

ROTO K 1700 H WDJR

139818

- Compact air handling unit with rotary heat exchanger
- Horizontal connections, version right
- Frameless, double wall housing made of galvanized steel sheet, insulated
- Constant air flow EC fans, integrated controls
- Warm water heating, DX cooling
- Panel Filter F7/M5
- For indoor and outdoor installation (optional accessories)



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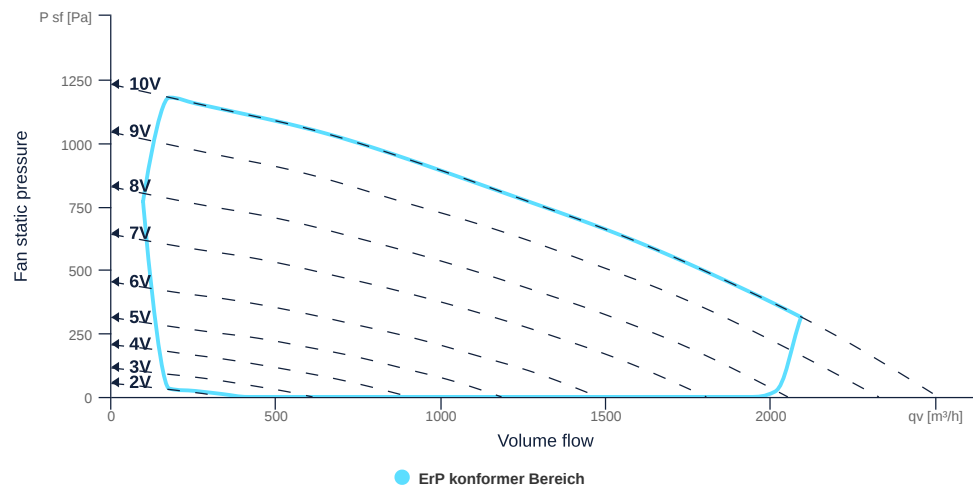
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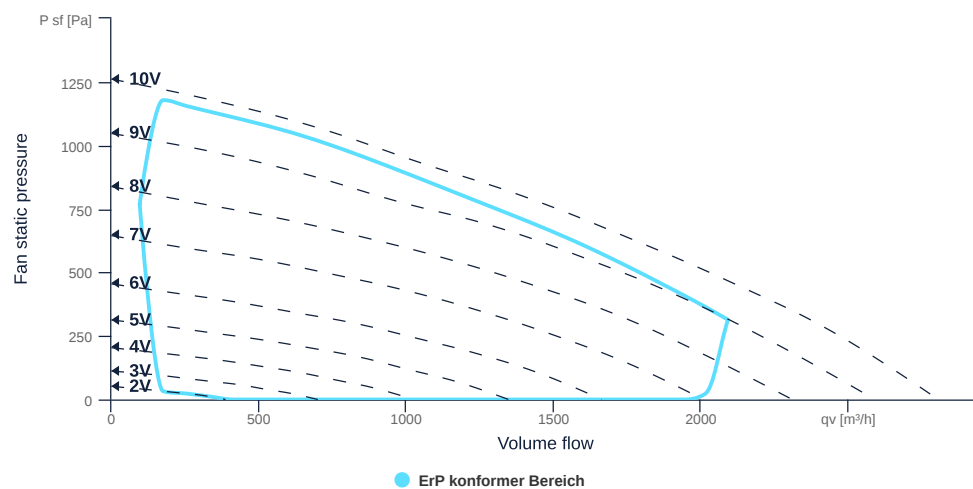
MAP

