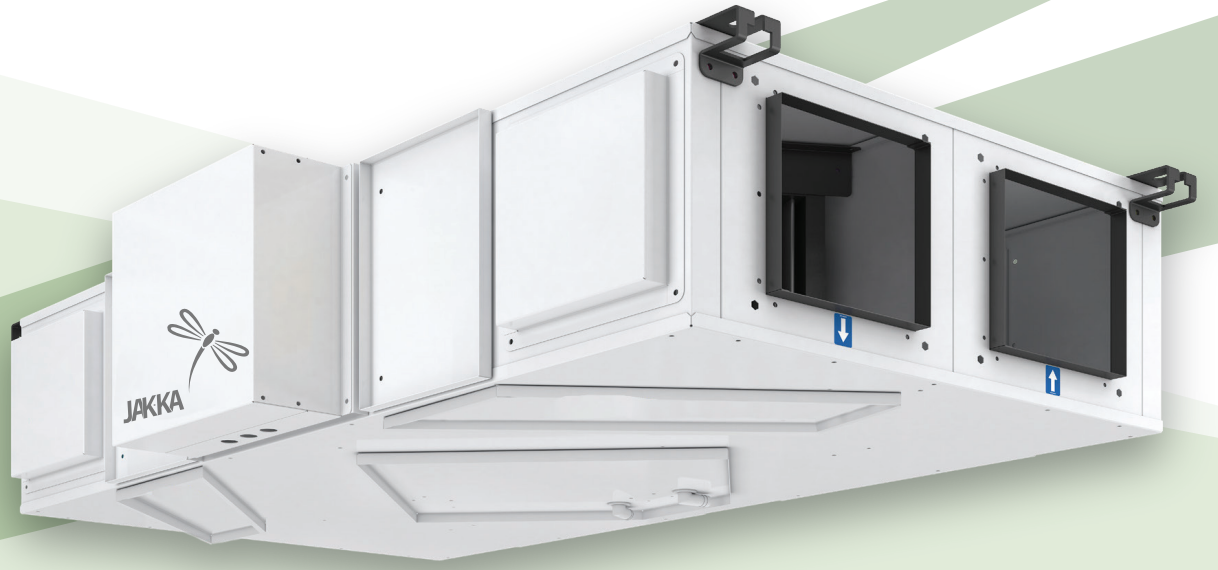
APRIL 2023

JAKKA REKUPERATOR
JRHB73



JAK-KA®

www.jakkagroup.com

Podaci u katalogu su informativnog karaktera. Jakka Group zadržava pravo promene cena i podataka bez prethodne najave. Za više informacija, pre konačne kupovine, kontaktirajte našu prodajnu službu.

Sadržaj

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CONTROLS 20

JRHB73



Materijal (kućište) / *Material (housing)*

Pocinkovani lim
Galvanized sheet

Efikasnost / *Efficiency*

do 74%
up to 74%

Opseg temperature / *Temperature range*

-12°C do/to +46°C.

Protok vazduha / Air flow

1.100-5400 m3/h

Napajanje / *Power supply*

220 / 400 V/50Hz

Izolacija / *Insulation*

10mm

Rekuperator toplote efikasnosti do 74%, sa by-passom. Namenjen za opštu ventilaciju, sa aluminijumskim izmenjivačem toplote i unakrsnim protokom vazduha.

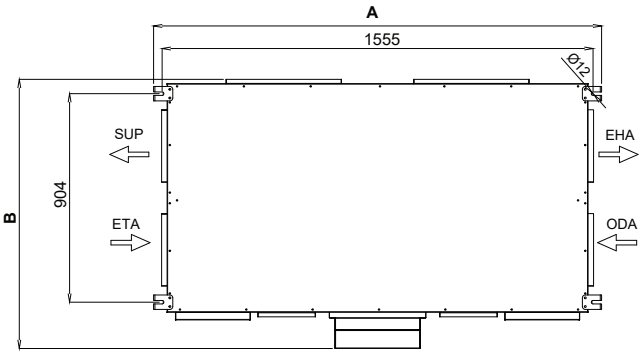
Heat exchange unit, up to 74% efficiency, with by-pass. Intended for general ventilation, with cross air flow aluminum heat exchanger plate.

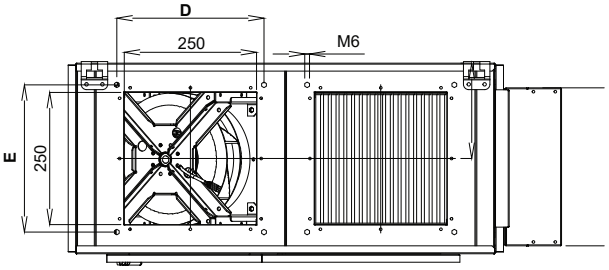
JR	H	B	73	1000-6000
Jakka rekuperator	Horizontalna izvedba	By-pass	Serija rekuperatora	Modeli (nazivni protok [m3/h]

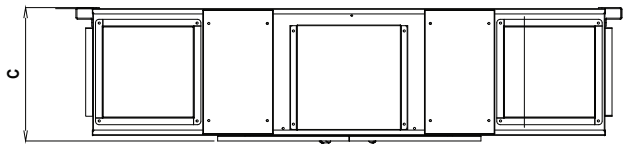
NAPOMENA: Rekuperatori nisu namenjeni za bazensku aplikaciju. Nisu namenjeni za rad u uslovima sa velikom koncentracijom vlage.
Heat exchange unit are not intended for pool application. They are not intended to work in conditions with a high concentration of moisture.

