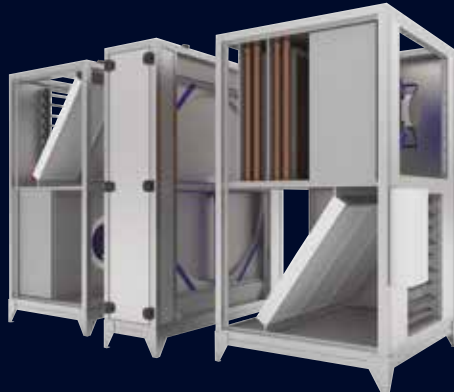


Duplexvent Rotary DV12000



PERFORMANCE

Ventilation		Supply Air	Extract Air
Air volume @ 400 Pa	m³/h / l/s	9500 / 2639	9500 / 2639
Nominal voltage	V	400	400
Nominal power (at operation point)	kW	2.2	2.6
Max power input	kW	5.2	5.4
Max current	A	7.7	7.7
Fan Type		EC	EC

Note: The figures above have been measured at 9500 m³/h and 400 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

Heat Recovery		Supply Air	Extract Air
Air volume @ 400 Pa	m³/h / l/s	9500 / 2639	9500 / 2639
Temperature at inlet	°C	-15	20
Temperature at outlet	°C	12	-4
Humidity at inlet	% RH	90	40
Humidity at outlet	% RH	50	100
Heat recovery efficiency winter/summer	%	77 / 73	
Humidity recovery efficiency winter/summer	%	70 / 0	
Total heat gain winter/summer	kW	114.1 / 17.8	
Sensible heat gain winter/summer	kW	86.4 / 14	
Latent heat gain winter/summer	kW	27.6 / 4	
Heat exchanger speed	RPM	10-13	
Type of heat exchanger		Thermal Rotary Wheel	
Part No.		90000569	
EAN No.		5019009319797	

Note: The figures above have been measured at 9500 m³/h and 400 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

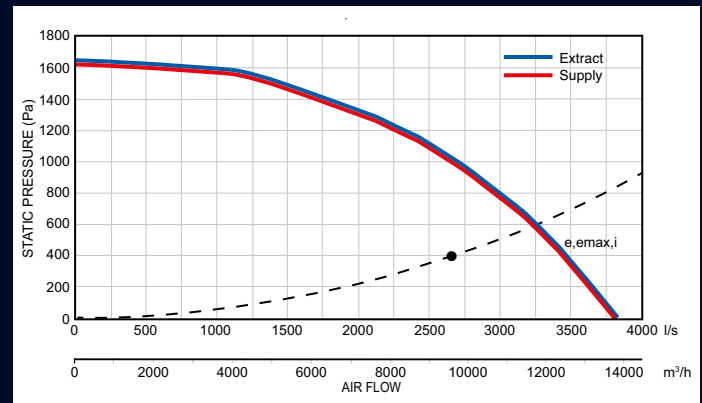
Sound Power Level L _w	Total	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
	dB (A)								
Outdoor air e ₁	77	55	67	72	73	71	61	50	40
Supply air e ₂	98	74	81	85	92	95	89	81	70
Extract air i ₁	77	55	67	72	73	71	61	50	40
Exhaust air i ₂	98	74	81	85	92	95	89	81	70
Breakout noise	66	45	55	60	59	61	57	53	39
Sound Pressure Level L _p measured at 3m	45	<25	34	39	38	40	37	33	<25

Note: The figures above have been measured at 9500 m³/h and 400 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

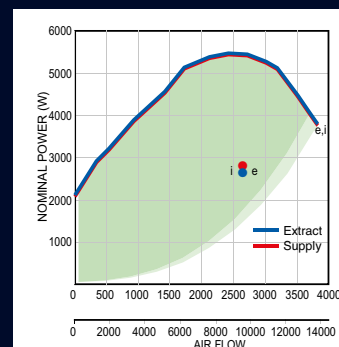
KEY FEATURES

- Air volume up to 9500 m³/h at 400 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*