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



EXTRACT AIR MAP

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	700x300		WxD _{duct}
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3-N		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
IP-protection class (casing)	IP41		IP _{casing}
IP-protection class (entire device)	IP44		IP _{compl}
Weight	254	kg	m
Nominal air flow rate, nominal point m³/h	1519.2	m³/h	q _{v,nom}
Nominal external pressure, static	649	Pa	p _{s,nom}
Connection side supply air	Right		L/R
Type of the ventilation-unit	BVU - supply air		AHU _{type}
Type of heat-recovery-system	regenerative		HRS _{type}
Type of the heater	Hot water		H _{type}
Type of cooler	Evaporator		C _{type}
Outdoor installation	Yes, up to -20°C		outdoor
Speed control	variable speed control		VSD _{type}
Filter class extract air	ISO ePM10 50%		F _{class, eta}
Filter class supply air	ISO ePM1 55%		F _{class, sup}

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Energy performance supply air filter	E		
Energy performance extract air filter	E		
Thermal efficiency HRS, Nominal-point	74.9	%	t _{NRVU}
Nominal air flow rate, nominal point m³/s	0.42	m³/s	q _{v,nom}
Actual electrical input power, nominal point	1.42	kW	P _{e,nom}
Internal specific fan power, nominal point	1089	Ws/m³	SFP _{int}
Face velocity, nominal point	1.55	m/s	v _{nom}
Nominal external pressure, static	649	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	62.1	%	η _{es,SUP}
static efficiency of the extract fan, nominal point	62.1	%	η _{es,EHA}
Highest external air leakage rate	1.97	%	
Enclosure sound level, nominal point	70	dB(A)	LWA2
Rating	Product is compliant 2018		



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MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1509	W	P _{ed, max}
Max. operating current (device)	3.37	A	I _{ed, max}
Max. speed	3670	1/min	n _{max}
Max. stat. efficiency	37.6	%	η _{es}
Max. fan efficiency	37.7	%	η _e
Max. flowrate	2500	m³/h	q _{v, max}
Max. stat pressure	1230	Pa	p _{sf, max}
Max. medium temperature	40	°C	T _{m, max}
Max. environment temperature	40	°C	T _{amb, max}
Min. environment temperature	-25	°C	T _{amb, min}
Min. voltage	230	V	U _{min}

FILTER DATA

Name	Value	Unit	Formula symbol
Degree of separation (supply air)	55	%	
Degree of separation (extract air)	50	%	
Filter group (extract air)	ISO ePM10		
Filter group (supply air)	ISO ePM1		

