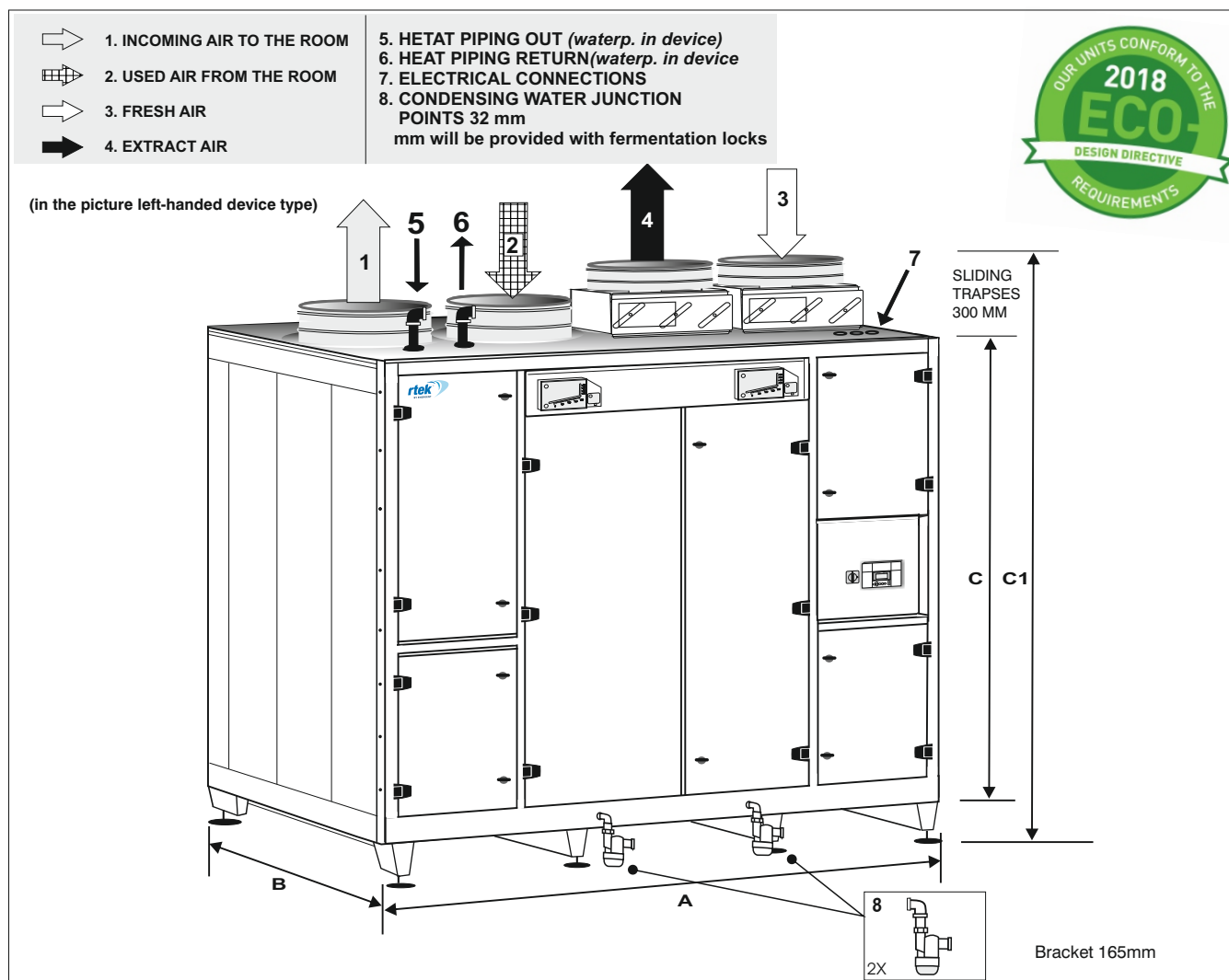
- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according


<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

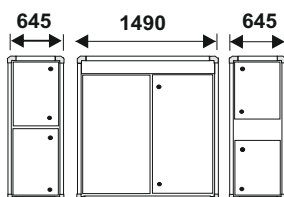
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) kanal
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW)
<input type="checkbox"/> -cooling radiator, freon (CF)
<input type="checkbox"/> -cooling radiator, glykol (CG) |
|--|--|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 11 PRO	2580	1250	2040	2505	500	500	500	500	DN32	DN32

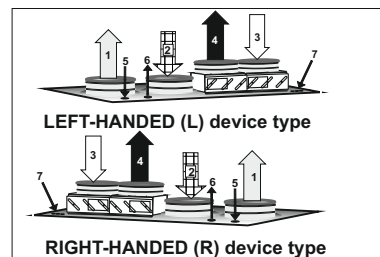
MODULS




The delivery includes Rtek bracket

The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 11 PRO MODUL	2780	1250	2080	2530	500	500	500	500	DN32	DN32

TEHNIICAL DATA

ELECTRICAL HEATING	20,4 kw or 26,35 kW		
HEATING WITH WATER	19,8 kW water 60°/40°C, air Δ t 15°C		
	26,4 kW water 60°/40°C, air Δ t 20°C		
EC-FAN:	1,7 kW	2,6 A.max	400 V 50/60 Hz
WEIGHT:	900 Kg		
FREE SPACE	1150 mm		

ELECTRIC CONNECTION

ELECTRIC HEATER:

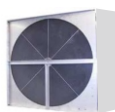
Max.power 23,9kW
3 x 40A
MMJ 5x10S

Max.power 29,9kW
3 x 50A
MMJ 5x16S

WATER HEATER:

Max.power 3,6 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



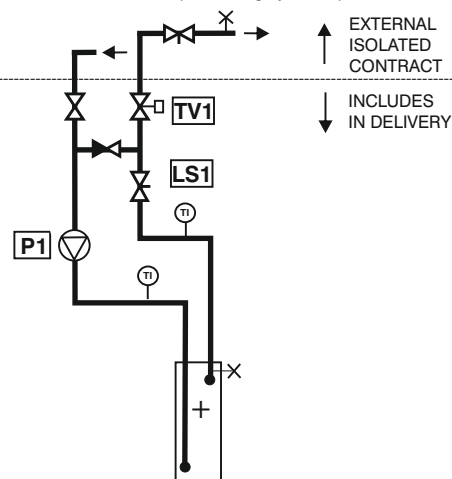
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

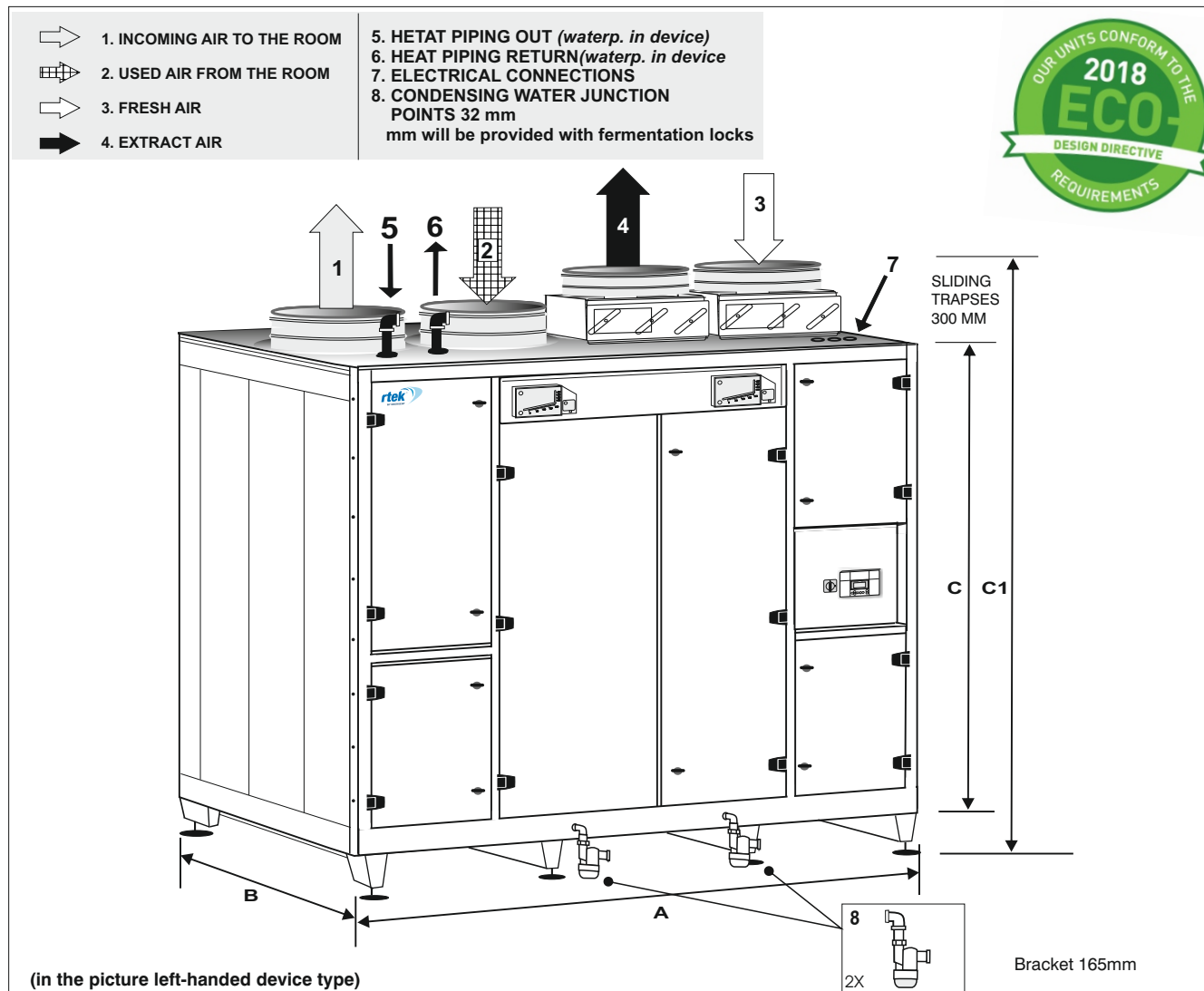
- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery's stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

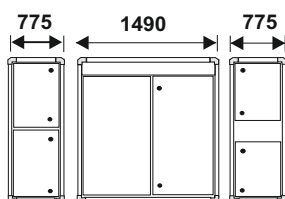
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) kanal
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW)
<input type="checkbox"/> -cooling radiator, freon (CF)
<input type="checkbox"/> -cooling radiator, glykol (CG) |
|--|---|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 15 PRO	2840	1650	2040	2505	500	500	500	500	DN32	DN32

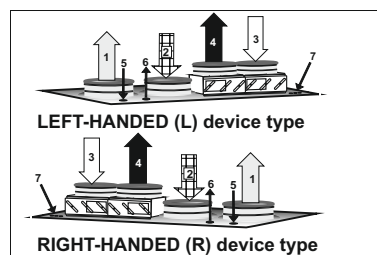
MODULS



The delivery includes Rtek bracket

The device is available right handed too
in other words, duct outlets are as mirror
images

Rtek Modul is made of aluminium frame



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 15 PRO MODUL	3040	1650	2080	2530	500	500	500	500	DN32	DN32

TEHNIICAL DATA

ELECTRICAL HEATING	25,5 kw or 34 kW		
HEATING WITH WATER	24 kW water 60°/40°C, air Δ t 15°C		
	34 kW water 60°/40°C, air Δ t 20°C		
EC-FAN:	1,85 kW	2,9 A.max	400 V 50/60 Hz
WEIGHT:	950 Kg		
FREE SPACE	1550 mm		

ELECTRIC CONNECTION

ELECTRIC HEATER:

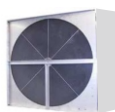
Max.power 29,3 kW
3 x 50A
MMJ 5x16S

Max.power 37,8 kW
3 x 63A
MMJ 5x16S

WATER HEATER:

Max.power 3,9 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



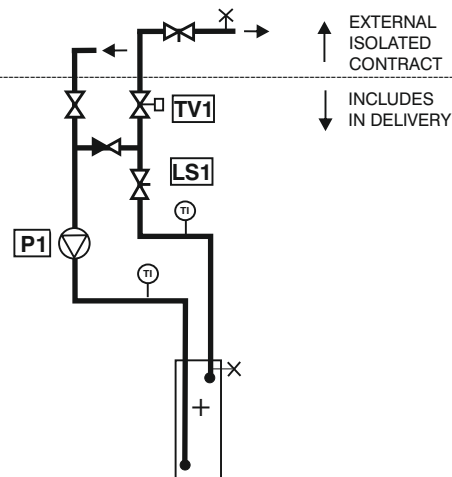
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

