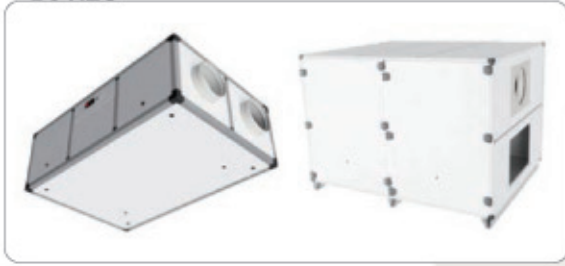


D9 REC



Description

REC D9: heat recovery unit with aluminium counter-flow heat exchanger, with Eff. > 90%

- execution with frame made of aluminium profiles
- double panels filled with rock wool heat and acoustic insulation th. 25 mm
- external panels in pre-painted sheet metal, interior in galvanised steel
- EC high efficiency centrifugal fans
- temperature probes
- integrated by-pass for free-cooling / free-heating (manual, motorised or automatic operation)
- M5 (ISO ePM10 50%) and F7 (ISO ePM1 70%) filters, removable from below in the horizontal ceiling version
- control board on the machine
- integrated frost protection
- working temperature 0°C and 45°C

Remote controls

3V EVO:

- on / off
- 3-speed selection
- by-pass (opening/closing) alert with automatic control
- frost protect alert
- dirty filters alert (with counter)
- probe malfunction alert
- can be installed in type 503 horizontal box
- possibility of automatic control of antifreeze heater, including 2 stages
- possibility of controlling the unit with simple digital inputs (on-off and remote speeds)

LCD (white):

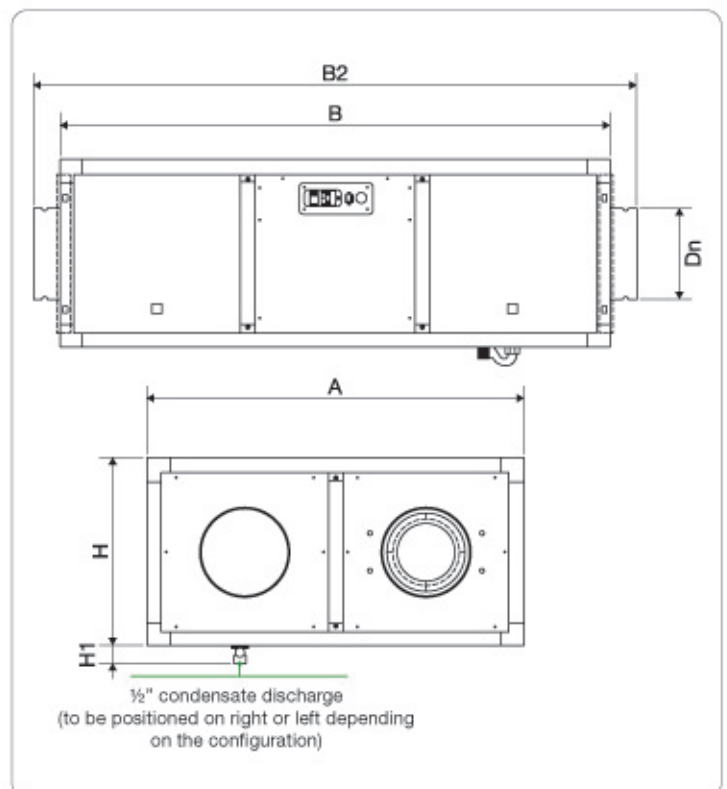
- LCD display
- integrated temperature / humidity probes
- selectable fan speed control:
 - 3 preset manual speeds (can be changed from 10% to 100%)
 - automatic (depending on humidity or air quality or temperature or other external probes)
 - diversify the speed of the inlet and expulsion fan
- can be installed in type 503 horizontal box
- automatic by-pass control
- frost protection with "pre-heating" coil management
- post-heating battery management with 0-10 Volt signal
- active alarms and alarm history
- clogged filter alarm
- hourly / weekly programming
- possibility of controlling the unit with simple on-off inputs through the control board:
 - on-off contacts (speed - summer-winter)
 - pairing with external probes 0-10 Volt
- ModBus on RS485
- pre-configuration for additional modules (Lan, RS485, RS232, GSM)

