APRIL 2023

JAKKA REKUPERATOR
JR(H/V)(B)70



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.

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JR(H/V)(B)70/3000 12-16

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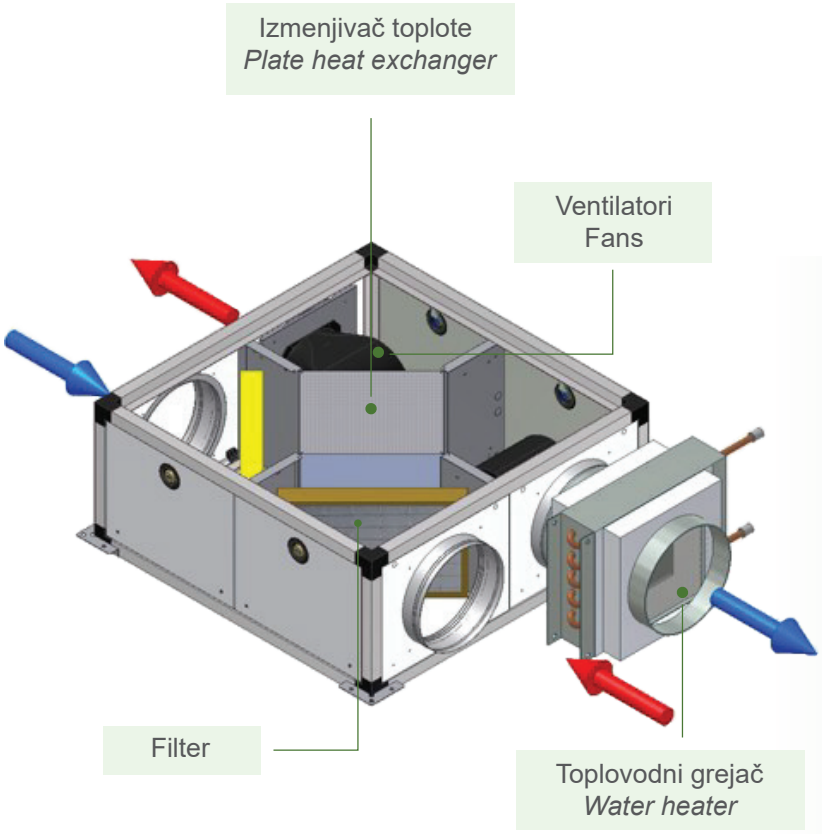
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JR(H/V)(B)70



Materijal (kućište) / *Material (housing)*

Pocinkovani lim
Galvanized sheet

Efikasnost / *Efficiency*

do 70%
up to 70%

Opseg temperature / *Temperature range*

-15°C to +50°C.

Protok vazduha / Air flow

900 - 4500 m3/h

Napajanje / *Power supply*

230/400 V/50Hz

Izolacija / *Insulation*

25mm

Rekuperatori toplote efikasnosti do 70% u horizontalnoj ili vertikalnoj izvedbi sa ili bez by-pass opcije, sa aluminijumskim poprečnim izmenjivačem toplote. Namenjen za opštu ventilaciju. Dostupne jedinice:
Sa toplovodnim ili električnim grejačima, by-pass i pred grejač su integrisani u jedinicu
*Bez regulacije
*Plug-n-play verzija sa priključenim električnim panelom i upravljačem montiranim na jedinici

Heat exchange unit, up to 70 % efficiency, installation can be horizontal or vertical, with or without by-pass, with aluminum heat exchanger plate. Intended for general ventilation.
Versions available:
With water or electric post-heating, by-pass and pre-heater integrable into the unit:
**Without regulation or*
**Plug-n-play versions with electrical panel pre-wired and microprocessor control mounted on board.*

