Mech-Elec®

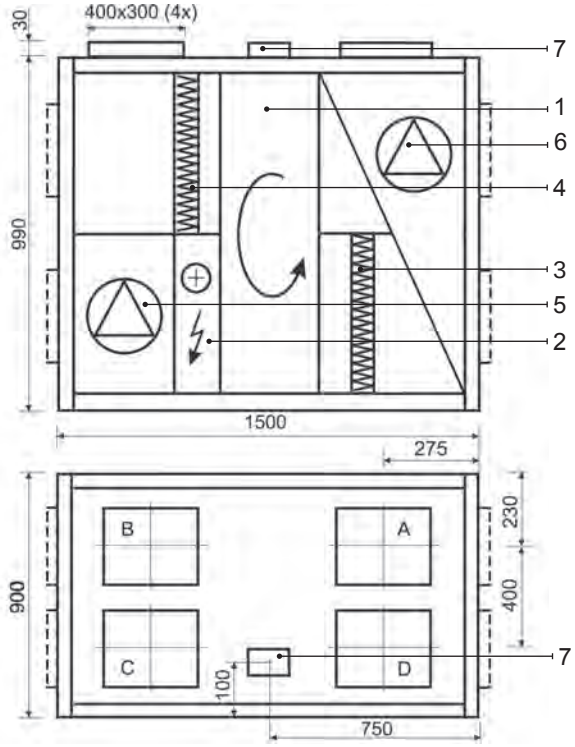
KOMPAKT

Air Handling Units with heat recovery

Content

KOMPAKT REGO 1600

REGO 1600VE-EC (shown as left)



Technical data

REGO 1600VE-EC (vertical)	
Panel thickness	45 mm
Unit weight	270 kg
Nominal air flow	1600 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	11,9 A
Control system	C3

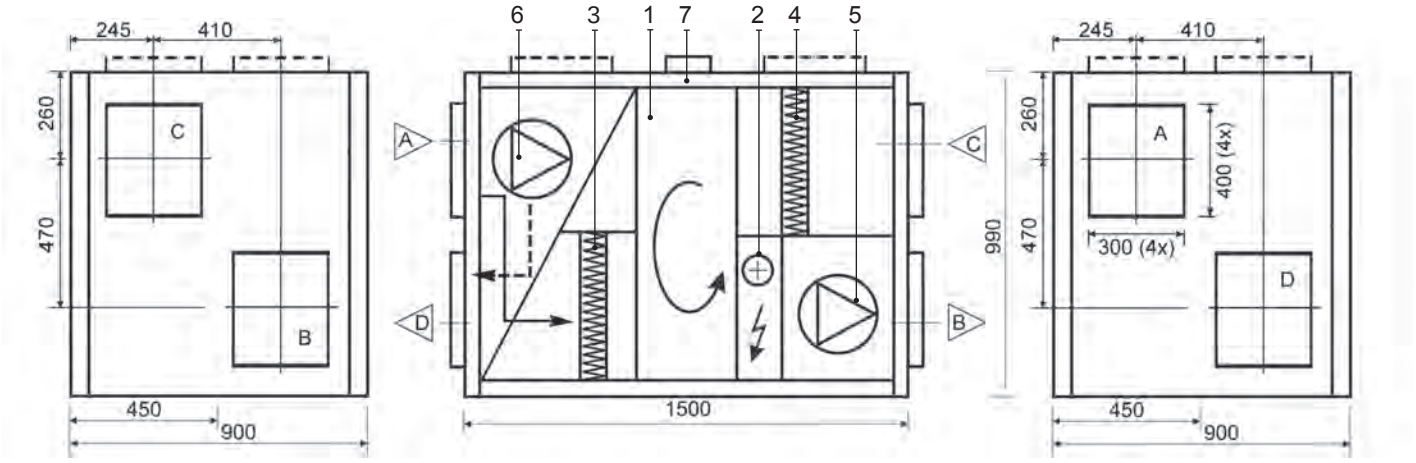
REGO 1600HE-EC (horizontal)	
Panel thickness	45 mm
Unit weight	270 kg
Nominal air flow	1600 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	11,9 A
Control system	C3

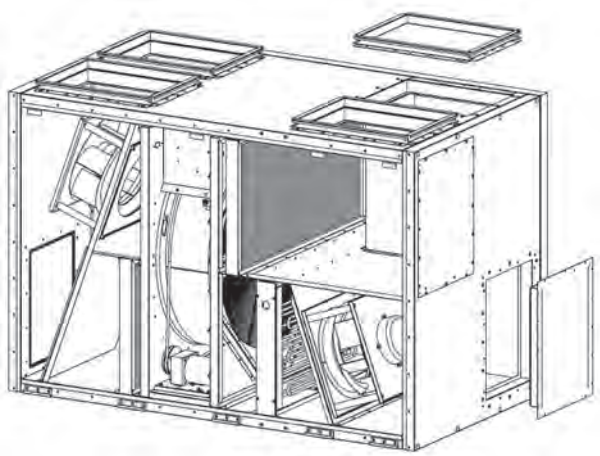
Design:

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch

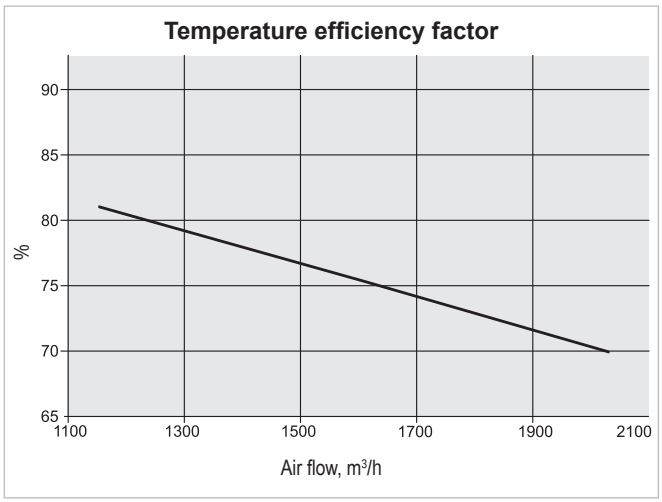
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

REGO 1600HE-EC (shown as right)





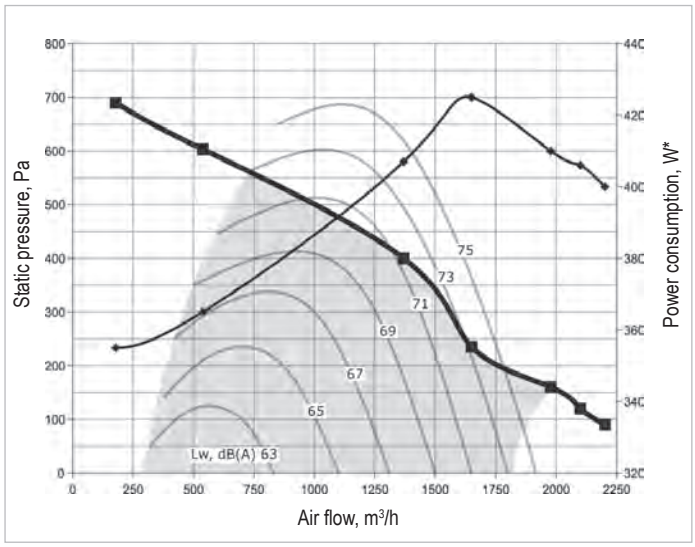
Parameters	Supply	Exhaust	Unit
Nominal air flow	1600	1600	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	455	455	W
Rotation speed	2600	2600	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	75,3		%
Energy recovery	17,4		kW
Air temperature in/out	-23/9,4	20/-12,4	°C
Relative humidity in/out	82/67	40/98	%
Electric Air Heater			
Capacity	4,5		kW
Air temperature in/out	9,4/18		°C



Thermal Efficiency (1600 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	11,4	12,6	13,9	15,1		°C
Relative humidity	63	54	46	41		%

Performance REGO 1600VE-EC / REGO 1600HE-EC



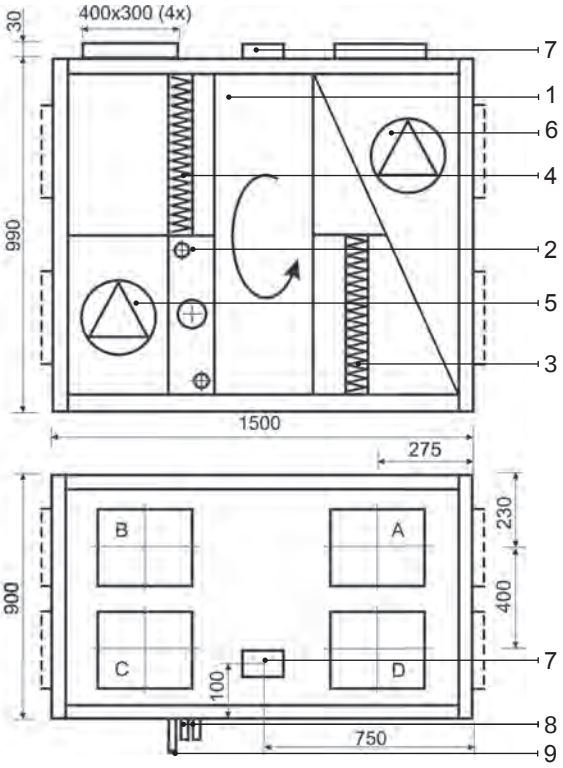
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 1600m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 1600m³/h.

KOMPAKT REGO 1600

REGO 1600VW-EC (shown as left)



Technical data

REGO 1600VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	275 kg
Nominal air flow	1600 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,6 A
Control system	C3

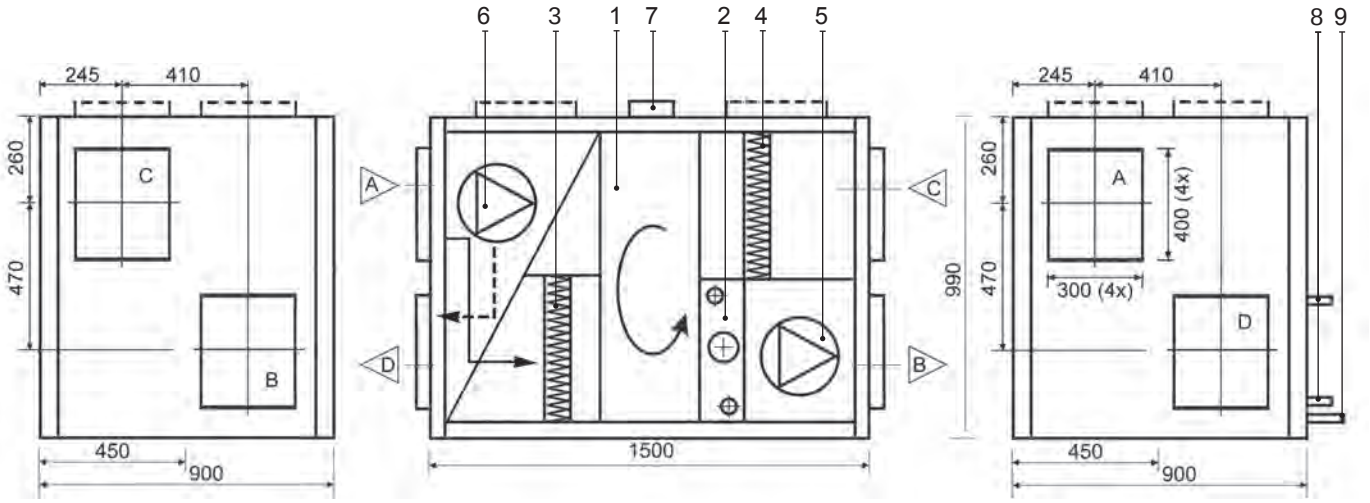
REGO 1600HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	275 kg
Nominal air flow	1600 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,6 A
Control system	C3

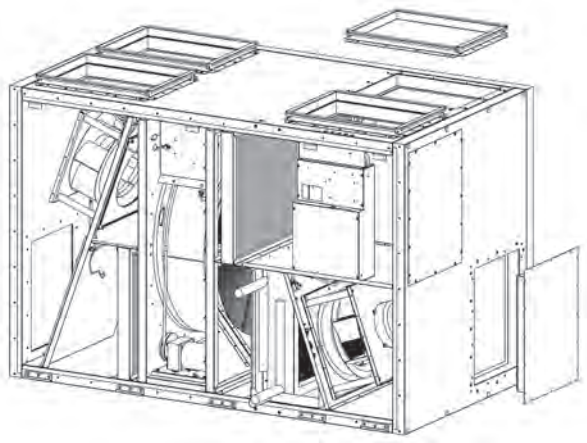
Design:

1. Rotary heat exchanger
2. Water-air heat exchanger
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube
9. Condensate drain (in summertime the water trap must be installed D=28 mm)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

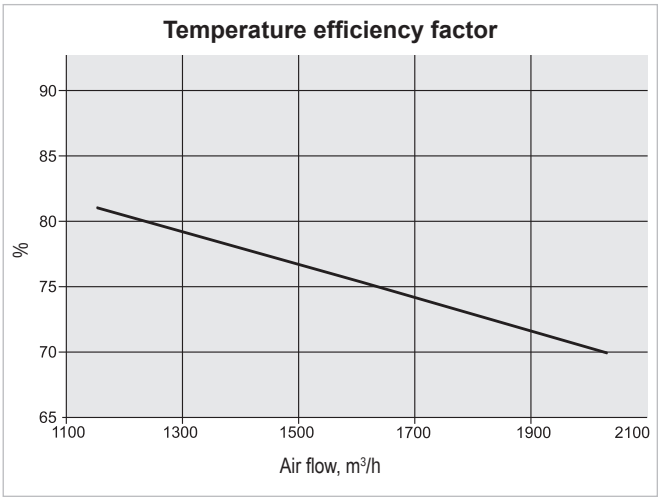
REGO 1600HW-EC (shown as right)





Parameters	Supply	Exhaust	Unit
Nominal air flow	1600	1600	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	455	455	W
Rotation speed	2600	2600	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	75,4		%
Energy recovery	17,4		kW
Air temperature in/out	-23/9,4	20/-12,4	°C
Relative humidity in/out	82/67	40/98	%