REC D9 EC				
Erp 2018 - EU 1253/2014				
Model	Flow rate (m³/h)	Prev. (Pa)	Yield of exchange pack 20°C dry (Eff. %)	LwA (dBA)
800 EC	850	110	78.3	57
1200 EC	1340	420	78.6	67
1600 EC	1580	290	78.8	68
2200 EC	2050	510	80.3	67
3000 EC	2720	345	80.5	68
4000 EC	3600	245	80.5	66
5000 EC	4460	480	80.4	70
8000 EC*	7300	420	81.5	71

Dimensions

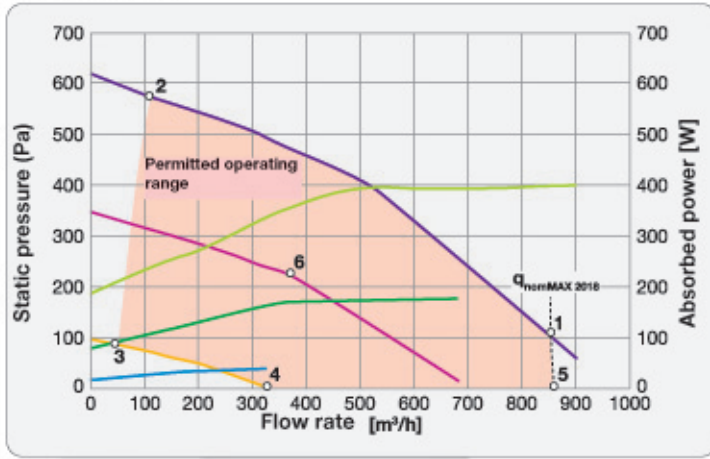
Model	A	B	H	B2	H1	Ø	Weight (Kg)	ASS (W)	Current (V)
800 EC	970	1350	410	1460	40	250	131	380	230
1200 EC	1100	1500	520	1607	40	315	188	1000	230
1600 EC	1100	1500	600	1607	40	315	207	1000	230
2200 EC	1250	1500	620	1716	40	355	242	1500	230
3000 EC	1250	1800	800	1916	40	400	304	2000	400/3F
4000 EC	1250	1800	1050	1916	40	400	381	2000	400/3F
5000 EC	1250	1800	1350	1917	40/100	450	455	3400	400/3F
8000 EC*	1800	1250	1500	-	40/100	810X510	780	5000	400/3F

*: with integrated hot/cold coil
 water 50/40°C - 15°C - 60 kW
 water 7/12°C - 27 °C - 43 kW