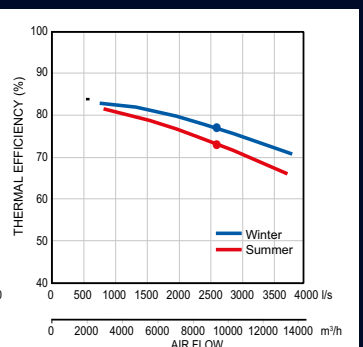
AIRFLOW CURVE



POWER CONSUMPTION



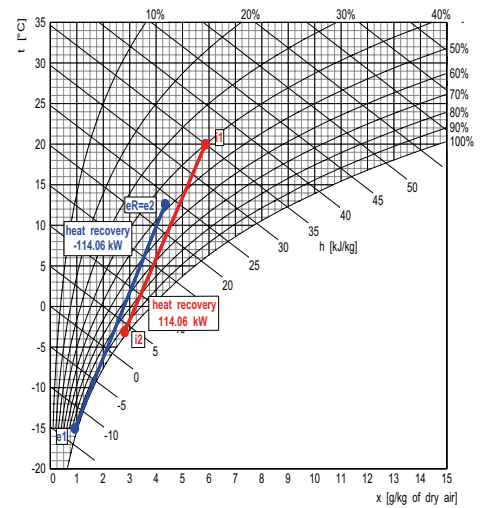
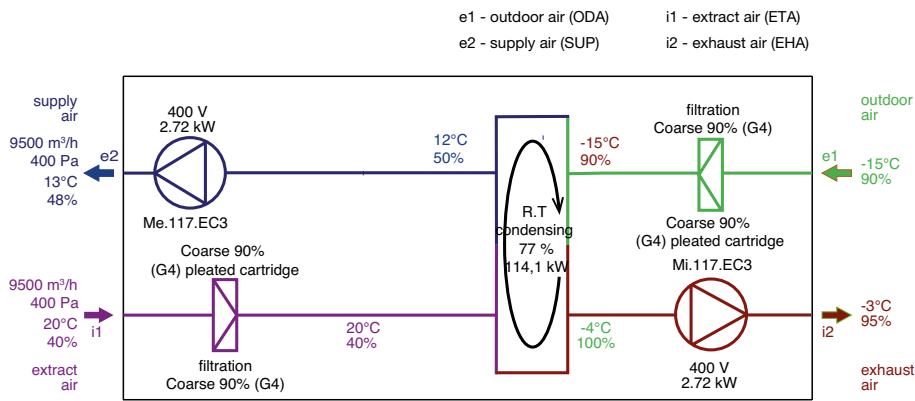
HEAT RECOVERY EFFICIENCY



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



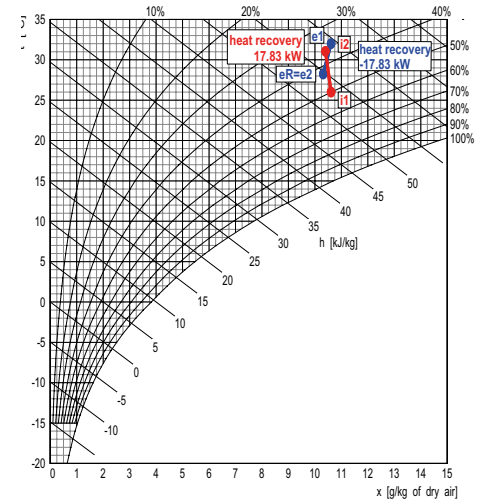
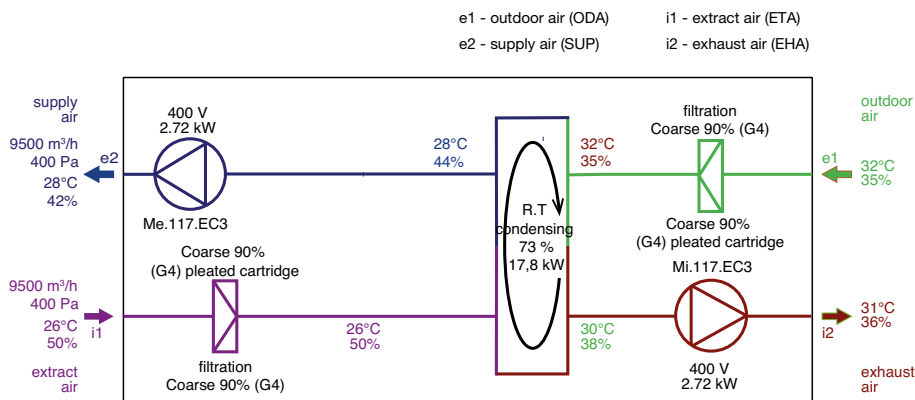
Supply

	Description	t [°C]	RH [%]
e1	Outdoor air	-15.0	90
e2	Supply air	14.4	30

Exhaust

	Description	t [°C]	RH [%]
i1	Extract Air	20.0	40
i2	Exhaust Air	4.1	96

SUMMER OPERATION



Supply

	Description	t [°C]	RH [%]
e1	Outdoor Air	32.0	35
e2	Supply Air	28.3	48

Exhaust

	Description	t [°C]	RH [%]
i1	Extract Air	26.0	50
i2	Exhaust Air	31.0	36

FILTERS

Filtration		Supply	Extract	Accessories (part of delivery)
Type		Pleated Cartridge		Pfi 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	3	3	
Filter cartridge size	mm	1000 x 440 x 96	1000 x 440 x 96	