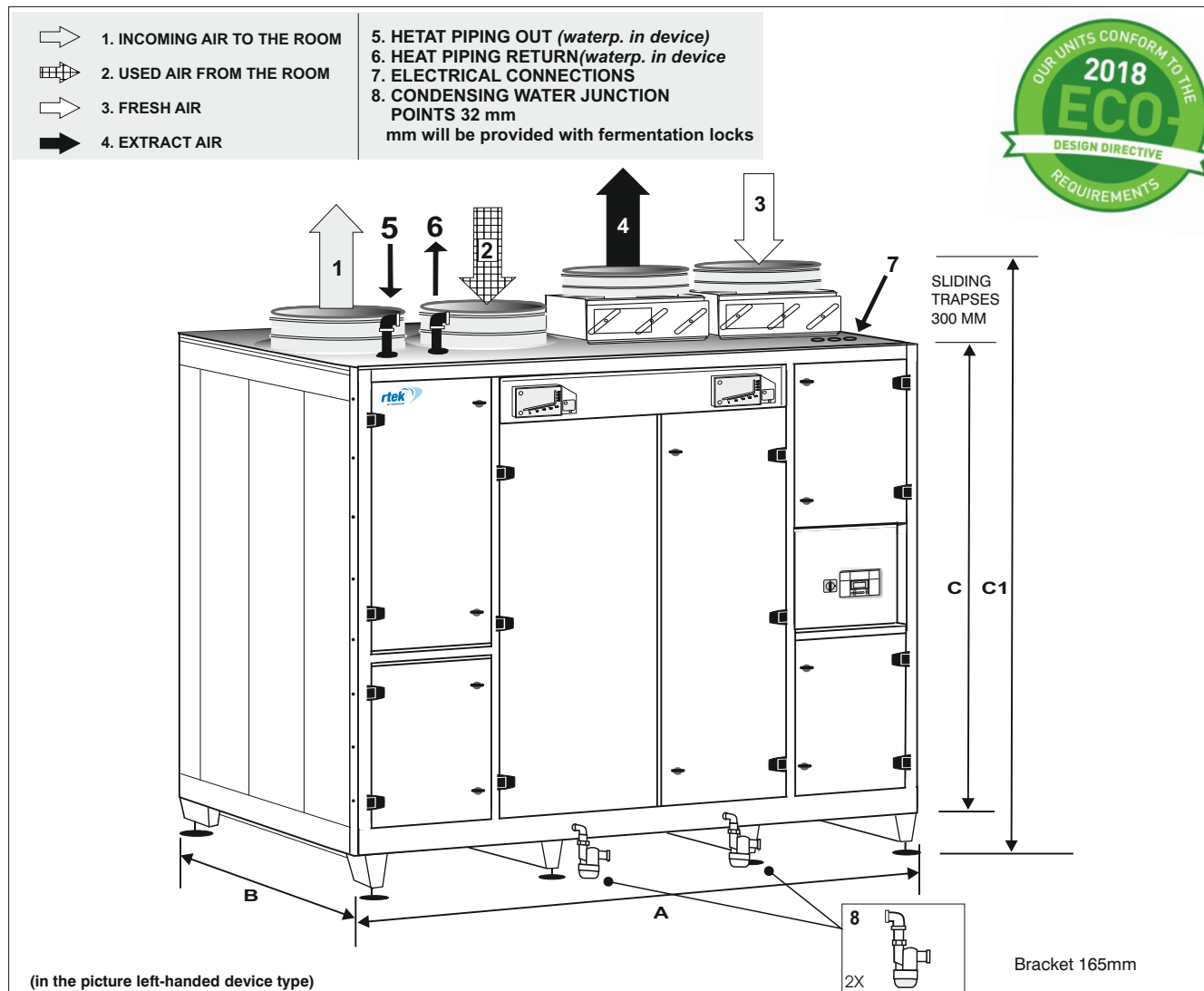
- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

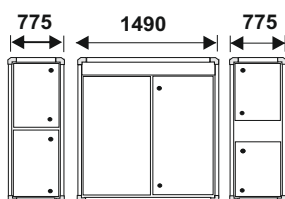
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW)
<input type="checkbox"/> -cooling radiator, freon (CF)
<input type="checkbox"/> -cooling radiator, glykol (CG) |
|--|---|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 20 PRO	2840	1650	2040	2505	630	630	630	630	DN40	DN40

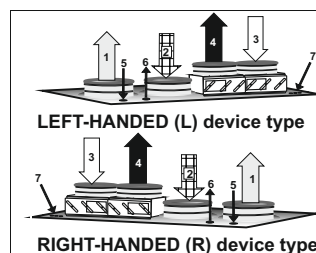
MODULS



The delivery includes Rtek bracket

The device is available right handed too
in other words, duct outlets are as mirror
images

Rtek Modul is made of aluminium frame



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 20 PRO MODUL	3040	1650	2080	2530	630	630	630	630	DN40	DN40

TEHNIICAL DATA

ELECTRICAL HEATING	35,7 kw or 47,6 kw		
HEATING WITH WATER	36 kW water 60°/40°C, air Δ t 15°C		
	48 kW water 60°/40°C, air Δ t 20°C		
EC-FAN:	3,0 kW	4,6 A.max	400 V 50/60 Hz
WEIGHT:	1100 Kg		
FREE SPACE	1550 mm		

ELECTRIC CONNECTION

ELECTRIC HEATER:

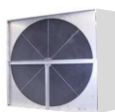
Max.power 41,8 kW
3 x 80A
MMJ 5x25S

Max.power 53,7 kW
3 x 100A
MMJ 5x25S

WATER HEATER:

Max.power 6,2 kW
3 x 16A
MMJ 5 x2,5S

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



COOLING RADIATOR



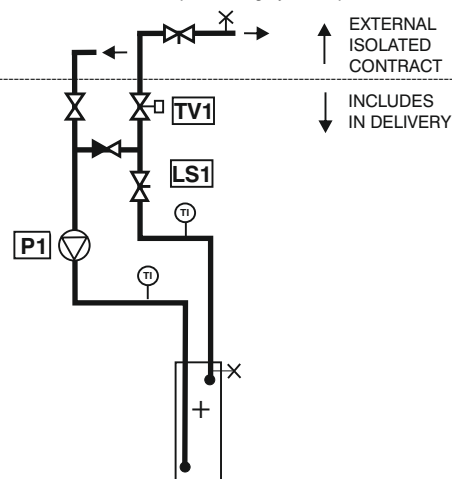
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery 's stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter ; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * liquid heater (HG/CG) duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW)
<input type="checkbox"/> -cooling radiator, freon (CF)
<input type="checkbox"/> -cooling radiator, glykol (CG) |
|--|---|

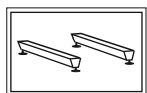
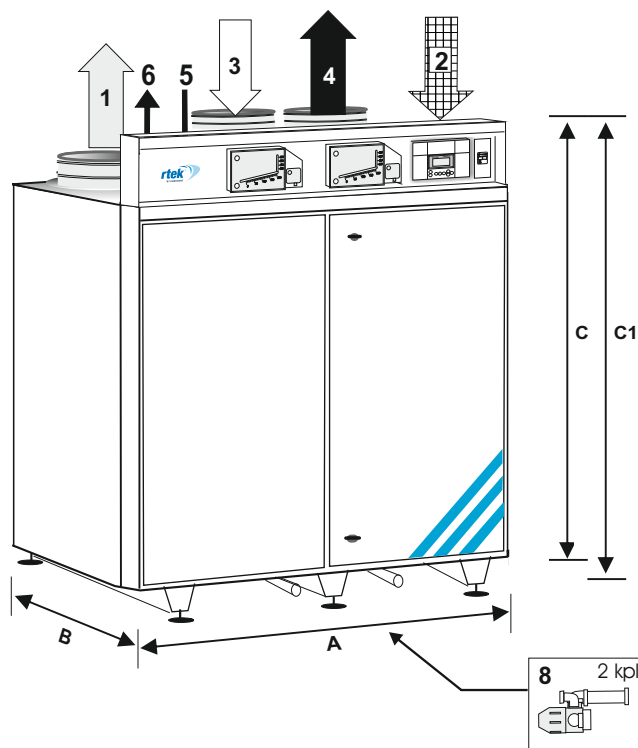
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**

- 1. INCOMING AIR TO THE ROOM
- 2. USED AIR FROM THE ROOM
- 3. FRESH AIR
- 4. EXTRACT AIR

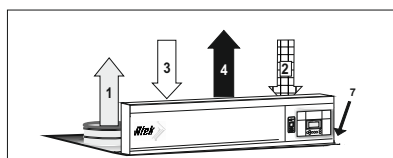
- 5. HETAT PIPING OUT (waterp. in device)
- 6. HEAT PIPING RETURN (waterp. in device)
- 7. ELECTRICAL CONNECTIONS
- 8. CONDENSING WATER JUNCTION POINTS 32 mm mm will be provided with fermentation locks



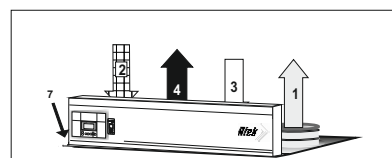
(in the picture left-handed device type)



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS					
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 02-CO	1290	750	1240	1650*)	250	250	250	250	DN20	DN20

TEHNIICAL DATA

ELECTRICAL HEATING	5,1 kW
HEATING WITH WATER	5 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,545 kW 3,5 A.max 230 V 50/60 Hz

COOLING CAPACITY	4 kW, or air flow = 0,25 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR	Power 1,7 kW Current 8,8Amp 230V
COLD SUBSTANCE	R 134A

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 6,2kW
3 x 16A
MMJ 5x2,5S

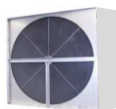
WATER HEATER:

Max.power 3.0 kW
3 x 16A
MMJ 5 x2,5S

WEIGHT: 250 KG

FREE SPACE 800 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

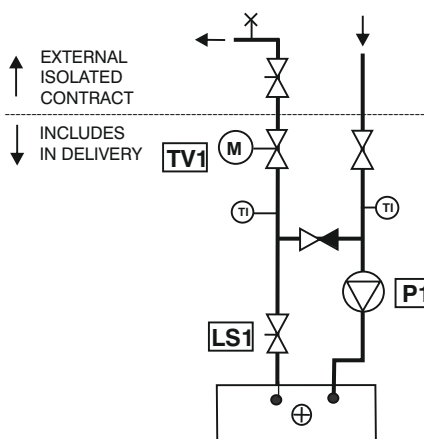
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
*stepless adjustment; 0-10 volt control with temperature,
pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with
rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or
<input type="checkbox"/> F7 bag filter

<input type="checkbox"/> -used air filter ; * G3 bag filter or
<input type="checkbox"/> M5 bag filter

<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
*open/off
*spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board´s
VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|--|--|

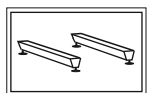
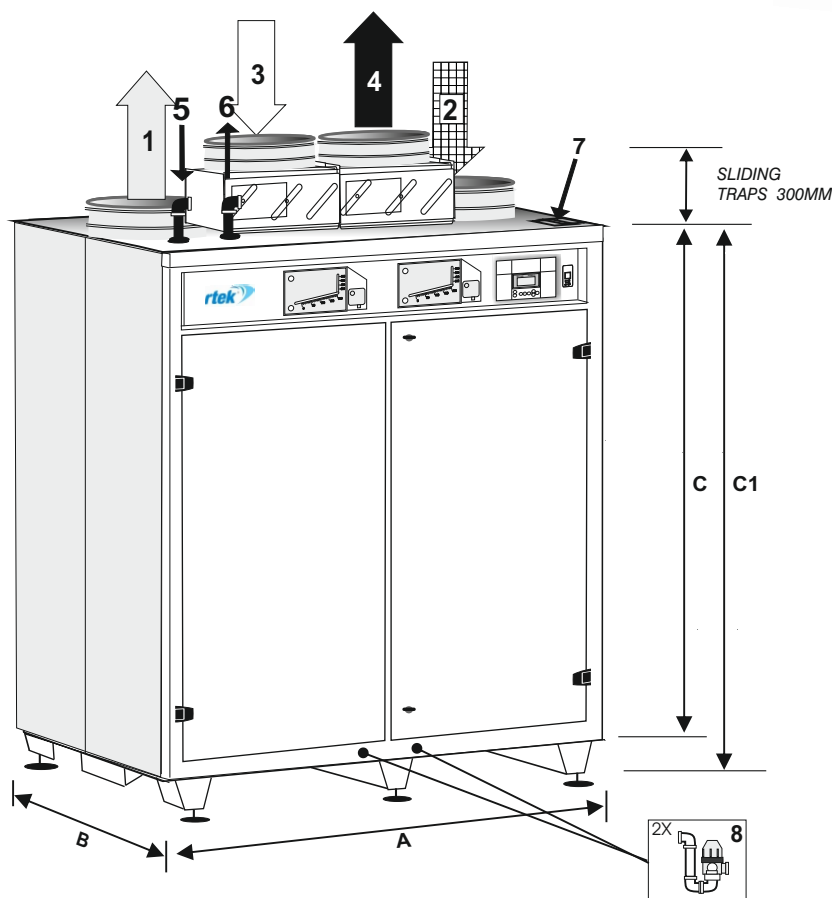
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**

- 1. INCOMING AIR TO THE ROOM
- 2. USED AIR FROM THE ROOM
- 3. FRESH AIR
- 4. EXTRACT AIR

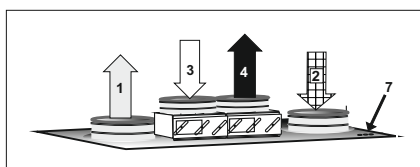
- 5. HETAT PIPING OUT (waterp. in device)
- 6. HEAT PIPING RETURN (waterp. in device)
- 7. ELECTRICAL CONNECTIONS
- 8. CONDENSING WATER JUNCTION POINTS 32 mm mm will be provided with fermentation locks



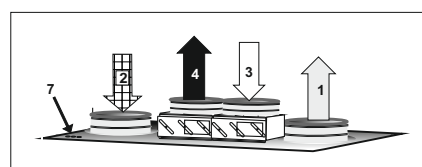
(in the picture left-handed device type)



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 04-CO	1530	790	1700	2165	315	315	315	315	DN20	DN20

TEHNIICAL DATA

ELECTRICAL HEATING	6,8 kW
HEATING WITH WATER	8,4 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,5 kW 2,2 A.max 230 V 50/60 Hz

COOLING CAPACITY	5 kW, or air flow = 0,3 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR	Power 1,7 kW Current 5,0Amp 3/400V
COLD SUBSTANCE	R 134A

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 7,9kW

3 x 16A

MMJ 5x2,5S

WATER HEATER:

Max.power 3.0 kW

3 x 16A

MMJ 5 x2,5S

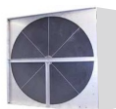
WEIGHT:

250 KG

FREE SPACE

800 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

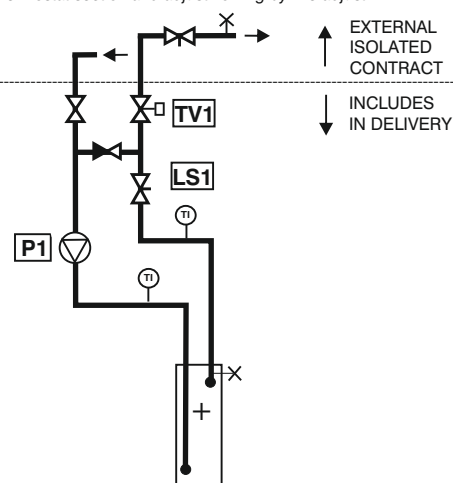
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

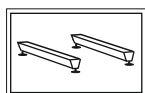
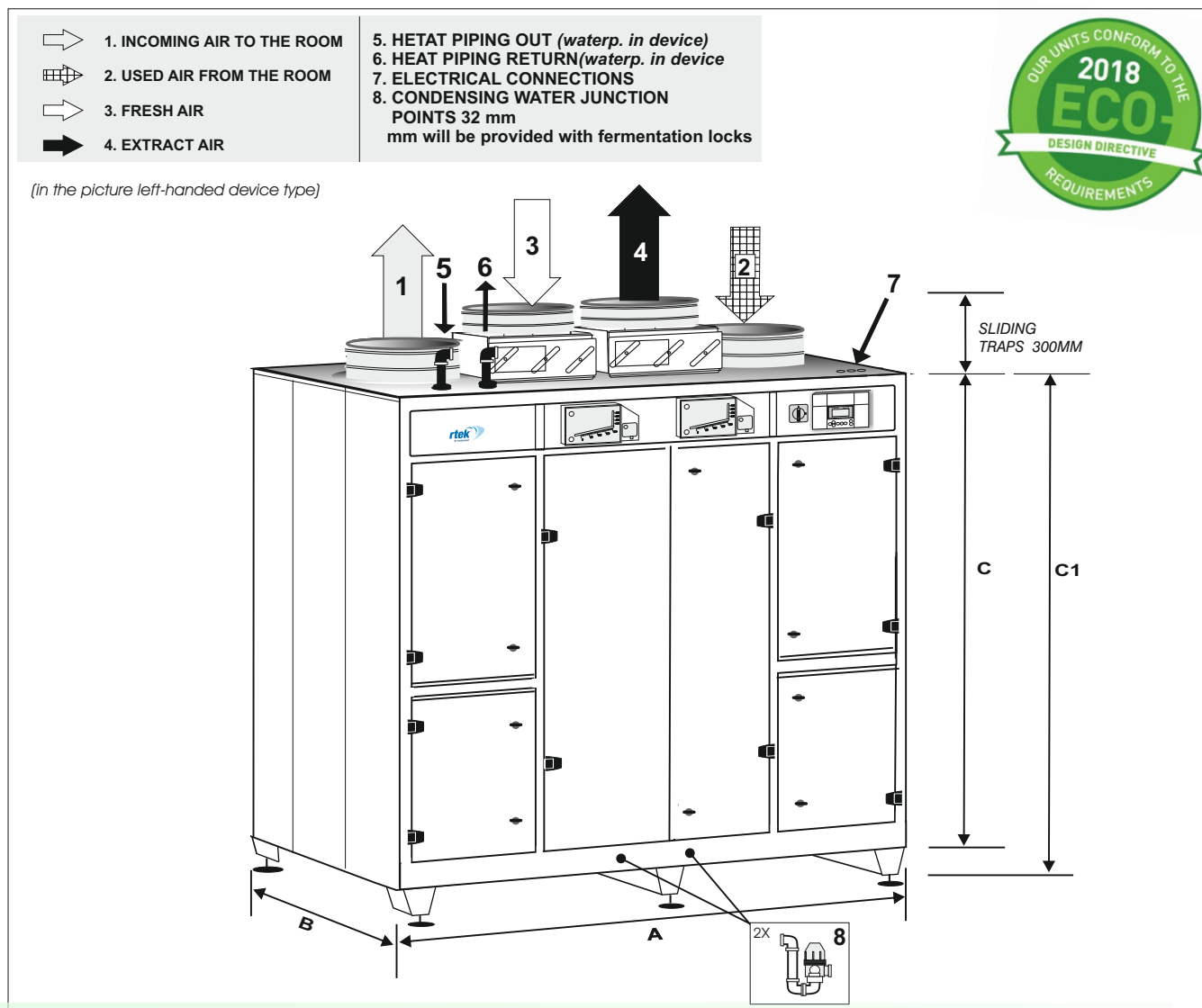
- | | |
|---|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with rotation controller

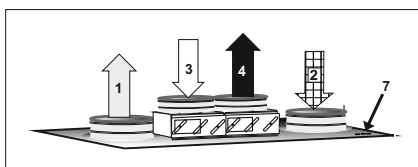
<input type="checkbox"/> -open air filter; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
* open/off
* spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board´s VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|---|---|

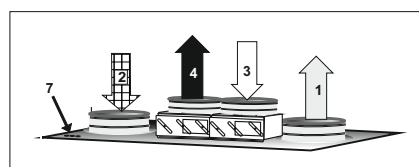
*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 06-CO	2050	940	1700	2165*	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	12,75 kW
HEATING WITH WATER	13,2 kW water 60°/40°C, air Δ t 20°C
EC-FAN:	0,715 kW 3,1 A.max 230 V 50/60 Hz

COOLING CAPASITY	8 kW, or air flow = 0,5 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR: Digiscroll	Power 2,83 kW Current 7Amp 3/400V/50Hz
COLD SUBSTANCE	R 410A

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 14,3kW

3 x 25A

MMJ 5x6S

WATER HEATER:

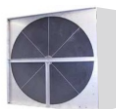
Max.power 4,4 kW

3 x 16A

MMJ 5 x2,5S

WEIGHT: 600 KG**FREE SPACE** 900 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

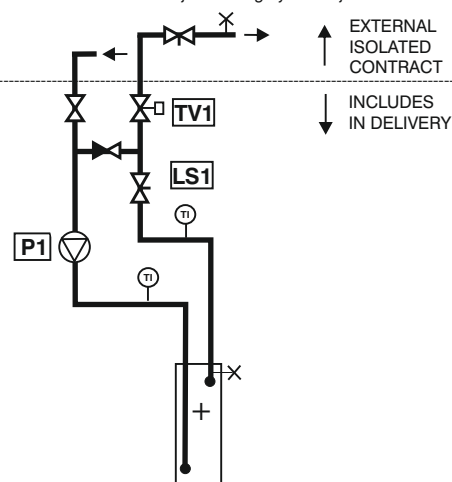
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|---|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan ´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery ´s stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

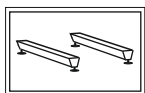
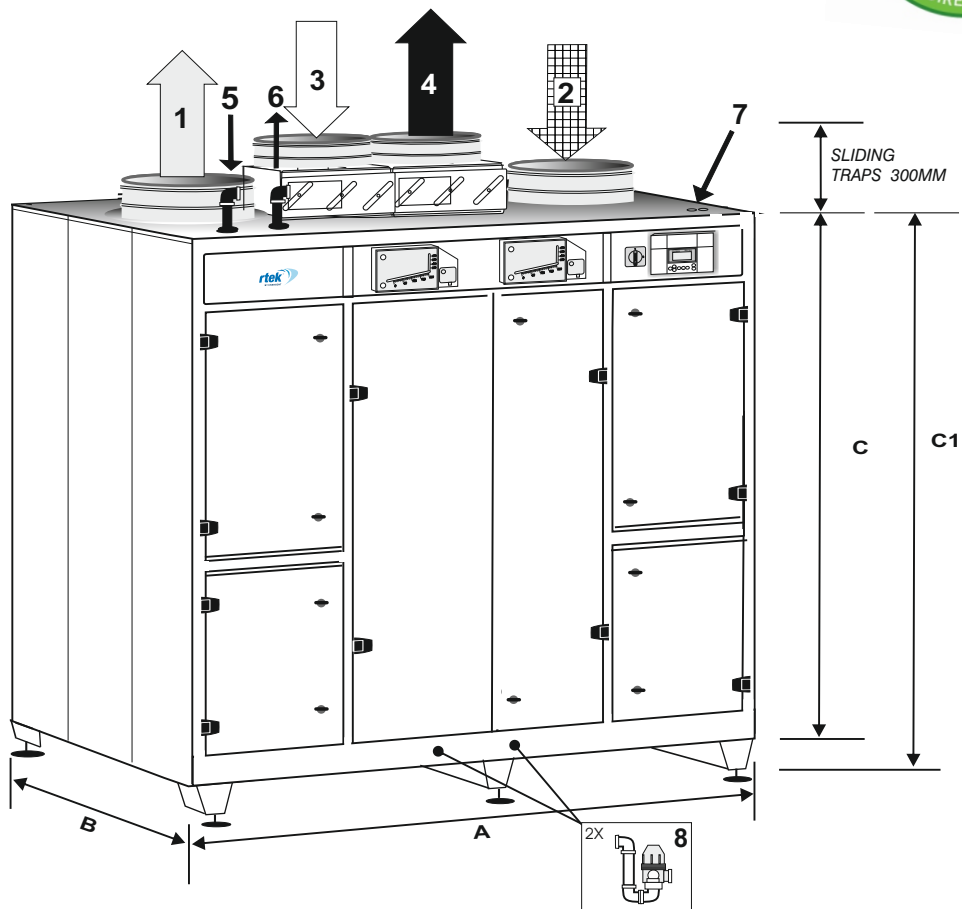
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
* open/off
* spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater ´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board ´s VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct ´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|---|--|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**

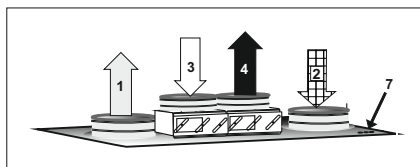
- 1. INCOMING AIR TO THE ROOM
- 2. USED AIR FROM THE ROOM
- 3. FRESH AIR
- 4. EXTRACT AIR

- 5. HETAT PIPING OUT (*waterp. in device*)
- 6. HEAT PIPING RETURN (*waterp. in device*)
- 7. ELECTRICAL CONNECTIONS
- 8. CONDENSING WATER JUNCTION POINTS 32 mm
mm will be provided with fermentation locks

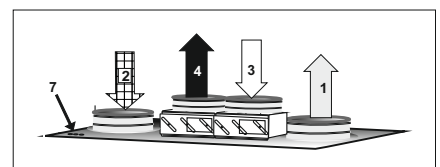
(in the picture left-handed device type)



Machine is equipped adjustable feet
0-70mm



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS					
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 09-CO	2050	1100	1700	2165*)	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	17 kW
HEATING WITH WATER	18 kW water 60°/40°C, air Δt 20°C
EC-FAN:	1,0 kW 1,63 A.max 400 V 50/60 Hz

COOLING CAPASITY	12 kW, or air flow = 0,75 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR: Digiscroll	Power 4,3 kW Current 10Amp 3/400V/50Hz
COLD SUBSTANCE	R 410A

ELECTRIC CONNECTION

ELECTRIC HEATER:

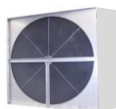
Max.power 19,1kW
3 x 40A
MMJ 5x10S

WATER HEATER:

Max.power 6,5 kW
3 x 16A
MMJ 5 x2,5S

WEIGHT:	800 KG
FREE SPACE	1000 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

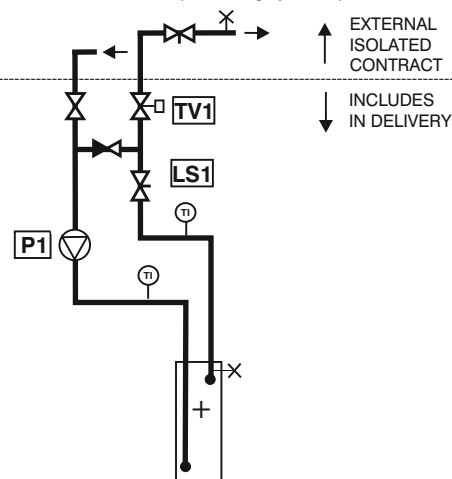
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