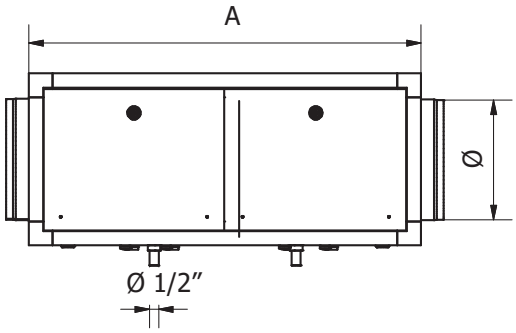
JR	(H/V)	(B)	70	900-4500	(, EVO PH, EVO D PH-IP)
Jakka rekuperator	Horizontalna / Vertikalna izvedba	By-pass (opciono)	Serija rekuperatora	Modeli (nazivni protok [m3/h]	bez oznake: bez regulacije EVO PH: kontroler sa displejom, EVO D PH-IP: kontroler sa displejom, MODBus i TCP-IP protokolom

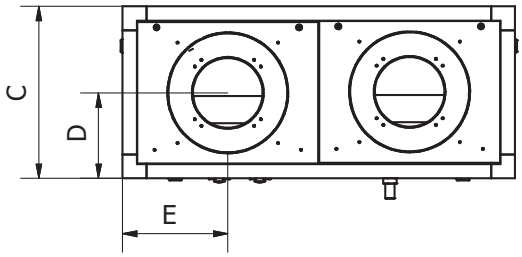
NAPOMENA: Rekuperatori nisu namenjeni za bazensku aplikaciju. Nisu namenjeni za rad u uslovima sa velikom koncentracijom vlage.
Heat exchange unit are not intended for pool application. They are not intended to work in conditions with a high concentration of moisture.

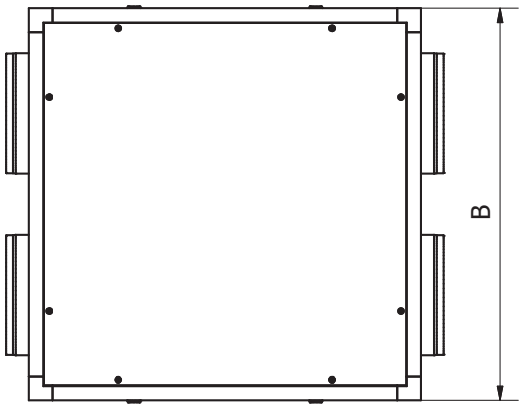
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRH70 / 900

Bez bypass-a
Without bypass







A: Dužina	[mm]	820
B: Širina	[mm]	820
C: Visina	[mm]	360
D	[mm]	180
E	[mm]	220
Ø	[mm]	250
Težina	[kg]	44

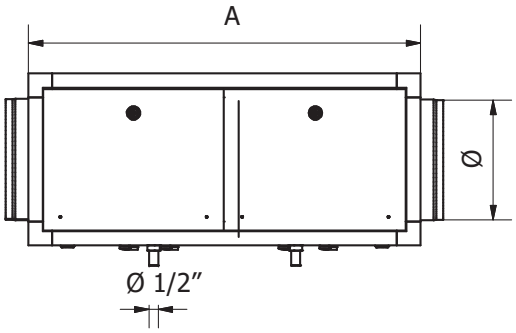
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**EBM Papst D2E146-HT59-02 ****
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

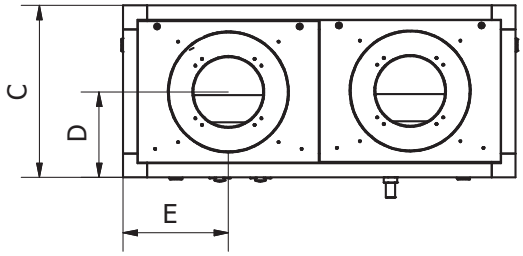
** 4V – četvorobrzinski ventilator
4 speed fan

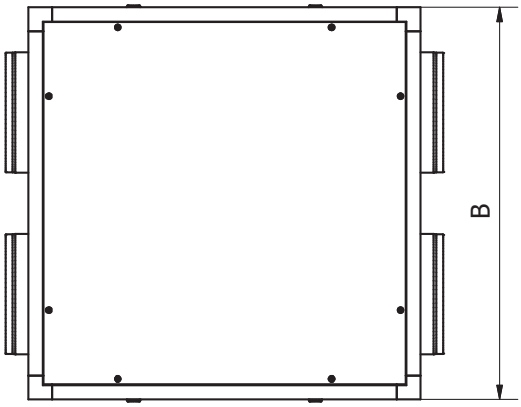
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRHB70 / 900