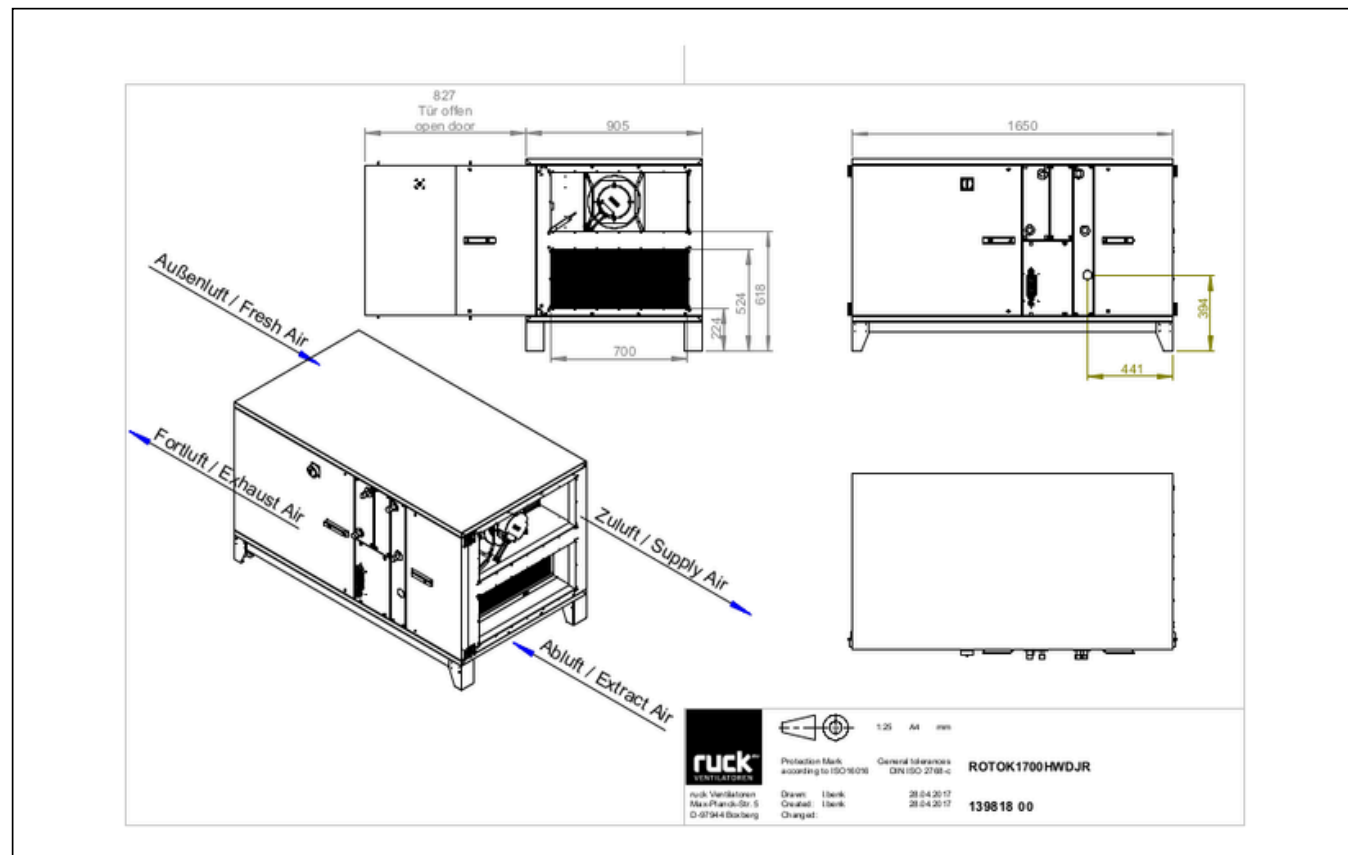


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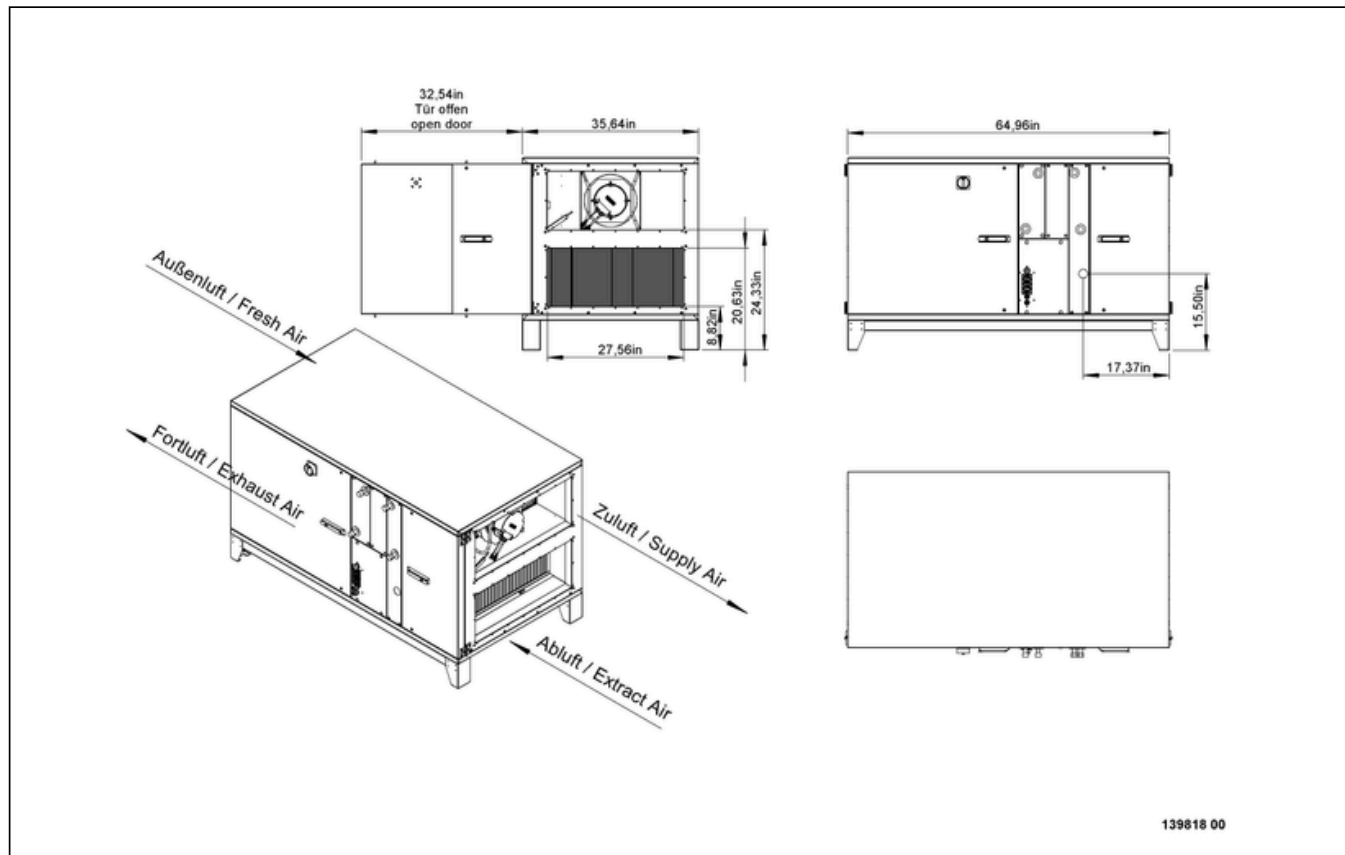
