

KLIMAOPREMA Polska Sp. z o.o.

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PL 06-100 PULTUSK

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Order **317-077** TP
last modify **20-09-14**
Project **KLINIKA CIECHANOW**
Position **podwiesz**
System

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BE: **115-2020-G**



SAVE THE ENVIRONMENT: Before printing, think about the environment. Thanks!

Model	Standard modular AHU		
Installation	Standard indoor	Type	KU 3-M-LU50S-S
Execution	A - Supply air unit	Casing	THOR TB2
Voltage	3x400 V / 50 Hz	motor speed steps	100 %
		Quantity	1 Pcs

Casing data			
Panel thickness [mm]	50,0		
Panel outside	galvanized layer coated		RAL 7035 GL S
Panel inside	galvanized steel		
Panel inside bottom	galvanized steel		
Profiles	aluminium coated		
Guides	galvanized steel		
Insulation	Rockwool		
Energy efficiency		Mechanical and thermal characteristics	
Energy efficiency class	E (2016)	Mechanical stability class	D1(M)
used lowest temperature [°C]	-18,00	Casing leakage class at -400 Pa	L1(M)
Specific fan power, validation [W/(m3/s)]	539		
		Casing leakage class at +700 Pa	L1(M)
		Filter bypass leakage class	F9
		Thermal transmittance	T2
Mixing ratio	0 %	Thermal bridging factor	TB2
ECODESIGN	Non-residential ventilation unit	NRVU	Regulation EU 1253
ErP Ready exclusion	No exclusion		

Supply air			
Size	KU 3	Velocity class	V1
Airflow [m³/h]	1 710	Air vel.at unit cr-s [m/s]	1,24
Ext. pressure [Pa]	200	Specific fan power [W/(m3/s)]	539
Tot. pressure [Pa]	300	SFP Class	SFP2
		Power class	P1

Position		podwiesz	System		Order	317-077			TP
F	Filter		Material		* -/-		Pressure drop		67 Pa
Bag Filter		Class ISO16890	ePM1 60%		Type	Hi-Flo P 520mm F7			
Airflow [m³/h]			1 710		Bag length [mm]	520,0			
Filter surface [m2]			6,20		Cells pcs x size [mm]				
initial pressure drop [Pa]			32						
recommended final pressure drop [Pa]			96						
Filter energy class			A		Filter media type	1 x 592 x 592 / 10 Glasfiber			
Energy consumption [kWh/a]			859		Class EN779	F7			
system of filter handling		Dirty air withdrawal			Filterframe	galvanized steel			
Door with lock					Door open direction		left		
Opening	Frontal full		Airflow	1 710 [m³/h]		Velocity	1,09 [m/s]		
Damper		Type	SER100AL02RD						
Actuated by	Lever	Mounted	Internally		Frame	Aluminium			
drive position	External	air velocity [m/s]	1,69		Blades	Aluminium			
Qta. Levers	1 x 2,140				Gears	PVC			
torque [Nm]		meet DIN							
Damper axle prepared for motor drive					Sealing class (EN1751)	4			
Flexible canvas			Type	FLC		Temperature [°C]	80,00		
flange size [mm]		20,0	Frame	galvanized steel					
1 Pcs		Grounding				Mounted		CASC08	

L	Empty section	Material	* -/-/-		
Door with lock		Door open direction		left	

VF	Plug fan	Material	* -/-
EC fan		K3G310-PH38-06	Motor
Air volume [m³/h]		1710	Protection
external pressure drop [Pa]		200	Insulation class
Internal pressure drop [Pa]		87	Power [kW]
system effect [Pa]		0	Speed +-2% [1/m]
static pressure [Pa]		287	Rated current A
dynamic pressure drop [Pa]		13	Voltage
total pressure drop [Pa]		300	Absorbed power [kW]
Speed [1/m]		1 690	Efficiency class
Max. Speed rpm [1/m]		3 410	Nozzle pressure drop [Pa]
System efficiency [%]		47,83	
sound power level intake dB(A)		66,7	
sound power level outlet [dB(A)]		72,5	
Fan octave band sound power level Lokt / dB			
Okt. Frq. Hz	63	125	250
Inlet	60,0	63,6	60,3
Outlet	61,9	64,2	60,5

The fan system effect is taken into account in the fan performance

1 Pcs	Pressure sensor 0-5000 Pa 1301-1197-0050-000	Mounted	REGA01
3 set	cable inlet	Mounted	GENC01
1 set	Wiring of element to connection box	Mounted	ELC03
1 set	Thermistor protection	Mounted	MOTP01
3 set	cable inlet	Mounted	GENC01
1 set	Wiring thermistor protection to connection box	Mounted	ELC05
Door with lock		Door open direction	
		left	
1 Pcs	Grounding	Mounted	CASC08
<u>connection box</u>		D9020 IP65	
Safety isolator		RLO16/3PM-D1/Z33 SW/H11/ IP65	