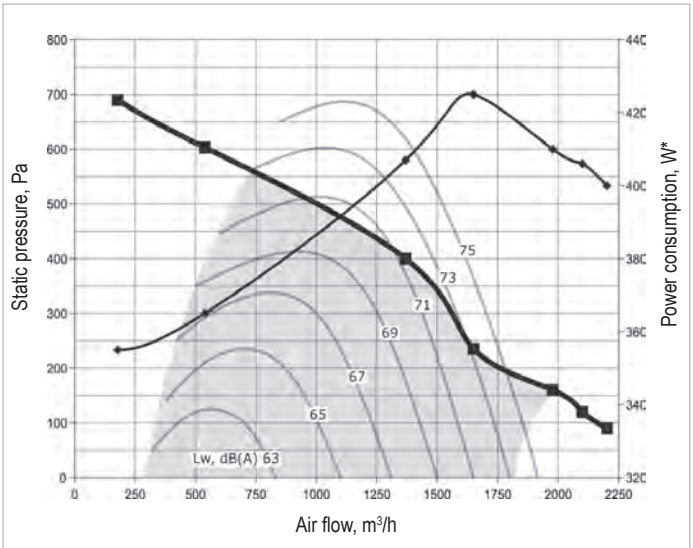
Parameters							Unit
Water-air heat exchanger	Winter				Summer		
Water temperature in/out	90/70	80/60	60/40	45/35	7/12	7/12	°C
Capacity	8,4	8,5	8,5	8,57	10,97	9,56	kW
Flow rate	371	373	370	744	1883	1640	dm³/h
Pressure drop	0,2	0,2	0,3	1	5,6	4,4	kPa
Connection	1						”
Air flow 1600 m³/h temperature in/RH - out/RH	7-22,2	7-22,4	7-22,4	7-22,5	30/50 - 17,7/82	26/70 - 17,6/89	°C/%



Thermal Efficiency (1600 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	11,4	12,6	13,8	15,1		°C
Relative humidity	54	46	39	34		%

Performance REGO 1600VW-EC / REGO 1600HW-EC



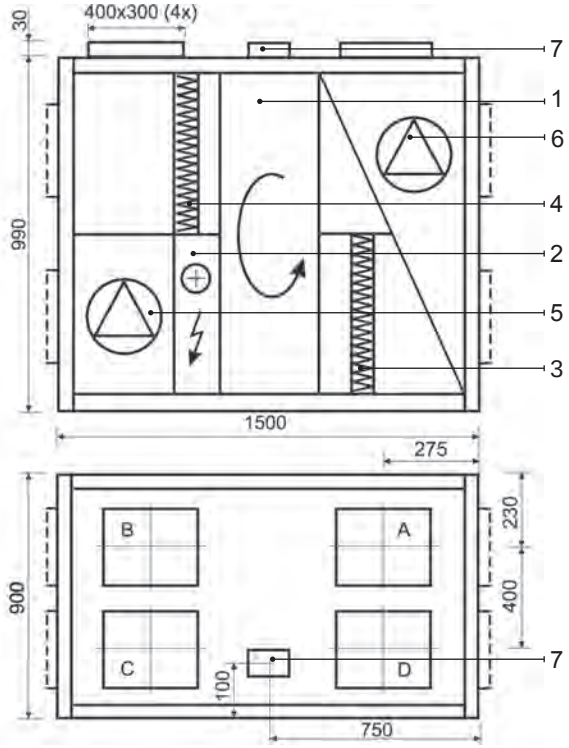
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 1600m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 1600m³/h.

KOMPAKT REGO 2000

REGO 2000VE-EC (shown as left)



Technical data

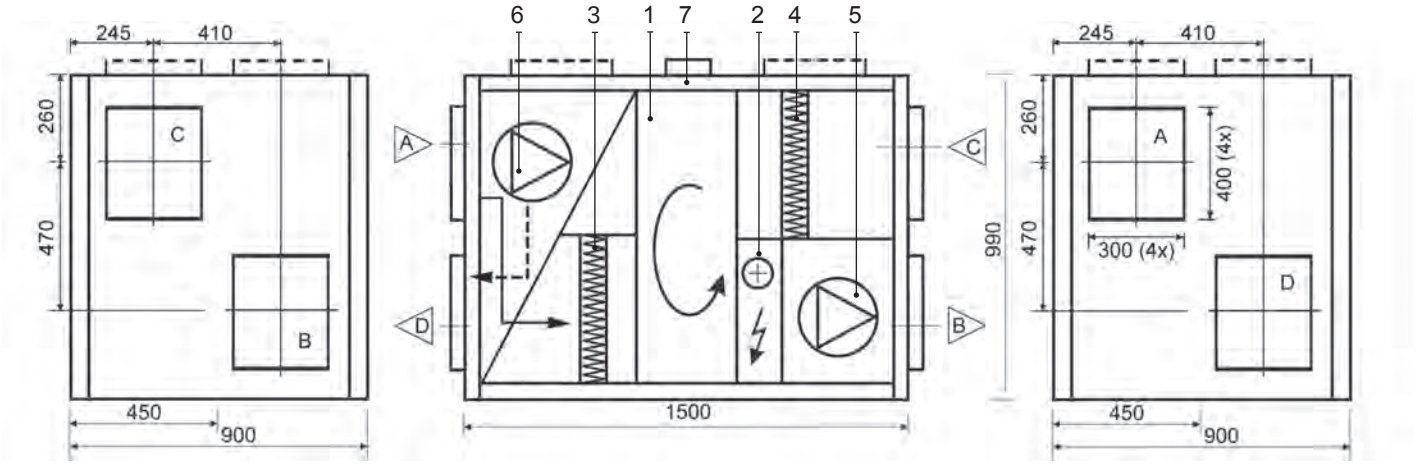
REGO 2000VE-EC (vertical)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17,2 A
Control system	C3
REGO 2000HE-EC (horizontal)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17,2 A
Control system	C3

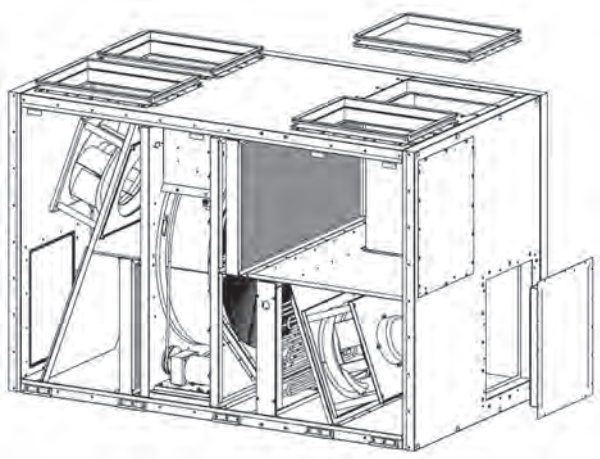
Design:

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch

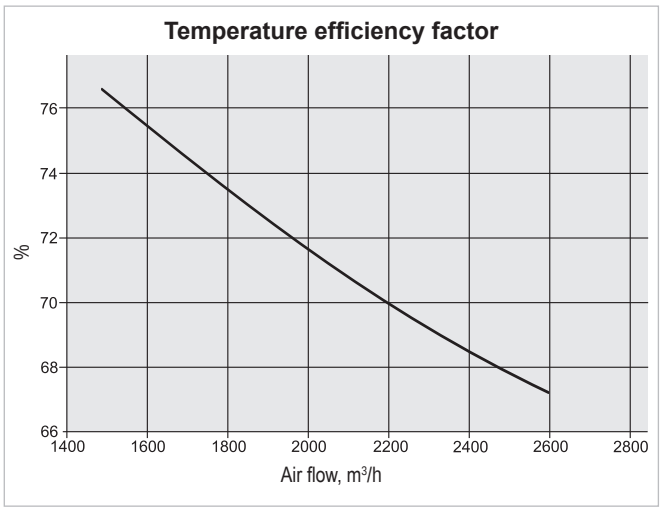
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

REGO 2000HE-EC (shown as right)





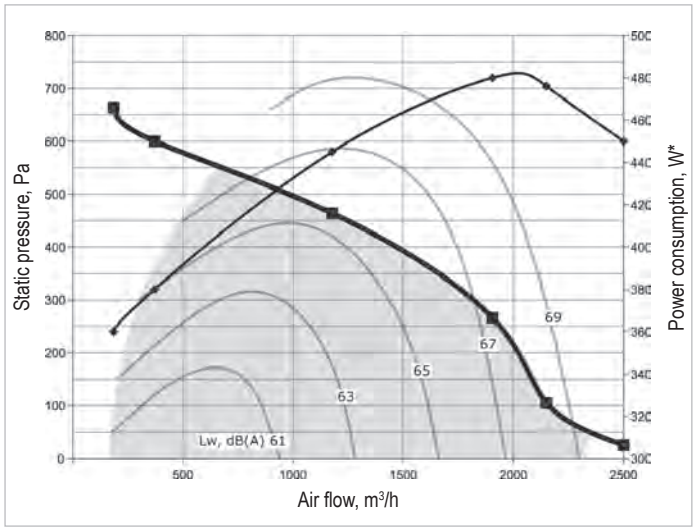
Parameters	Supply	Exhaust	Unit
Nominal air flow	2000	2000	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	480	480	W
Rotation speed	2300	2300	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	72,9		%
Energy recovery	21,1		kW
Air temperature in/out	-23/8,4	20/-11,4	°C
Relative humidity in/out	82/71	40/98	%
Electric Air Heater			
Capacity	7,5		kW
Air temperature in/out	7,8/19,2		°C



Thermal Efficiency (2000 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	10,1	11,9	13,2	14,6		°C
Relative humidity	64	54	46	41		%

Performance REGO 2000VE-EC / REGO 2000HE-EC



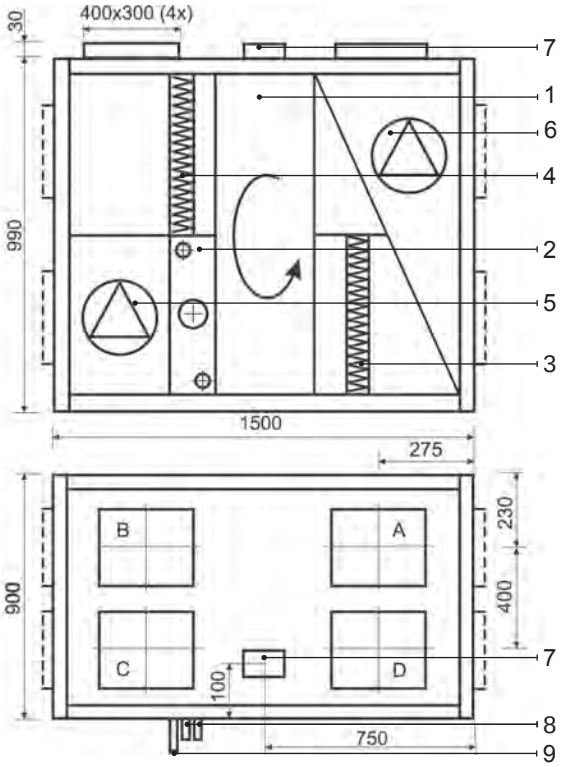
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 2000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 2000m³/h.

KOMPAKT REGO 2000

REGO 2000VW-EC (shown as left)



Technical data

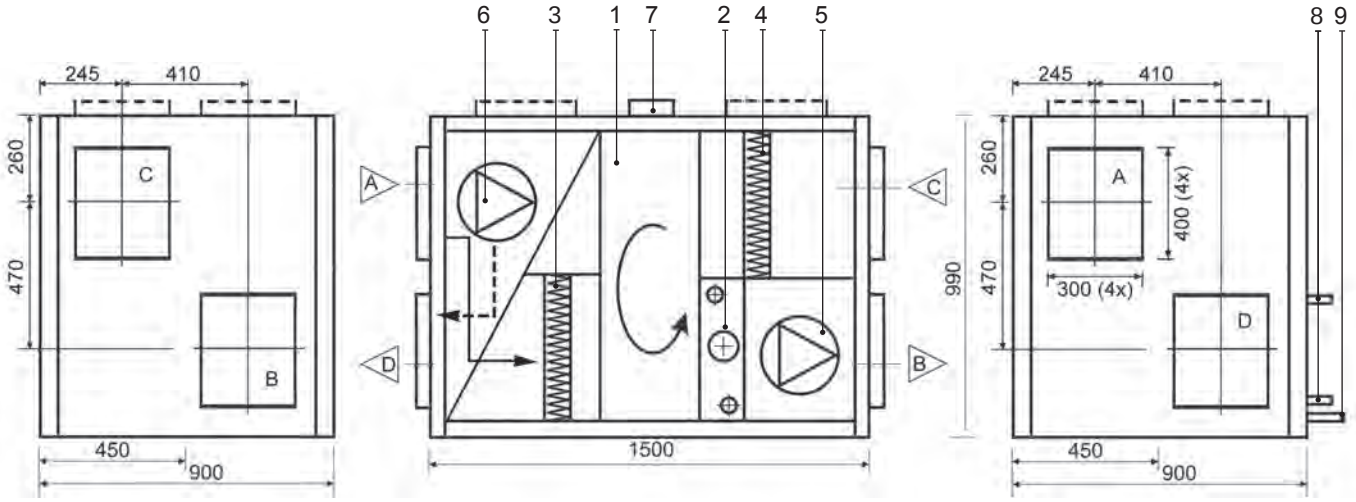
REGO 2000VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,8 A
Control system	C3
REGO 2000HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,8 A
Control system	C3

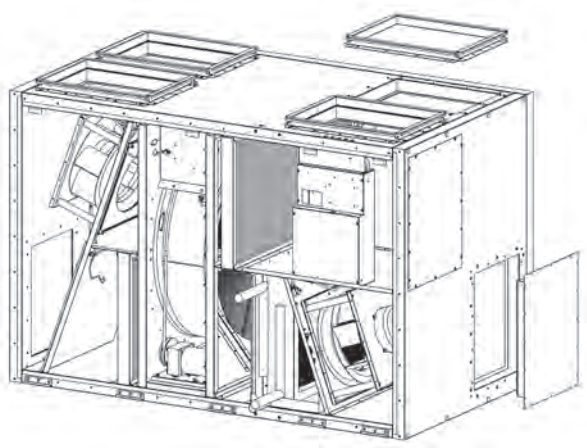
Design:

1. Rotary heat exchanger
2. Water-air heat exchanger
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube
9. Condensate drain (in summertime the water trap must be installed D=28 mm)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