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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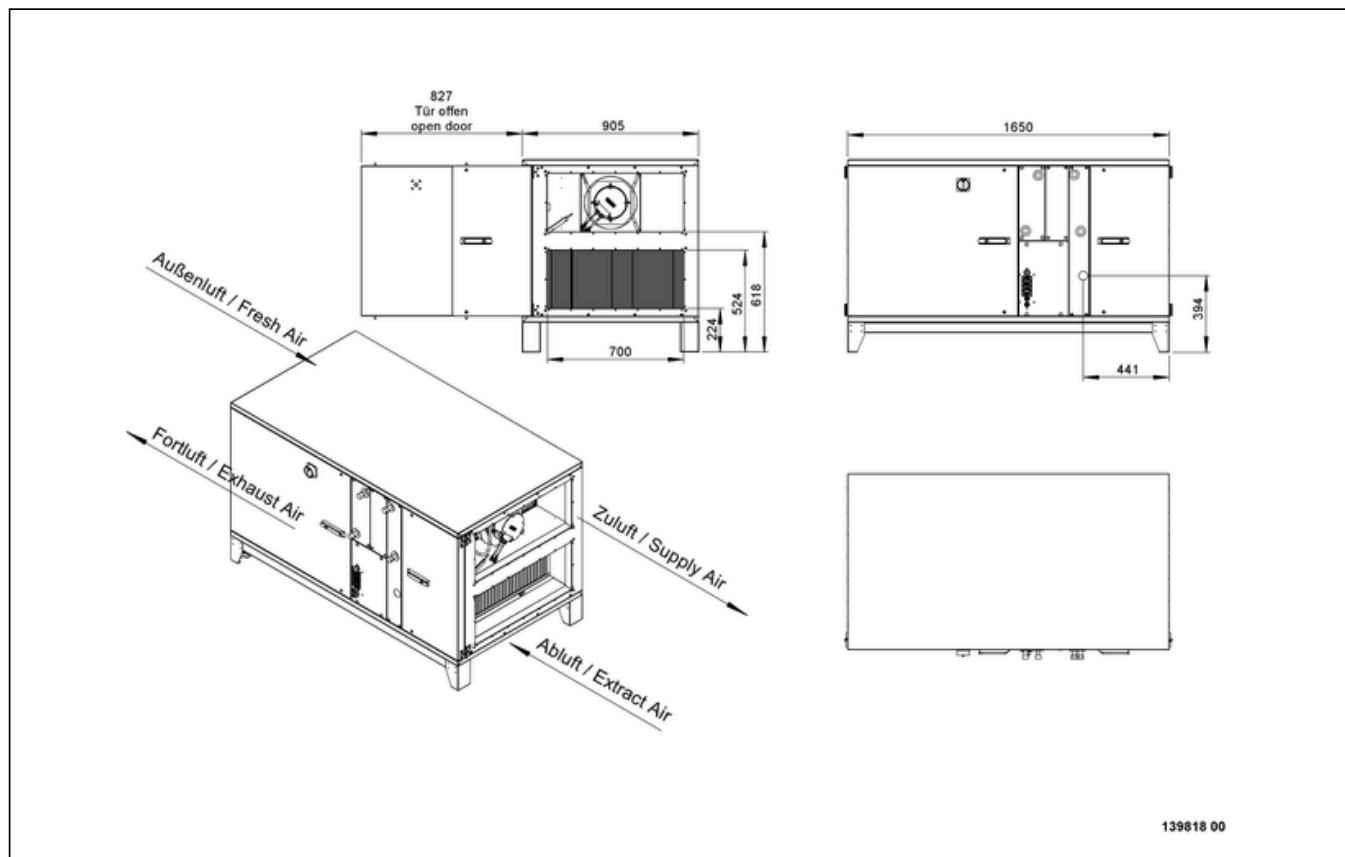