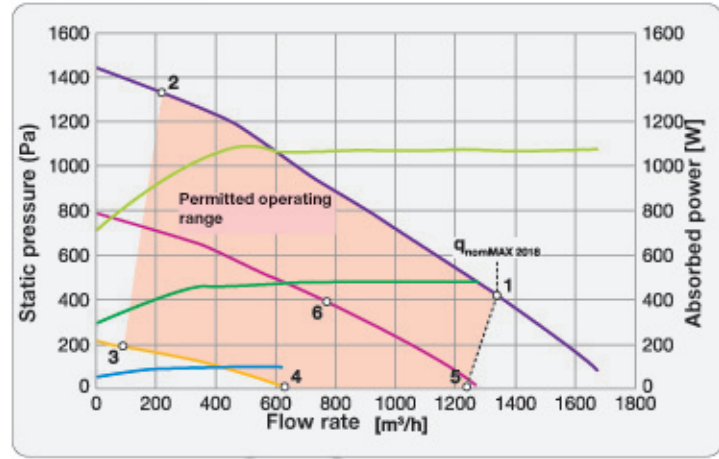


Heat recovery units / VMC / Air treatment

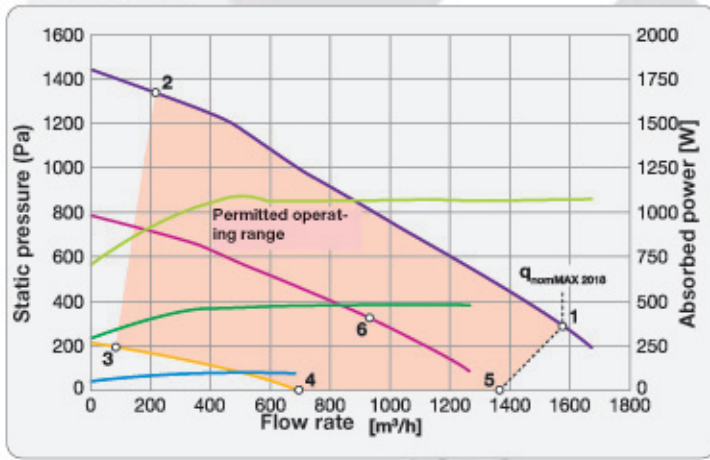
REC D9 800 EC



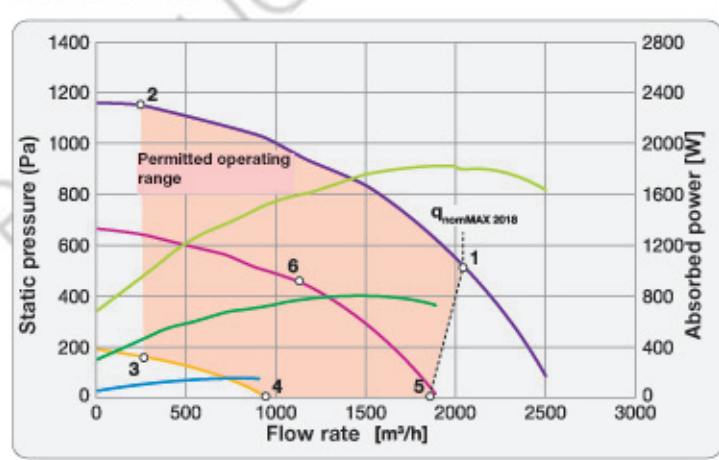
REC D9 1200 EC



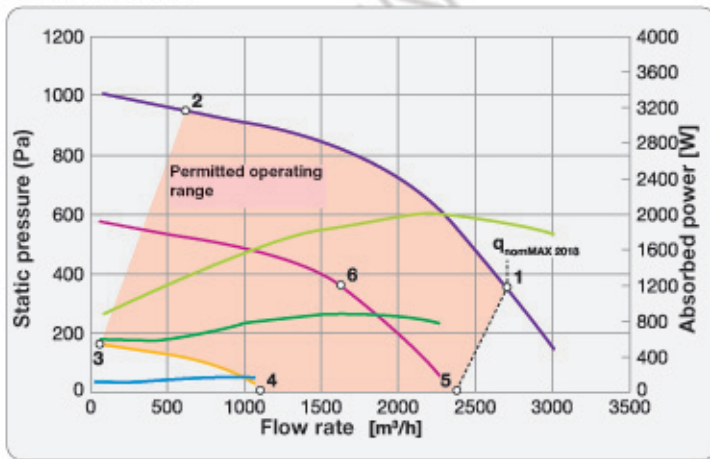