Sa bypass-om
With bypass







A: Dužina	[mm]	820
B: Širina	[mm]	820
C: Visina	[mm]	465
D	[mm]	180
E	[mm]	220
Ø	[mm]	250
Težina	[kg]	56

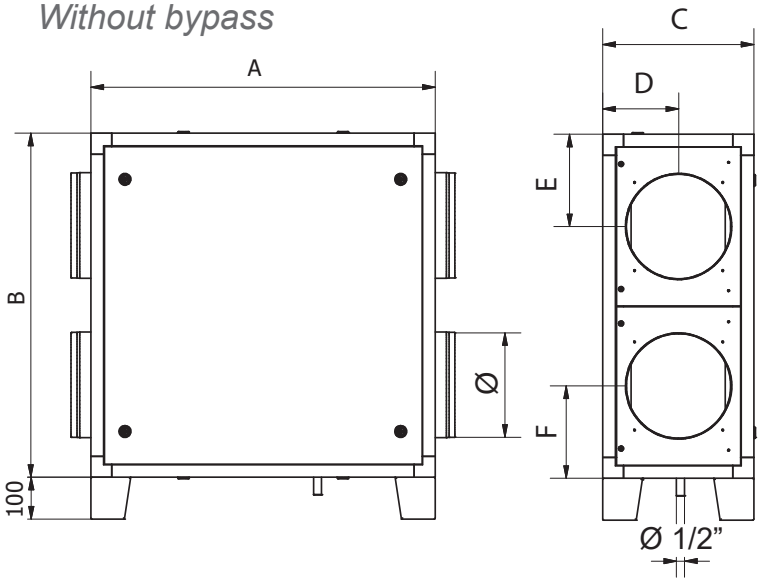
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**EBM Papst D2E146-HT59-02 ****
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

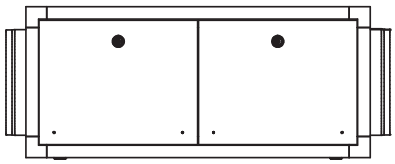
** 4V – četvorobrzinski ventilator
4 speed fan

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRV70 / 900

Bez bypass-a
Without bypass





A: Dužina	[mm]	820
B: Širina	[mm]	820
C: Visina	[mm]	360
D	[mm]	180
E	[mm]	220
Ø	[mm]	250
Težina	[kg]	44

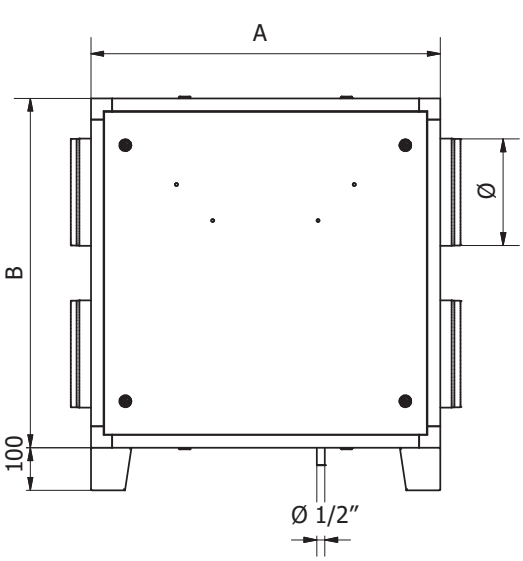
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**EBM Papst D2E146-HT59-02 ****
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

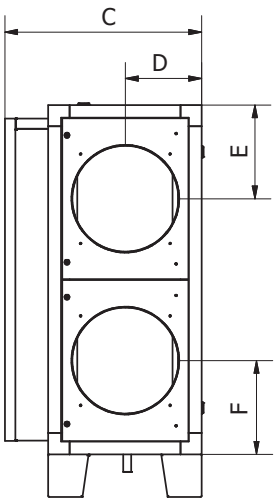
** 4V – četvorobrzinski ventilator
4 speed fan