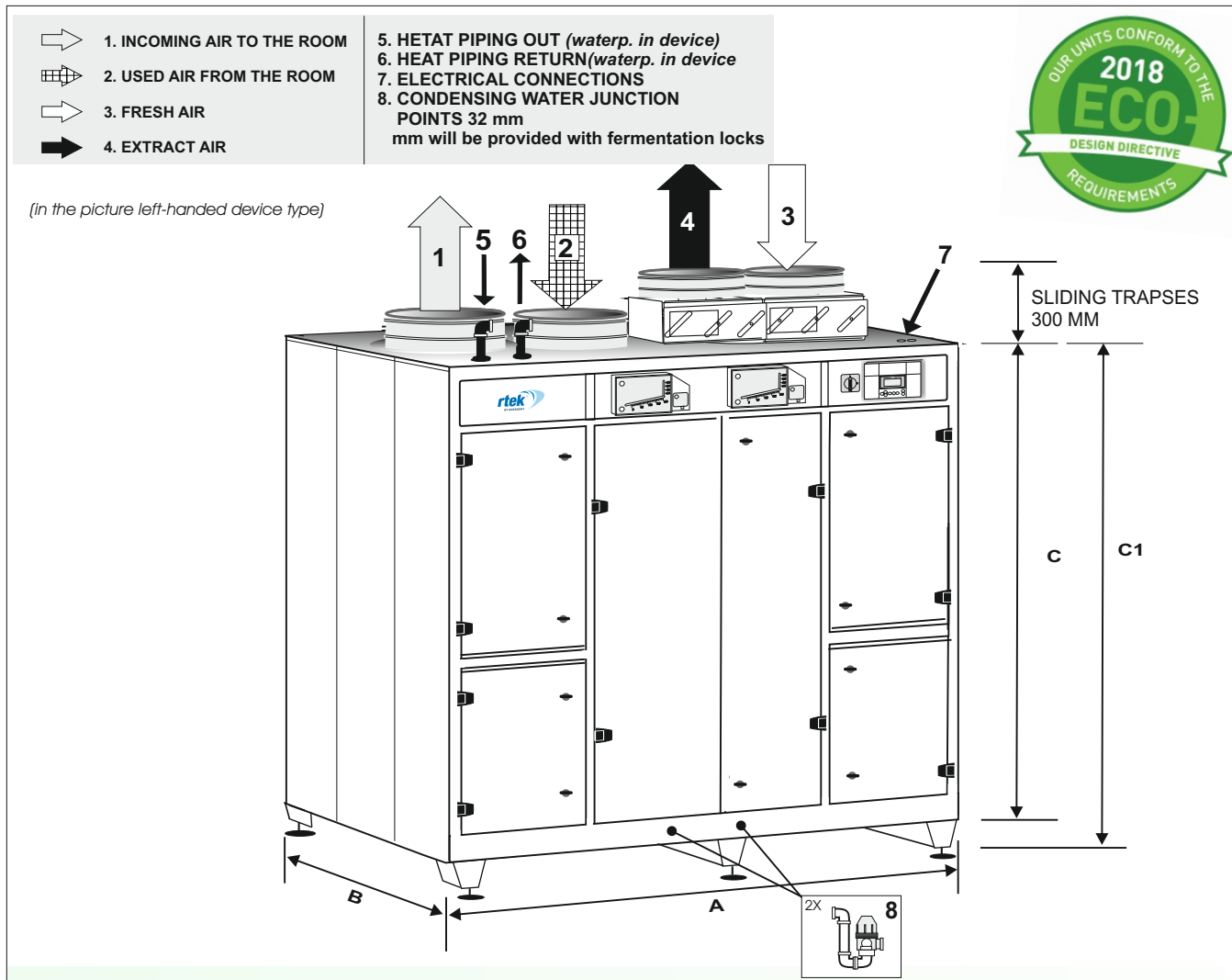
- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
*stepless adjustment; 0-10 volt control with temperature,
pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with
rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or
F7 bag filter
<input type="checkbox"/> -used air filter ; * G3 bag filter or
M5 bag filter
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
*open/off
*spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board´s
VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|--|--|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 09 PRO	2050	1100	1700	2165*)	400	400	400	400	DN25	DN25

MODULS		The delivery includes Rtek bracket		The device is available right handed too in other words, duct outlets are as mirror images		Rtek Modul is made of aluminium frame		LEFT-HANDED (L) device type		RIGHT-HANDED (R) device type	
		THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
		A	B	C	C1	1	2	3	4	5	6
Rtek PR 09-CO PRO MODUL		2250	1100	1740	2190	400	400	400	400	DN25	DN25

TEHNIICAL DATA

ELECTRICAL HEATING	17 kW
HEATING WITH WATER	18 kW water 60°/40°C, air Δt 20°C
EC-FAN:	1,0 kW 1,63 A.max 400 V 50/60 Hz

COOLING CAPASITY	12 kW, or air flow = 0,75 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR: Digiscroll	Power 4,3 kW Current 10Amp 3/400V/50Hz
COLD SUBSTANCE	R 410A

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 19,1kW
3 x 40A
MMJ 5x10S

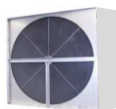
WATER HEATER:

Max.power 6,5 kW
3 x 16A
MMJ 5 x2,5S

WEIGHT: 800 KG

FREE SPACE 1000 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

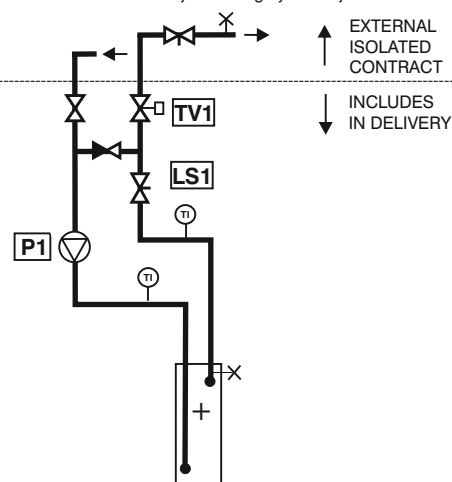
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|---|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature,
pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with
rotation controller

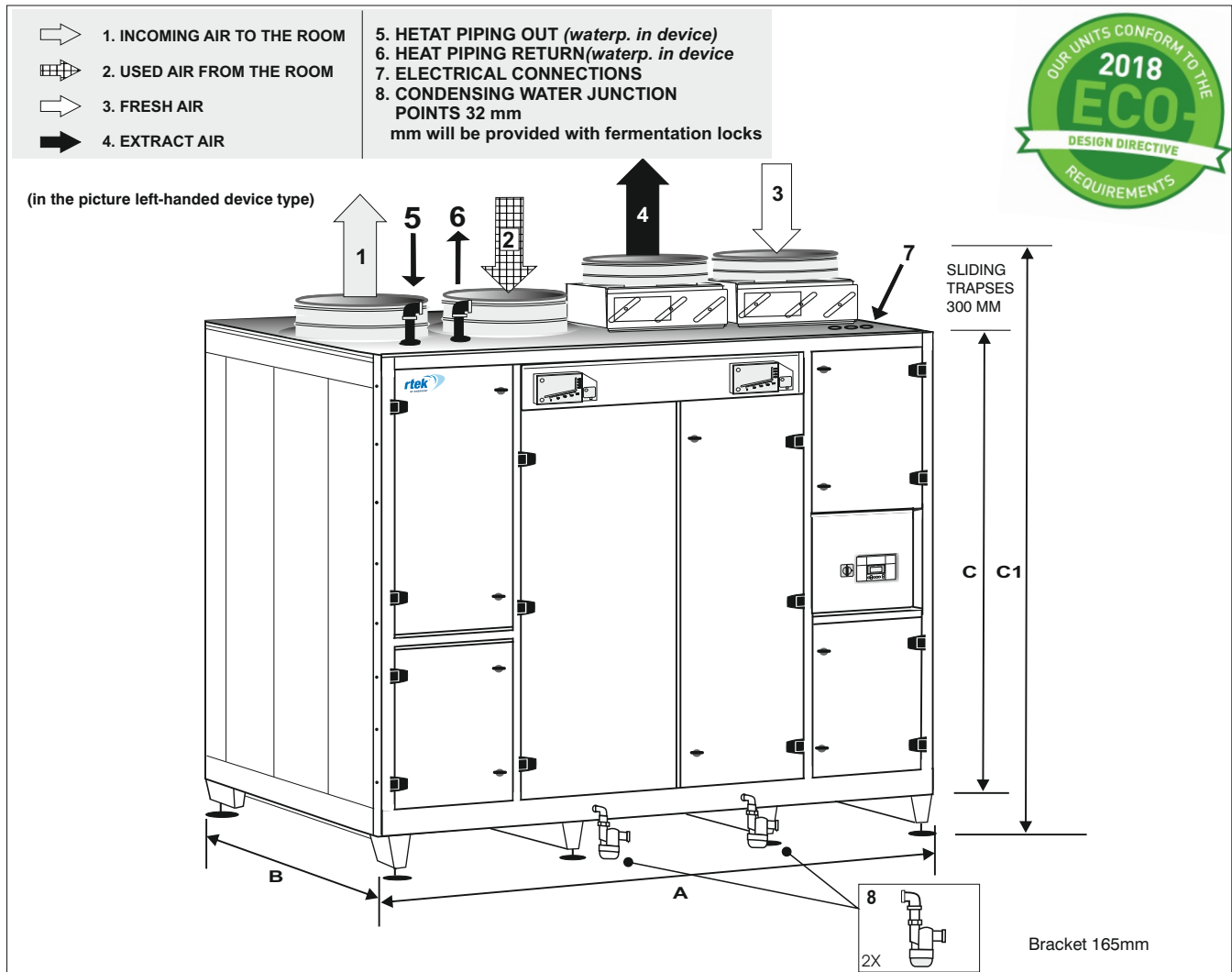
<input type="checkbox"/> -open air filter; * M5 bag filter or
<input type="checkbox"/> F7 bag filter

<input type="checkbox"/> -used air filter ; * G3 bag filter or
<input type="checkbox"/> M5 bag filter

<input type="checkbox"/> -spare filters

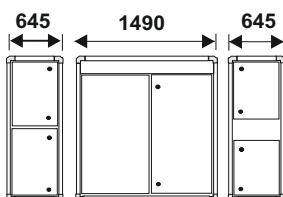
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
* open/off
* spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board´s
VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|---|--|

*** Offices * Schools and Day-care centres * Industries- and Commercial buildings**



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 11-CO PRO	2580	1250	2040	2505	500	500	500	500	DN32	DN32

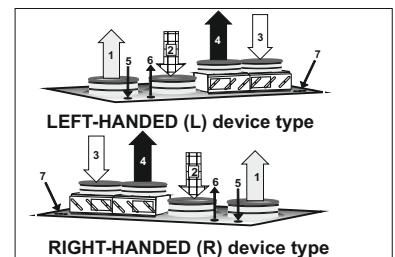
MODULS



The delivery includes Rtek bracket

The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 11-CO PRO MODUL	2780	1250	2080	2530	500	500	500	500	DN32	DN32

TEHNIICAL DATA

ELECTRICAL HEATING	20,4 or 26,3 kW		
HEATING WITH WATER	19,8 kW water 60°/40°C, air Δt 15°C		
	26,4 kW water 60°/40°C, air Δt 20°C		
EC-FAN:	1,7 kW	2,6 A.max	400 V 50/60 Hz
COOLING CAPASITY	18 kW, or air flow = 1,1 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)		
COMPRESSOR: Digiscroll	Power 4,93 kW Current 11,8Amp 3/400V/50Hz		
COLD SUBSTANCE	R 410A		

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 23,9kW

3 x 50A

MMJ 5x16S

Max.power 29,9kW

3 x 50A

MMJ 5x16S

WATER HEATER:

Max.power 8,5 kW

3 x 25A

MMJ 5 x6S

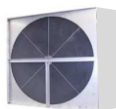
WEIGHT:

950 KG

FREE SPACE

1150 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

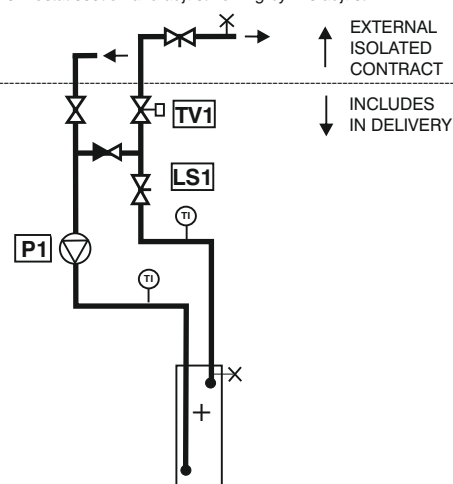
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

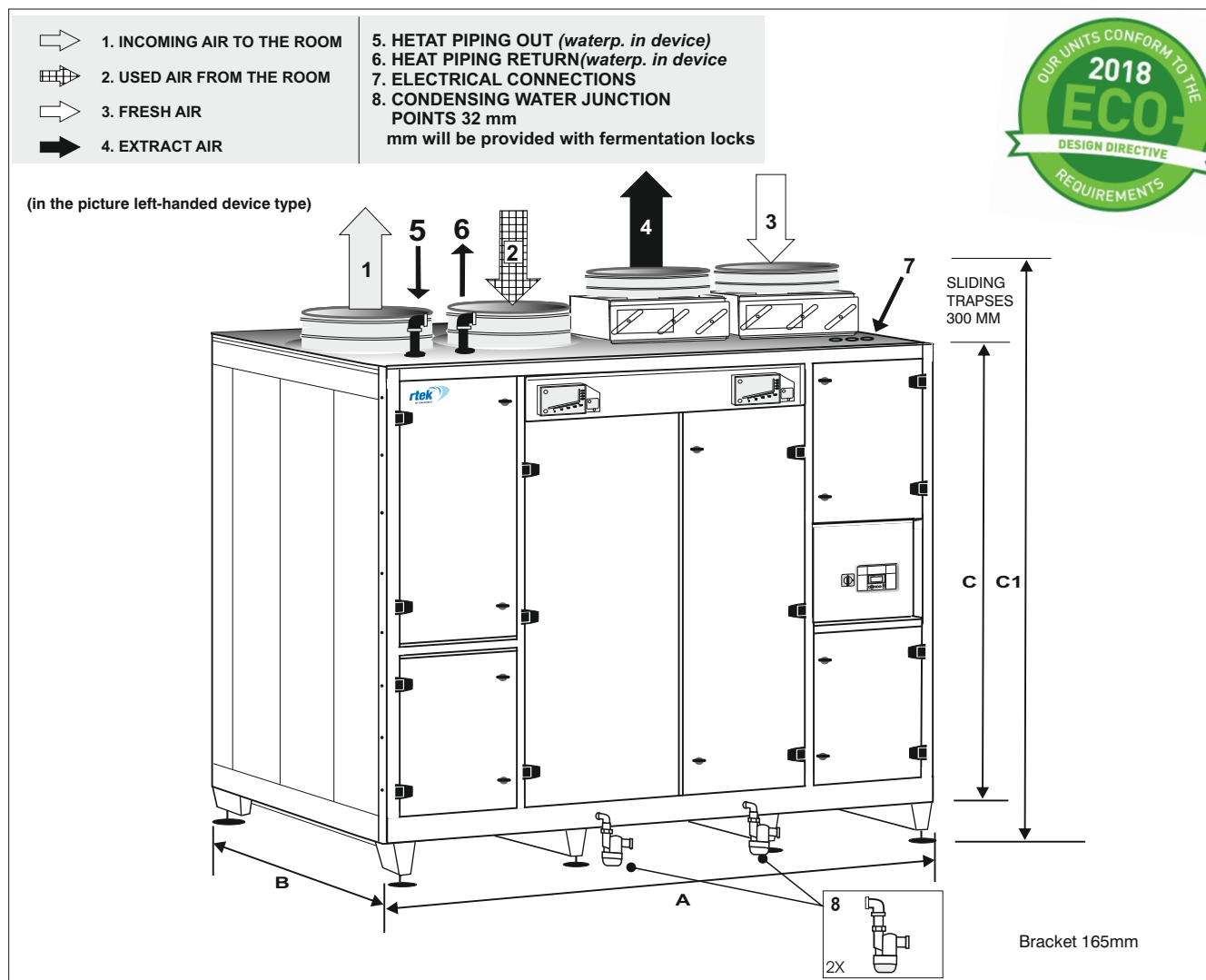
- | | |
|---|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery's stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
* open/off
* spring return
<input type="checkbox"/> -heater
* water heater
* electric heater
<input type="checkbox"/> -water heater's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
* in device are adjusting device example Ouman
-GSM-control
-Modbus
* Interface to the sub-distribution board's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|---|---|