TEHNIČKI CRTEŽI
TECHNICAL DRAWINGS

JRHB73 / 1000





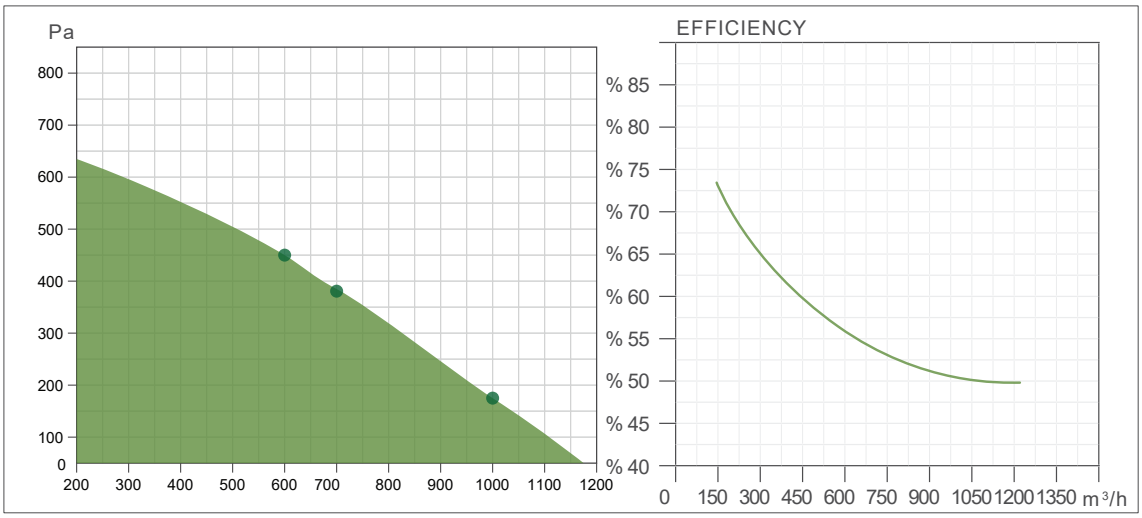


A: Ukupna dužina sa nosačima	[mm]	1614
B: Ukupna širina	[mm]	1115
C: Ukupna visina	[mm]	380
D: Dužina prirubnice	[mm]	278
E: Visina prirubnice	[mm]	278

Model izmenjivača Exchanger *model*	**TREX-CR-MS-600-252-002**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBB/2-250/084 M**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 1000

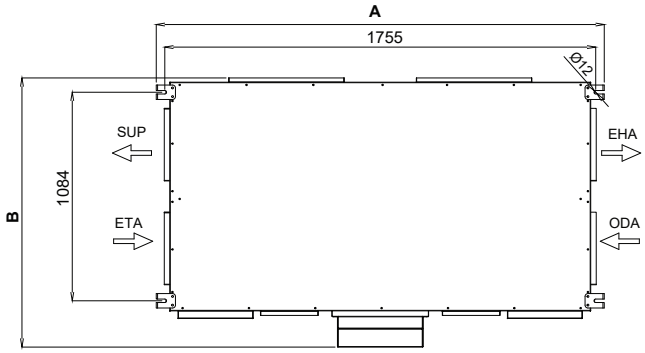


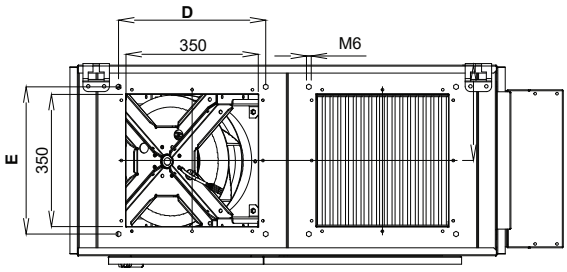
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**1160**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**812**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**52%**
Težina (kg) *Weight (kg)*	**75**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

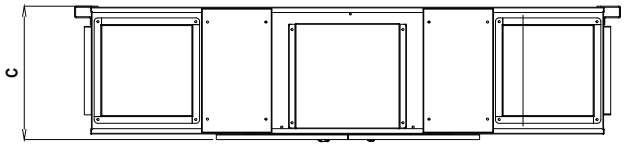
Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**230V 50 Hz**
Snaga (kw) *Total Power (kw)*	**0,44**
Maksimalna struja (A) *Maksimum current (A)*	**1,8**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**59**

TEHNIČKI CRTEŽI
TECHNICAL DRAWINGS

JRHB73 / 2000





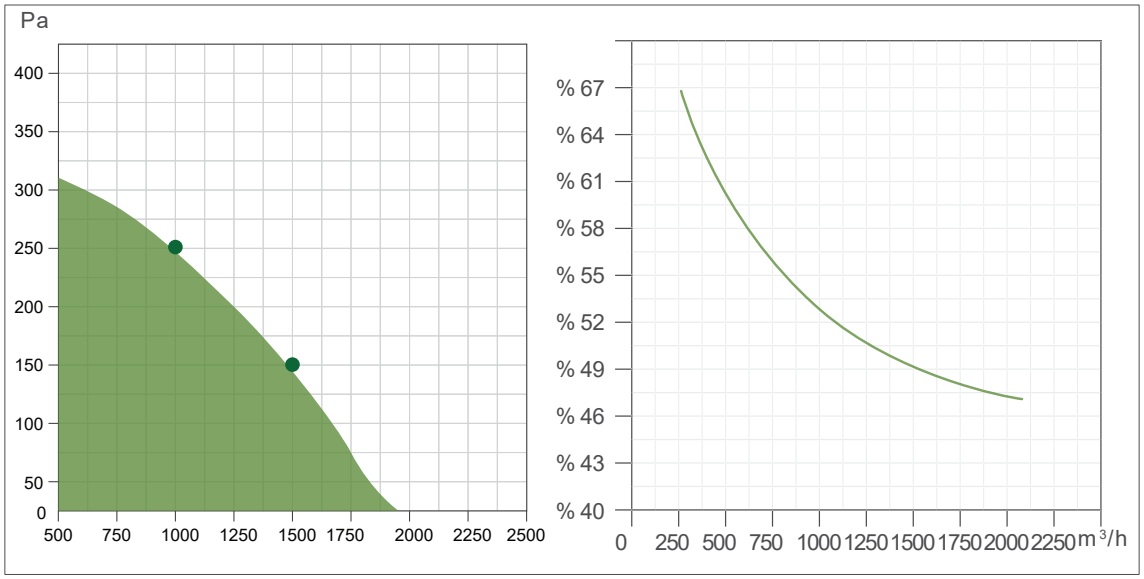


A: Ukupna dužina sa nosačima	[mm]	1814
B: Ukupna širina	[mm]	1295
C: Ukupna visina	[mm]	548
D: Dužina prirubnice	[mm]	378
E: Visina prirubnice	[mm]	378

Model izmenjivača Exchanger *model*	**TREX-CR-LS-600-392-002**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBB/4-315/112D ML**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 2000