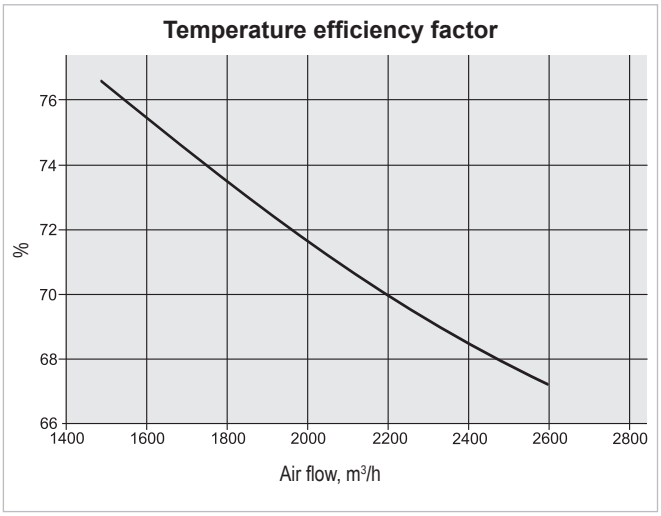
REGO 2000HW-EC (shown as right)





Parameters	Supply	Exhaust	Unit
Nominal air flow	2000	2000	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	480	480	W
Rotation speed	2300	2300	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	72,9		%
Energy recovery	21,1		kW
Air temperature in/out	-23/8,4	20/-11,4	°C
Relative humidity in/out	82/71	40/98	%

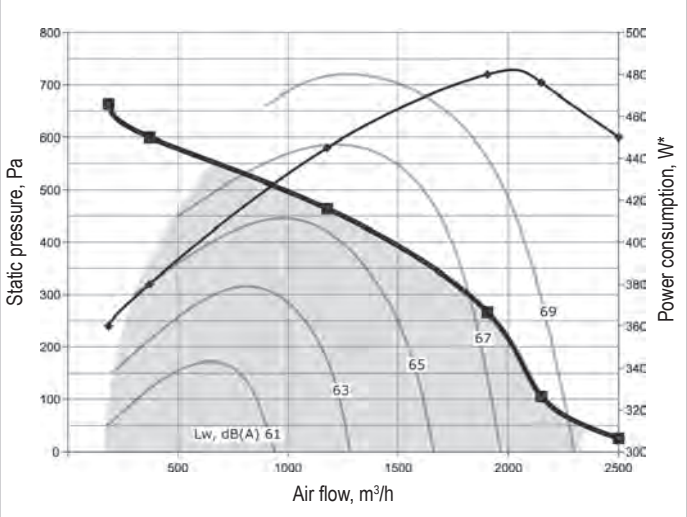
Parameters							Unit
Water-air heat exchanger	Winter				Summer		
Water temperature in/out	90/70	80/60	60/40	45/35	7/12	7/12	°C
Capacity	10,85	10,49	10,61	10,53	12,81	11,12	kW
Flow rate	479	461	463	914	2199	1908	dm³/h
Pressure drop	0,4	0,4	0,4	1,3	7,4	5,7	kPa
Connection	1						”
Air flow 2000 m³/h temperature in/RH - out/RH	7-22,7	7-22,2	7-22,4	7-22,3	30/50 - 18,5/80	26/70 - 18,2/88	°C/%



Thermal Efficiency (2000 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	10,1	11,9	13,2	14,6		°C
Relative humidity	64	54	46	41		%

Performance REGO 2000VW-EC / REGO 2000HW-EC



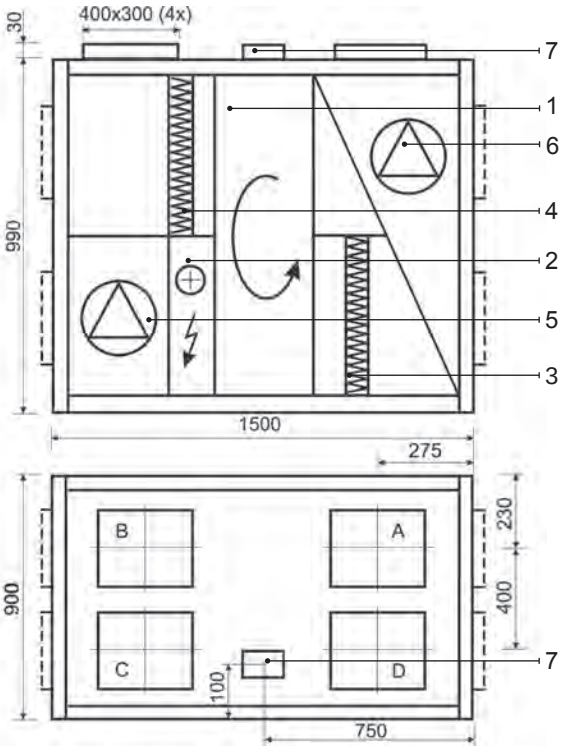
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 2000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 2000m³/h.

KOMPAKT REGO 2500

REGO 2500VE-EC (shown as left)



Technical data

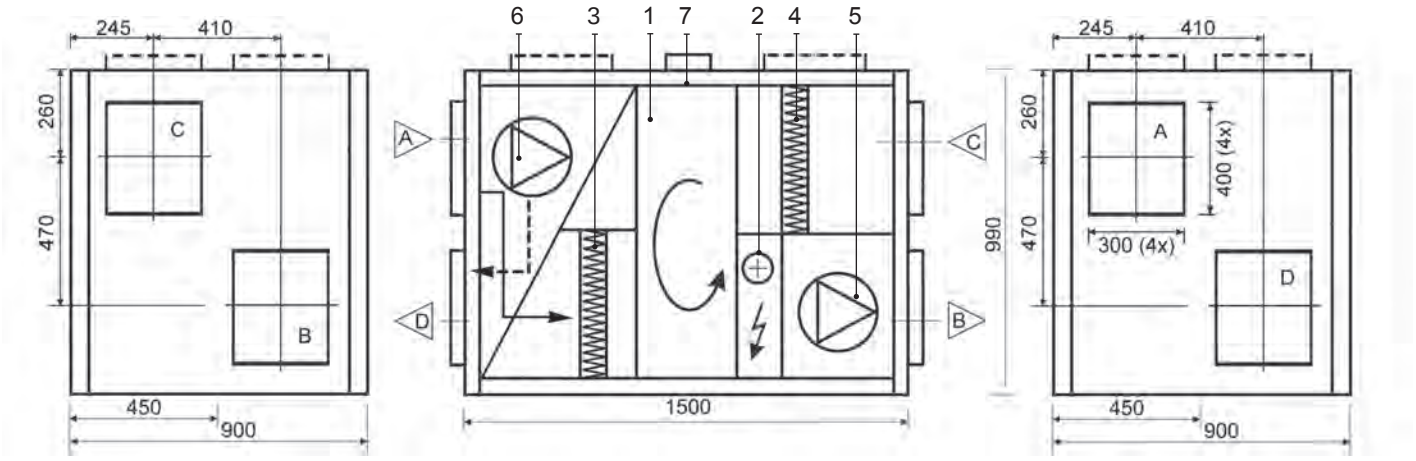
REGO 2500VE-EC (vertical)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17,2 A
Control system	C3
REGO 2500HE-EC (horizontal)	
Panel thickness	45 mm
Unit weight	290 kg
Nominal air flow	2500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17,2 A
Control system	C3

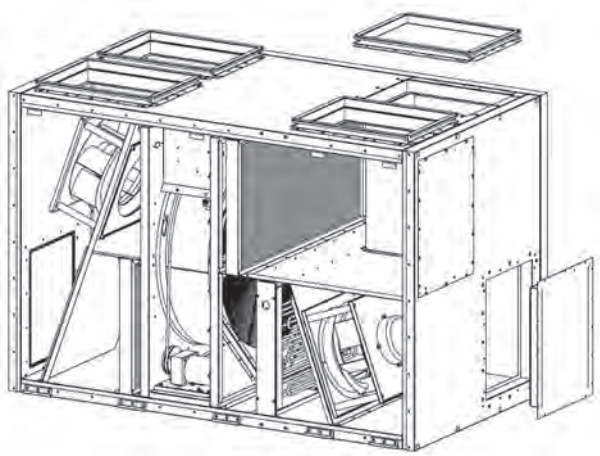
Design:

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch

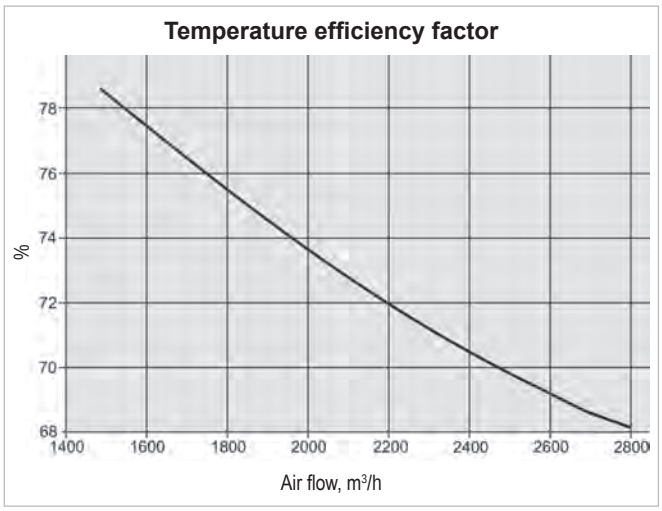
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

REGO 2500HE-EC (shown as right)





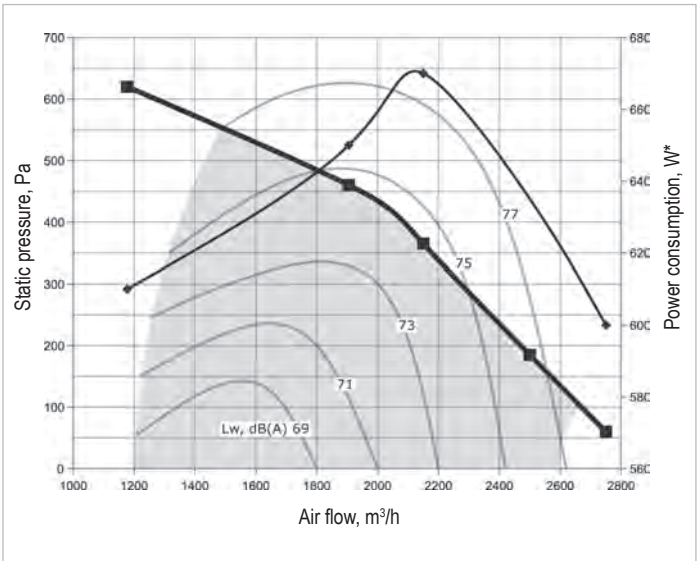
Parameters	Supply	Exhaust	Unit
Nominal air flow	2500	2500	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	670	670	W
Rotation speed	2800	2800	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	69,8		%
Energy recovery	25,2		kW
Air temperature in/out	-23/7	20/-10	°C
Relative humidity in/out	82/75	40/98	%
Electric Air Heater			
Capacity	7,5		kW
Air temperature in/out	7/16,4		°C



Thermal Efficiency (2500 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	9,4	11	12,5	14		°C
Relative humidity	66	55	46	40		%

Performance REGO 2500VE-EC / REGO 2500HE-EC



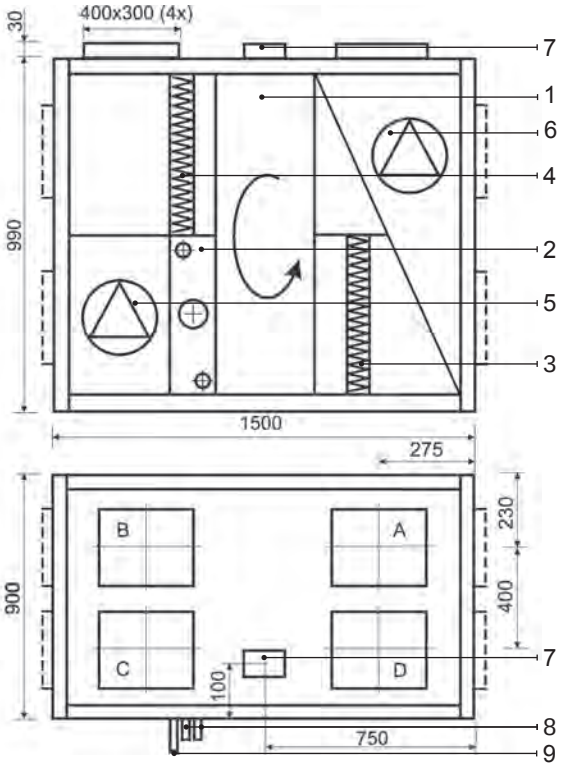
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 2500m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 2500m³/h.