REC D9 1600 EC



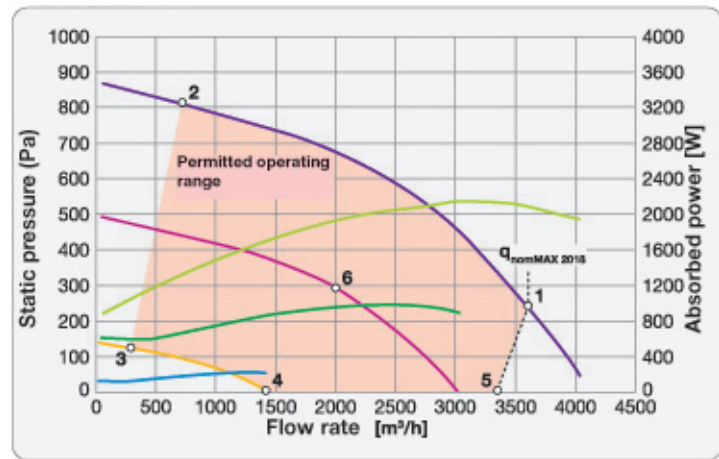
REC D9 2200 EC



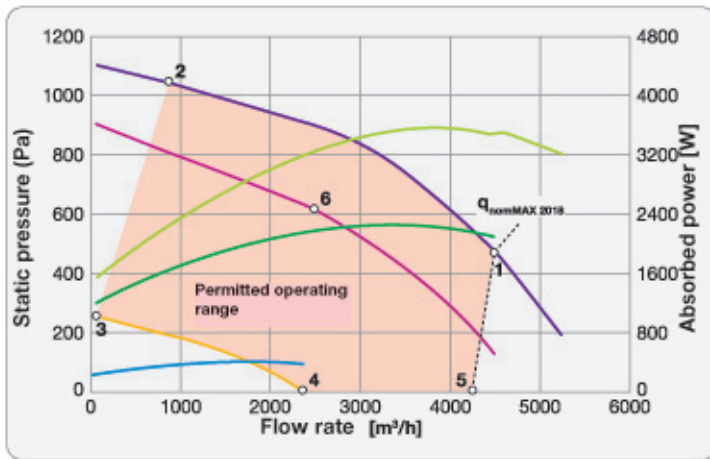
REC D9 3000 EC



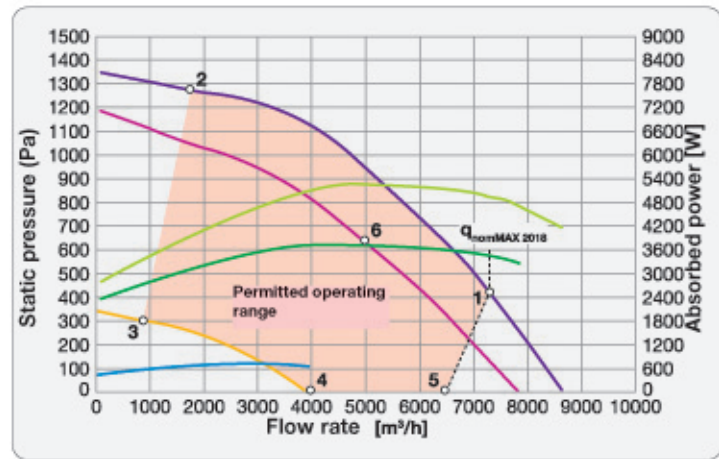
REC D9 4000 EC



REC D9 5000 EC