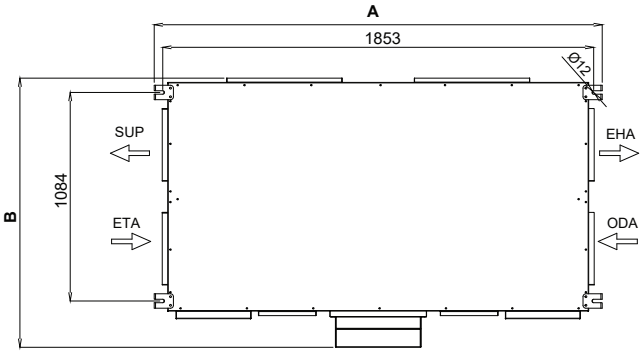


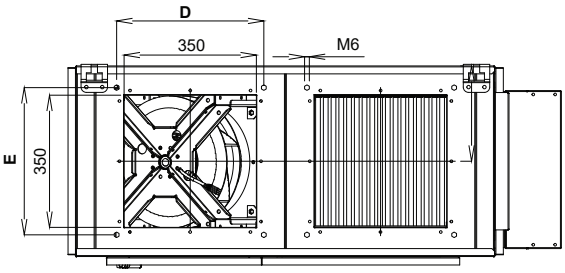
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**1950**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**1365**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**47%**
Težina (kg) *Weight (kg)*	**110**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

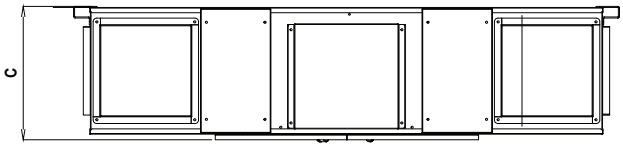
Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**230V 50Hz**
Snaga (kw) *Total Power (kw)*	**0,65**
Maksimalna struja (A) *Maksimum current (A)*	**2,9**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**60**

TEHNIČKI CRTEŽI
TECHNICAL DRAWINGS

JRHB73 / 3000





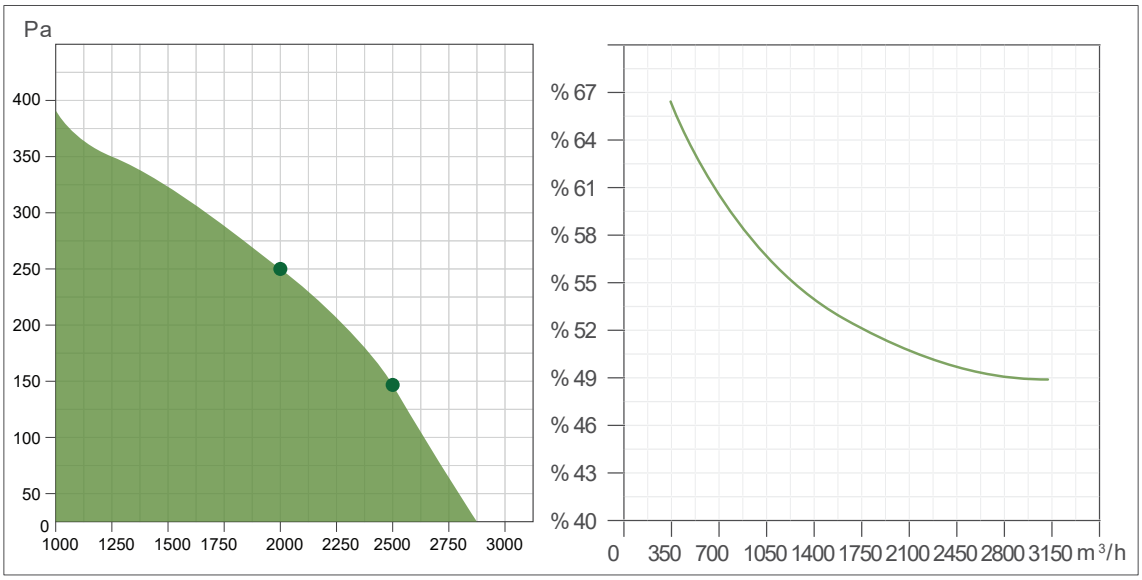


A: Ukupna dužina sa nosačima	[mm]	1912
B: Ukupna širina	[mm]	1295
C: Ukupna visina	[mm]	548
D: Dužina prirubnice	[mm]	378
E: Visina prirubnice	[mm]	378

Model izmenjivača Exchanger *model*	**HEATEX HA0750-0360-090-2EOO-2-0-0-0360**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBB/4-400/188**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 3000

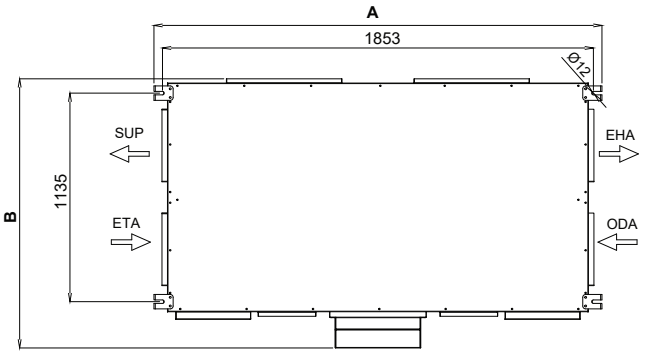


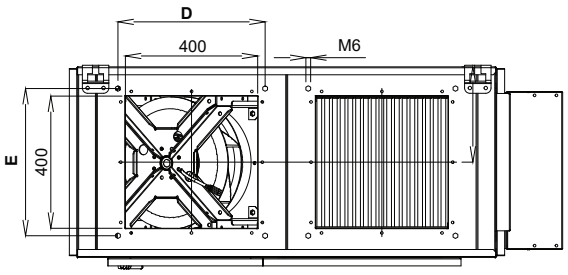
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**2900**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**2030**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**48%**
Težina (kg) *Weight (kg)*	**140**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

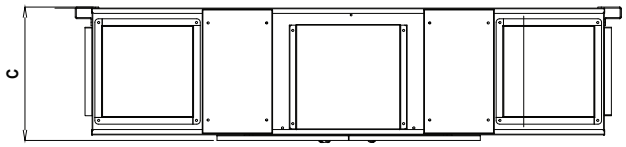
Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**230V 50 Hz**
Snaga (kw) *Total Power (kw)*	**1**
Maksimalna struja (A) *Maksimum current (A)*	**4,6**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**55**