Position	podwiesz	System	Order	317-077	TP
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Standard modular AHU

KU 3-M-LU50S-S

ECODESIGN

Non Residential unit

Regulation EU 1253

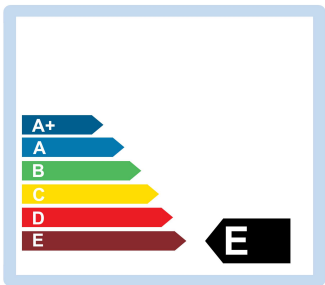


**ErP 2018
Ready**

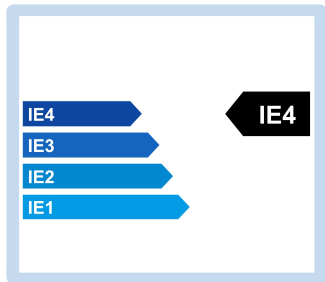
Calculation valid	Yes	
ErP Ready 2018	Yes	
	-	
specific fan power internal [W/(m ³ /s)]	67	
maximal specific fan power internal 2018 [W/(m ³ /s)]	230	
effective electric power input [kW]	0,285	
Nominal flow rate [m ³ /h]	1 710	0,47 [m³/s]
Minimum requested Efficiency 2018 [%]	34,2	
thermal efficiency [%]		
type of heat recovery system	-	
Motor and drive type	variable speed	
directional unit type	UVU	
face velocity at design flow rate [m/s]	1,24	
external leakage rate [%]	0,09	
internal pressure drop of ventilation components [Pa]	32	
external pressure drop [Pa]	200	
internal pressure drop of non-ventilation components [Pa]	23	
Efficiency base configuration U1 [%]	47,83	
Efficiency base configuration U2 [%]		

Standard modular AHU KU 3-M-LU50S-S

Energy efficiency class

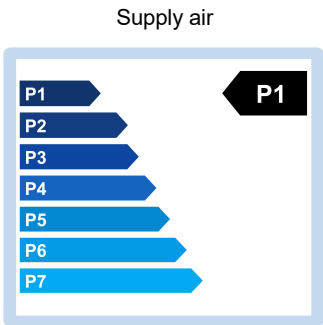


Energy efficiency

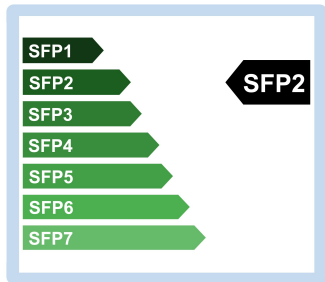


motor efficiency
IEC 60034-30-1:2014

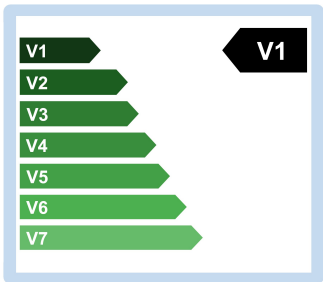
IE4 - Super Premium Efficiency



Power class
EN 13053

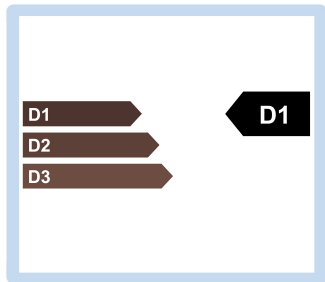


SFP Class, validation
EN 13779



Velocity class
EN 13053

Mechanical and thermal characteristics



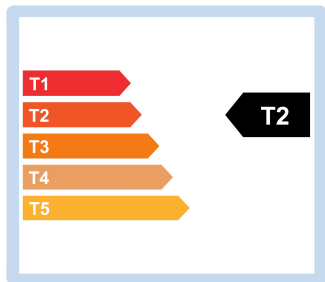
Mechanical stability class
EN 1886 (M)



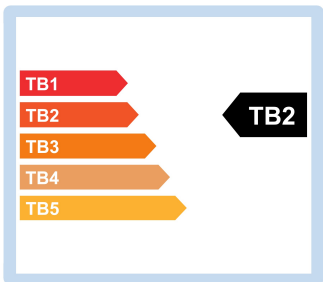
Casing leakage class at +400 Pa
EN 1886 (M)



Filter bypass leakage class
EN 1886



Thermal transmittance
EN 1886



Thermal bridging factor
EN 1886