Duplexvent Rotary DV12000

ELECTRIC HEATER

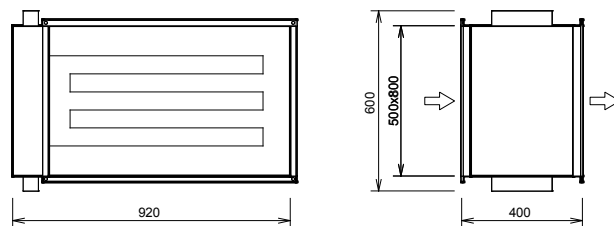
Electric pre-heater		Supply
Air volume	m³/h / l/s	9500 / 2639
Maximum heating capacity	kW	39.0
Voltage	V	400
Connection ports	mm	500 x 800

WATER HEATING COIL

Water heating coil		Supply
Heating medium		Water
Air volume	m³/h / l/s	9500 / 2639
Temperature at inlet (after heat recovery)	°C	13
Temperature at outlet (downstream of the heater)	°C	20
Heating capacity	kW	24.2
Heating medium temperature drop	°C	70 / 50
Medium flow (from source)	l/h	1043
Connection dimension (hydraulic kit)		1" female

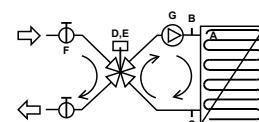
Note: The figures above have been measured at 9500 m³/h and 400 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

OPTIONAL ACCESSORIES



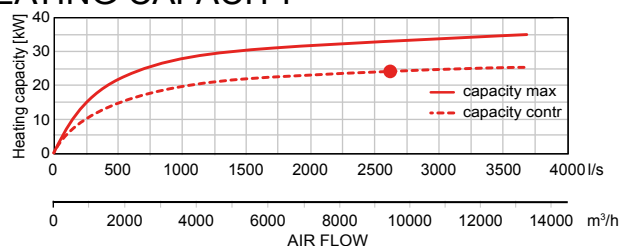
Weight: approx. 53 kg

- A Freeze protection thermostat 016-646-087 - 6m 2)
- B Sludge valve plug 2)
- C Sludge valve plug 2)
- Hydraulic kit: RE-TPO4. 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

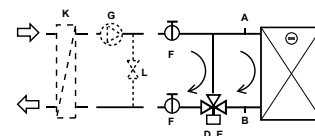
HEATING CAPACITY



WATER COOLING COIL

Water cooling coil		Supply
Cooling medium		30% Ethylene glycol
Air volume	m³/h / l/s	9500 / 2639
Temperature at inlet (after heat recovery)	°C	28
Temperature at outlet (downstream of the cooling coil)	°C	17
Inlet relative humidity (after heat recovery)	% RH	44
Outlet relative humidity (downstream of the cooling coil)	% RH	78
Cooling capacity	kW	36.8
Condensate production	l/h	6
Water temperature drop	°C	6 / 10
Medium flow (at max. capacity)	l/h	9780
Medium-side pressure drop		
in heat exchanger	kPa	25.70
in valve	kPa	9.39
Connection dimension		1" female

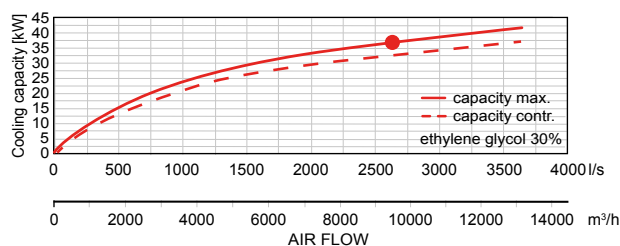
- A Sludge valve plug 2)
- B Sludge valve plug 2)
- Hydraulic kit: R-CHW3.E.TR 24-SR
- D 3-way ball valve R3020-B1 2)
- E Actuator TR 24-SR 2)
- F Globe valve 1" female 2)



- 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

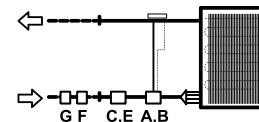


DX COIL

DX coil		Supply
Air volume	m³/h / l/s	9500 / 2639
Temperature at inlet (after heat recovery)	°C	28
Temperature at outlet (downstream of the DX coil)	°C	17
Inlet relative humidity (after heat recovery)	% RH	44
Outlet relative humidity (downstream of the DX coil)	% RH	80
Cooling capacity	kW	35.41
Condensate production	l/h	5
Refrigerant type		R32
Evaporating temperature	°C	10