TEHNIČKI CRTEŽI
TECHNICAL DRAWINGS

JRHB73 / 4000





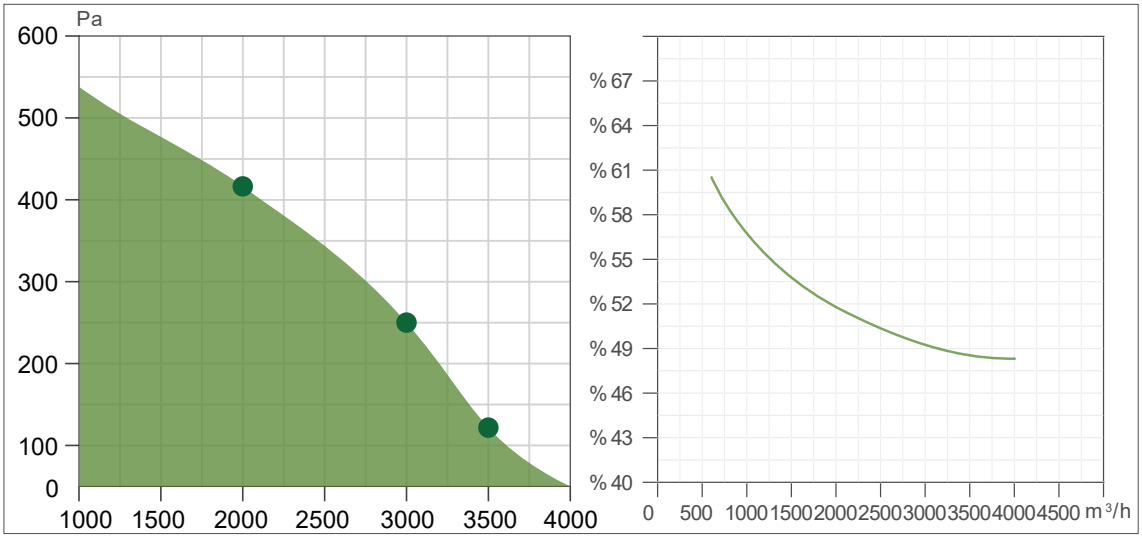


A: Ukupna dužina sa nosačima	[mm]	1912
B: Ukupna širina	[mm]	1346
C: Ukupna visina	[mm]	588
D: Dužina prirubnice	[mm]	428
E: Visina prirubnice	[mm]	428

Model izmenjivača Exchanger *model*	**HEATEX HA0750-0390-090-2EOO-2-0-0-0390**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBB/4-450/125D PSMH**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 4000

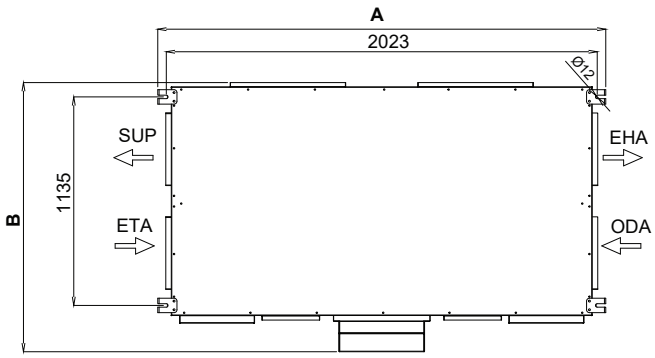


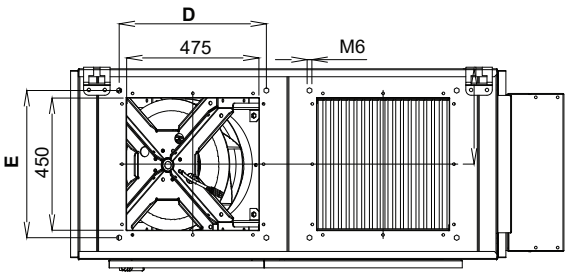
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**3980**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**2786**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**48%**
Težina (kg) *Weight (kg)*	**170**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

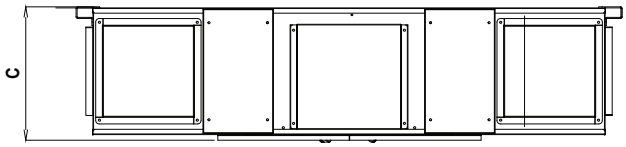
Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**230V 50 Hz**
Snaga (kw) *Total Power (kw)*	**1,2**
Maksimalna struja (A) *Maksimum current (A)*	**4,8**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**53**

TEHNIČKI CRTEŽI
TECHNICAL DRAWINGS

JRHB73 / 5000





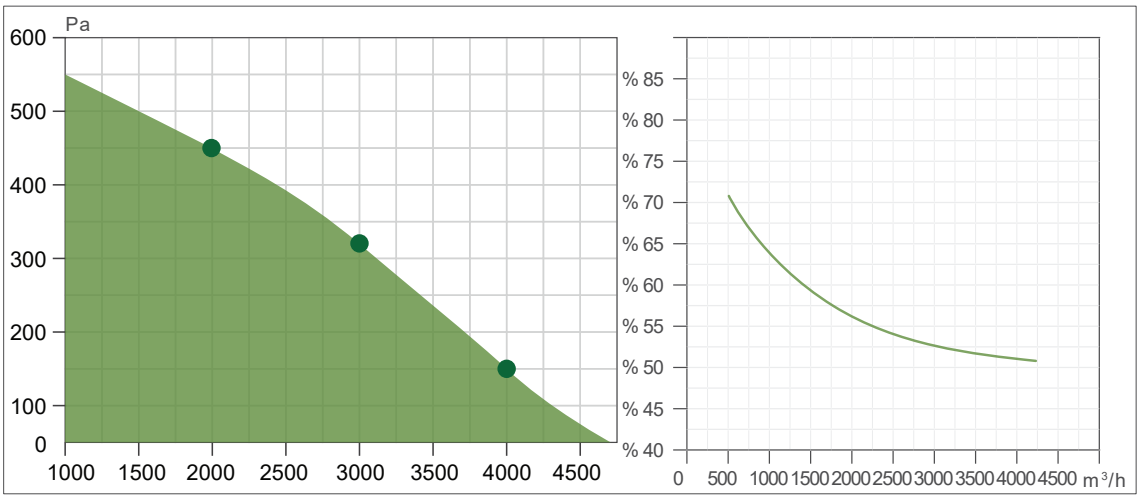


A: Ukupna dužina sa nosačima	[mm]	2082
B: Ukupna širina	[mm]	1346
C: Ukupna visina	[mm]	648
D: Dužina prirubnice	[mm]	505
E: Visina prirubnice	[mm]	478

Model izmenjivača Exchanger *model*	**HEATEX HA0750-0450-105-2EOO-2-0-0-0450**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBB/4-450/125D PSMH**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 5000

