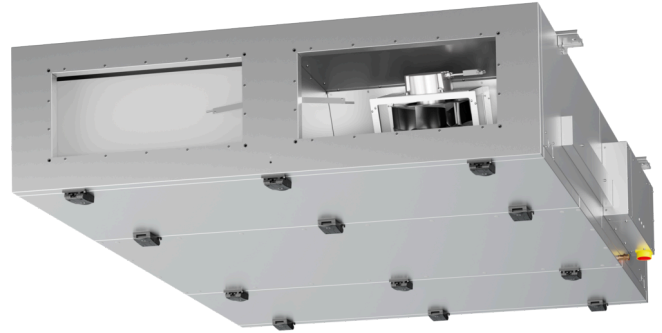


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- Flat air handling unit with counter flow heat exchanger
- Ceiling mounting, version left
- Frameless, double wall housing made of galvanized steel sheet, insulated
- Constant air flow EC fans, integrated controls
- Automatic summer bypass
- Supplied with electric heater for external installation in duct, without cooling, panel filter F7/M5
- Constructed acc. to VDI 6022



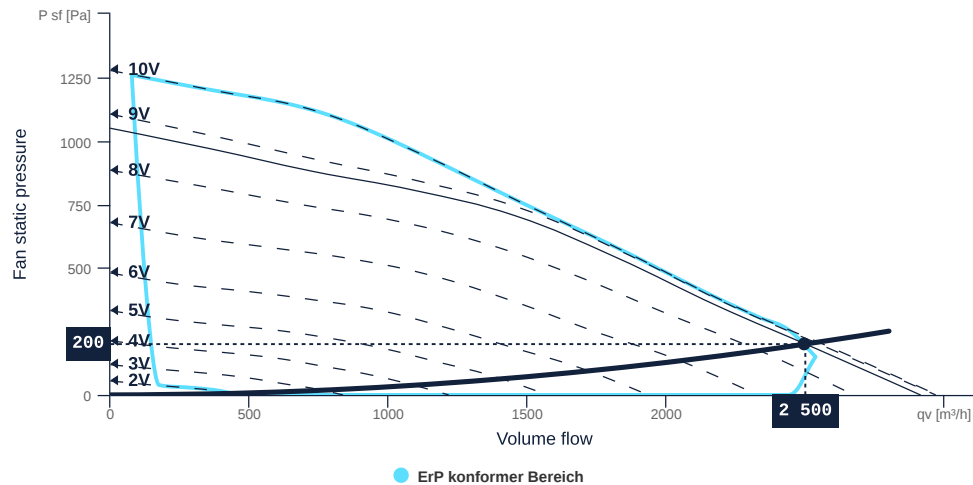
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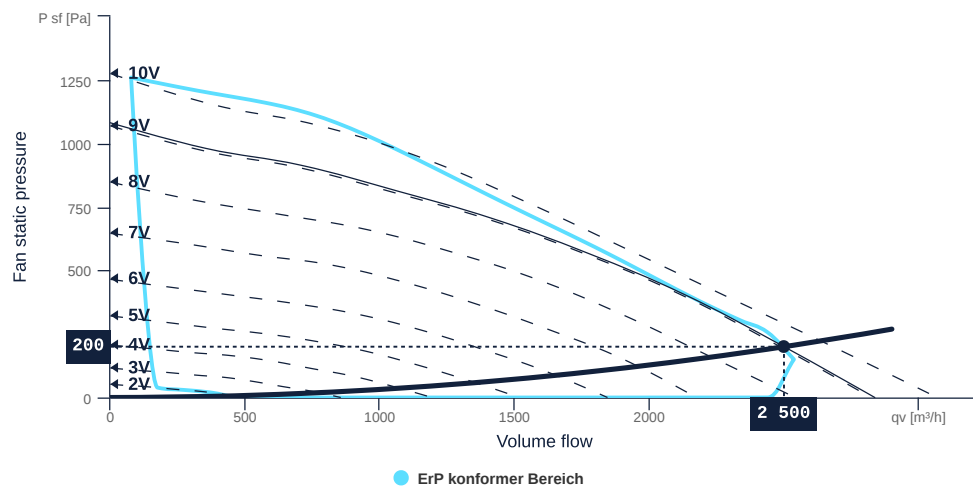
MAP

