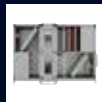
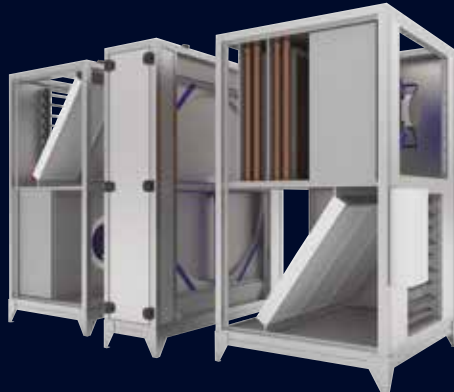


Duplexvent Rotary DV4000



PERFORMANCE

Ventilation		Supply Air	Extract Air
Air volume @ 200 Pa	m³/h / l/s	4000 / 1111	4000 / 1111
Nominal voltage	V	400	400
Nominal power (at operation point)	kW	0.8	0.7
Max power input	kW	1.2	1.2
Max current	A	2	2
Fan Type		EC	EC

Note: The figures above have been measured at 4000 m³/h and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

Heat Recovery		Supply Air	Extract Air
Air volume @ 200 Pa	m³/h / l/s	4000 / 1111	4000 / 1111
Temperature at inlet	°C	-15	20
Temperature at outlet	°C	13	-5
Humidity at inlet	% RH	90	40
Humidity at outlet	% RH	50	99
Heat recovery efficiency winter/summer	%	80 / 77	
Humidity recovery efficiency winter/summer	%	76 / 0	
Total heat gain winter/summer	kW	50.4 / 7.9	
Sensible heat gain winter/summer	kW	37.8 / 6.0	
Latent heat gain winter/summer	kW	12.6 / 2	
Heat exchanger speed	RPM	10-13	
Type of heat exchanger		Thermal Rotary Wheel	
Part No.		90000726	
EAN No.		5019009321189	

Note: The figures above have been measured at 4000 m³/h and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

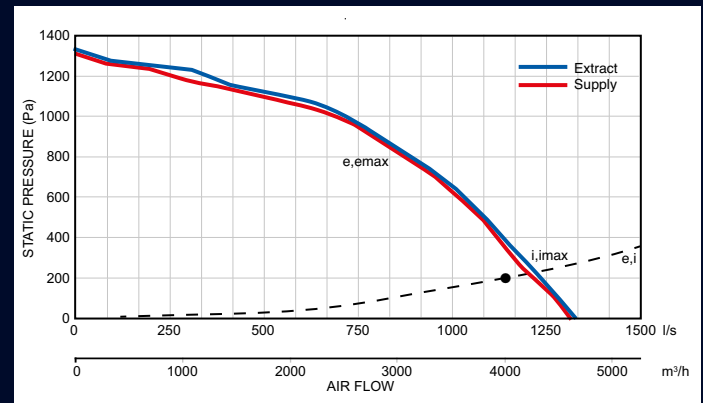
Sound Power Level L _w	Total	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
	dB (A)								
Outdoor air e1	71	38	49	65	68	63	61	56	52
Supply air e2	89	56	67	81	86	84	79	73	66
Extract air i1	71	38	49	65	68	63	61	56	52
Exhaust air i2	90	56	67	81	86	84	79	73	66
Breakout noise	70	62	48	56	68	61	51	51	31
Sound Pressure Level L _p measured at 3m	49	41	27	35	48	40	30	30	<25

Note: The figures above have been measured at 4000 m³/h and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

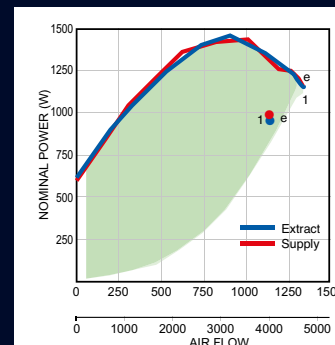
KEY FEATURES

- Air volume up to 4000 m³/h at 200 Pa according to ErP 2018
- Highly efficient, certified by Eurovent rotary heat exchanger, up to 85% thermal efficiency
- Low SFP and energy saving EC fans
- Digital touchscreen or simple manual controller
- BMS connection
- VAV control compatibility
- Filters: ePM1 55 % (F7), ePM10 50 % (M5) or Coarse 90 % (G4)
- Optional equipment: recirculation damper, heating or cooling coils, purge chamber
- Optional constant flow / pressure mode
- 2 year warranty*