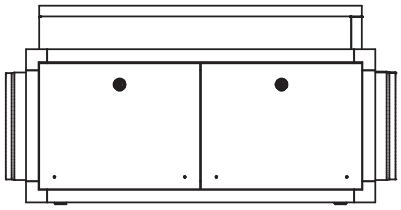
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRVB70 / 900

Sa bypass-om
With bypass







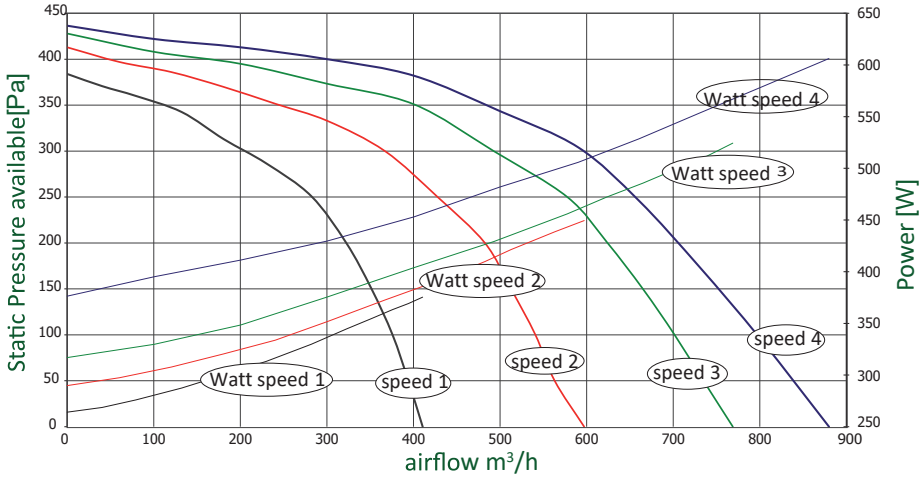
A: Dužina	[mm]	820
B: Širina	[mm]	820
C: Visina	[mm]	465
D	[mm]	180
E	[mm]	220
Ø	[mm]	250
Težina	[kg]	56

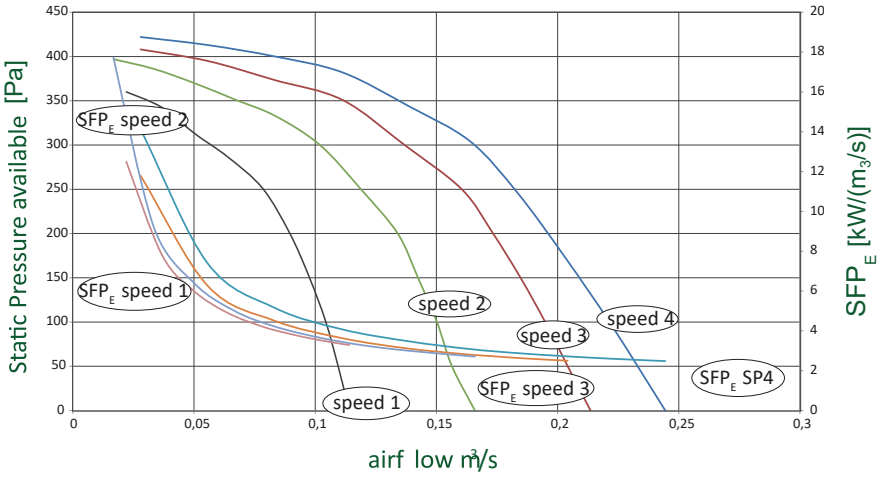
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**EBM Papst D2E146-HT59-02 ****
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