Name	Value	Unit
Volume flow	2500	m³/h
Pressure	200	Pa



EXTRACT AIR MAP

Name	Value	Unit
Volume flow	2500	m³/h
Pressure	200	Pa



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HEAT RECOVERY SUMMER

Name	Value	Unit
Outside air temperature	32	°C
Temperature exhaust air	24	°C
Relative humidity outside air	40	%
Relative humidity exhaust air	40	%

HEAT RECOVERY WINTER

Name	Value	Unit
Outside air temperature	-12	°C
Temperature exhaust air	22	°C
Relative humidity outside air	90	%
Relative humidity exhaust air	40	%

HEAT RECOVERY

Name	Value		Unit	Formula symbol
	summer	winter		
Supply air temperature	25.65	17.55	°C	T_{sup}
Supply air relative humidity	58	10	%	ϕ_{sup}
Transferred power	5.37	24.8	kW	Q
Efficiency	79.4	86.9	%	η
Air pressure drop	133	133	Pa	Δp_v

HEATER ELECTRICAL

Name	Value	Unit
Height above sea level	0	m
Intake air temperature	10	°C
Outlet air temperature	22	°C

Name	Value	Unit	Formula symbol
Supply air temperature	22.0	°C	T_{sup}
Transferred power	10.0	kW	Q
Power max.	18.0	kW	P_{max}
Air pressure drop	114	Pa	Δp_v



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TECHNICAL SPECIFICATIONS

Name	Value	Unit	Formula symbol
Volumetric flow (supply air)	2500	m³/h	QVsup
Volumetric flow (extract air)	2500	m³/h	qVeta
Static pressure (supply air)	200	Pa	dpSext sup
Static pressure (extract air)	200	Pa	dpSext eta
Control voltage (supply air)	8	V	Uctrl sup
Rotation speed (supply air)	2748	1/min	Nsup
Control voltage (extract air)	9	V	Uctrl eta
Rotation speed (extract air)	2857	1/min	Neta
SFP (entire device)	1963	W/(m³/s)	sfpdevice
Current consumption Electric	5	A	Ied
Electrical power consumption	1363	W	Pedk
Sound power level outdoor air	63	dB(A)	LWAoda
Sound power level supply air	84	dB(A)	LWAAsup
Sound power level extract air	67	dB(A)	LWAeta
Sound power level exhaust air	87	dB(A)	LWAeha
Sound power level housing	61	dB(A)	LWA casing

SOUND DATA

Sound power	mid-frequency tape										Unit	Formula symbol
	Σ	63	125	250	500	1000	2000	4000	8000	16000		
outside air	64	40	46	59	58	55	57	47	41	11	dB(A)	LWAoda
supply air	84	49	58	78	76	78	77	73	74	51	dB(A)	LWAAsup
exhaust air	68	52	51	61	64	58	61	49	43	16	dB(A)	LWAeta
exhaust air	87	54	61	81	79	81	81	76	76	53	dB(A)	LWAeha
housing	62	44	50	60	52	50	48	42	42	14	dB(A)	LWA casing

SOUND PRESSURE LEVEL CALCULATOR

Name	Value	Unit
Enveloping surface	Halphsphere	
Distance	3	m

Sound pressure	NR	mid-frequency tape										Unit	Formula symbol
		Σ	63	125	250	500	1000	2000	4000	8000	16000		
outside air	41	46	23	28	41	40	38	40	30	23	0	dB(A)	LWAoda
supply air	63	67	32	40	61	58	60	60	56	57	34	dB(A)	LWAAsup
exhaust air	31	36	29	33	25	25	25	24	18	11	0	dB(A)	LWAeta
exhaust air	43	48	29	40	37	39	43	41	34	26	8	dB(A)	LWAeha
housing	38	41	26	32	39	32	29	28	22	21	3	dB(A)	LWA casing