* Offices * Schools and Day-care centres * Industries- and Commercial buildings



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 15-CO ^{PRO}	2840	1650	2040	2505	500	500	500	500	DN 32	DN32

MODULS

The delivery includes Rtek bracket

The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame

LEFT-HANDED (L) device type

RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 15-CO ^{PRO} MODUL	3040	1650	2080	2530	500	500	500	500	DN32	DN32

TEHNIICAL DATA

ELECTRICAL HEATING	25,5 or 30,6 kW
HEATING WITH WATER	24 kW water 60°/40°C, air Δt 15°C
	34 kW water 60°/40°C, air Δt 20°C
EC-FAN:	1,85 kW 2,9 A.max 400 V 50/60 Hz
COOLING CAPASITY	25 kW, or air flow = 1,5 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)
COMPRESSOR: Digiscroll	Power 7,94 kW Current 18,2Amp 3/400V/50Hz
COLD SUBSTANCE	R 410A

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 29,3kW

3 x 63A

MMJ 5x16S

Max.power 37,8kW

3 x 63A

MMJ 5x16S

WATER HEATER:

Max.power 11,9 kW

3 x 25A

MMJ 5 x6S

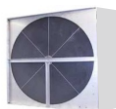
WEIGHT:

1000 KG

FREE SPACE

1550 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

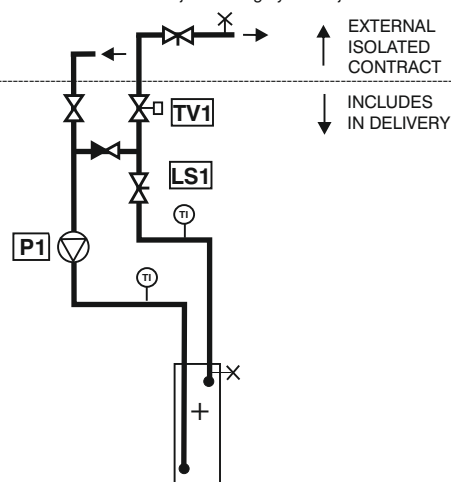
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

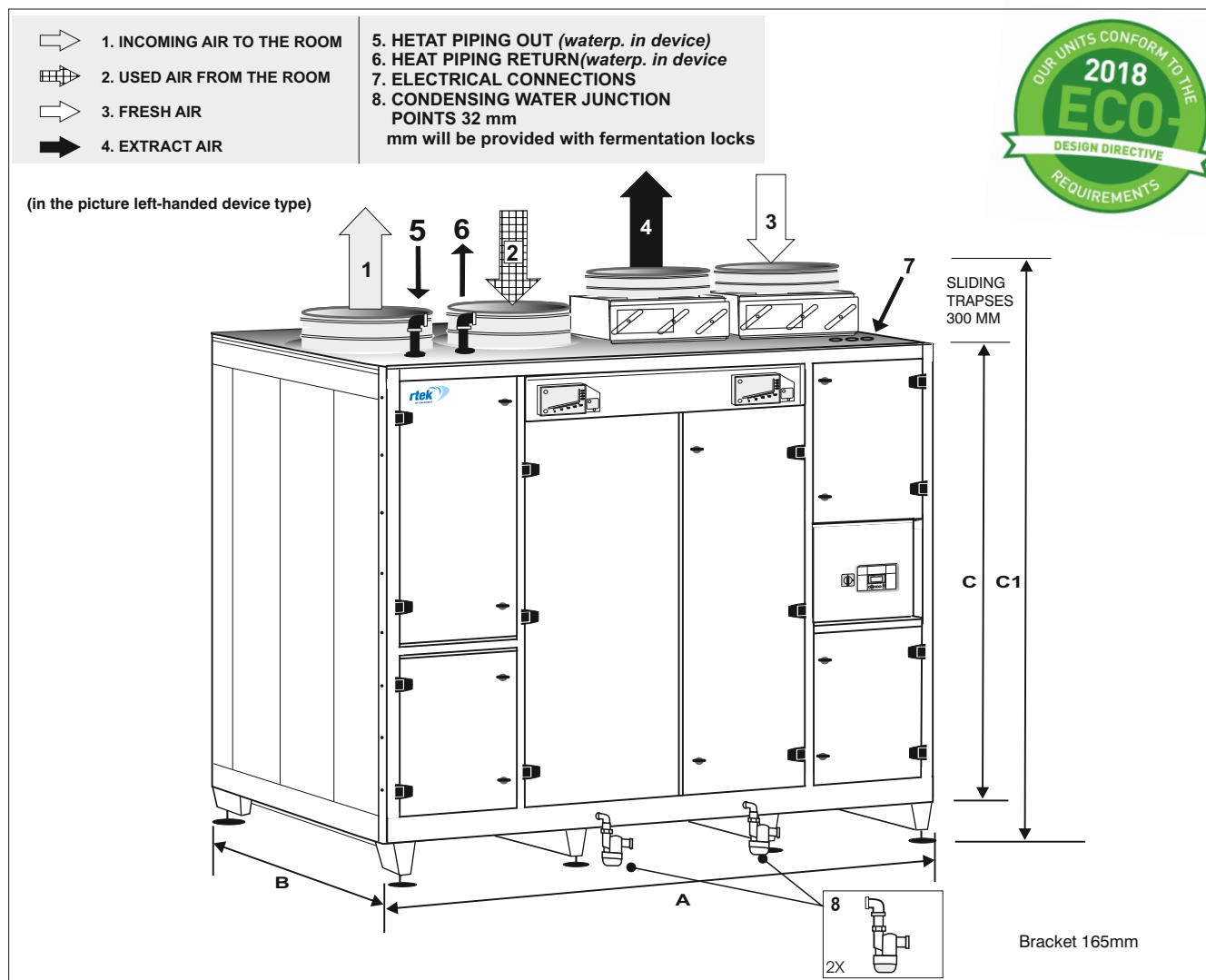
- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board´s VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|--|---|

* Offices * Schools and Day-care centres * Industries- and Commercial buildings



	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 20-CO ^{PRO}	2840	1650	2040	2505	630	630	630	630	DN40	DN40

MODULS

The delivery includes Rtek bracket

The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame

LEFT-HANDED (L) device type

RIGHT-HANDED (R) device type

	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
Rtek PR 20-CO ^{PRO} MODUL	3040	1650	2080	2530	630	630	630	630	DN40	DN40

TEHNIICAL DATA

ELECTRICAL HEATING	35,7 or 47,6 kW		
HEATING WITH WATER	36 kW water 60°/40°C, air Δt 15°C		
	48 kW water 60°/40°C, air Δt 20°C		
EC-FAN:	3,0 kW	4,6 A.max	400 V 50/60 Hz
COOLING CAPASITY	33 kW, or air flow = 2,0 m³/s Fresh air = 27 C/55% Rh (evaporation) Extract air = 23 C/55% Rh (condensation)		
COMPRESSOR: Digiscroll	Power 11,2 kW Current 21,6Amp 3/400V/50Hz		
COLD SUBSTANCE	R 410A		

ELECTRIC CONNECTION

ELECTRIC HEATER:

Max.power 41,8kW

3 x 80A

MMJ 5x16S

Max.power 53,7kW

3 x 100A

MMJ 5x25S

WATER HEATER:

Max.power 17,4kW

3 x 40A

MMJ 5 x10S

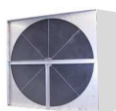
WEIGHT:

1150 KG

FREE SPACE

1550 mm

HEAT RECOVERY



ROTATING HEAT EXCHANGER: Manufactured from aluminium, coefficient of efficiency 70-85%, depends on air flow range

EC-FANS



Energy-efficient , low-power consuming EC fans

HEATER; WATER OR ELECTRIC



WITH MOUNTED COOLER

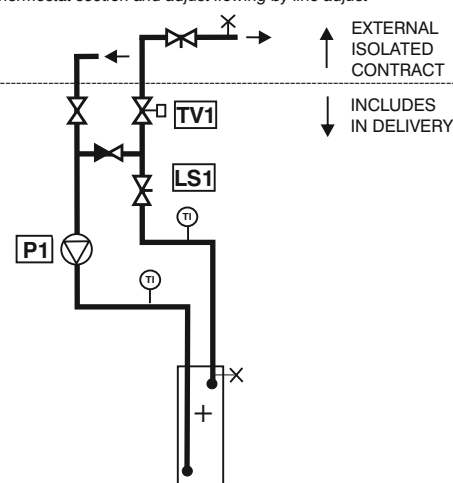
SILENCER



HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan´s speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -rotating heat exchanger
Heat Recovery´s stepless rotation speed adjuster with rotation controller

<input type="checkbox"/> -open air filter; * M5 bag filter or F7 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -used air filter ; * G3 bag filter or M5 bag filter
<input type="checkbox"/>
<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract aie sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater´s thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board´s VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -air flow meters
<input type="checkbox"/> -duct´s temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -with mounted cooler (CO) |
|--|--|

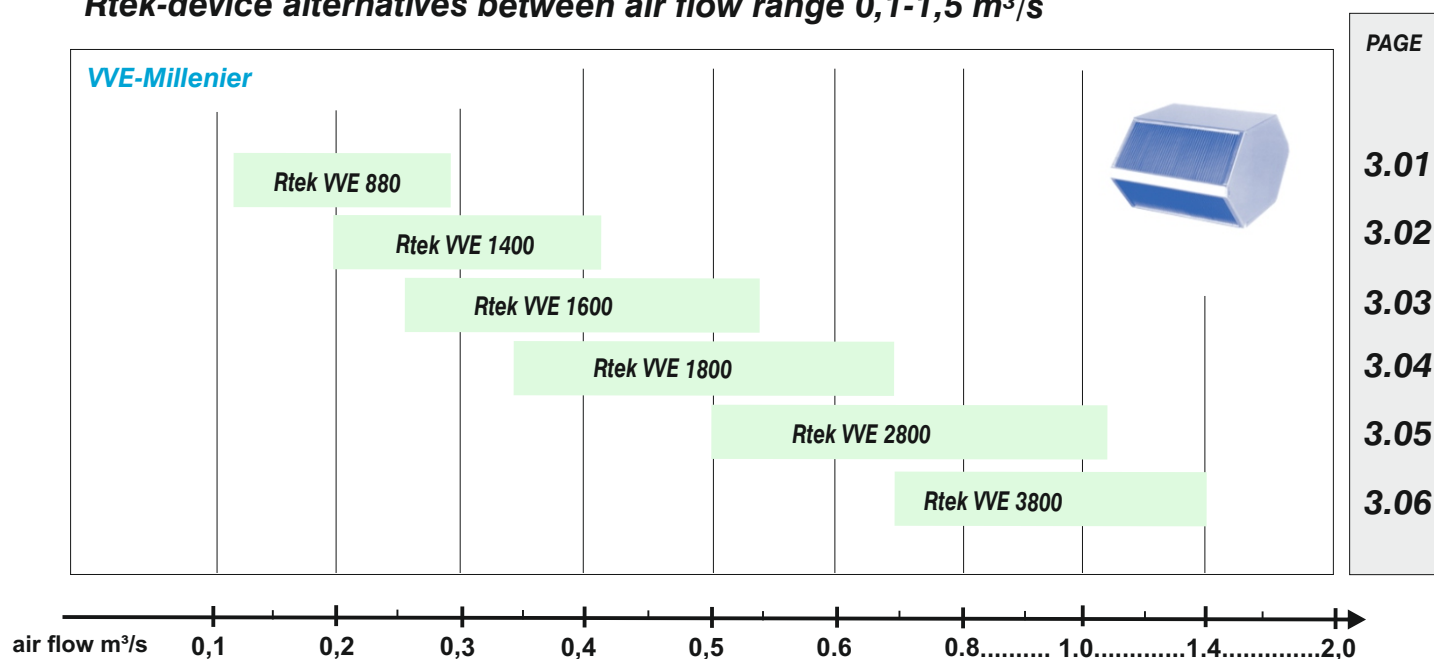
SELECTION TABLE 3

VVE-Millénier

Devices and airflow m³/s

with a counter-flow heat exchanger

Rtek-device alternatives between air flow range 0,1-1,5 m³/s





Air Conditioning System Utilising Natural Energy

*Houses * Offices * Schools and day-care centres

➔ 1. INCOMING AIR TO THE ROOM

⬅ 2. USED AIR FROM THE ROOM

➔ 3. FRESH AIR

➔ 4. EXHAUST AIR

5 HEATING PIPE, IN (water p.)

6 HEATING PIPE, OUT (water p.)

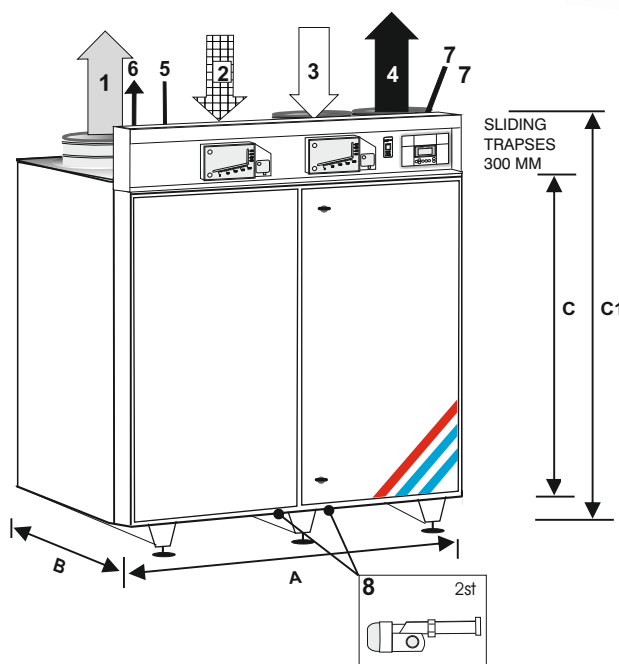
7 ELECTRICAL CONNECTIONS

8 CONDENSATE CONNECTIONS 33 MM, equipped with water locks

GEO COOLING OPTION



LEFT HANDED DEVICE TYP [L]