KOMPAKT REGO 2500

REGO 2500VW-EC (shown as left)



Technical data

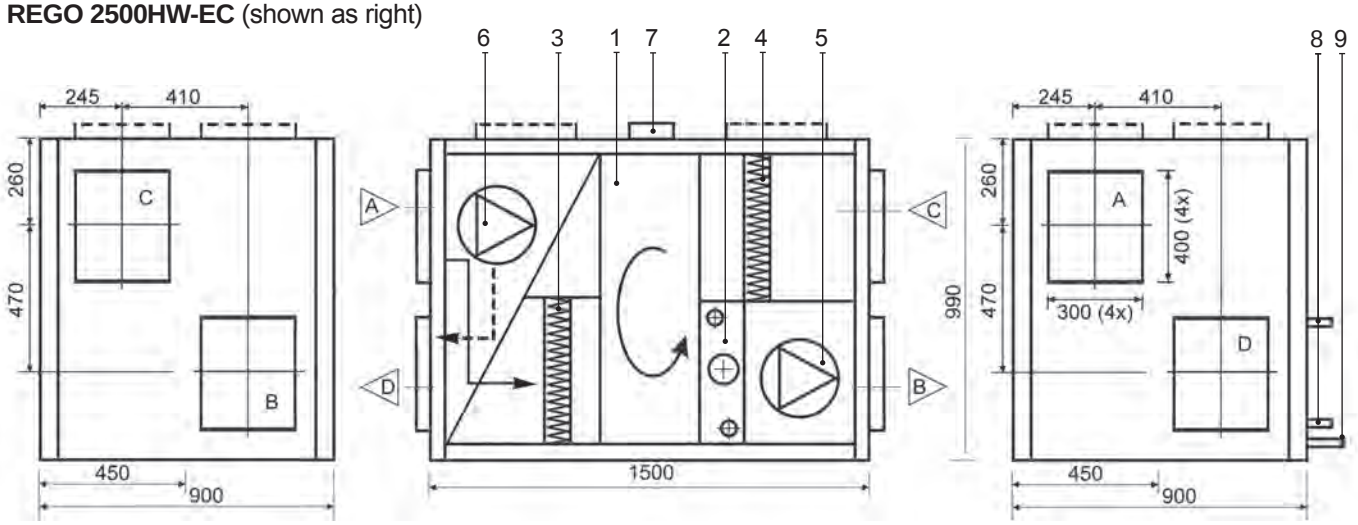
REGO 2500VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2500 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,5 A
Control system	C3
REGO 2500HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	290 kg
Nominal air flow	2500 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,5 A
Control system	C3

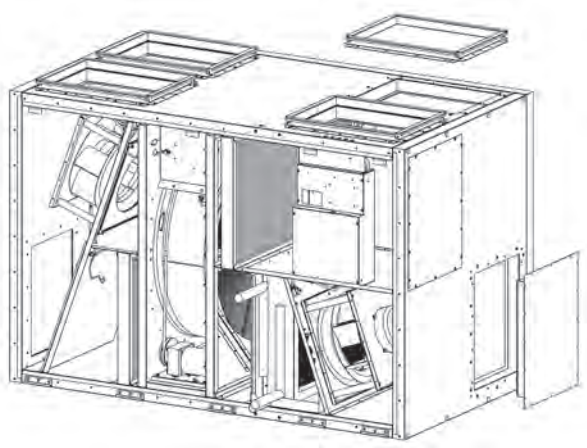
Design:

1. Rotary heat exchanger
2. Water-air heat exchanger
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube
9. Condensate drain (in summertime the water trap must be installed D=28 mm)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

REGO 2500HW-EC (shown as right)

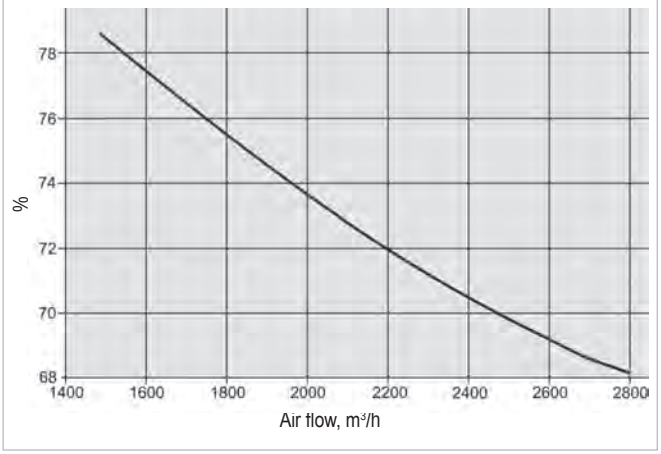




Parameters	Supply	Exhaust	Unit
Nominal air flow	2500	2500	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	800x450x46	800x450x46	mm
Fans Motors			
Type	EC	EC	
Input power	670	670	W
Rotation speed	2800	2800	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	69,8		%
Energy recovery	25,2		kW
Air temperature in/out	-23/7	20/-10	°C
Relative humidity in/out	82/75	40/98	%

Parameters							Unit
Water-air heat exchanger	Winter				Summer		
Water temperature in/out	90/70	80/60	60/40	45/35	7/12	7/12	°C
Capacity	12,96	13	12,9	12,99	14,86	12,84	kW
Flow rate	572	571	562	1128	2551	2204	dm³/h
Pressure drop	0,5	0,5	0,5	1,9	9,6	7,4	kPa
Connection	1						”
Air flow 2500 m³/h temperature in/RH - out/RH	7-22	7-22,1	7-22	7-22,1	30/50 - 19,3/77	26/70 - 18,8/87	°C/%

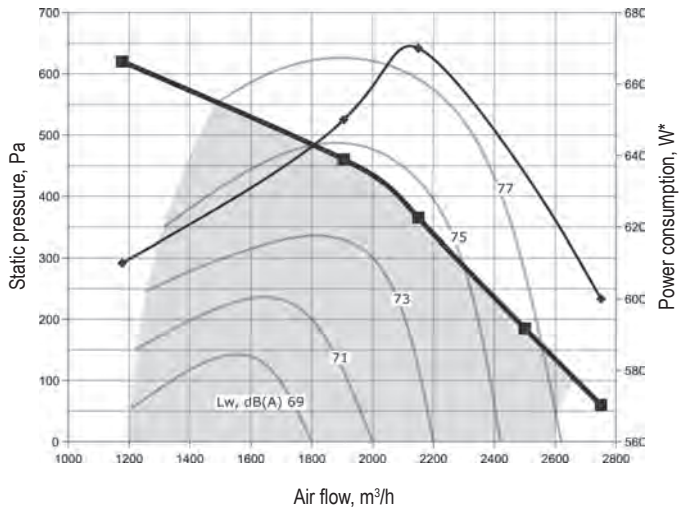
Temperature efficiency factor



Thermal Efficiency (2500 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	9,4	11	12,5	14		°C
Relative humidity	66	55	46	40		%

Performance REGO 2500VW-EC / REGO 2500HW-EC



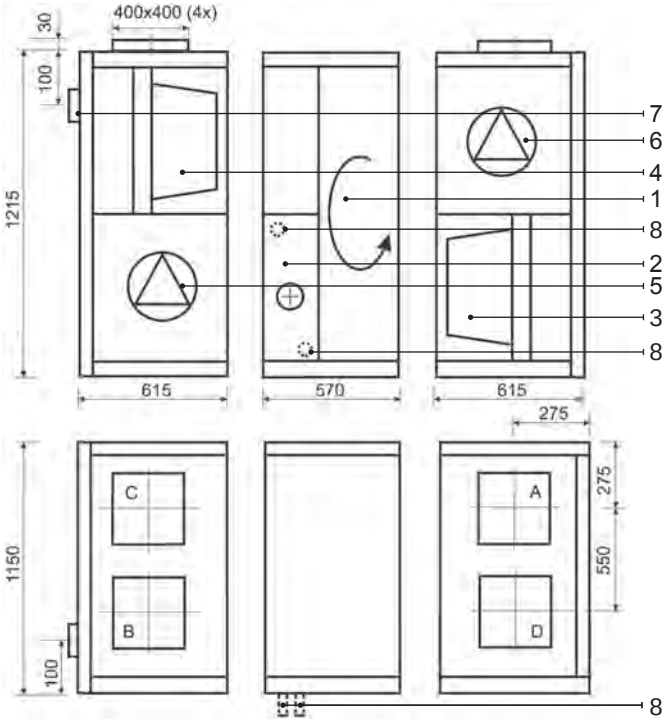
- air handling unit working zone.

* - fans' one motor.

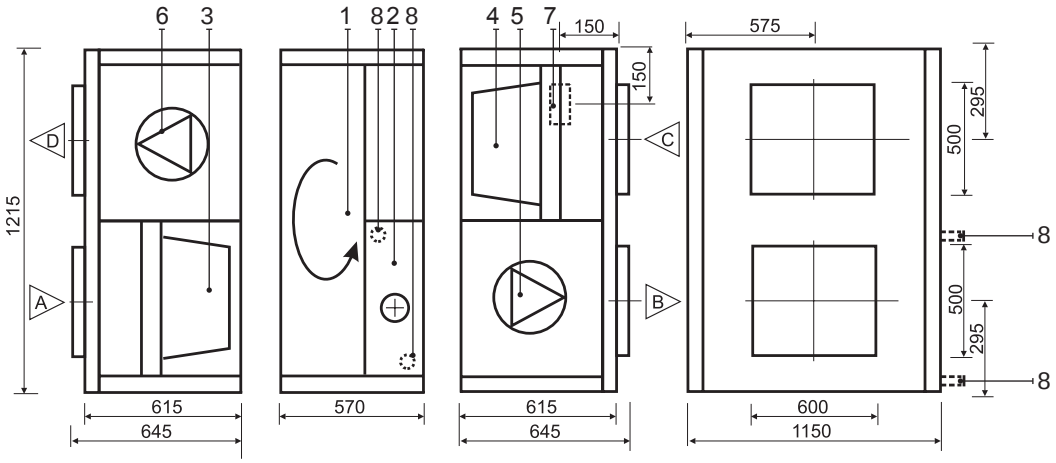
Correction factor for HW/VW approximately – 30 Pa at 2500m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 2500m³/h.

KOMPAKT REGO 3000

REGO 3000VE-EC / REGO 3000VW-EC (shown as left)



REGO 3000HE-EC / REGO 3000HW-EC (shown as right)



Technical data

REGO 3000VE-EC/VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	440 kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17/4 A
Control system	C3
REGO 3000HE-EC/HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	440 kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	17/4 A
Control system	C3

Design:

1. Rotary heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube

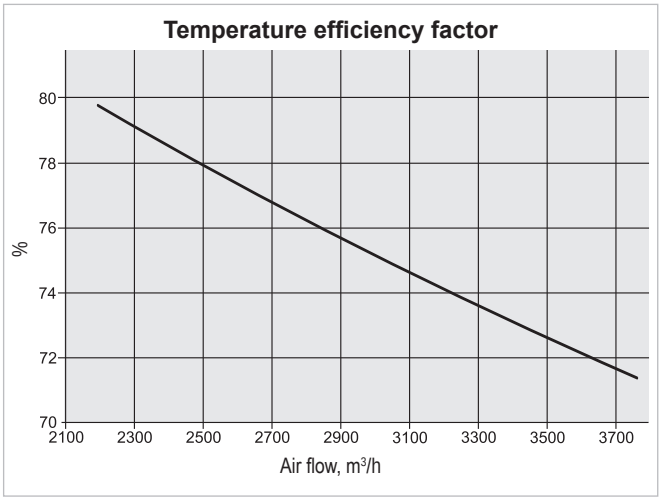
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Parameters	Supply	Exhaust	Unit
Nominal air flow	3000	3000	m³/h
Air Filters			
Filter class	F5	F5	
Type	Bag filter	Bag filter	
Dimensions bxhxl	892x490x300	892x490x300	mm
Fans Motors			
Type	EC	EC	
Input power	990	990	W
Rotation speed	2640	2640	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	75,1		%
Energy recovery	32,6		kW
Air temperature in/out	-23/9,3	20/-12,3	°C
Relative humidity in/out	82/68	40/98	%
Electric Air Heater			
Capacity	9		kW
Air temperature in/out	9,3/18,5		°C

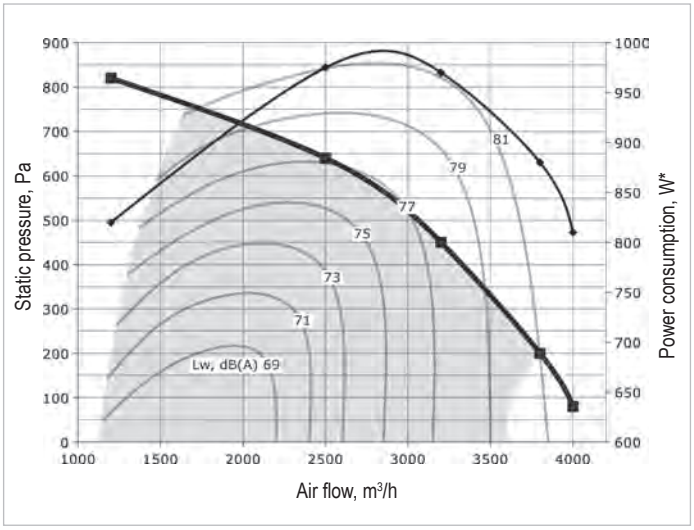
Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	15,3	12,9	10,5	kW
Flow rate	673	565	458	dm³/h
Pressure drop	8	6	4	kPa
Connection		1/2		"
Air flow 3000 m³/h temperature in/out	9/24,1	9/21,8	9/20	°C

Thermal Efficiency (3000 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	11,3	12,5	13,8	15		°C
Relative humidity	54	46	39	34		%



Performance REGO 3000VE-EC / REGO 3000HE-EC



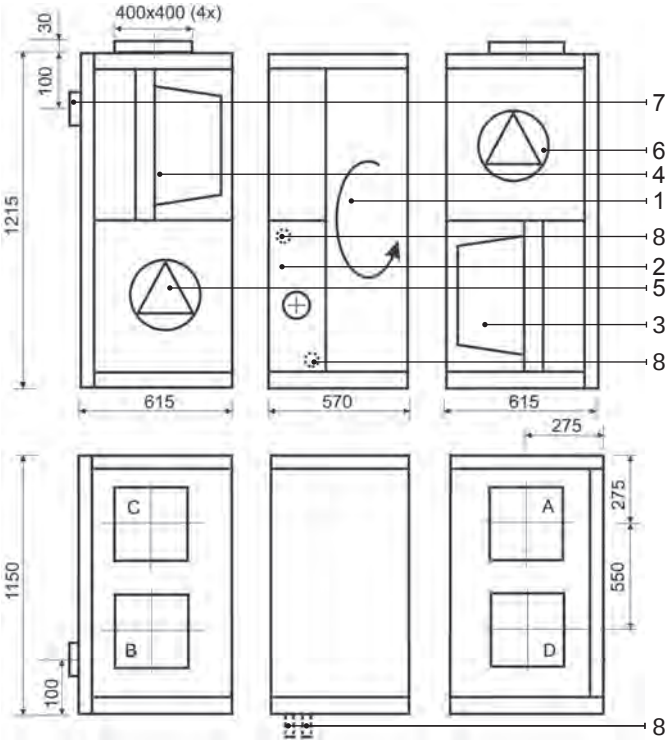
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 3000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 3000m³/h.