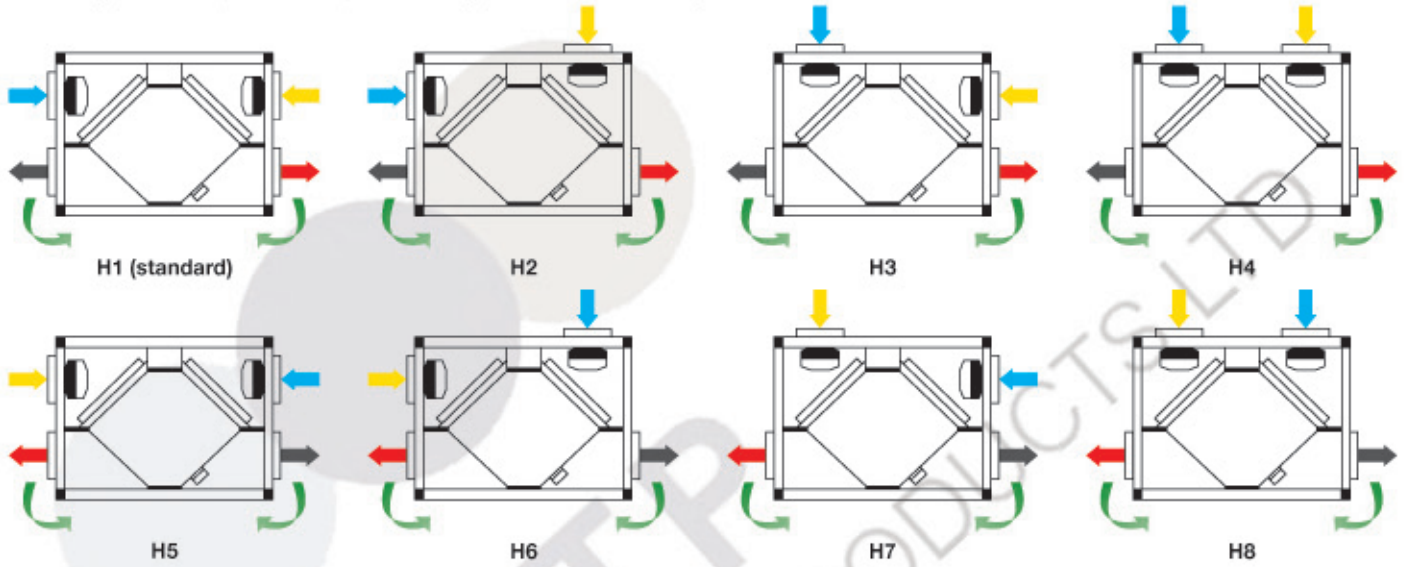
REC D9 8000 EC



Configurations

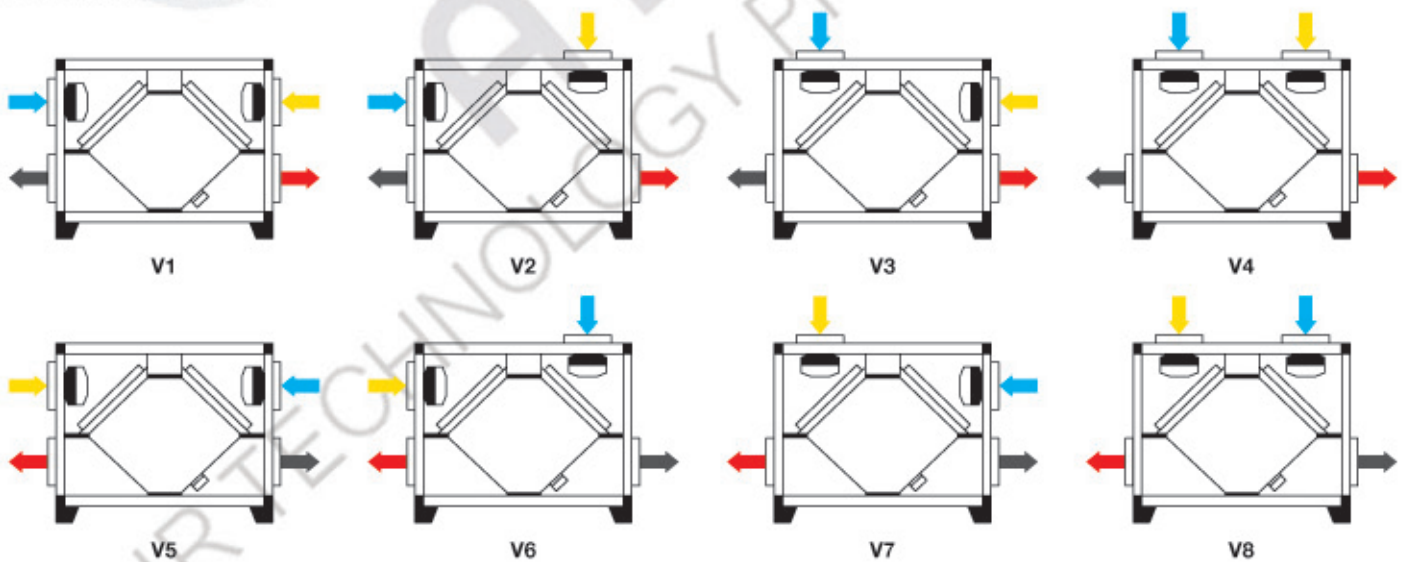
Ceiling-mounted horizontal installation

View of inspection side, from below; inlet and expulsion connections adjustable as desired.