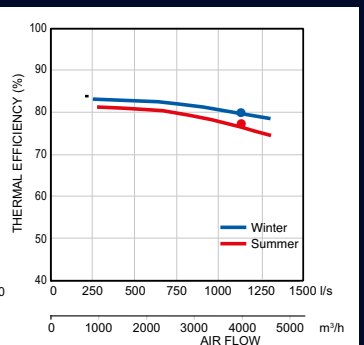
AIRFLOW CURVE



POWER CONSUMPTION



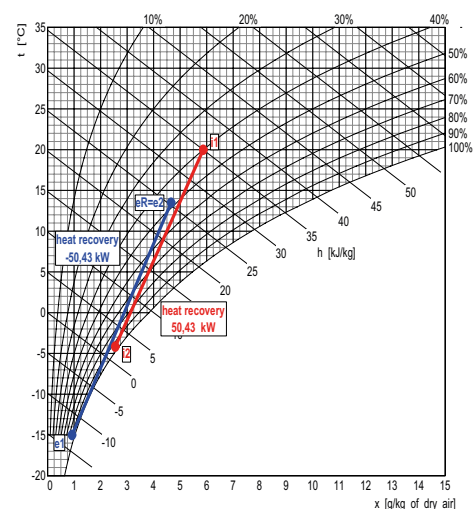
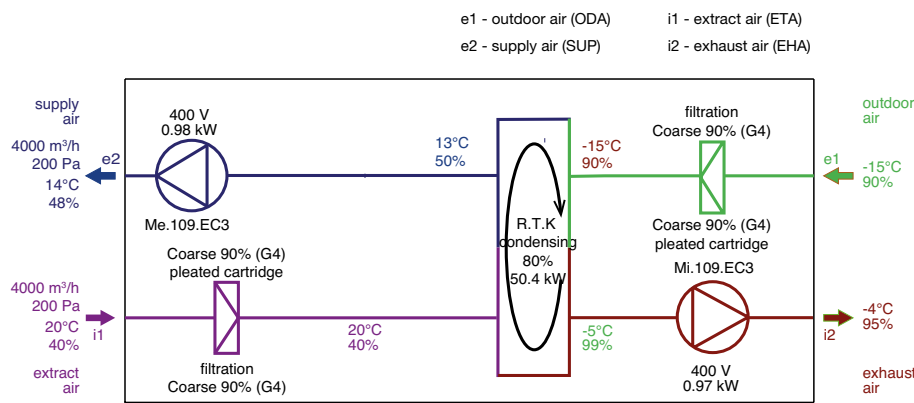
HEAT RECOVERY EFFICIENCY



Note: Green area denotes power consumption range. Power consumption depends on system installation. *excludes motors. Motor warranty one year from date of purchase.