KOMPAKT REGO 4000

REGO 4000VE-EC / REGO 4000VW-EC (shown as left)



Technical data

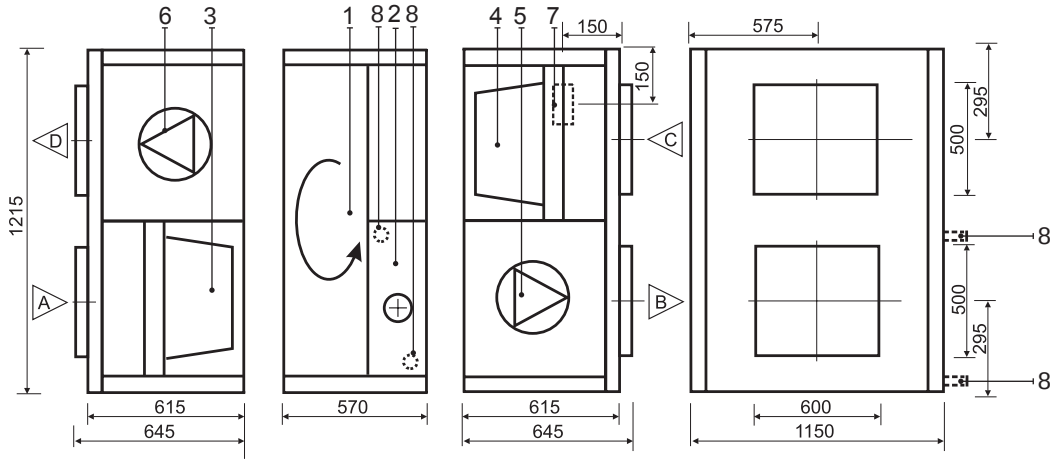
REGO 4000VE-EC/VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	450 kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	26/4,2 A
Control system	C3
REGO 4000HE-EC/HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	450 kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	26/4,2 A
Control system	C3

Design:

1. Rotary heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

REGO 4000HE-EC / REGO 4000HW-EC (shown as right)

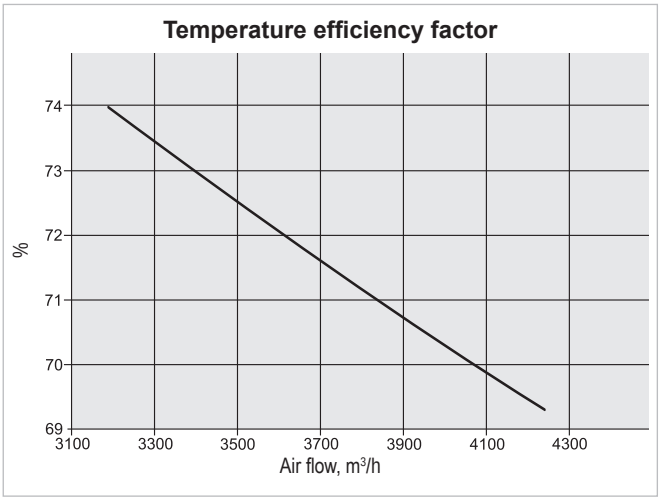


Parameters	Supply	Exhaust	Unit
Nominal air flow	4000	4000	m³/h
Air Filters			
Filter class	F5	F5	
Type	Bag filter	Bag filter	
Dimensions bxhxl	892x490x300	892x490x300	mm
Fans Motors			
Type	EC	EC	
Input power	1000	1000	W
Rotation speed	2140	2140	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	70,3		%
Energy recovery	40,7		kW
Air temperature in/out	-23/7,2	20/-10,2	°C
Relative humidity in/out	82/74	40/98	%
Electric Air Heater			
Capacity	15		kW
Air temperature in/out	7,2/18,6		°C

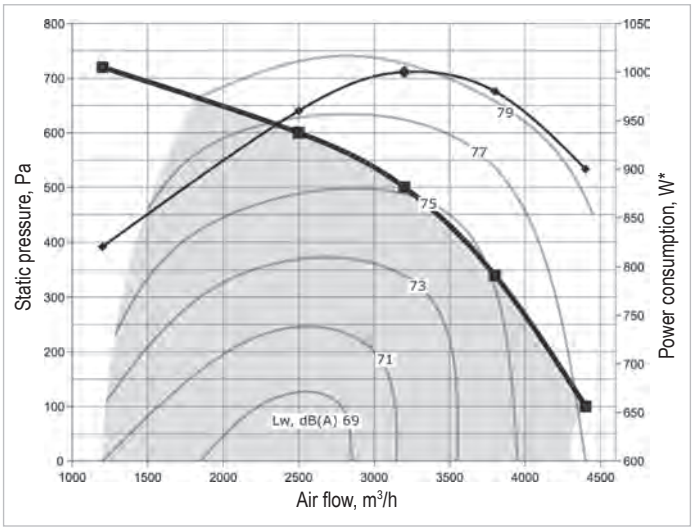
Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	31,1	26,3	21,6	kW
Flow rate	1370	1156	944	dm³/h
Pressure drop	7,5	5,7	4	kPa
Connection		1		"
Air flow 4000 m³/h temperature in/out	7,2/30	7,2/26,6	7,2/23,1	°C

Thermal Efficiency (4000 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	9,6	11,1	12,6	14,1		°C
Relative humidity	56	46	38	33		%



Performance REGO 4000VE-EC / REGO 4000HE-EC



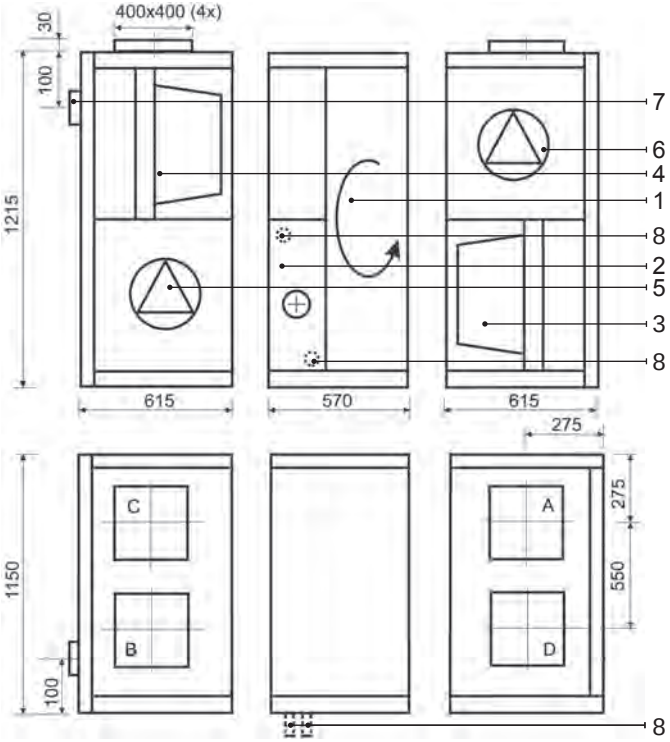
- air handling unit working zone.

* - fans' one motor.

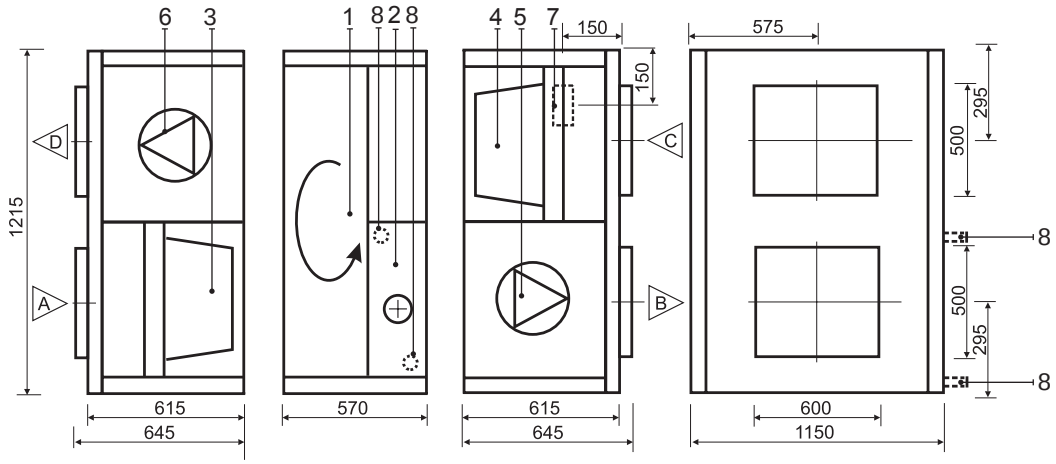
Correction factor for HW/VW approximately – 30 Pa at 4000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 4000m³/h.

KOMPAKT REGO 4500

REGO 4500VE-EC / REGO 4500VW-EC (shown as left)



REGO 4500HE-EC / REGO 4500HW-EC (shown as right)



Technical data

REGO 4500VE-EC/VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	450 kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	27,5/5,5 A
Control system	C3

REGO 4500HE-EC/HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	450 kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	27,5/5,5 A
Control system	C3

Design:

1. Rotary heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main switch
8. Fluid connection tube

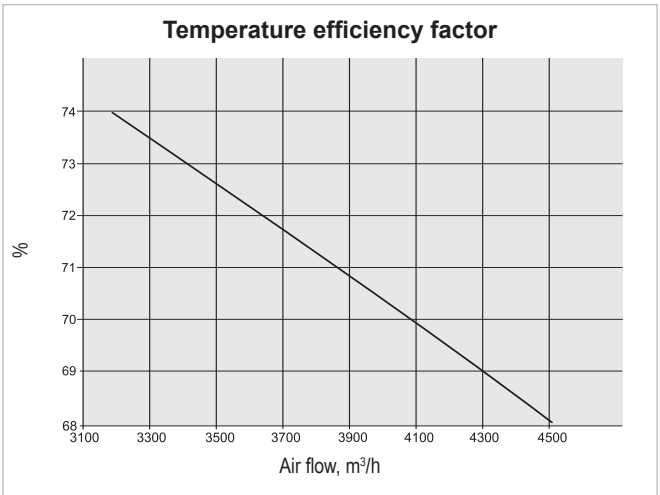
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Parameters	Supply	Exhaust	Unit
Nominal air flow	4500	4500	m³/h
Air Filters			
Filter class	F5	F5	
Type	Bag filter	Bag filter	
Dimensions bxhxl	892x490x300	892x490x300	mm
Fans Motors			
Type	EC	EC	
Input power	1700	1700	W
Rotation speed	2000	2000	rpm
Protection level	IP 54	IP 54	IEC 34-5
Rotary Heat Exchanger			
Thermal efficiency	68,2		%
Energy recovery	45,21		kW
Air temperature in/out	-23/6,3	20/-9,9	°C
Relative humidity in/out	82/75	40/98	%
Electric Air Heater			
Capacity	15		kW
Air temperature in/out	6,3/16,7		°C

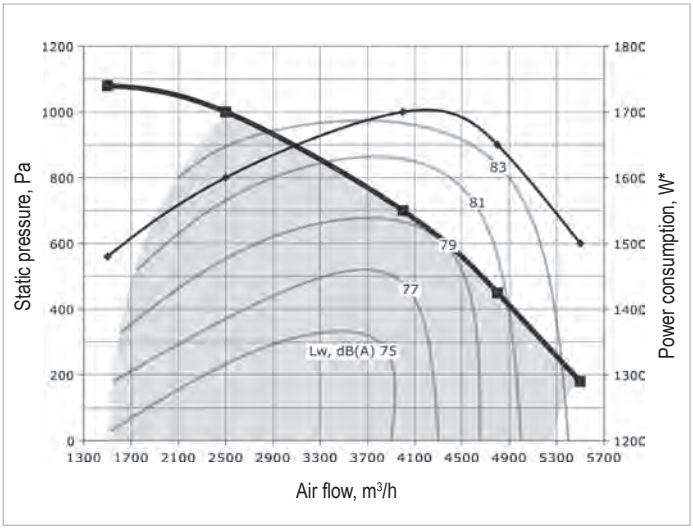
Parameters					Unit
Hot Water Air Heater					
Water temperature in/out	90/70	80/60	70/50	60/40	°C
Capacity	37,1	31,5	25,9	20,3	kW
Flow rate	1648	1391	1136	884	dm³/h
Pressure drop	12,5	9,5	7,5	5,8	kPa
Connection	1				”
Air flow 4500 m³/h temperature in/out	6,3/31	6,3/27	6,3/24	6,3/20	°C

Thermal Efficiency (4500 m³/h)

Parameters	Supply				Exhaust	Unit
Intake						
Temperature	-15	-10	-5	0	20	°C
Relative humidity	82	82	82	82	45	%
Supply						
Temperature	8,9	10,5	12	13,6		°C
Relative humidity	58	48	40	35		%



Performance
REGO 4500VE-EC/HE-EC / REGO 4500VW-EC/HW-EC



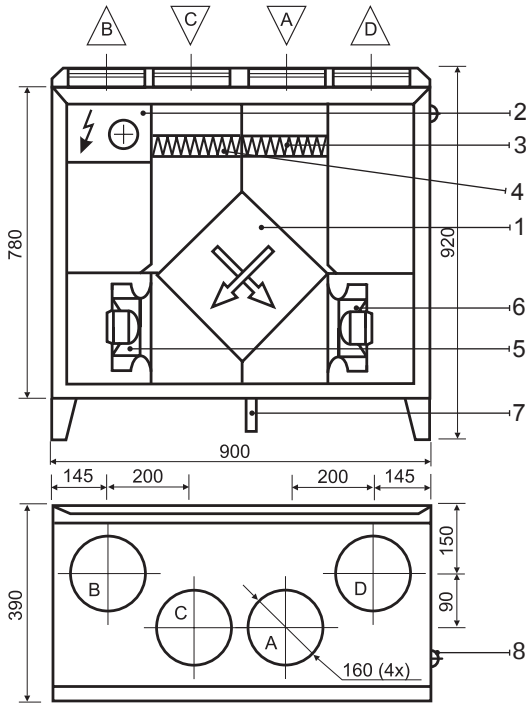
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW approximately – 30 Pa at 4500m^3/h.
Correction factor for F7 class filter approximately – 70 Pa at 4500m^3/h.