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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	700x300		WxD _{duct}
Rated voltage (entire device)	230	V	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	10 A		fuse
Housing material	Galvanized steel		mat _{casing}
IP-protection class (casing)	IP41		IP _{casing}
IP-protection class (entire device)	IP41		IP _{compl}
Weight	355	kg	m
Nominal air flow rate, nominal point m³/h	1494	m³/h	q _{v,nom}
Nominal external pressure, static	713.2	Pa	p _{s,nom}
Connection side supply air	Left		L/R
Type of the ventilation-unit	BVU - supply air		AHU _{type}
Type of heat-recovery-system	recuperative		HRS _{type}
Type of the heater	Electrical		H _{type}
Type of cooler	No		C _{type}
Outdoor installation	No		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	82.6	%	t _{NRVU}
Nominal air flow rate, nominal point m³/s	0.42	m³/s	q _{v,nom}
Actual electrical input power, nominal point	1.27	kW	P _{e,nom}
Internal specific fan power, nominal point	625.1	Ws/m³	SFP _{int}
Face velocity, nominal point	1.1	m/s	v _{nom}
Nominal external pressure, static	713.2	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	65.8	%	η _{es,SUP}
static efficiency of the extract fan, nominal point	65.8	%	η _{es,EHA}
Highest external air leakage rate	0.64	%	
Highest internal air leakage rate	7.76	%	
Enclosure sound level, nominal point	63	dB(A)	LWA2
Rating	Product is compliant 2018		



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MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1600	W	$P_{ed, max}$
Max. operating current (device)	7	A	$I_{ed, max}$
Max. speed	3400	1/min	n_{max}
Max. stat. efficiency	42	%	η_{es}
Max. fan efficiency	42.1	%	η_e
Max. flowrate	2975	m ³ /h	$q_{v, max}$
Max. stat pressure	1280	Pa	$p_{sf, max}$
Max. medium temperature	40	°C	$T_{m, max}$
Max. environment temperature	40	°C	$T_{amb, max}$
Min. environment temperature	-20	°C	$T_{amb, min}$