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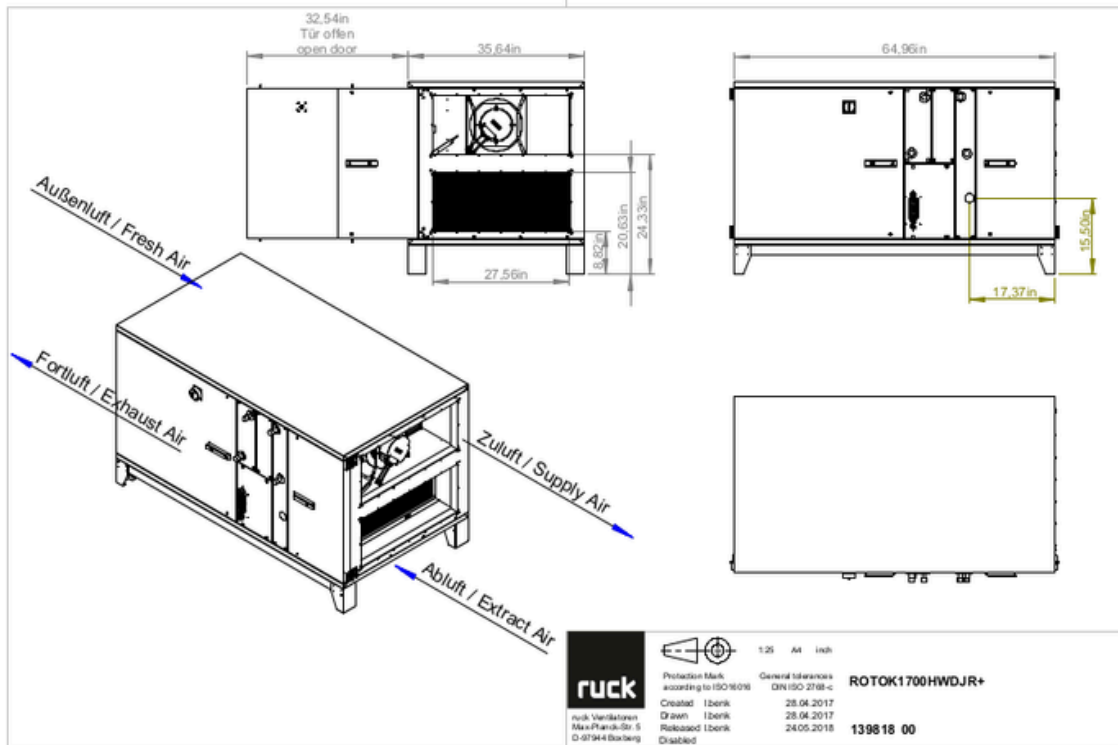
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MECHANICAL ACCESSORIES