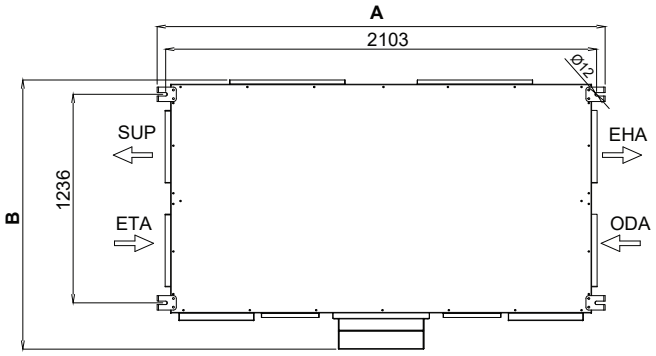


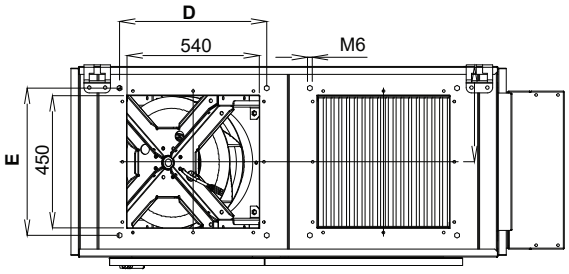
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**4520**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**3164**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**46%**
Težina (kg) *Weight (kg)*	**190**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

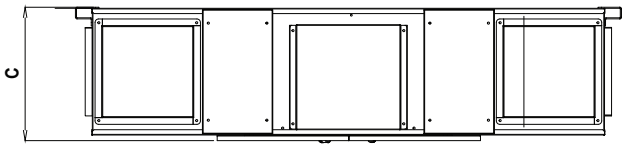
Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**230V 50 Hz**
Snaga (kw) *Total Power (kw)*	**1,3**
Maksimalna struja (A) *Maksimum current (A)*	**5,4**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**58**

TEHNIČKI CRTEZI
TECHNICAL DRAWINGS

JRHB73 / 6000





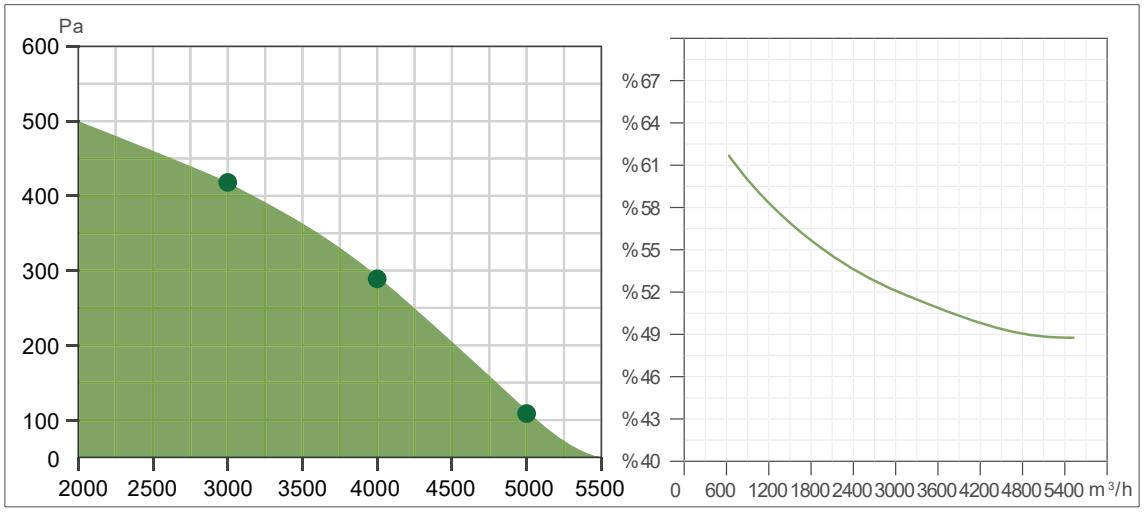


A: Ukupna dužina sa nosačima	[mm]	2162
B: Ukupna širina	[mm]	1446
C: Ukupna visina	[mm]	838
D: Dužina prirubnice	[mm]	573
E: Visina prirubnice	[mm]	478

Model izmenjivača Exchanger *model*	**HEATEX HA0750-0660-090-2EOO-2-0-0-0660**
Tip izmenjivača *Exchanger type*	**Od aluminijuma, unakrsnog protoka** ***Aluminium plate, cross flow***
Model ventilatora *Fan model*	**S&P CRBT/4-450/125D ML**
ERP kompatibilnost *ERP Compatibility*	**2015**
Mesto ugradnje *Installation*	**Unutar objekta** ***Indoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**10 mm izolovana ploča** ***10 mm insulated single walled***

TEHNIČKI PODACI
TECHNICAL DATA

JRHB73 / 6000



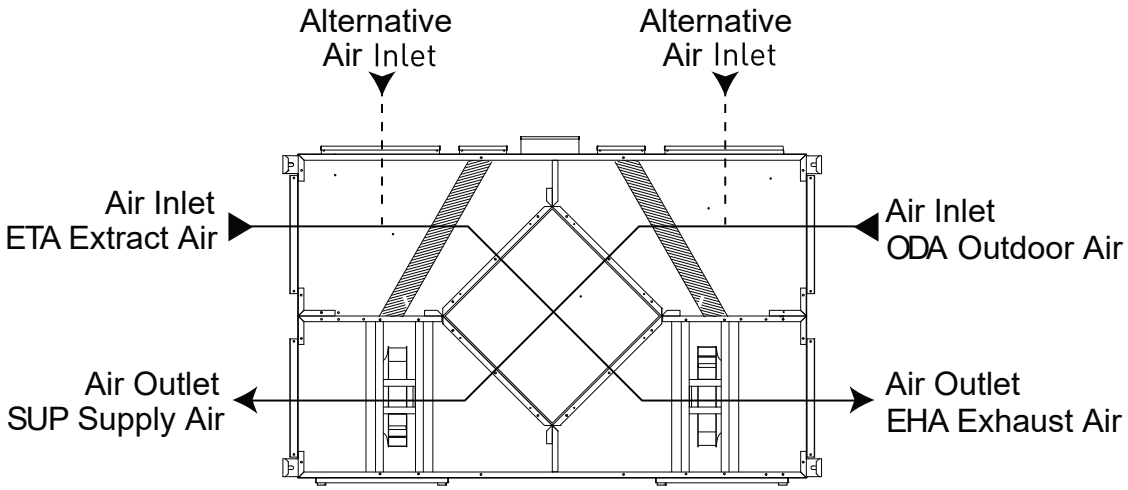
Maksimalni protok vazduha (m3/h) *Maximum flow rate (m3/h)*	**5550**
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**3885**
Efikasnost (-5°C OA, 22°C 50%RH RA) *Efficiency (-5°C OA, 22°C 50%RH RA)*	**48%**
Težina (kg) *Weight (kg)*	**225**
Filter dovodnog vazduha *Fresh air filter*	**G4**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Radna temperatura (1) (°C) *Operating temperature (1) (°C)*	**-12 / +46**