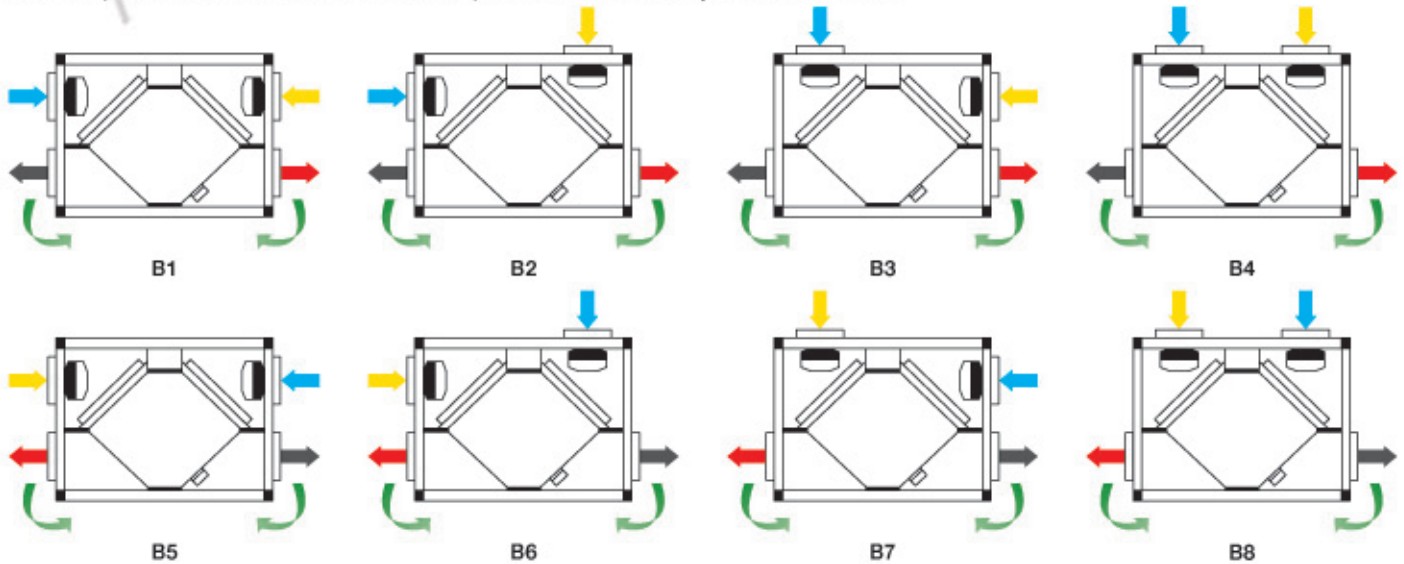
Vertical installation

Front view (inspection side)



Horizontal installation on floor

View of inspection side, from above; inlet and expulsion connections adjustable as desired.



↑ RENEWAL (external air intake)
 ↑ RECOVERY (extraction from room)
 ↑ EXPULSION (expulsion to outside)
 ↑ INTAKE (supply in room)

Heat recovery units / VMC / Air treatment

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
Pressure switch 20-300 Pa (can be used for example as ventilation activation safety device)	All the UVC 90	0	0	0
	All the REC D9 EC	supplied separately	supplied separately	supplied separately
Pressure switch filters (for both filters, order 2 pieces)	All the UVC 90	standard supply	0	V
	All the REC D9 EC	(1 mounted on renewal)	mounted, not connected	mounted, not connected
Frost thermostat	All the UVC 90	V	X	X
	All the REC D9 EC			
Room thermostat on-off	All the UVC 90	0	0	0
	All the REC D9 EC	not managed	not managed	not managed
Room temperature probe 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Room temperature probe 0-10V with display	All the UVC 90	X	X	V
	All the REC D9 EC			
Duct temperature probe 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Room humidistat on-off	All the UVC 90	V	V	V
	All the REC D9 EC			
Duct humidistat on-off	All the UVC 90	V	V	V
	All the REC D9 EC			
Humidity and room temperature probe 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Humidity and room temperature probe 0-10V with display	All the UVC 90	X	X	V
	All the REC D9 EC			
Humidity and duct temperature probe 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Room air quality probe (CO2) 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Room air quality probe (VOC) 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Room air quality probe (VOC) on-off	All the UVC 90	V	V	V
	All the REC D9 EC			
Room air quality probe (VOC) and humidity 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Duct air quality probe (VOC) 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Duct air quality probe (VOC) and humidity 0-10V	All the UVC 90	X	X	V
	All the REC D9 EC			
Additional ModBus module (add 1 RS485 port to use ModBus together with remote display)	All the UVC 90	X	X	V
	All the REC D9 EC			
Constant pressure control 0-100 / 0-250 Pa (inlet only; order 2 pieces for both fans)	All the UVC 90	X	X	V
	All the REC D9 EC			
Constant pressure control 0-500 / 0-1000 Pa (inlet only; order 2 pieces for both fans)	All the UVC 90	X	X	V
	All the REC D9 EC			
Constant flow control 0-950 m³/h (80) (inlet only; order 2 pieces for both fans)	UVC 90 800	X	X	V
	All the REC D9 EC			
Constant flow control 0-1900 m³/h (120 and 160) (inlet only; order 2 pieces for both fans)	UVC 90 1200-1600	X	X	V
	REC D9 1200-1600			
Constant flow control (inlet only; order 2 pieces for both fans)	UVC 90 from 2200 and above	0-3500 m³/h (2200)		
		0-4650 m³/h (3000 - 3200)	X	X
		0-5800 m³/h (4000)		
	REC D9 from 2200 EC and above	0-7400 m³/h (5000)		
		0-9000 m³/h (8000)		

Accessory compatibility key: **X**= non compatible | **0**= partial compatibility (compatible with unit but not managed) | **V**= total compatibility