KOMPAKT RECU 400

RECU 400VE-AC/EC (shown as left)



Technical data

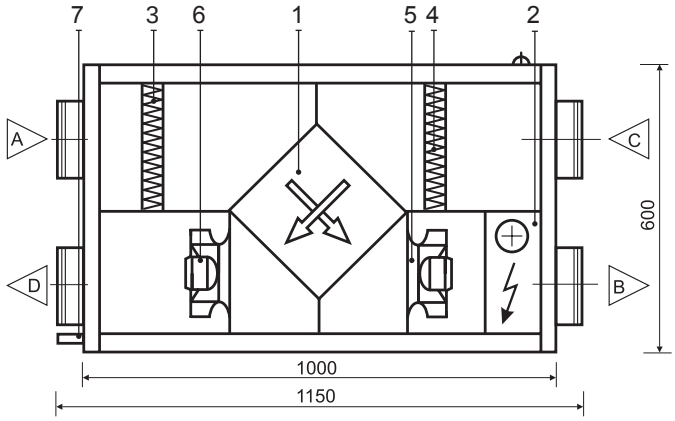
RECU 400VE-AC/EC (vertical)	
Panel thickness	45 mm
Unit weight	62 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	12,1/11,8 A
Control system	C3
RECU 400HE-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	55 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	12,1/11,8 A
Control system	C3

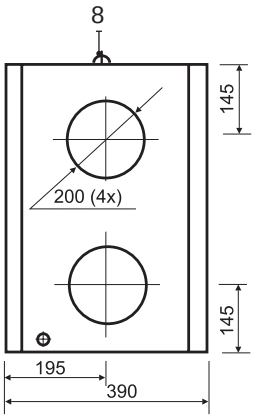
Design:

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Main cable (L = 1,5 m)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

RECU 400HE-AC/EC (shown as right)

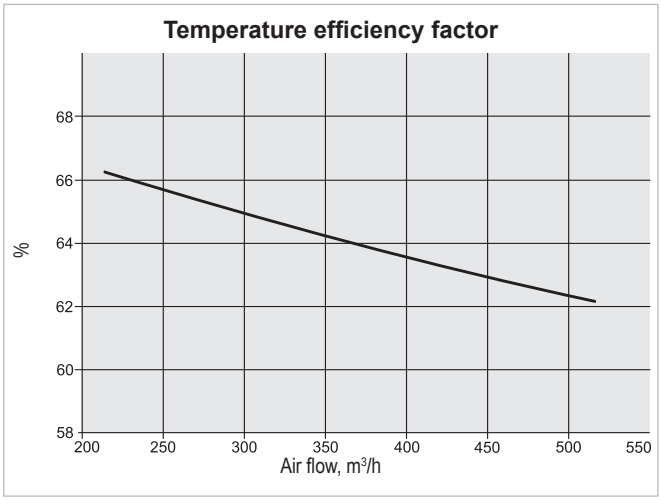




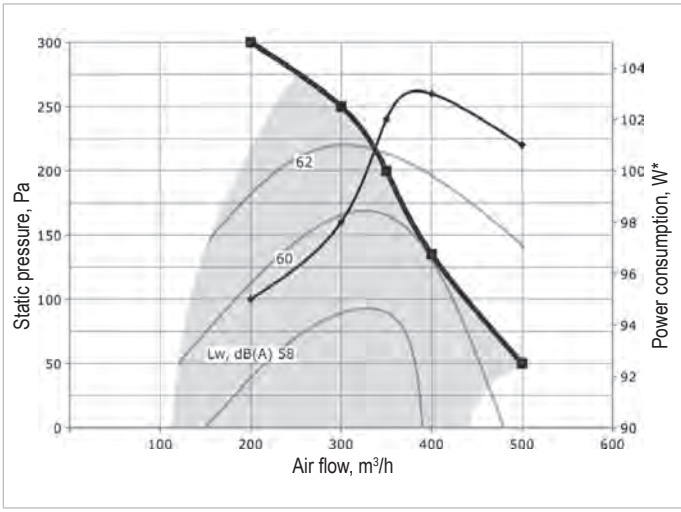
Parameters	Supply	Exhaust	Unit
Nominal air flow	400	400	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	290x195x46	290x195x46	mm
Fans Motors			
Type	AC/EC	AC/EC	
Input power	139/105	139/105	W
Rotation speed	2650/3500	2650/3500	rpm
Protection level	IP 44	IP 44	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	63,8		%
Energy recovery	2,6		kW
Air temperature in/out	-10/9,1	20/4,5	°C
Relative humidity in/out	82/18	45/97	%
Electric Air Heater			
Capacity	2		kW
Air temperature in/out	7,2/22		°C

Thermal Efficiency (400 m³/h)

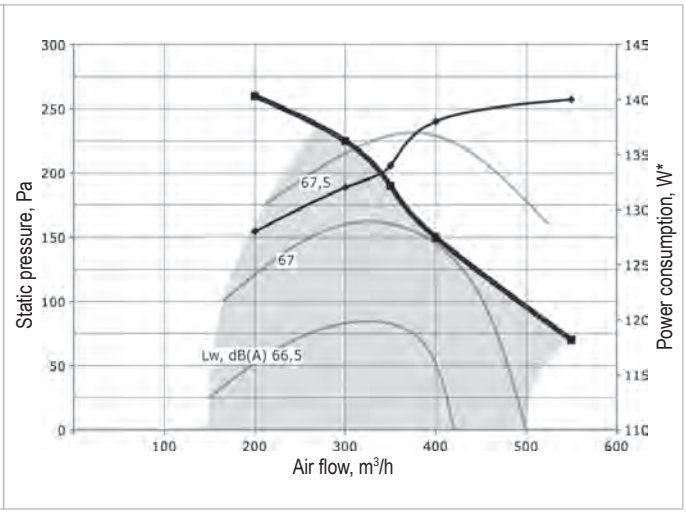
Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	10,2	11,6		°C
Relative humidity	27	37		%



Performance RECU 400VE-EC / RECU 400HE-EC



Performance RECU 400VE-AC / RECU 400HE-AC



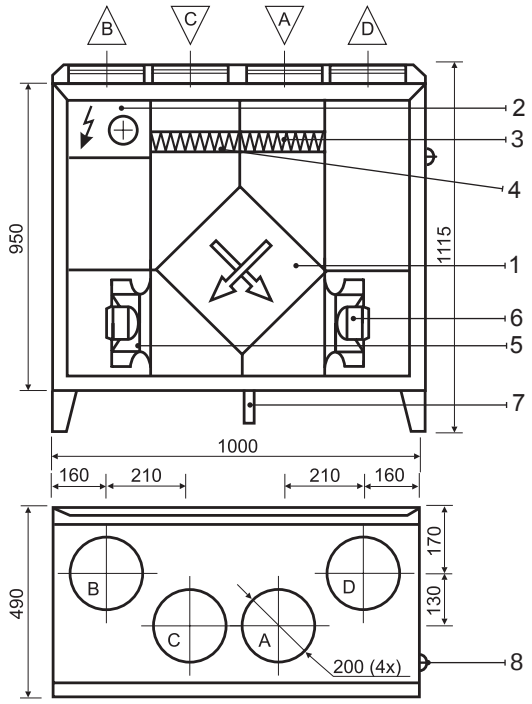
- air handling unit working zone.

* - fans' one motor.

Correction factor for HW/VW (hot water duct heater DH) approximately – 30 Pa at 400m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 400m³/h.

KOMPAKT RECU 700

RECU 700VE-AC/EC (shown as left)



Technical data

RECU 700VE-AC/EC (vertical)	
Panel thickness	45 mm
Unit weight	85 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	13,5/12,6 A
Control system	C3

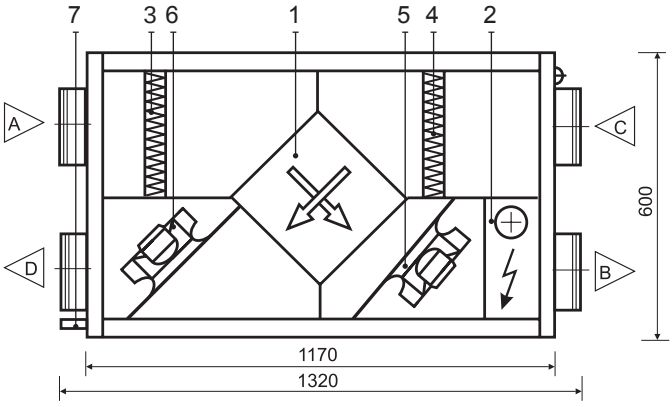
RECU 700HE-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	75 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	13,5 /12,6A
Control system	C3

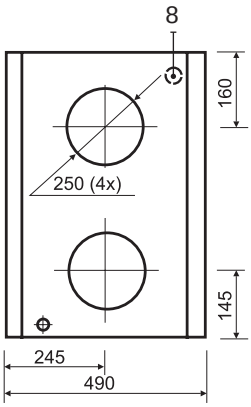
Design:

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Main cable (L = 1,5 m)

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

RECU 700HE-AC/EC (shown as right)

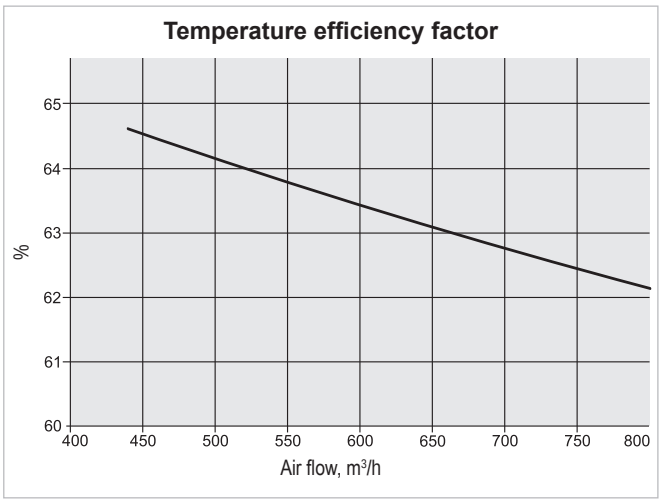




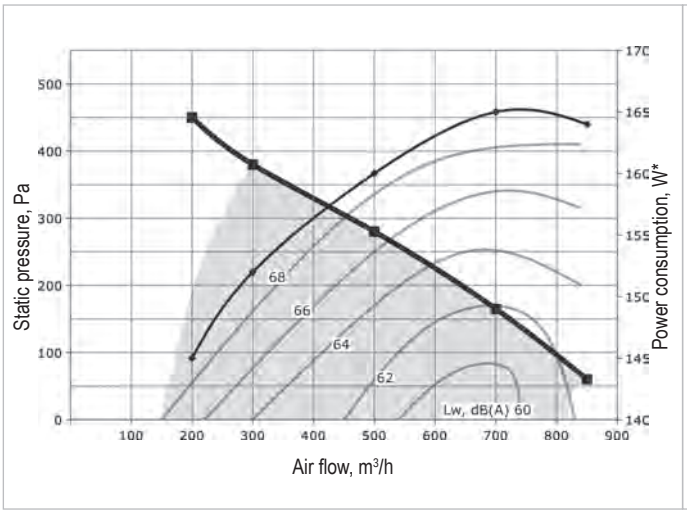
Parameters	Supply	Exhaust	Unit
Nominal air flow	700	700	m³/h
Air Filters			
Filter class	F5	F5	
Type	Panel	Panel	
Dimensions bxhxl	390x235x46	390x235x46	mm
Fans Motors			
Type	AC/EC	AC/EC	
Input power	210/165	210/165	W
Rotation speed	2450/3000	2450/3000	rpm
Protection level	IP 44	IP 44	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	62,6		%
Energy recovery	4,4		kW
Air temperature in/out	-10/8,8	20/4,7	°C
Relative humidity in/out	82/19	45/96	%
Electric Air Heater			
Capacity	2,5		kW
Air temperature in/out	8,8/19,5		°C

Thermal Efficiency (700 m³/h)

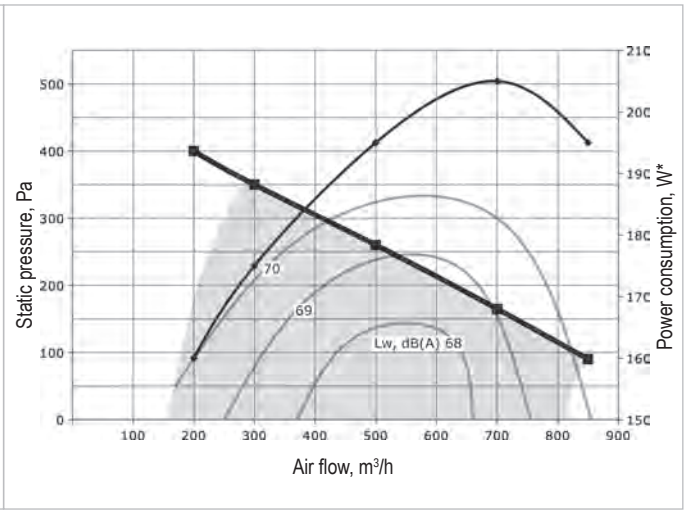
Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	9,9	11,4		°C
Relative humidity	27	37		%



Performance RECU 700VE-EC / RECU 700HE-EC



Performance RECU 700VE-AC / RECU 700HE-AC



- air handling unit working zone.

* - fans' one motor.

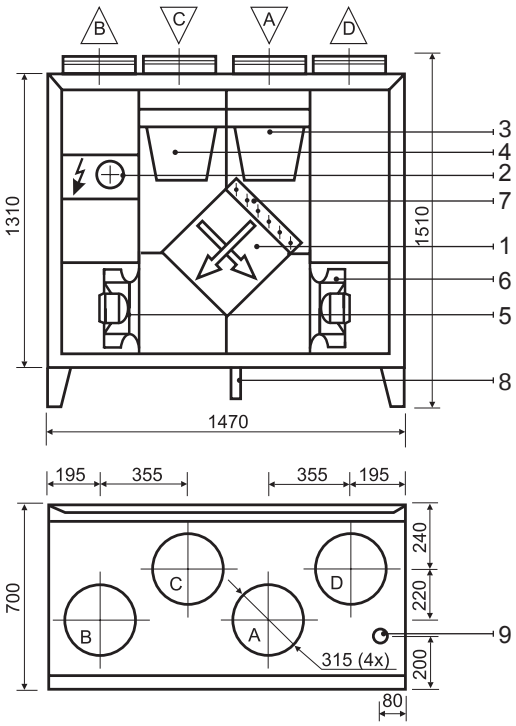
Correction factor for HW/VW (hot water duct heater DH) approximately – 30 Pa at 700m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 700m³/h.