Komunikaciona veza *Communicating informations*	**Modbus RTU**
Napon *Supply voltage*	**400V 50 Hz**
Snaga (kw) *Total Power (kw)*	**1.9**
Maksimalna struja (A) *Maksimum current (A)*	**3.8**
Jačina zvuka merena na razdaljini od 3 m (dBA) *Surrouding sound 3m distance (dBA)*	**52**

INSTALACIJA
INSTALLATION

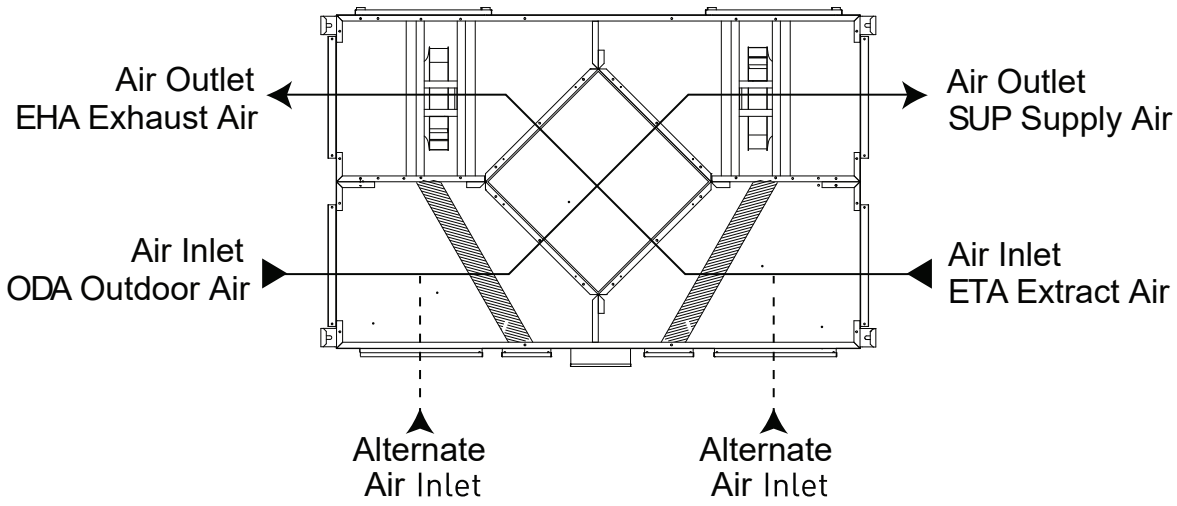
Instalacija sa desne strane

Right hand side installation



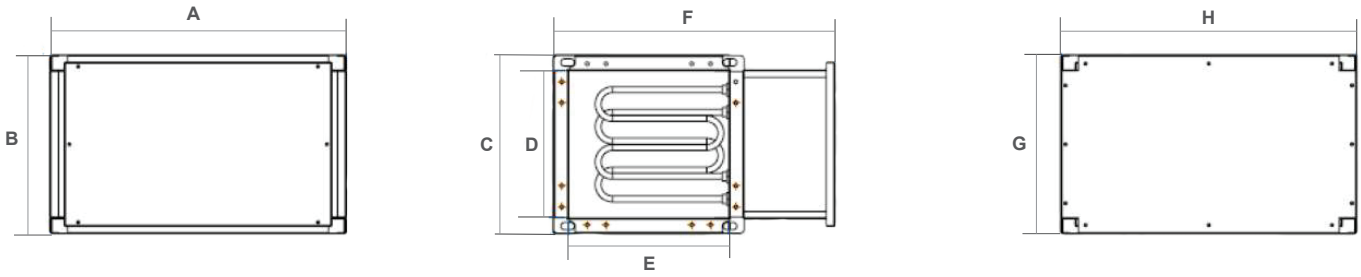
Instalacija sa leve strane

Left hand side installation

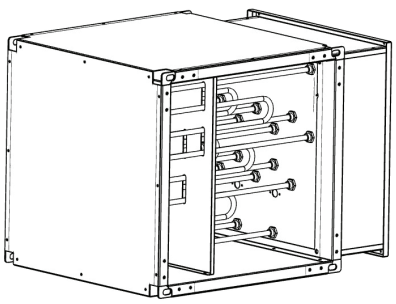


DODATNA OPREMA
ACCESSORIES

Električni predgrejač
Electrical preheater



Model	Kapacitet grejača (kw) Heater capasity (kw)	Dimenzije A [mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	G[mm]	H[mm]	Regulacija Control
Električni grejač za JRHB73/1000 *Electrical heater for JRHB73/1000*	4,5	410	299	299	256	277	445	299	410	Jednostepeni *1 Step*
Električni predgrejač za JRHB73/2000 *Electrical preheater for JRHB73/2000*	6	410	349	349	306	327	495	349	410	Jednostepeni *1 Step*
Električni predgrejač za JRHB73/3000 *Electrical preheater for JRHB73/3000*	9	410	399	399	356	377	545	399	410	Jednostepeni *1 Step*
Električni predgrejač za JRHB73/4000 *Electrical preheater for JRHB73/4000*	13,5	410	449	449	406	427	595	449	410	Jednostepeni *1 Step*
Električni predgrejač za JRHB73/5000 *Electrical preheater for JRHB73/5000*	18	410	497	497	454	482	650	497	410	Jednostepeni *1 Step*
Električni predgrejač za JRHB73/6000 *Electrical preheater for JRHB73/6000*	22,5	410	497	497	545	550	718	497	410	Jednostepeni *1 Step*