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
IP 55 control panel (Mandatory for external installations)	UVC 90 from 350 to 2200	V	V	V
	(UVC 90 3200 standard supply)			
	REC D9 EC from 500 to 2200			
	3000, 4000, 5000, 8000 standard supply			
Cover for outdoors for REC D9 800 horizontal (configuration from B1 to B8)	REC D9 800 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 800 vertical (configuration V1 or V5)	REC D9 800 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 1200 horizontal (configuration from B1 to B8)	REC D9 1200 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 1200 vertical (configuration V1 or V5)	REC D9 1200 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 1600 horizontal (configuration from B1 to B8)	REC D9 1600 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 1600 vertical (configuration V1 or V5)	REC D9 1600 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 2200 horizontal (configuration from B1 to B8)	REC D9 2200 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 2200 vertical (configuration V1 or V5)	REC D9 2200 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 3000 horizontal (configuration from B1 to B8)	REC D9 3000 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 3000 vertical (configuration V1 or V5)	REC D9 3000 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 4000 horizontal (configuration from B1 to B8)	REC D9 4000 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 4000 vertical (configuration V1 or V5)	REC D9 4000 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 5000 horizontal (configuration from B1 to B8)	REC D9 5000 EC (configuration from B1 to B8)		-	
Cover for outdoors for REC D9 5000 vertical (configuration V1 or V5)	REC D9 5000 EC (configuration V1 or V5)		-	
Cover for outdoors for REC D9 8000 vertical (configuration V1 or V5)	REC D9 8000 EC (configuration V1 or V5)		-	
Roof UVC 90 350 - 500 HB	UVC 90 350 - 500 HB		-	
Roof UVC 90 350 - 500 HP	UVC 90 350 - 500 HP		-	
Roof UVC 90 800 HB	UVC 90 800 HB		-	
Roof UVC 90 800 HP	UVC 90 800 HP		-	
Roof UVC 90 1200 HB	UVC 90 1200 HB		-	
Roof UVC 90 1200 HP	UVC 90 1200 HP		-	
Roof UVC 90 1600 HB	UVC 90 1600 HB		-	
Roof UVC 90 1600 HP	UVC 90 1600 HP		-	
Roof UVC 90 2200 HB	UVC 90 2200 HB		-	
Roof UVC 90 2200 HP	UVC 90 2200 HP		-	
Roof UVC 90 3200 HP	UVC 90 3200 HP		-	

Accessory compatibility key: **X**= non compatible | **O**= partial compatibility (compatible with unit but not managed) | **V**= total compatibility

Heat recovery units / VMC / Air treatment

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
Electric heating element Ø125 0,5kW 230V 1F 1 stage (thermostat -30+30°C)	UVC 90 150	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø125 0,5kW 230V 1F (adjustment 0-10V)	UVC 90 150	X	X	V
Electric heating element Ø160 0,75kW 230V 1F 1 stage (thermostat -30+30°C)	UVC 90 220	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø160 0,75kW 230V 1F (adjustment 0-10V)	UVC 90 220	X	X	V
Electric heating element Ø160 1kW 230V 1F 1 stage (thermostat -30+30°C)	UVC 90 350	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø160 1kW 230V 1F (adjustment 0-10V)	UVC 90 350	X	X	V
Electric heating element Ø200 1,5kW 230V 1F 1 stage (thermostat -30+30°C)	UVC 90 500	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø200 1,5kW 230V 1F (adjustment 0-10V)	UVC 90 500	X	X	V
Electric heating element Ø250 2kW 230V 1F 2 stages (thermostat -30+30°C)	UVC 90 800	V managed with integrated thermostat	V managed with integrated thermostat	V
	REC D9 800			
Electric heating element Ø250 2kW 230V 1F (adjustment 0-10V)	UVC 90 800	X	X	V
	REC D9 800			
Electric heating element Ø315 3kW 400V 3F 2 stages (thermostat -30+30°C)	UVC 90 1200	V managed with integrated thermostat	V managed with integrated thermostat	V
	REC D9 1200			
Electric heating element Ø315 3kW 400V 3F (adjustment 0-10V)	UVC 90 1200	X	X	V
	REC D9 1200			
Electric heating element Ø315 4kW 400V 3F 2 stages (thermostat -30+30°C)	UVC 90 1600	V managed with integrated thermostat	V managed with integrated thermostat	V
	REC D9 1600			
Electric heating element Ø315 4kW 400V 3F (adjustment 0-10V)	UVC 90 1600	X	X	V
	REC D9 1600			
Electric heating element Ø355 6kW 400V 3F 2 stages (thermostat -30+30°C)	UVC 90 2200	V managed with integrated thermostat	V managed with integrated thermostat	V
	REC D9 2200			
Electric heating element Ø355 6kW 400V 3F (adjustment 0-10V)	UVC 90 2200	X	X	V
	REC D9 2200			
Electric heating element Ø400 12kW 400V 3F 2 stages (thermostat -30+30°C)	UVC 90 3200	V managed with integrated thermostat	V managed with integrated thermostat	V
	REC D9 3000			
Electric heating element Ø400 12kW 400V 3F (adjustment 0-10V)	UVC 90 3200	X	X	V
	REC D9 3000			
Electric heating element Ø400 16kW 400V 3F 2 stages (thermostat -30+30°C)	REC D9 4000	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø400 16kW 400V 3F (adjustment 0-10V)	REC D9 4000	X	X	V
Electric heating element Ø450 16kW 400V 3F 2 stages (thermostat -30+30°C)	REC D9 5000	V managed with integrated thermostat	V managed with integrated thermostat	V
Electric heating element Ø450 16kW 400V 3F (adjustment 0-10V)	REC D9 5000	X	X	V