Efficient utilisation of natural energy –
geothermal heating effect in winter and
geothermal cooling effect in summer

EC FAN

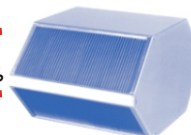


FRONT HEATING/DUCT COOLING BATTERY

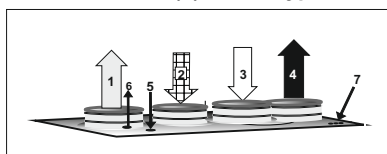


COUNTER-FLOW HEAT EXCHANGER

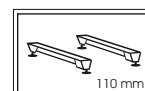
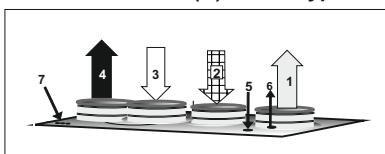
COP (co-efficient of performance) up to 85%



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type



Machine is equipped adjustable feet
of adjustment 0-70mm

	THE MAIN MEASURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 880	1290	750	1240	1650*)	250	250	250	250	DN20	DN20

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING		COOLING	
		3.2 kW		3.5 kW	
FRONT HEATING WITH ELECTRICITY (HE)		max.1,7 kW			
POST-HEATING	WATER	3,2 kW water 60°/40°C, air Δt 8°C		6,1 kW water 60°/40°C, air Δt 15°C	
	ELECTRICITY	max. 3,4 kW			
EC-FAN		0,5 kW	2,2 A.max	230V 50/60 Hz	
WEIGHT		250 Kg			

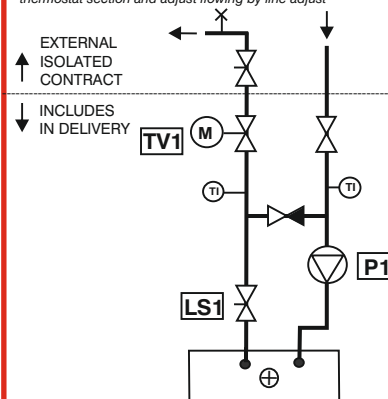
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : +with an electric heater	Max. power 6,2 kW 3 x 16A MMJ 5 x 2,5S
WATER RADIATOR: +with an electric heater	Max. power 3,0 kW 3 x 16A MMJ 5 x 2,5S
ELECTRIC RADIATOR : (no preheating)	Max. power 4,5 kW 3 x 16A MMJ 5 x 2,5S
WATER RADIATOR: (no preheating)	Max. power 1,3 kW 3 x 16A MMJ 5 x 2,5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- ☐ **EC fan** -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
- ☐ *2-speed from 0-10 volt control
- *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

- ☐ -Counter-flow heat exchanger
- ☐ -by-pass plate of heat recovery
- ☐ -sector defrosting system

- ☐ -large area filter

	open air	used air
G3/G4		
M5		
M6		
F7		

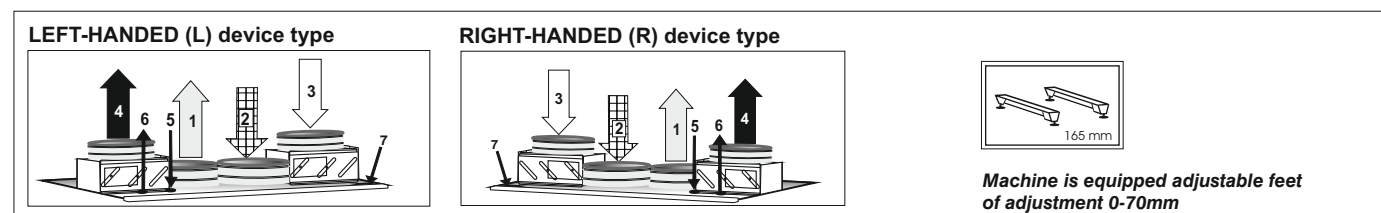
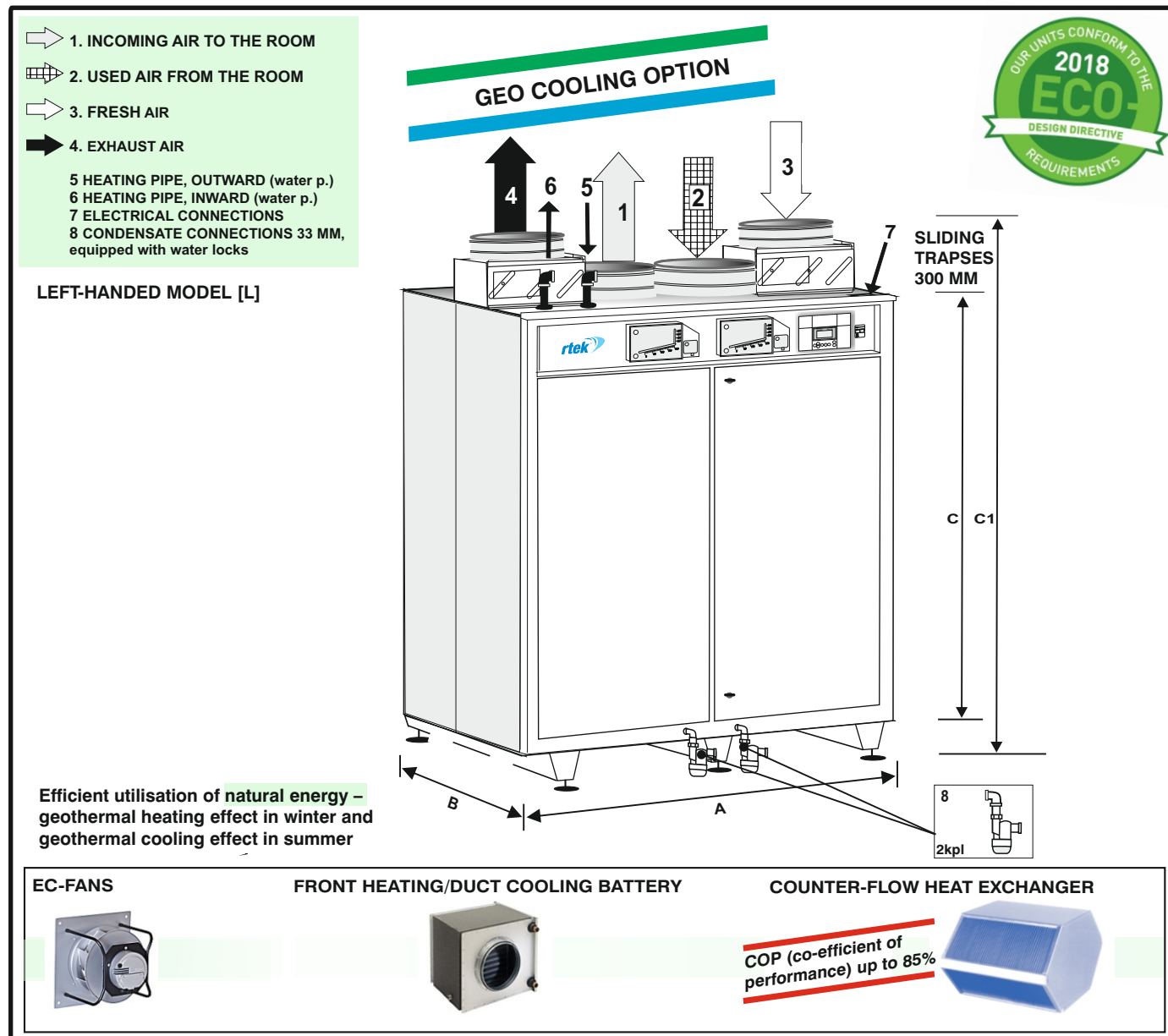
- ☐ -spare filters

- ☐ -filter controller, indicating
- ☐ -filter controller, alarming

- ☐ -open air sliding trap
- ☐ -extract air sliding trap
- ☐ -platemotors
- ☐ *open/off
- ☐ *spring return
- ☐ -preheating
- ☐ * electric heater (HE)
- ☐ * liquid heater (HG/CG),duct
- ☐ -heater
- ☐ * water heater
- ☐ * electric heater
- ☐ -water heater 's thermostat section
- ☐ -electrical control station
- ☐ -adjustment station
- ☐ * in device are adjusting device example Ouman
- ☐ -GSM-control
- ☐ -Modbus
- ☐ * Interface to the sub-distribution board 's VAK-regulation units
- ☐ -moisture detector
- ☐ -carbon dioxide detectors (Co2)
- ☐ -pressure transmitter ☐ air flow meters
- ☐ -duct 's temperature detectors
- ☐ -emergency button (fire)
- ☐ -cooling radiator, cold water (CW),duct
- ☐ -cooling radiator, freon (CF),duct
- ☐ -cooling radiator, glykol (CG),duct

Air Conditioning System Utilising Natural Energy

* Offices * Schools and day care institutions * Industrial and office buildings



	THE MAIN MEASURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 1400	1530	790	1700	2165*)	315	315	315	315	DN20	DN20

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING		COOLING	
		4,4 kW		4,9 kW	
FRONT HEATING WITH ELECTRICITY (HE)		max.5,1 kW			
POST-HEATING	WATER	4,4 kW water 60°/40°C, air Δt 8°C		8,3 kW water 60°/40°C, air Δt 15°C	
	ELECTRICITY	max. 5,1 kW			
EC-FAN		0,75 kW	3,3 A.max	230V 50/60 Hz	
WEIGHT		350 Kg			

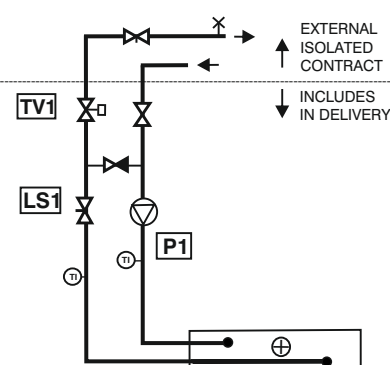
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : +with an electric heater	Max. power 11,6 kW 3 x 25A MMJ 5 x 6S
WATER RADIATOR: +with an electric heater	Max. power 6,7 kW 3 x 16A MMJ 5 x 2,5S
ELECTRIC RADIATOR : (no preheating)	Max. power 6,5 kW 3 x 16A MMJ 5 x 2,5S
WATER RADIATOR: (no preheating)	Max. power 1,6 kW 3 x 16A MMJ 5 x 2,5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- | | |
|--|---|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -Counter-flow heat exchanger
<input type="checkbox"/> -by-pass plate of heat recovery
<input type="checkbox"/> -sector defrosting system

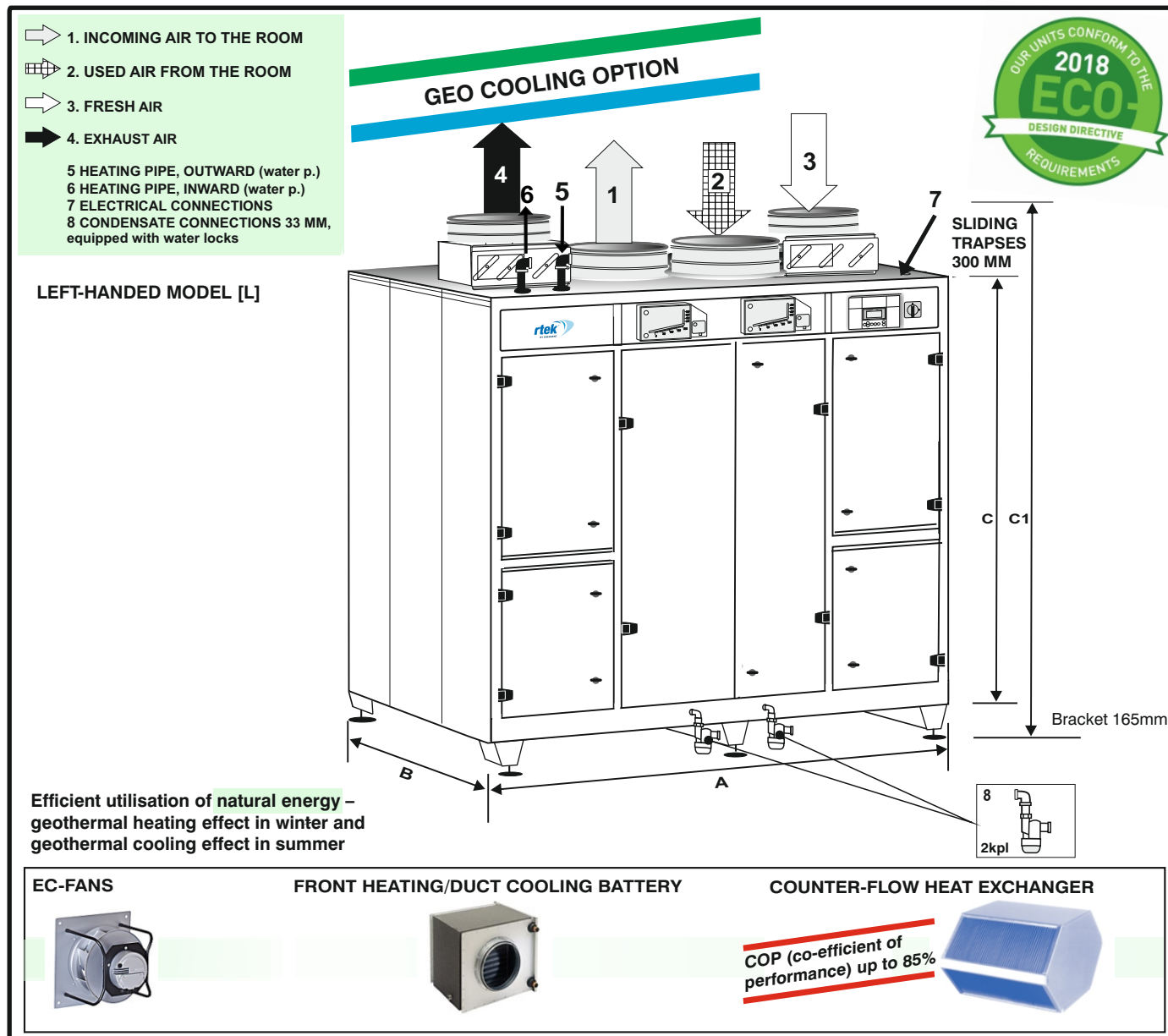
<input type="checkbox"/> -large area filter