WINTER OPERATION



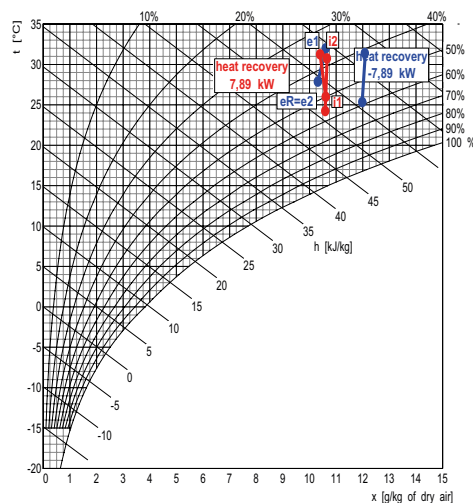
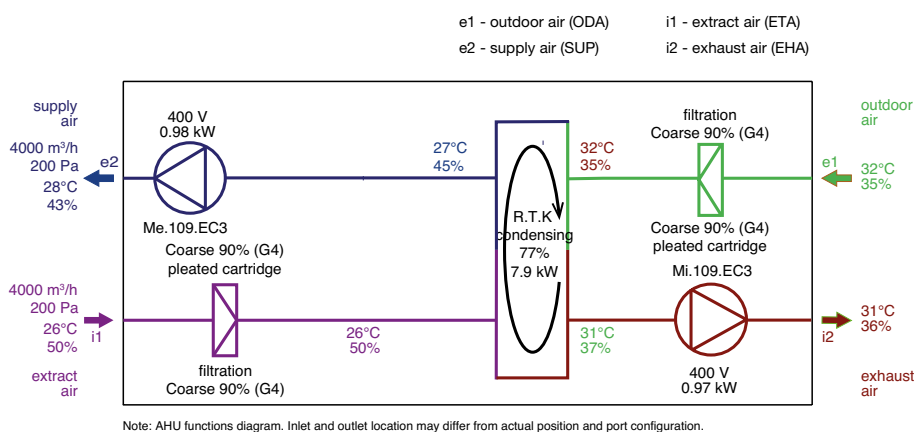
Supply

	Description	t [°C]	RH [%]
e1	Outdoor air	-15.0	90
e2	Supply air	15.2	35

Exhaust

	Description	t [°C]	RH [%]
i1	Extract Air	20.0	40
i2	Exhaust Air	1.6	92

SUMMER OPERATION



Supply

	Description	t [°C]	RH [%]
e1	Outdoor Air	32.0	35
e2	Supply Air	27.7	51

Exhaust

	Description	t [°C]	RH [%]
i1	Extract Air	26.0	50
i2	Exhaust Air	31.2	37

FILTERS

Filtration		Supply	Extract	Accessories (part of delivery)
Type		Pleated Cartridge		Pfe dirty filter pressure switch for supply air Pfi dirty filter pressure switch for extract air
Filtration class		ePM1 55% (F7)	ePM10 50% (M5)	
Number of filters	pcs	2	2	
Filter cartridge size	mm	750 x 495 x 96	750 x 495 x 96	

Duplexvent Rotary DV4000

ELECTRIC HEATER

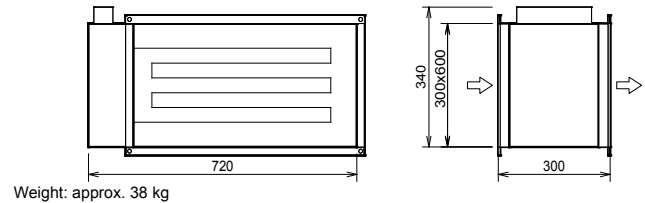
Electric pre-heater		Supply
Air volume	m³/h / l/s	4000 / 1111
Maximum heating capacity	kW	9.0
Voltage	V	400
Connection ports	mm	300 x 600

WATER HEATING COIL

Water heating coil		Supply
Heating medium		Water
Air volume	m³/h / l/s	4000 / 1111
Temperature at inlet (after heat recovery)	°C	14
Temperature at outlet (downstream of the heater)	°C	20
Heating capacity	kW	8.9
Heating medium temperature drop	°C	70 / 50
Medium flow (from source)	l/h	383
Connection dimension (hydraulic kit)		1" female

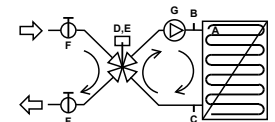
Note: The figures above have been measured at 4000 m³/h and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