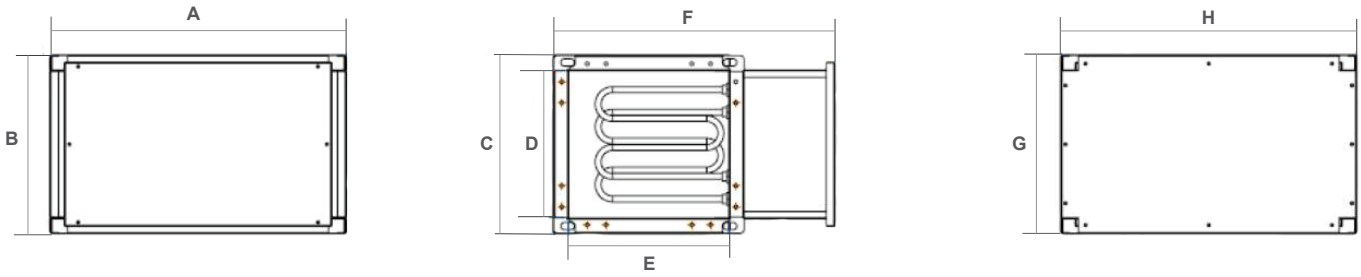


Koristi se za prevenciju zamrzavanja izmenjivača kada je temperatura spoljašnjeg vazduha niska. Električni grejači dolaze u kompletu sa svim električnim komponentama neophodnim za povezivanje sa JAKKA Control Kit 4 kontrolerom.Isporučeni rekuperatori toplote pre maja 2020. godine imaju staru verziju softvera u kontroleru i ne podržavaju predgrejač

Used in order to prevent freezing at the exchanger in the situations which the outside air is very low. Electrical heaters are equipped with everthing you need to connect with JAKKA Control Kit 4 controler
Units deliverd before May 2020. have version of softwer that doesn't support preheater option

DODATNA OPREMA
ACCESSORIES

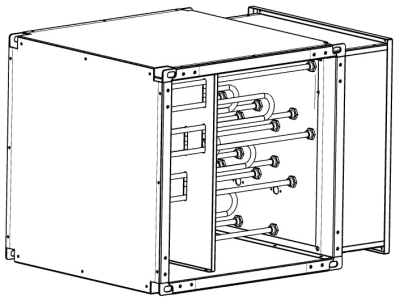
Električni dogrejač
Electrical after heater



Model	Kapacitet grejača (kw) *Heater capasity*	Dimenzije A [mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	G[mm]	H[mm]	Regulacija *Control*
Električni grejač za JRHB73/1000 *Electrical heater for JRHB73/1000*	4,5	410	299	299	256	277	445	299	410	Trostepeni *3 Step*
Električni dogrejač za JRHB73/2000 *Electrical after heater for JRHB73/2000*	6	410	349	349	306	327	495	349	410	Trostepeni *3 Step*
Električni dogrejač za JRHB73/3000 *Electrical after heater for JRHB73/3000*	9	410	399	399	356	377	545	399	410	Trostepeni *3 Step*
Električni dogrejač za JRHB73/4000 *Electrical after heater for JRHB73/4000*	13,5	410	449	449	406	427	595	449	410	Trostepeni *3 Step*
Električni dogrejač za JRHB73/5000 *Electrical after heater for JRHB73/5000*	18	410	497	497	454	482	650	497	410	Trostepeni *3 Step*
Električni dogrejač za JRHB73/6000 *Electrical after heater for JRHB73/6000*	22,5	410	497	497	545	550	718	497	410	Trostepeni *3 Step*

Koristi se za dogrevanje dovodnog vazduha. Uključuje se automatski u zavisnosti od željene temperature i željene temperature dovodnog vazduha.Električni grejači dolaze u kompletu sa svim električnim komponentama neophodnim za povezivanje sa JAKKA Control Kit 4 kontrolerom.

Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature. Electrical heaters are equipped with everthing you need to connect with JAKKA Control Kit 4 controler

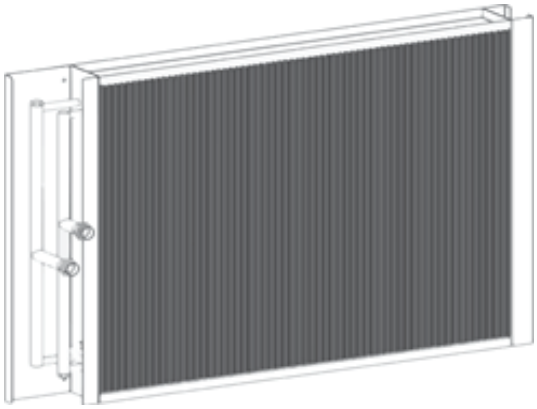


DODATNA OPREMA
ACCESSORIES

Toplovodni izmenjivač
Water heater

Koristi se za zagrevanje dovodnog vazduha. Uključuje se automatski u zavisnosti od željene temperature i željene temperature dovodnog vazduha.

Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature.



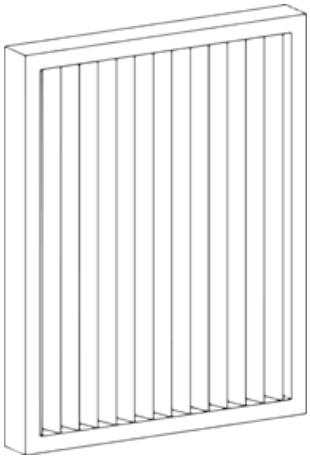
Model	Kapacitet grejača (kw) *Heater capasity*	Režim (°C) *Water Regime*	Upravljanje *Control*
Toplovodni izmenjivač za JRHB73/1000 *Water heater for JRHB73/1000*	5,2	80-60	on/off
Toplovodni izmenjivač za JRHB73/2000 *Water heater for JRHB73/2000*	8,8	80-60	on/off
Toplovodni izmenjivač za JRHB73/3000 *Water heater for JRHB73/3000*	13	80-60	on/off
Toplovodni izmenjivač za JRHB73/4000 *Water heater for JRHB73/4000*	17,7	80-60	on/off
Toplovodni izmenjivač za JRHB73/5000 *Water heater for JRHB73/5000*	21,3	80-60	on/off
Toplovodni izmenjivač za JRHB73/6000 *Water heater for JRHB73/6000*	24,4	80-60	on/off

Uz toplovodne izmenjivače se ne isporučuje trokraki ventil za kontrolu njihovog rada

Three-way valve used for control of water heater, isn't included.