VS 7030 | 141359



- Duct connector, flexible
- Standard profile flange P20
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C

MAK R 1700 H02 | 140978



- Motor shut-off flap
- With actuator 3-point-control, connection cable 1 m long
- Combined outdoor and exhaust air multileaf damper
- Galvanized steel sheet housing

SYS 02 | 125204



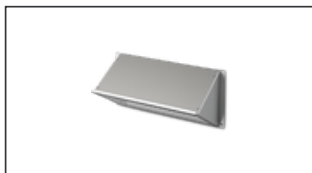
- Ball siphon
- Type suction side

RD ROTO 1700 H | 141137



- Rain cover for outdoor installation
- Galvanized steel sheet

WSH ROTO K 1700 H | 142535



- Weather protection hood
- Galvanized steel sheet

MAK R 1700 H01 | 140977



- Motor shut-off flap
- With spring return (VDI 6022)
- Combined outdoor and exhaust air multileaf damper
- Galvanized steel sheet housing

LFP 46 ISO ePM10 50% | 168838



- Air filter panel
- ISO ePM10 50%
- 800x340x96 mm

LFP 46 ISO ePM1 55% | 168841



- Air filter panel
- ISO ePM1 55%
- 800x340x96 mm



ELECTRICAL ACCESSORIES

121620 | 121620



- 3-way ball-valve with actuator 230 V
- With actuator: Control 3-punct or ON/OFF
- Connections internal thread 1/2 ``
- Temperature range 0 °C...+50 °C

EHM 6030 R09 01 | 121427



- Electric heating module 60/30, 9 kW
- Steady temperature control
- Automatic device detection
- Connection side in supply air direction right

EHM 6030 L09 01 | 121428



- Electric heating module 60/30, 9 kW
- Steady temperature control
- Automatic device detection
- Connection side in supply air direction left

COM 02-OPTION | 128549



- Extension board
- For connecting several ventilation units via Modbus
- Switchable terminating resistor
- Switchable pull-up and pull-down resistor

SEN RAUCH 02 | 148637



- Duct smoke sensor
- Contamination display in % and message at 70 %
- 1 Switching contact, 8 A, 250 V AC 1 nc, 8 A, 250 V AC
- Supply flow 1 - 20 m/s

SEN TEMP | 148639



- Duct temperature sensor
- Measuring range -50...+150 °C
- NTC 5k
- Incl. mounting clip, mounting screws

SEN P1000 | 126080



- Differential pressure sensor
- P-control, PV-control
- P = 2 pcs. required, PV = 1 pcs. required

SEN RH | 148636



- Humidity sensor
- Humidity 0...100 % rH
- Output 2 x 0-10V
- 15...24Vdc, max 0,3 W

SEN RAUCH 01 | 148638



- Duct smoke sensor
- Contamination display in % and message at 70 %

SEN CO2 03 | 168178



- CO2 sensor for demand based volume flow control
- Supply voltage 24 V
- Output 0-10 V DC
- Protection class IP 20

SEN CO2 02 | 168750



- Sensor for demand-based volume flow control
- 24 V AC $\pm$ 20 %, 15 - 35 V DC or 19 - 29 V AC
- Output 0 - 10 V DC
- Measurement 0 - 2000 ppm CO2