OPTIONAL ACCESSORIES



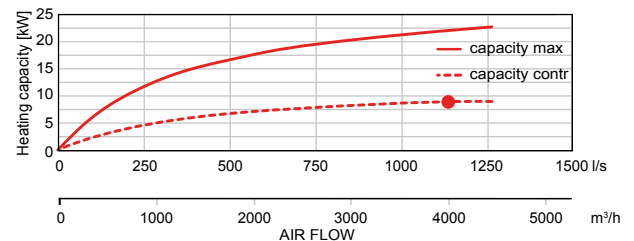
Weight: approx. 38 kg

- A Freeze protection thermostat 016-646-087 - 6m 2)
 - B Sludge valve plug 2)
 - C Sludge valve plug 2)
- Hydraulic kit: E-TPO4.E.LM24A-SR
- D Mixing valve IVAR.MIX4, Kv 12, 1" 1)
 - E Actuator LM24A-SR 1)
 - F Globe valve 1" female 1)
 - G Pump WILO YONOS PARA RS 20/6- RKC 1)



1 - Delivered separately 2 - Fitted and connected

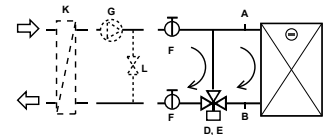
HEATING CAPACITY



WATER COOLING COIL

Water cooling coil		Supply
Cooling medium		30% Ethylene glycol
Air volume	m³/h / l/s	4000 / 1111
Temperature at inlet (after heat recovery)	°C	27
Temperature at outlet (downstream of the cooling coil)	°C	17
Inlet relative humidity (after heat recovery)	% RH	45
Outlet relative humidity (downstream of the cooling coil)	% RH	81
Cooling capacity	kW	13.04
Condensate production	l/h	0
Water temperature drop	°C	6 / 14
Medium flow (at max. capacity)	l/h	1570
Medium-side pressure drop		
in heat exchanger	kPa	6.50
in valve	kPa	0.24
Connection dimension		1" female

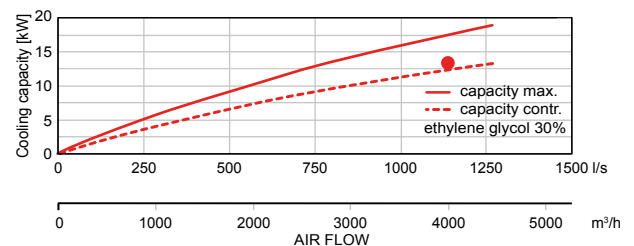
- A Sludge valve plug 2)
 - B Sludge valve plug 2)
- Hydraulic kit: R-CHW3.E.TR 24-SR
- D 3-way ball valve R3020-B1 2)
 - E Actuator TR 24-SR 2)
 - F Globe valve 1" female 2)



- Others:
- G Pump 3)
 - L Water bypass 3)
 - K Coil water/ethylene glycol 3)

1 - Delivered separately 2 - Fitted and connected 3 - Not part of delivery

COOLING CAPACITY

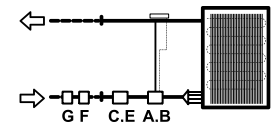


DX COIL

DX coil		Supply
Air volume	m³/h / l/s	4000 / 1111
Temperature at inlet (after heat recovery)	°C	27
Temperature at outlet (downstream of the DX coil)	°C	17
Inlet relative humidity (after heat recovery)	% RH	45
Outlet relative humidity (downstream of the DX coil)	% RH	77
Cooling capacity	kW	15.06
Condensate production	l/h	3
Refrigerant type		R32
Evaporating temperature	°C	8

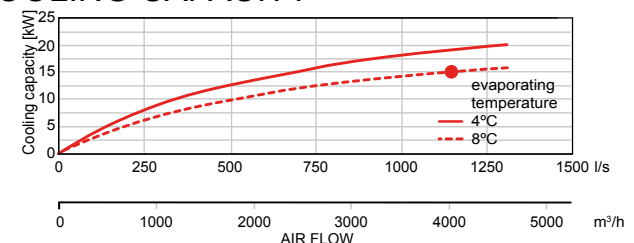
Note: The figures above have been measured at 4000 m³/h and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

- A Expansion valve 3)
- B Nozzle 3)
- C Magnetic valve 3)
- E Coil 3)
- F Sight glass 3)
- G Drier 3)