DODATNA OPREMA
ACCESSORIES

Filteri
Filters



Model	Dimenzije DxVxŠ *Dimensions LxHxW*	Količina po uređaju *Pieces per unit*
Filter za JRHB73/1000 Filter for JRH73/1000	493x286x48	2
Filter za JRHB73/2000 Filter for JRHB73/2000	595x446x48	2
Filter za JRHB73/3000 Filter for JRHB73/3000	588x446x48	2
Filter za JRHB73/4000 Filter for JRHB73/4000	625x525x48	2
Filter za JRHB73/5000 Filter for JRHB73/5000	615x546x48	2
Filter za JRHB73/6000 Filter for JRHB73/6000	665x736x48	2

SENZORI / DIFERENCIJALNI PRESOSTAT
SENSORS / DIFFERENTIAL PRESSURE SWITCH

Senzor kvaliteta vazduha
Air quality sensor



Regin CTDT 2

Senzor kvaliteta vazduha (CO2) se nalazi unutar kanala i konstantno vrši merenja. Prema tim merenjima se zatim menja brzina ventilatora. Ukoliko je kvalitet vazduha lošiji nego što je podešeno, brzina ventilatora se povećava, samim tim je veći dotok vazduha. Ako senzor meri veći kvalitet vazduha brzina ventilatora se smanjuje, samim tim dotok vazduha opada. Tako se postiže značajna ušteda energije.

Located in inside of critical volume or return duct, the optional air quality sensor (CO2) consistently measures the air quality. This value, as being compared with set value which is arrenged on control, creates operating which changes fan's speed. If the air in room is lower than desired air quality, the fan speed is increased so fresh air amount increased, if the air in room is higher than desired air quality , the fan speed is decreased so, fresh air amount decreased; Thus, a significant energy save is provided at the heating or cooling loads caused by the fresh air.

Diferencijalni presostat
Differential Pressure Switch



Dwyer ADPS-08-2-N

ADPS diferencijalni presostat vrši detekciju protoka vazduha kroz ventilacioni kanal. To se ostvaruje pomoću razlike pritiska u kanalu i atmosferskog pritiska.

The ADPS Adjustable Differential Pressure Switch detects the air flow through the ventilation duct. This is achieved by the difference between the pressure in the duct and the atmospheric pressure.

KONTROLERI
CONTROLS

Jakka kontroler 4
Jakka control kit 4



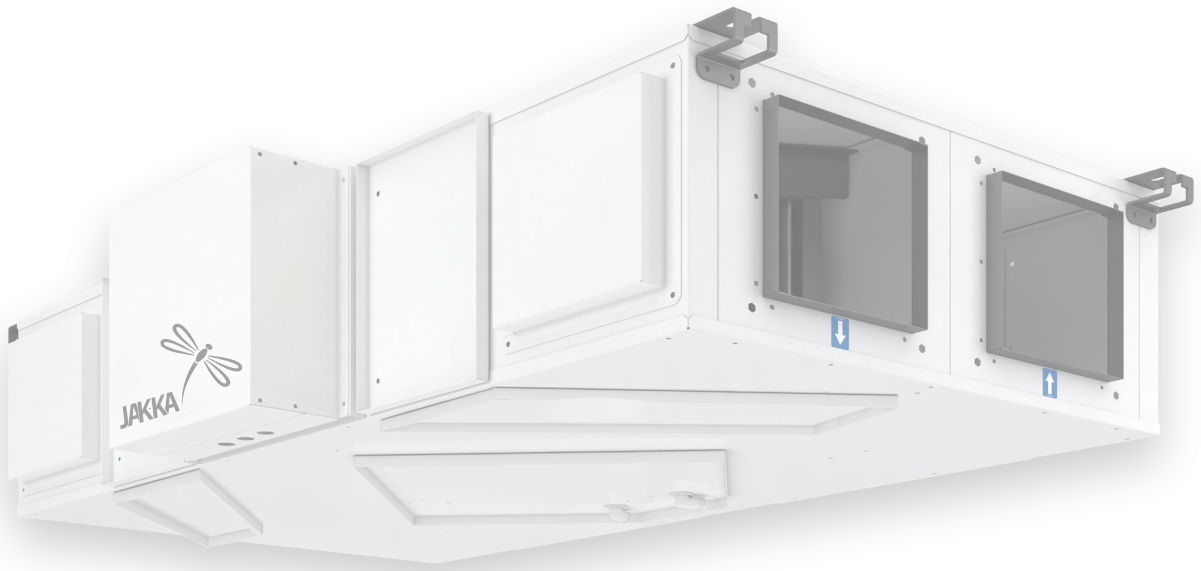
Power supply		**230V,50Hz (± 2%)**
Temperatura vazduha *Ambient temperature*	Functional storage	0 to +60C (-25 to +75°C)
Vlažnost vazduha *Humidity*		93% at 25°C
Osigurači *Fuses*	230V	T.B.D
Zaštita *Protection*	Prema EN60529 According to EN60529	IP00
Dimenzija *Dimensions*	DxŠxH l × w × h	205mm×144mm×38mm
Težina *Weight*		530 g

Mogućnosti JAKKA Control Kit 4 kontrolera :
1. Nezavisna regulacija ventilatora na usisu i potisu u 3 koraka
2. Odvojeno povezivanje termičkih zaštite za oba motora
3. Softversko upozorenje za čišćenje filtera nakon 1.200h rada
4. Do 3 priključka za temperaturske sonde (NTC10k)
5. Priključak za radni i sigurnosni termostat električnog predgrejača
6. Vođenje električnog I-stepenog predgrejača
7. Priključak za radni i sigurnosni termostat električnog dogrejača
8. Binarno vođenje električnog I ili II-stepenog dogrejača
9. ON/OFF kontrola elektromotornog ventila toplovodnog izmenjivača
10. Priključak za CO2 senzor (VOD režim kada ima senzor)
11. Sedmična dvokratna programska šema rada
12.Modbus-RTU protokol (opciono, mora da se naglasi)

NAPOMENA:
Opcije 7+8 ili 9, ne i sve tri od jednom;
Ako se koristi opcija 12 onda ne može se koristiti opcija 6
Opcija 8 može da vodi III-stepeni dogrejač
NOTE:
Options 7+8 or 9, not all three at once
If option 12 is used then option 6 cannot be used
Option 8 can run a stage III afterheater

Features of the JAKKA Control Kit 4 controllers:
1. Independent regulation of fans on inlet and outlet in 3 steps
2. Separate connection of thermal protection for both motors
3. Software warning for filter cleaning after 1,200 hours of operation
4. Up to 3 connections for temperature probes (NTC10k)
5. Connection for the working and safety thermostat of the electric preheater
6. Control of the electric I-stage preheater
7. Connection for the working and safety thermostat of the electric afterheater
8. Binary control of the electric I or II stage afterheater
9. ON/OFF control of the electric valve of the hot water exchanger
10. Connection for CO2 sensor (VOD mode when it has a sensor)
11. Weekly twice program work schedule
12. Modbus-RTU protocol (optional, must be emphasize)

2023



JAK-KA®

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