Technical data

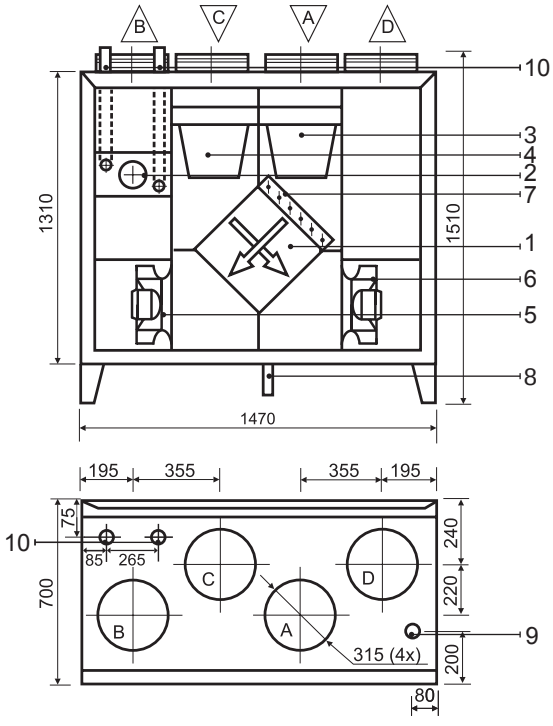
RECU 1600VE-EC (vertical)	
Panel thickness	45 mm
Unit weight	300 kg
Nominal air flow	1600 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	23,4 A
Control system	C3

RECU 1600VW-EC (vertical)	
Panel thickness	45 mm
Unit weight	290 kg
Nominal air flow	1600 m³/h
Supply voltage	1~ 230/50 V/Hz
Maximal operating current	6,3 A
Control system	C3

RECU 1600VE-EC (shown as left)



RECU 1600VW-EC (shown as left)



Design:

1. Plate heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Air by-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Connection of main cable
10. Fluid connection tube

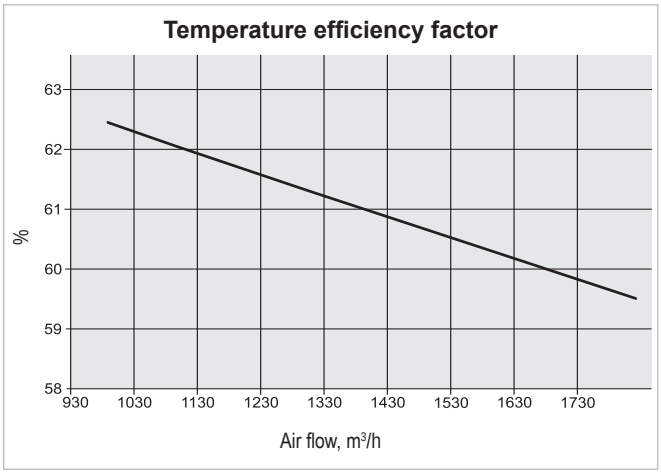
A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Parameters	Supply	Exhaust	Unit
Nominal air flow	1600	1600	m³/h
Air Filters			
Filter class	F5	G4	
Type	Bag filter	Bag filter	
Dimensions bxhxl	592x287x360	592x287x360	mm
Fans Motors			
Type	EC	EC	
Input power	455	455	W
Rotation speed	2600	2600	rpm
Protection level	IP 54	IP 54	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	60,3		%
Energy recovery	9,7		kW
Air temperature in/out	-10/8,1	20/5,2	°C
Relative humidity in/out	82/20	45/95	%
Electric Air Heater			
Capacity	12		kW
Air temperature in/out	-2,8/20		°C

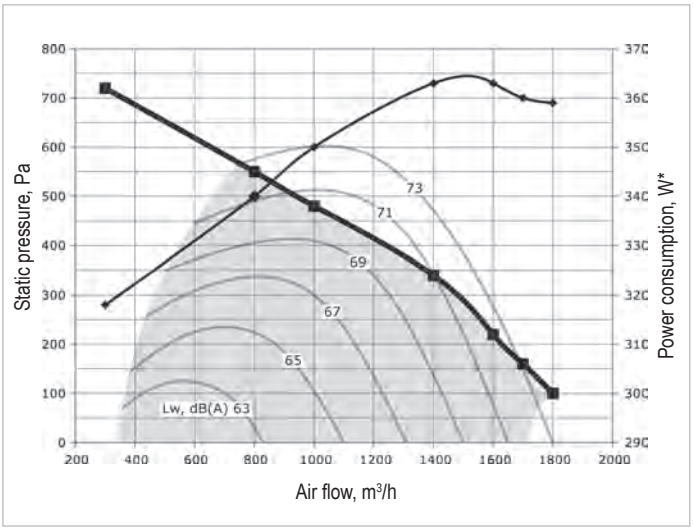
Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	25,4	21,6	19,5	kW
Flow rate	1121	946	851	dm³/h
Pressure drop	5	4	2	kPa
Connection		1		”
Air flow 1600 m³/h temperature in/out	-20/27,1	-20/20	-20/16,2	°C

Thermal Efficiency (1600 m³/h)

Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	9,4	11		°C
Relative humidity	28	38		%



Performance RECU 1600VE-EC / RECU 1600VW-EC



- air handling unit working zone.

* - fans' one motor.

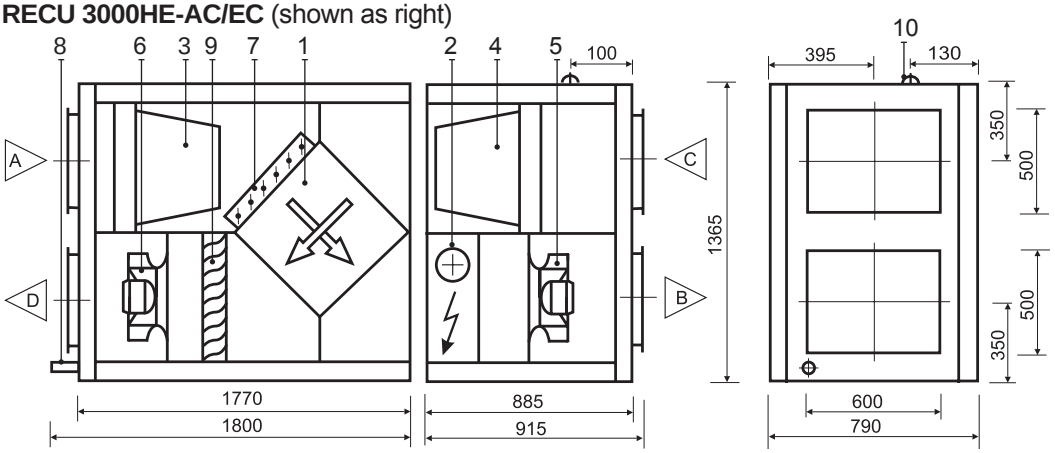
Correction factor for HW/VW approximately – 30 Pa at 1600m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 1600m³/h.

Technical data

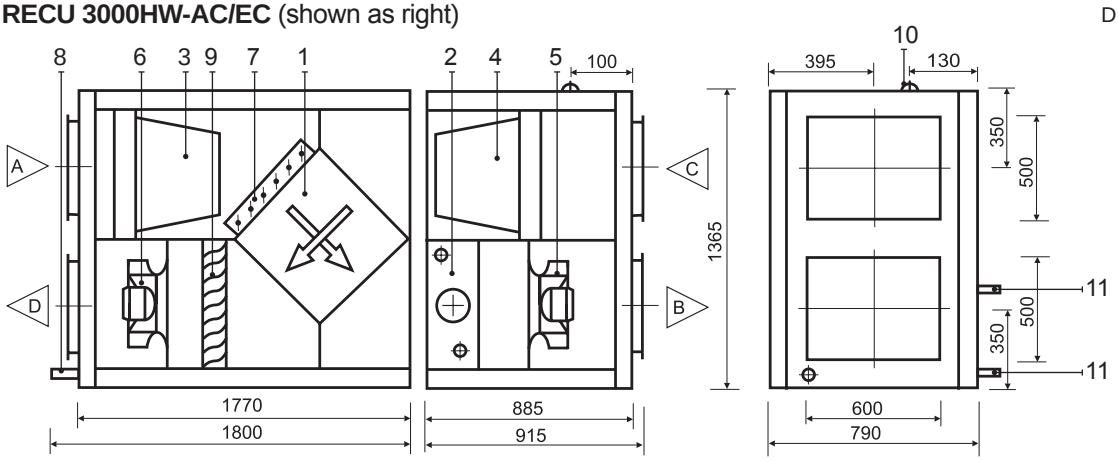
RECU 3000HE-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	530 kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	34,7/29,9 A
Control system	C3

RECU 3000HW-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	540 kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	8,1/3,9 A
Control system	C3

RECU 3000HE-AC/EC (shown as right)



RECU 3000HW-AC/EC (shown as right)



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Design:

1. Plate heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Air by-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube

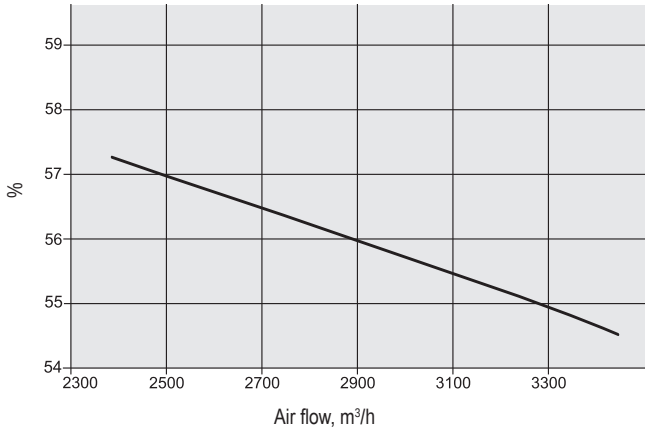
Parameters	Supply	Exhaust	Unit
Nominal air flow	3000	3000	m³/h
Air Filters			
Filter class	F5	G4	
Type	Bag filter	Bag filter	
Dimensions bxhxl	592x592x360	592x592x360	mm
Fans Motors			
Type	AC/EC	AC/EC	
Input power	1100/990	1100/990	W
Rotation speed	2850/2580	2850/2580	rpm
Protection level	IP 55/54	IP 55/54	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	55,5		%
Energy recovery	16,7		kW
Air temperature in/out	-10/6,6	20/6,4	°C
Relative humidity in/out	82/22	45/91	%
Electric Air Heater			
Capacity	18		kW
Air temperature in/out	1,5/20		°C

Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	25,4	21,76	18,2	kW
Flow rate	1117	953	792	dm³/h
Pressure drop	4	3	2	kPa
Connection		1		”
Air flow 3000 m³/h temperature in/out	0/25,1	0/21,5	0/18	°C

Acoustic Data RECU 3000HE-AC / RECU 3000HW-AC (3000 m³/h)

		63	125	250	500	1000	2000	4000	8000	dB(A)
Supply	Inlet	67	70	73	73	69	61	55	51	73,5
	Outlet	75	80	85	86	82	78	74	70	87,1
Exhaust	Inlet	67	70	73	73	69	61	55	52	73,6
	Outlet	75	80	85	86	82	78	74	70	87,1
Surrounding at 3 m		60	62	63	53	48	42	33	27	56,7

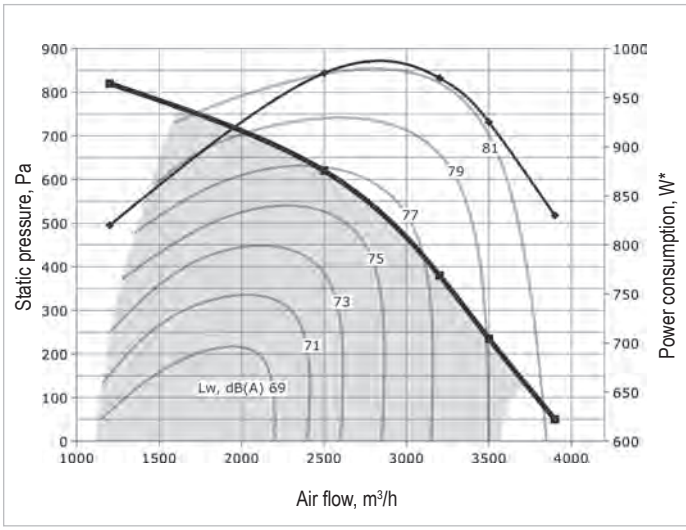
Temperature efficiency factor



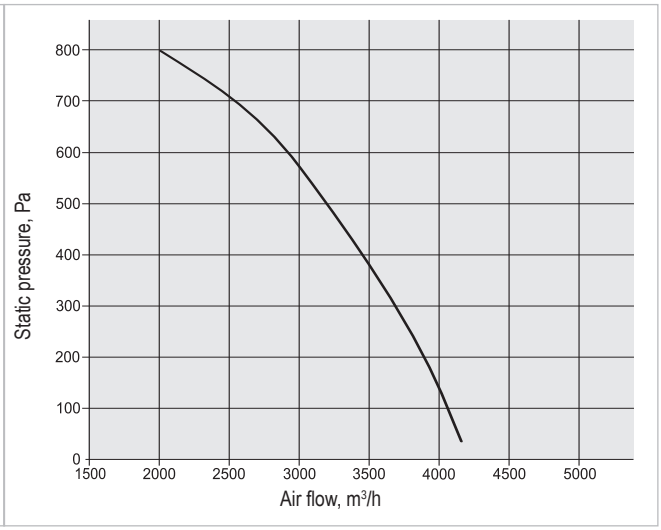
Thermal Efficiency (3000 m³/h)

Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	8,9	10,9		°C
Relative humidity	29	38		%

Performance RECU 3000HE-EC / RECU 3000HW-EC



RECU 3000HE-AC / RECU 3000HW-AC



- air handling unit working zone.

* - fans' one motor.

Correction factor for HW approximately – 30 Pa at 3000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 3000m³/h.