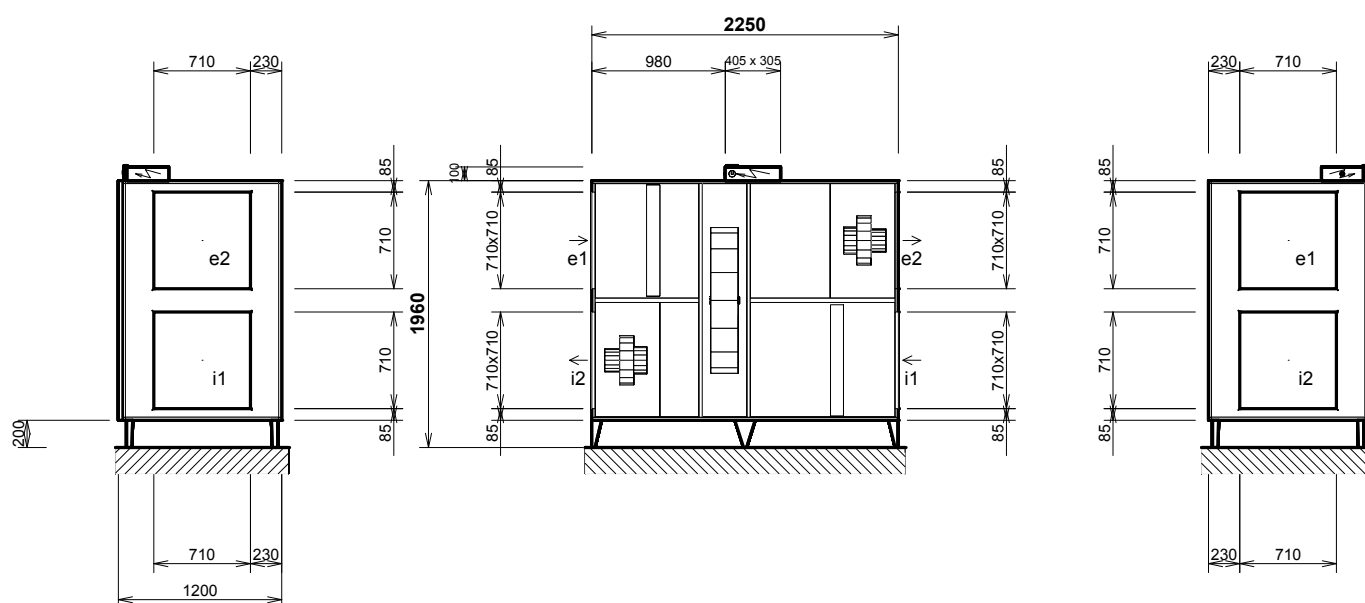
3 - Not part of delivery, recommended type mentioned

COOLING CAPACITY

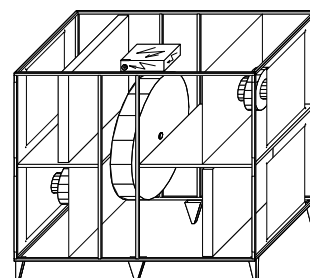
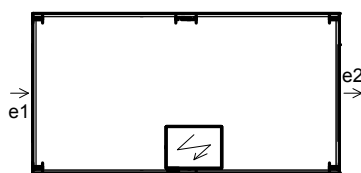


DIMENSIONS (mm)

front view (from the door side)



Weight: approx. 573kg



Connections	Type	Dimensions	Optional accessories
e1	e1- outdoor air (ODA)	710 x 710 mm	Shutoff damper
e2	e2- supply air (SUP)	710 x 710 mm	Flexible connection
i1	i1- extract air (ETA)	710 x 710 mm	Shutoff damper, Flexible connection
i2	i2- exhaust air (EHA)	710 x 710 mm	Flexible connection
K	condensate drain	Ø 32 mm / 40 mm	Condensate pump

Notice:

- Unit delivered as 1 piece
- Door is 3 parts
- Diagram is intended only for basic information, binding dimensions receive at device delivery, or on request from the manufacturer
- Bolt holes for duct connection (for one port): 4x M6

CONTROLS & ACCESSORIES



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