<input type="checkbox"/> -spare filters

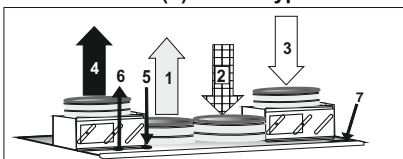
<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
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<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * electric heater (HE)
<input type="checkbox"/> * liquid heater (HG/CG),duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter <input type="checkbox"/> air flow meters
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW),duct
<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct |
|--|---|

Air Conditioning System Utilising Natural Energy

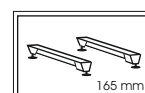
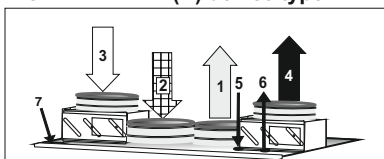
* Offices * Schools and day care institutions * Industrial and office buildings



LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type



Machine is equipped adjustable feet of adjustment 0-70mm

	THE MAIN MEASURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 1600	2050	940	1700	2165	400	400	400	400	DN25	DN25

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING		COOLING	
		5,5 kW		6,2 kW	
FRONT HEATING WITH ELECTRICITY (HE)		max.6,8 kW			
POST-HEATING	WATER	5,6 kW water 60°/40°C, air Δt 8°C		10,4 kW water 60°/40°C, air Δt 15°C	
	ELECTRICITY	max. 6,8 kW			
EC-FAN		0,75 kW	3,3 A.max	230V 50/60 Hz	
WEIGHT		500 Kg			

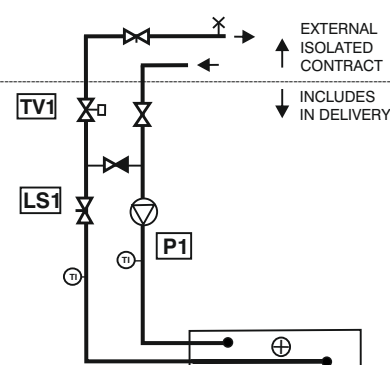
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : +with an electric heater	Max. power 15 kW 3 x 25A MMJ 5 x 6S
WATER RADIATOR: +with an electric heater	Max. power 8,4 kW 3 x 16A MMJ 5 x 2,5S
ELECTRIC RADIATOR : (no preheating)	Max. power 7,9 kW 3 x 16A MMJ 5 x 2,5S
WATER RADIATOR: (no preheating)	Max. power 1,3 kW 3 x 16A MMJ 5 x 2,5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- | | | | | | | | | | | | | | |
|--|---|-------|--|--|----|--|--|----|--|--|----|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -Counter-flow heat exchanger
<input type="checkbox"/> -by-pass plate of heat recovery
<input type="checkbox"/> -sector defrosting system

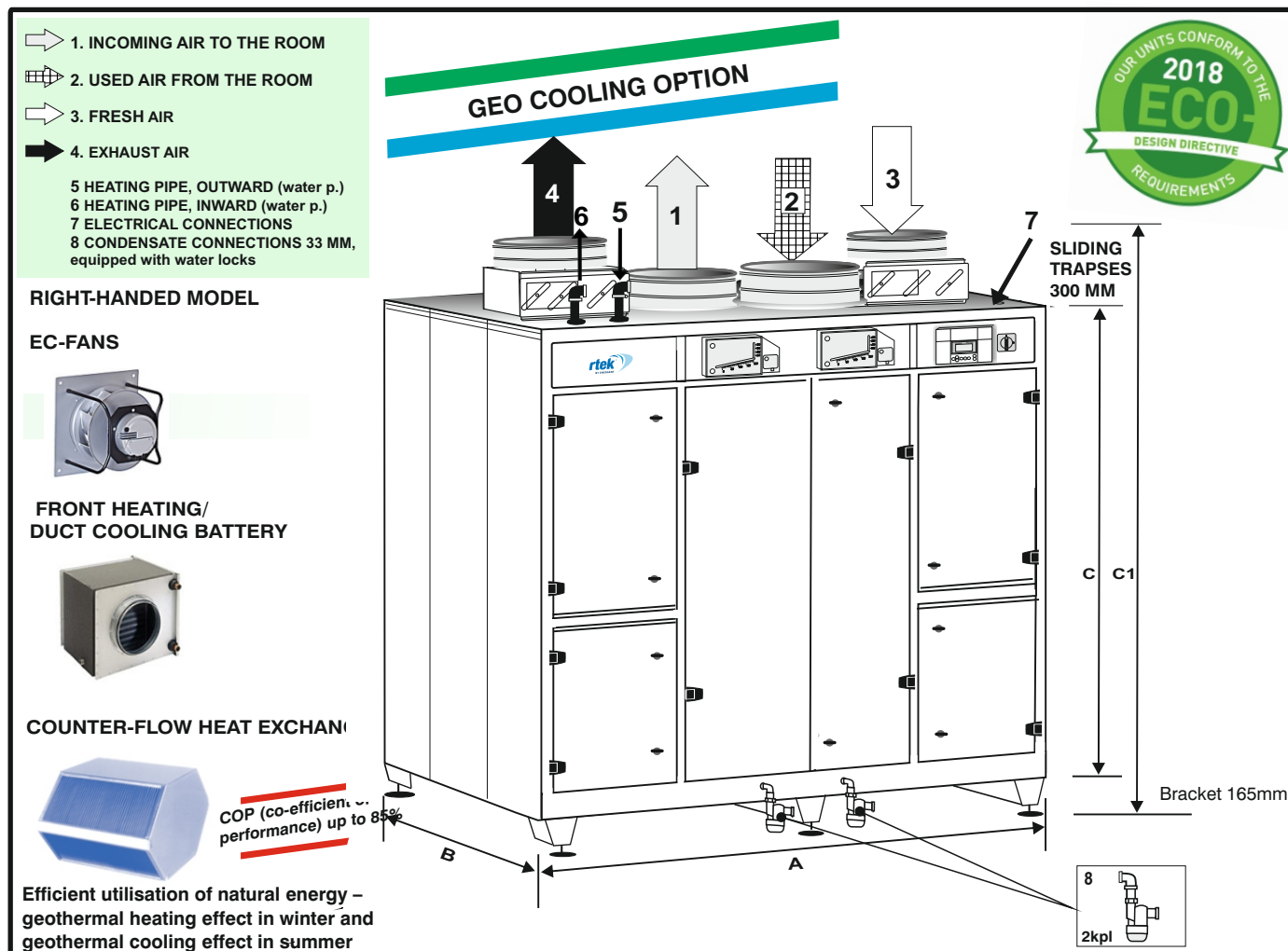
<input type="checkbox"/> -large area filter


<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
<input type="checkbox"/> -filter controller, alarming | <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> open air used air </div> <table border="1" style="margin-bottom: 10px;"> <tr><td>G3/G4</td><td></td><td></td></tr> <tr><td>M5</td><td></td><td></td></tr> <tr><td>M6</td><td></td><td></td></tr> <tr><td>F7</td><td></td><td></td></tr> </table> <input type="checkbox"/> -open air sliding trap
<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
<input type="checkbox"/> *open/off
<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
<input type="checkbox"/> * electric heater (HE)
<input type="checkbox"/> * liquid heater (HG/CG),duct
<input type="checkbox"/> -heater
<input type="checkbox"/> * water heater
<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
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<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's
<input type="checkbox"/> VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
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<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct | G3/G4 | | | M5 | | | M6 | | | F7 | | |
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| M5 | | | | | | | | | | | | | |
| M6 | | | | | | | | | | | | | |
| F7 | | | | | | | | | | | | | |

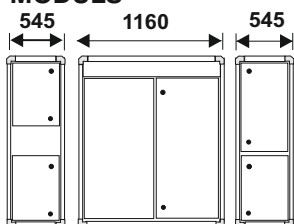
Air Conditioning System Utilising Natural Energy

* Offices * Schools and day care institutions * Industrial and office buildings



 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 1800	2050	1100	1700	2165	400	400	400	400	DN25	DN25

MODULS

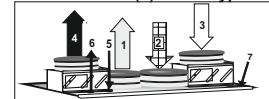


The delivery includes Rtek bracket

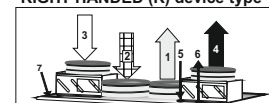
The device is available right handed too in other words, duct outlets are as mirror images


Rtek Modul is made of aluminium frame

LEFT-HANDED (L) device type



RIGHT-HANDED (R) device type



 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 1800 MODUL	2250	1100	1740	2190	400	400	400	400	DN25	DN25

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING		COOLING	
		6,7 kW		7,5 kW	
FRONT HEATING WITH ELECTRICITY (HE)		max.6,8 kW			
POST-HEATING	WATER	6,7 kW water 60°/40°C, air Δt 8°C		12,6 kW water 60°/40°C, air Δt 15°C	
	ELECTRICITY	max. 8,5 kW			
EC-FAN		1,0 kW	1,6 A.max	400V 50/60 Hz	
WEIGHT		700 Kg			

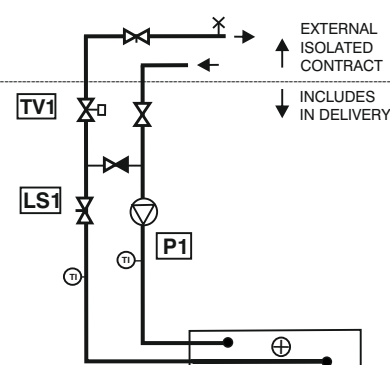
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : +with an electric heater	Max. power 16,7 kW 3 x 32A MMJ 5 x 10S
WATER RADIATOR: +with an electric heater	Max. power 8,4 kW 3 x 25A MMJ 5 x 6S
ELECTRIC RADIATOR : (no preheating)	Max. power 9,9 kW 3 x 25A MMJ 5 x 6S
WATER RADIATOR: (no preheating)	Max. power 1,6 kW 3 x 16A MMJ 5 x 2,5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- ☐ **EC fan** -direct-drive Plenum fan
 - adjustment of fan 's speed of rotation
☐ *2-speed from 0-10 volt control
☐ *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

- ☐ -Counter-flow heat exchanger
☐ -by-pass plate of heat recovery
☐ -sector defrosting system

- ☐ -large area filter

	open air	used air
G3/G4		
M5		
M6		
F7		

- ☐ -spare filters

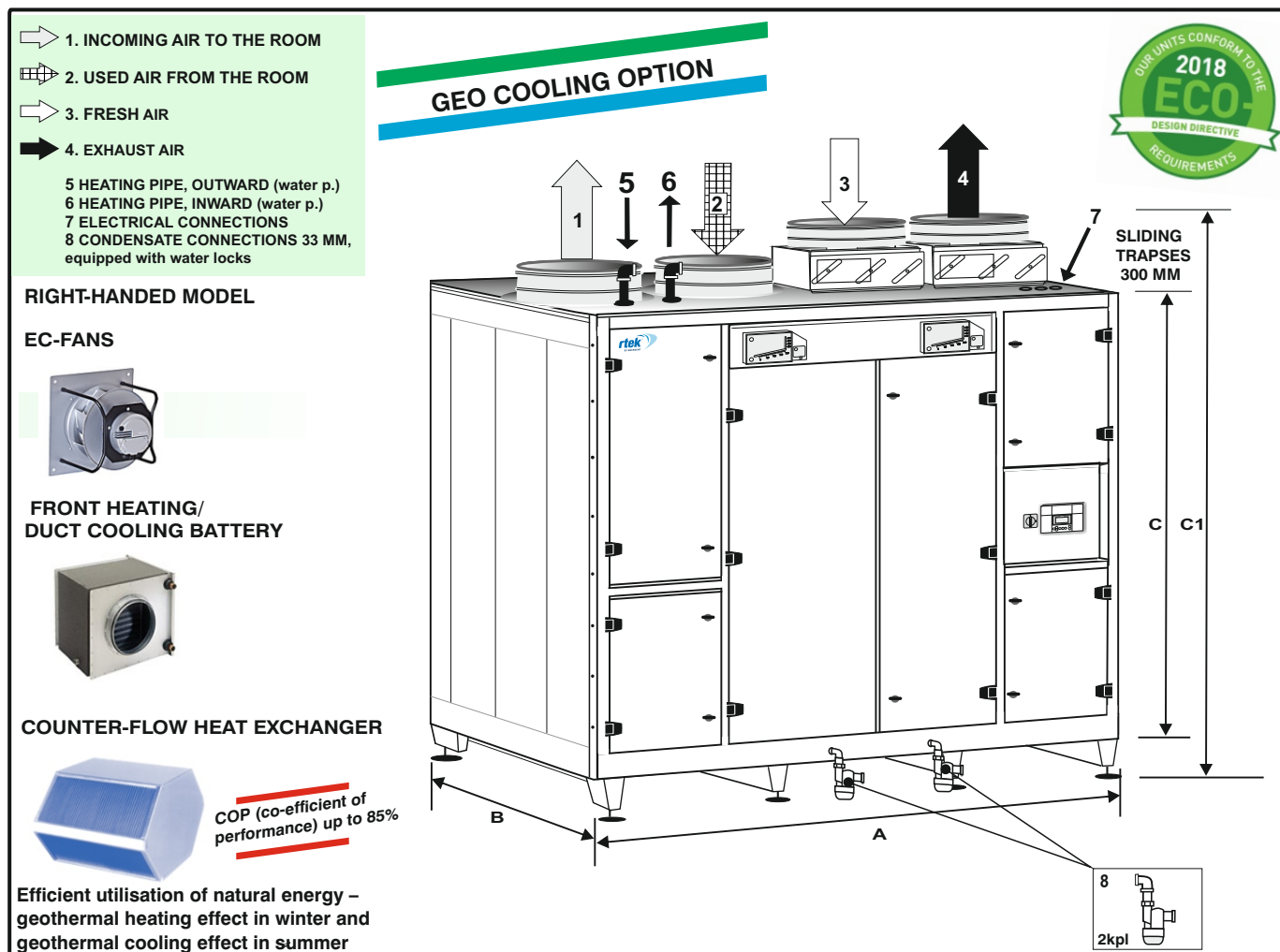
- ☐ -filter controller, indicating
☐ -filter controller, alarming