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		

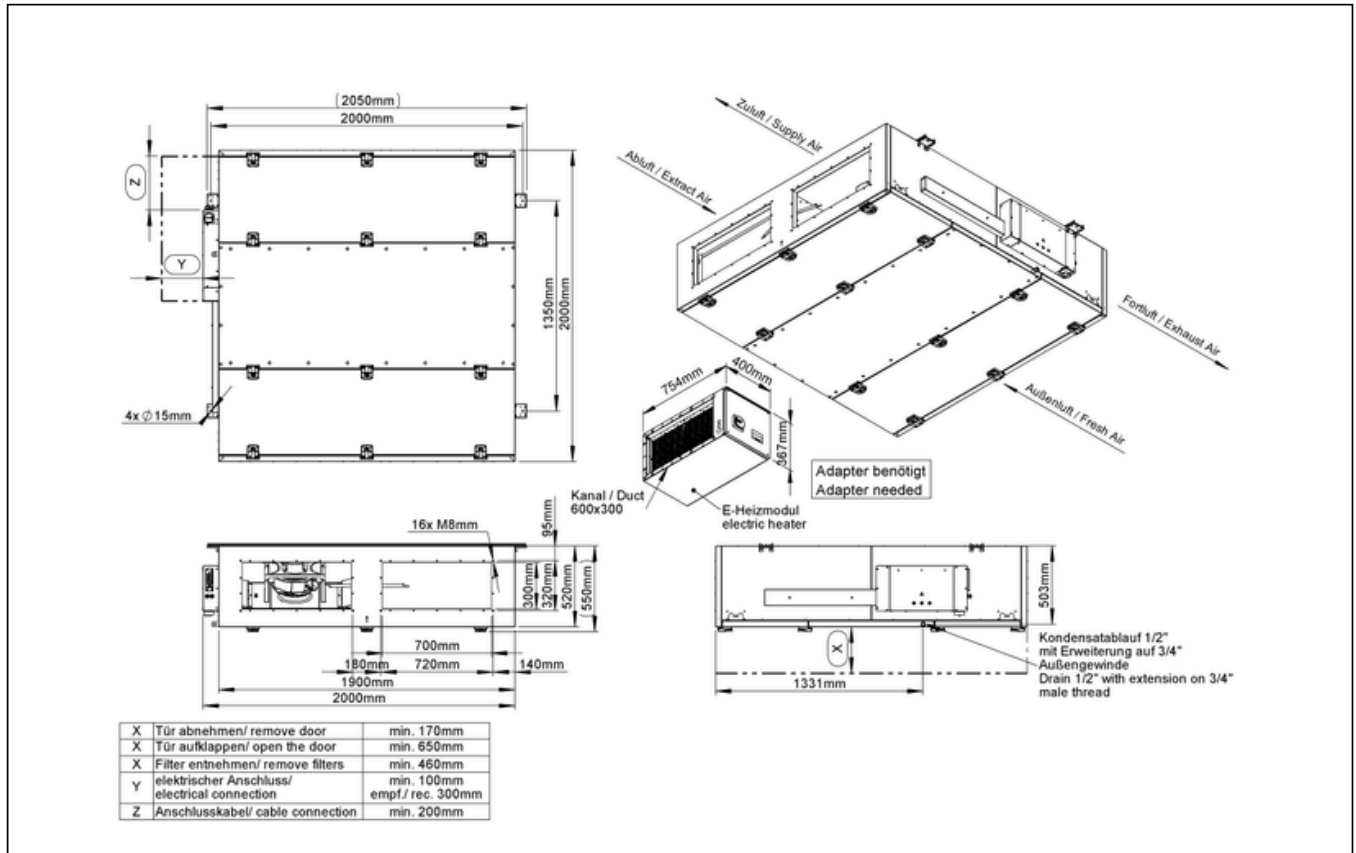
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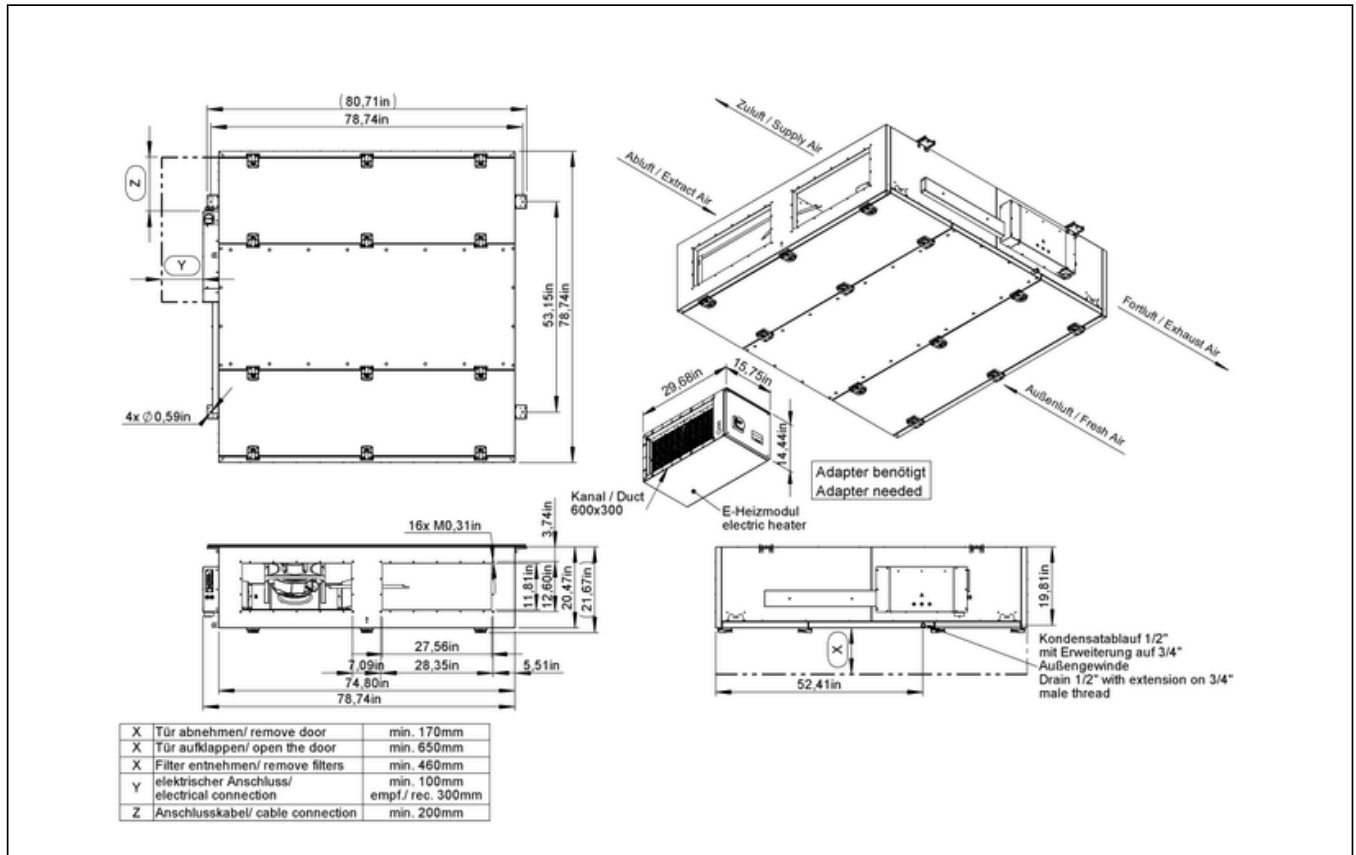
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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Zukunft / Supply Air
Abluft / Extract Air
Fortluft / Exhaust Air
Außenluft / Fresh Air