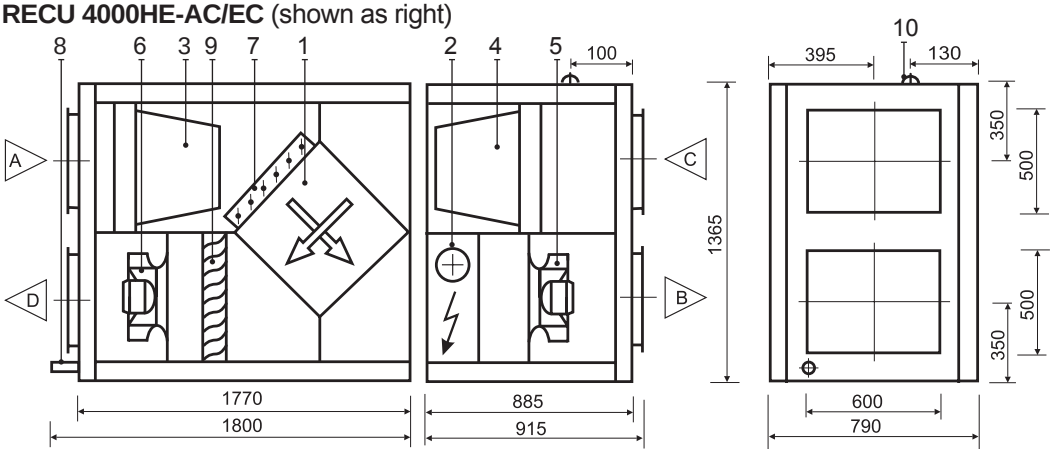
KOMPAKT RECU 4000

Technical data

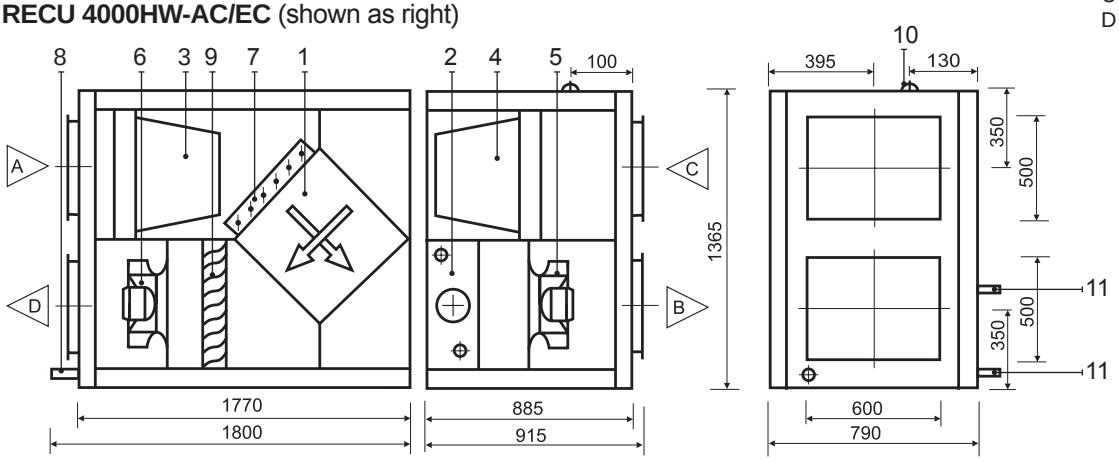
RECU 4000HE-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	605 kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	44,2/38,2 A
Control system	C3

RECU 4000HW-AC/EC (horizontal)	
Panel thickness	45 mm
Unit weight	620 kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	9,4/3,9 A
Control system	C3

RECU 4000HE-AC/EC (shown as right)



RECU 4000HW-AC/EC (shown as right)



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Design:

1. Plate heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Air by-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube

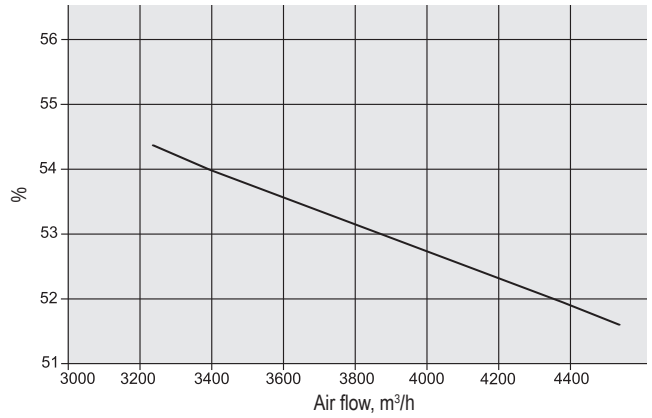
Parameters	Supply	Exhaust	Unit
Nominal air flow	4000	4000	m³/h
Air Filters			
Filter class	F5	G4	
Type	Bag filter	Bag filter	
Dimensions bxhxl	592x592x360	592x592x360	mm
Fans Motors			
Type	AC/EC	AC/EC	
Input power	1500/1000	1500/1000	W
Rotation speed	2890/2140	2890/2140	rpm
Protection level	IP 55/54	IP 55/54	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	53,2		%
Energy recovery	21,4		kW
Air temperature in/out	-10/6	20/6,8	°C
Relative humidity in/out	82/23	45/89	%
Electric Air Heater			
Capacity	24		kW
Air temperature in/out	1,5/20		°C

Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	48	41,8	35,7	kW
Flow rate	2114	1833	1555	dm³/h
Pressure drop	23	18	13	kPa
Connection		1		”
Air flow 4000 m³/h temperature in/out	-5/30,6	-5/26,1	-5/21,5	°C

Acoustic Data RECU 4000HE-AC / RECU 4000HW-AC (4000 m³/h)

		63	125	250	500	1000	2000	4000	8000	dB(A)
Supply	Inlet	68	70	73	72	69	61	54	50	73,2
	Outlet	76	80	85	85	82	78	73	69	86,7
Exhaust	Inlet	68	70	73	72	69	61	55	51	73,2
	Outlet	76	80	85	85	82	78	73	69	86,7
Surrounding at 3 m		60	62	63	52	48	42	32	26	56,6

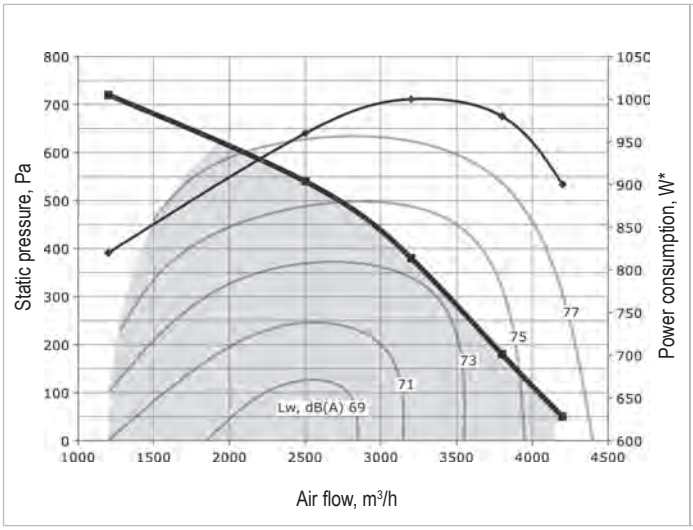
Temperature efficiency factor



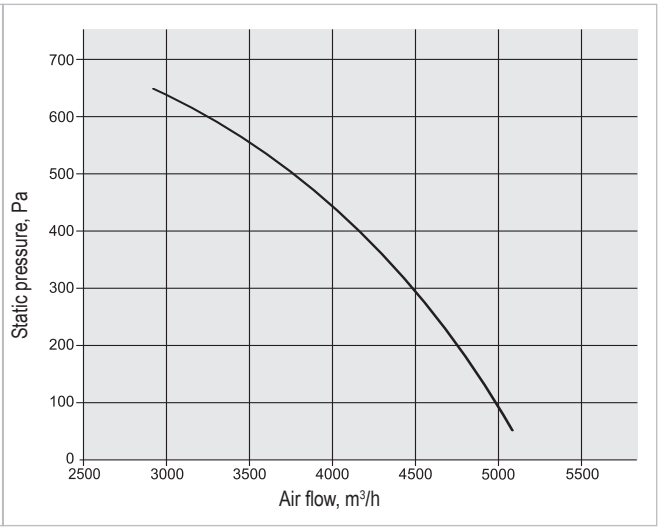
Thermal Efficiency (4000 m³/h)

Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	7,5	10		°C
Relative humidity	31	41		%

Performance RECU 4000HE-EC / RECU 4000HW-EC



Performance RECU 4000HE-AC / RECU 4000HW-AC



- air handling unit working zone.

* - fans' one motor.

Correction factor for HW approximately – 30 Pa at 4000m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 4000m³/h.

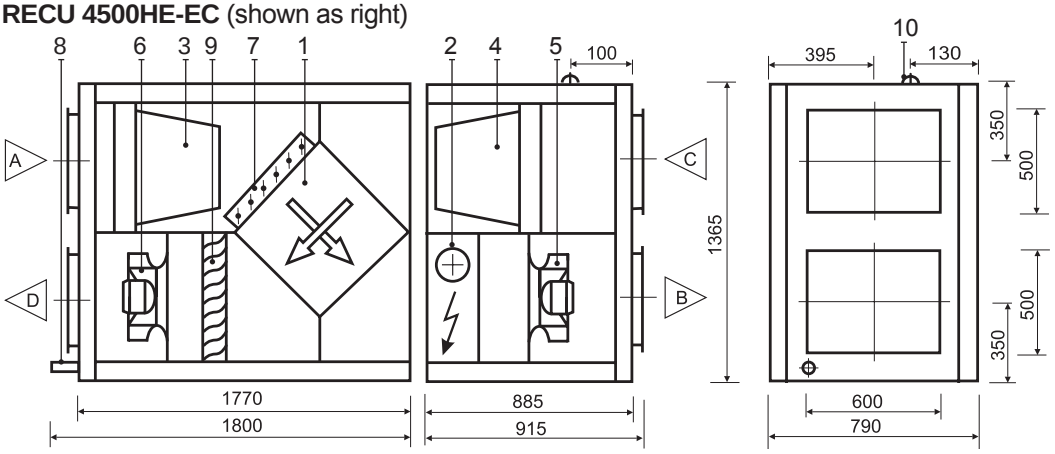
KOMFOVENT KOMPAKT RECU 4500

Technical data

RECU 4500HE-EC (horizontal)	
Panel thickness	45 mm
Unit weight	610 kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	40 A
Control system	C3

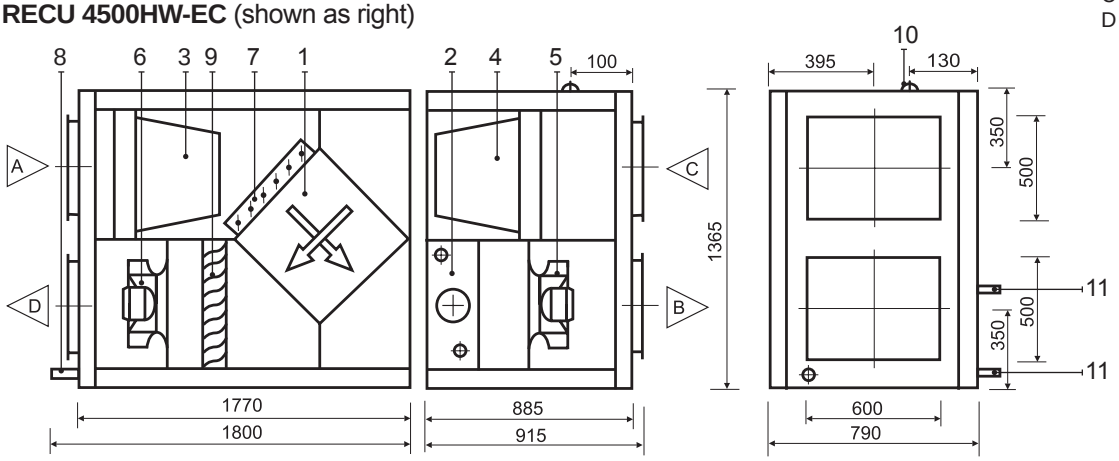
RECU 4500HW-EC (horizontal)	
Panel thickness	45 mm
Unit weight	625 kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400/50 V/Hz
Maximal operating current	5,5 A
Control system	C3

RECU 4500HE-EC (shown as right)



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

RECU 4500HW-EC (shown as right)

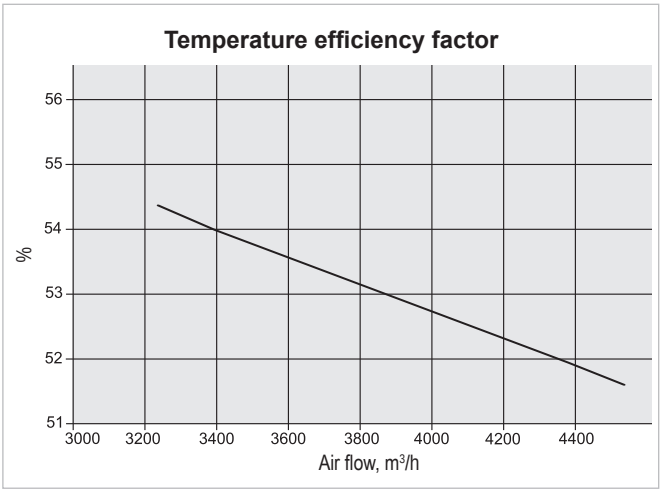


Design:

1. Plate heat exchanger
2. Electric or hot water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Air by-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube

Parameters	Supply	Exhaust	Unit
Nominal air flow	4500	4500	m³/h
Air Filters			
Filter class	F5	G4	
Type	Bag filter	Bag filter	
Dimensions bxhxl	592x592x300	592x592x300	mm
Fans Motors			
Type	EC	EC	
Input power	1700	1700	W
Rotation speed	2600	2600	rpm
Protection level	IP 54	IP 54	IEC 34-5
Plate Heat Exchanger			
Thermal efficiency	52,2		%
Energy recovery	23,6		kW
Air temperature in/out	-10/5,7	20/7,1	°C
Relative humidity in/out	82/23	45/88	%
Electric Air Heater			
Capacity	24		kW
Air temperature in/out	30/20		°C

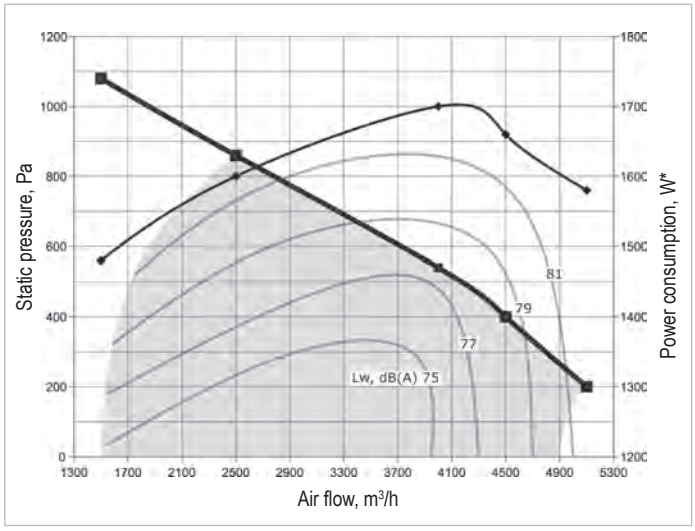
Parameters				Unit
Hot Water Air Heater				
Water temperature in/out	90/70	80/60	70/50	°C
Capacity	46	40	34	kW
Flow rate	2021	1751	1484	dm³/h
Pressure drop	26	21	15	kPa
Connection		1		”
Air flow 4500 m³/h temperature in/out	-5/25	-5/21	-5/17	°C



Thermal Efficiency (4500 m³/h)

Parameters	Supply		Exhaust	Unit
Intake				
Temperature	-5	0	20	°C
Relative humidity	82	82	45	%
Supply				
Temperature	7,5	10		°C
Relative humidity	31	41		%

Performance RECU 4500HE-EC / RECU 4500HW-EC



- air handling unit working zone.

* - fans' one motor.

Correction factor for HW approximately – 30 Pa at 4500m³/h.
Correction factor for F7 class filter approximately – 70 Pa at 4500m³/h.