- ☐ -open air sliding trap
☐ -extract air sliding trap
☐ -platemotors
☐ *open/off
☐ *spring return
☐ -preheating
☐ * electric heater (HE)
☐ * liquid heater (HG/CG),duct
☐ -heater
☐ * water heater
☐ * electric heater
☐ -water heater 's thermostat section
☐ -electrical control station
☐ -adjustment station
☐ * in device are adjusting device example Ouman
☐ -GSM-control
☐ -Modbus
☐ * Interface to the sub-distribution board 's
☐ VAK-regulation units
☐ -moisture detector
☐ -carbon dioxide detectors (Co2)
☐ -pressure transmitter
☐ -duct 's temperature detectors
☐ -emergency button (fire)
☐ -cooling radiator, cold water (CW),duct
☐ -cooling radiator, freon (CF),duct
☐ -cooling radiator, glykol (CG),duct



Air Conditioning System Utilising Natural Energy

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 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 2800	2580	1250	2040	2505	500	500	500	500	DN32	DN32


MODULS

645 1490 645

The delivery includes Rtek bracket

The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame

 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 2800 MODUL	2780	1250	2080	2530	500	500	500	500	DN32	DN32

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING		COOLING	
		10,6 kW		11 kW	
FRONT HEATING WITH ELECTRICITY (HE)		max.10,2 kW			
POST-HEATING	WATER	10,6 kW water 60°/40°C, air Δt 8°C		19,8 kW water 60°/40°C, air Δt 15°C	
	ELECTRICITY	max. 15,3 kW			
EC-FAN		1,7 kW	2,6 A.max	400V 50/60 Hz	
WEIGHT		900 Kg			

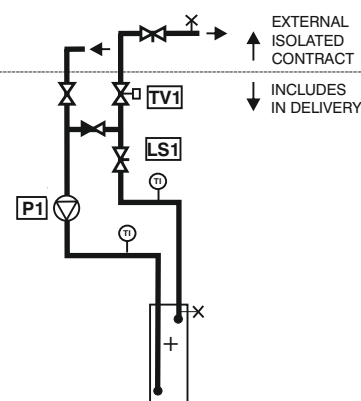
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : + with an electric heater	Max. power 28,9 kW 3 x 50A MMJ 5 x 16S
WATER RADIATOR: + with an electric heater	Max. power 13,8 kW 3 x 25A MMJ 5 x 6S
ELECTRIC RADIATOR : (no preheating)	Max. power 18,7 kW 3 x 32A MMJ 5 x 10S
WATER RADIATOR: (no preheating)	Max. power 3,6 kW 3 x 16A MMJ 5 x 2,5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- | <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
<input type="checkbox"/> *2-speed from 0-10 volt control
<input type="checkbox"/> *stepless adjustment; 0-10 volt control with temperature, pressure, humidity and carbon dioxide concentration according

<input type="checkbox"/> -Counter-flow heat exchanger
<input type="checkbox"/> -by-pass plate of heat recovery
<input type="checkbox"/> -sector defrosting system

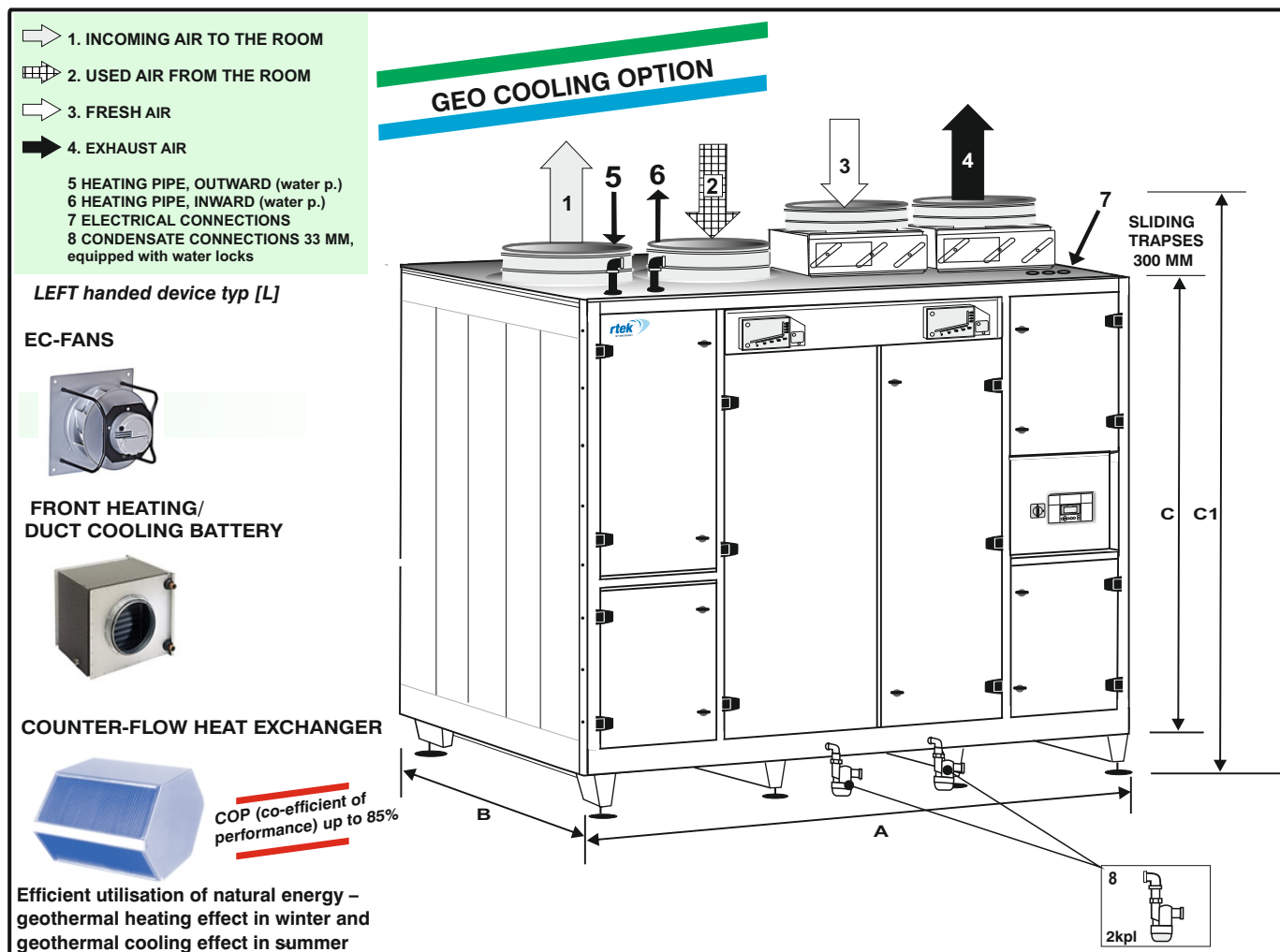
<input type="checkbox"/> -large area filter


<input type="checkbox"/> -spare filters

<input type="checkbox"/> -filter controller, indicating
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<input type="checkbox"/> -extract air sliding trap
<input type="checkbox"/> -platemotors
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<input type="checkbox"/> *spring return
<input type="checkbox"/> -preheating
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<input type="checkbox"/> -heater
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<input type="checkbox"/> * electric heater
<input type="checkbox"/> -water heater 's thermostat section
<input type="checkbox"/> -electrical control station
<input type="checkbox"/> -adjustment station
<input type="checkbox"/> * in device are adjusting device example Ouman
<input type="checkbox"/> -GSM-control
<input type="checkbox"/> -Modbus
<input type="checkbox"/> * Interface to the sub-distribution board 's VAK-regulation units
<input type="checkbox"/> -moisture detector
<input type="checkbox"/> -carbon dioxide detectors (Co2)
<input type="checkbox"/> -pressure transmitter
<input type="checkbox"/> -duct 's temperature detectors
<input type="checkbox"/> -emergency button (fire)
<input type="checkbox"/> -cooling radiator, cold water (CW),duct
<input type="checkbox"/> -cooling radiator, freon (CF),duct
<input type="checkbox"/> -cooling radiator, glykol (CG),duct |
|--|---|----------|----------|----------|-------|--|--|----|--|--|----|--|--|----|--|--|---|
| | open air | used air | | | | | | | | | | | | | | | |
| G3/G4 | | | | | | | | | | | | | | | | | |
| M5 | | | | | | | | | | | | | | | | | |
| M6 | | | | | | | | | | | | | | | | | |
| F7 | | | | | | | | | | | | | | | | | |

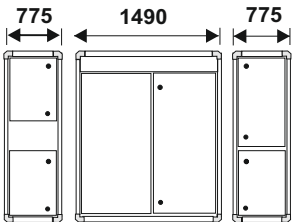
Air Conditioning System Utilising Natural Energy

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 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 3800	2840	1650	2040	2505	630	630	630	630	DN32	DN32

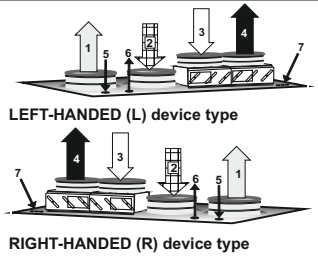
MODULS



The delivery includes Rtek bracket


The device is available right handed too in other words, duct outlets are as mirror images

Rtek Modul is made of aluminium frame



LEFT-HANDED (L) device type

RIGHT-HANDED (R) device type

 BY ENERGENT	THE MAIN MESURES				SIZE OF DUCT OUTLETS				PIPE SIZES	
	A	B	C	C1	1	2	3	4	5	6
VVE 3800 MODUL	3040	1650	2080	2530	630	630	630	630	DN32	DN32

TECHNICAL DATA

FRONT HEATING / COOLING : (HG/CG) with ethylene glycol connected to the geothermal heating circuit		HEATING	COOLING
		13,4 kW	15 kW
FRONT HEATING WITH ELECTRICITY (HE)		max.13,6 kW	
POST-HEATING	WATER	13,4 kW water 60°/40°C, air Δt 8°C	25,2 kW water 60°/40°C, air Δt 15°C
	ELECTRICITY	max. 18,7 kW	
	EC-FAN	3,0 kW	4,6 A.max 400V 50/60 Hz
WEIGHT		1000 Kg	

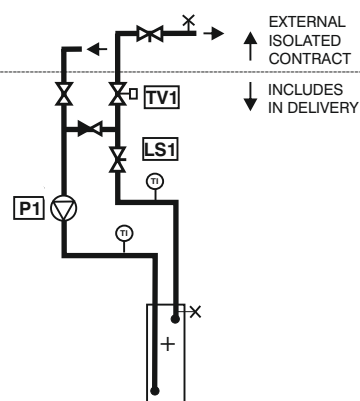
ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS:	
ELECTRIC RADIATOR : +with an electric heater	Max. power 36,2 kW 3 x 63A MMJ 5 x 16S
WATER RADIATOR: +with an electric heater	Max. power 17,7 kW 3 x 32A MMJ 5 x 10S
ELECTRIC RADIATOR : (no preheating)	Max. power 22,4 kW 3 x 40A MMJ 5 x 10S
WATER RADIATOR: (no preheating)	Max. power 3,9 kW 3 x 16A MMJ 5 x 2.5S

HEAT PIPING CONNECTION

IN THE water heater DEVICE

After heat piping installation, check the connections of thermostat section and adjust flowing by line adjust



HEAT RECOVERY:

Counter-flow heat exchanger. Made of aluminium, efficiency ratio 75-85%, depending on the air-flow range.



OUTFIT OF DEVICE IS CHOSEN:

- | | | | | | | | | | | | | | |
|--|--|-------|--|--|----|--|--|----|--|--|----|--|--|
| <input type="checkbox"/> EC fan -direct-drive Plenum fan
- adjustment of fan 's speed of rotation
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<input type="checkbox"/> -Counter-flow heat exchanger
<input type="checkbox"/> -by-pass plate of heat recovery
<input type="checkbox"/> -sector defrosting system

<input type="checkbox"/> -large area filter

<input type="checkbox"/> -spare filters

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