Kanal / Duct 600x300
 Adapter benötigt
 Adapter needed
 E-Heizmodul
 electric heater
 Kondensatablauf 1/2" mit Erweiterung auf 3/4" Außengewinde
 Drain 1/2" with extension on 3/4" male thread

X	Tür abnehmen/ remove door	min. 170mm
X	Tür aufklappen/ open the door	min. 650mm
X	Filter entnehmen/ remove filters	min. 460mm
Y	elektrischer Anschluss/ electrical connection	empf./ rec. 300mm
Z	Anschlusskabel/ cable connection	min. 200mm

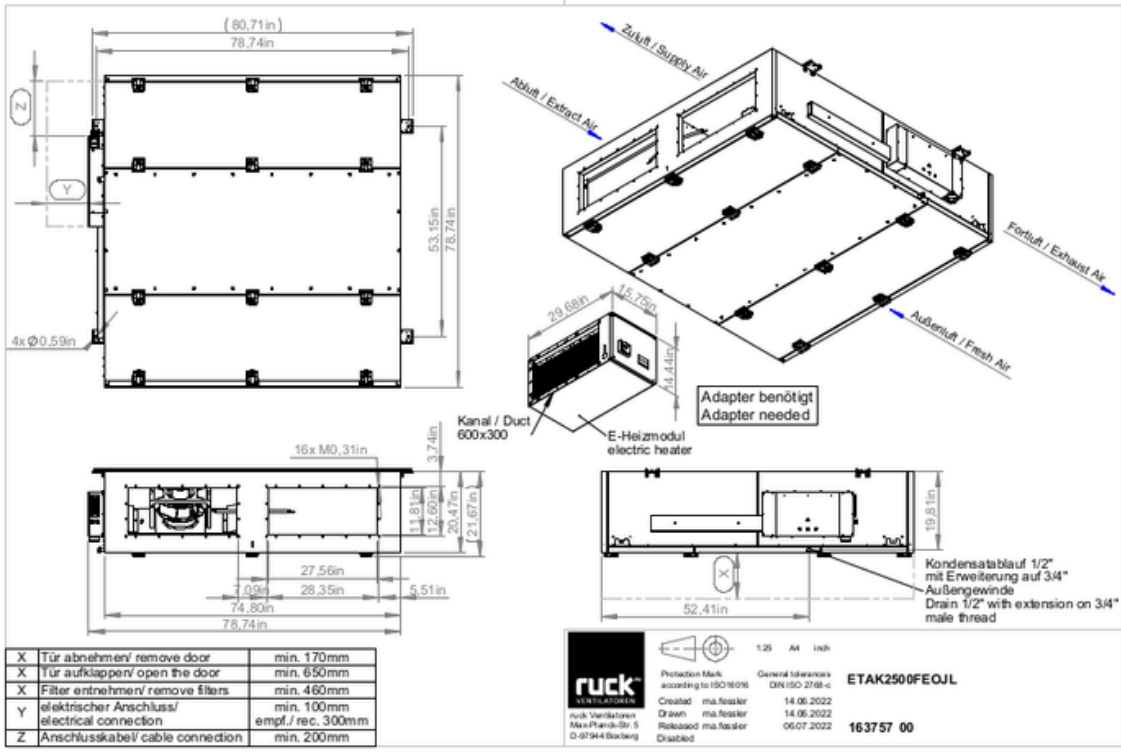
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 VENTILATOREN
 ruck Ventilatoren
 Max-Planck-Str. 5
 D-97944 Boxberg

Protection Mark according to ISO 9006
 Created: ma.fessler 14.06.2022
 Drawn: ma.fessler 14.06.2022
 Released: ma.fessler 06.07.2022
 Disabled

1:25 A4 mm
 General tolerances DIN ISO 2768-c
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