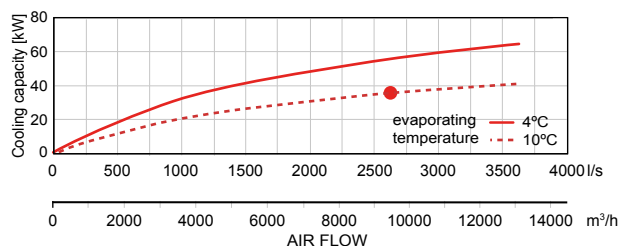
Note: The figures above have been measured at 9500 m³/h and 400 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

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



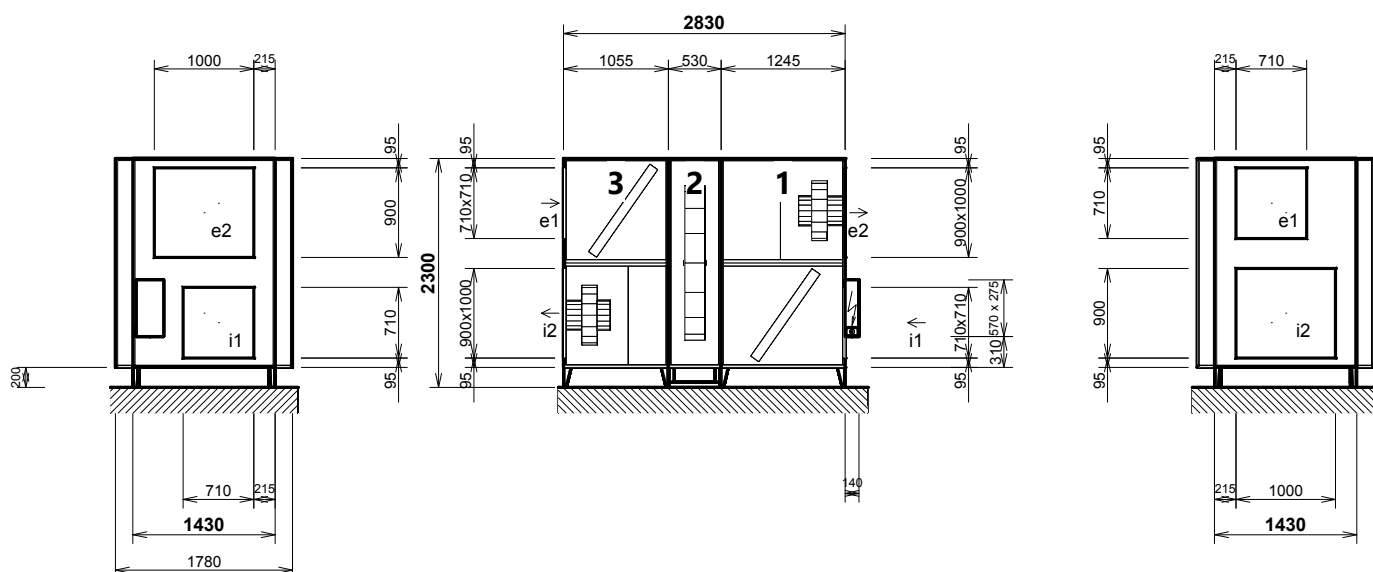
3 - Not part of delivery

COOLING CAPACITY

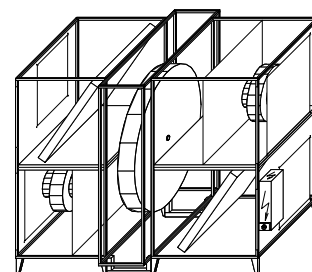
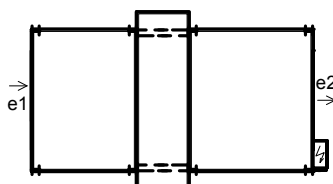


DIMENSIONS (mm)

front view (from the door side)



Weight: approx. 1210kg



Connections	Type	Dimensions	Optional accessories
e1	e1- outdoor air (ODA)	710 x 710mm	Shutoff damper
e2	e2- supply air (SUP)	900 x 1000mm	Flexible connection
i1	i1- extract air (ETA)	710 x 710mm	Shutoff damper, Flexible connection
i2	i2- exhaust air (EHA)	900 x 1000mm	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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