Accessory compatibility key: **X**= non compatible | **O**= partial compatibility (compatible with unit but not managed) | **V**= total compatibility

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
Hot/cold water coil 150 m³/h and 1kW (1/2" connections)	UVC 90 150	0 not managed	0 not managed	V
Hot/cold water coil 220 m³/h and 1.6kW (1/2" connections)	UVC 90 220	0 not managed	0 not managed	V
Hot/cold water coil 350 m³/h and 2.2kW (1/2" connections)	UVC 90 350	0 not managed	0 not managed	V
Hot/cold water coil 500 m³/h and 3.2kW (1/2" connections)	UVC 90 500	0 not managed	0 not managed	V
Hot/cold water coil 800 m³/h and 5.7kW (1/2" connections)	UVC 90 800	0 not managed	0 not managed	V
	REC D9 800			
Hot/cold water coil 1200 m³/h and 7.8kW (3/4" connections)	UVC 90 1200	0 not managed	0 not managed	V
	REC D9 1200			
Hot/cold water coil 1600 m³/h and 9.7kW (3/4" connections)	UVC 90 1600	0 not managed	0 not managed	V
	REC D9 1600			
Hot/cold water coil 2200 m³/h and 15kW (3/4" connections)	UVC 90 2200	0 not managed	0 not managed	V
	REC D9 2200			
Hot/cold water coil 3200 m³/h and 22kW (1" connection)	UVC 90 3200	0 not managed	0 not managed	V
	REC D9 3000			
Hot/cold water coil 4000 m³/h and 29kW (1" connection)	REC D 9 4000	0 not managed	0 not managed	V
Hot/cold water coil 5000 m³/h and 31kW (1" connection)	REC D 9 5000	0 not managed	0 not managed	V

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
2-way servovalve on-off (230V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
3-way servovalve on-off (230V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
2-way servovalve on-off (230V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
3-way servovalve on-off (230V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
2-way servovalve on-off (230V), 1" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
3-way servovalve on-off (230V), 1" connections	All UVC 90 and REC D9 based on connection Ø	0 not managed	0 not managed	V
2-way servovalve 0-10V (24V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (24V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (24V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (24V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (24V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (24V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V

Accessory compatibility key: **X**= non compatible | **O**= partial compatibility (compatible with unit but not managed) | **V**= total compatibility

Heat recovery units / VMC / Air treatment

Accessory	Unit pairing	Control compatibility		
		4V board (S4) Potentiometer (Pt) 3 speeds (3V)	3 speeds EVO (3E)	Electronics (SE), (EL), (EB) or (ET)
2-way ball servovalve 0-10V (24V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (24V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (24V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (24V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (24V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (24V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (24V), 1 1/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (24V), 1 1/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (24V), 1 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (24V), 1 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (24V), 2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (24V), 2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (230V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (230V), 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (230V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (230V), 3/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (230V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (230V), 1" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (230V), 1 1/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (230V), 1 1/4" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way ball servovalve 0-10V (230V), 1 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way ball servovalve 0-10V (230V), 1 1/2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
2-way servovalve 0-10V (230V), 2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V
3-way servovalve 0-10V (230V), 2" connections	All UVC 90 and REC D9 based on connection Ø	X	X	V

Accessory compatibility key: **X**= non compatible | **O**= partial compatibility (compatible with unit but not managed) | **V**= total compatibility