** 4V – četvorobrzinski ventilator
4 speed fan

TEHNIČKI PODACI
TECHNICAL DATA

JR(H/V)(B)70/900



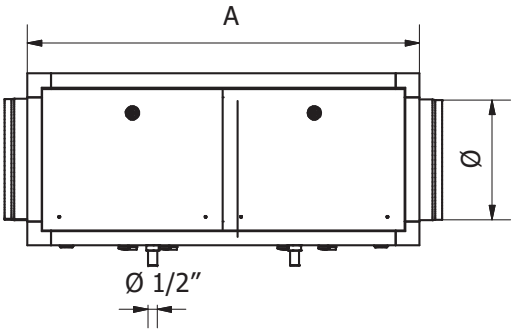


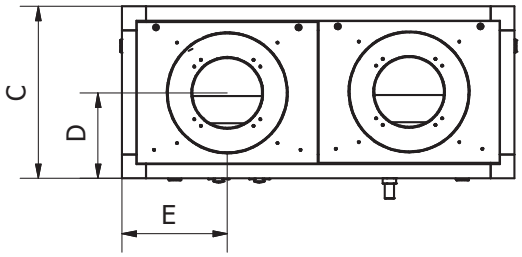
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**800**
Filter dovodnog vazduha *Fresh air filter*	**F7,F9**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (°C) *Operating temperature (°C)*	**-15 / +50**
Napon *Supply voltage*	**230V-1-50 Hz**
Snaga motor [W] Fan motor power [W]	**290x2**
Maksimalna struja (A) *Maksimum current (A)*	**3,1**
Jačina zvuka (dBA) *Surrouding sound (dBA)*	**42-55**

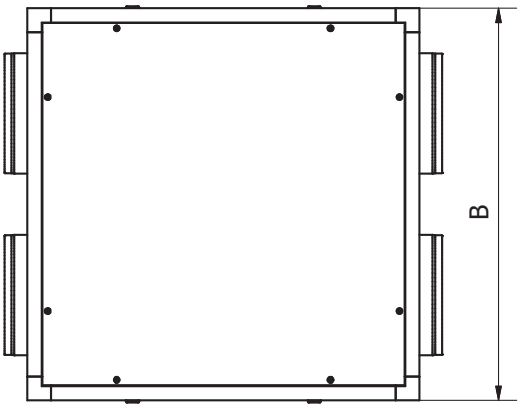
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRH 70 / 2000

Bez bypass-a
Without bypass







A: Dužina	[mm]	1040
B: Širina	[mm]	1040
C: Visina	[mm]	535
D	[mm]	315
E	[mm]	275
Ø: Prečnik prirubnice	[mm]	315
Težina	[kg]	91

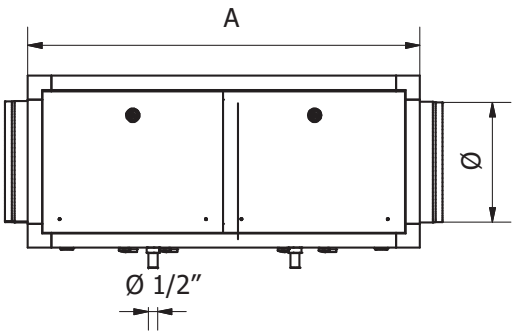
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

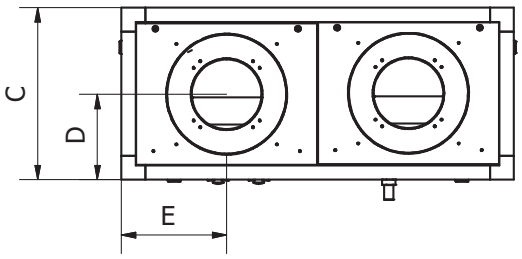
3V – trobrzinski ventilator
3 speed fan

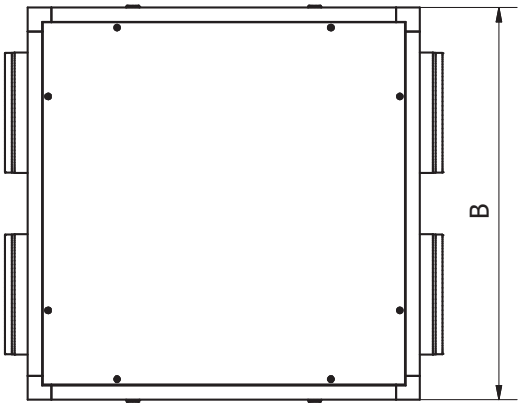
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRHB70 / 2000

SA bypass-om
With bypass







A: Dužina	[mm]	1040
B: Širina	[mm]	1040
C: Visina	[mm]	640
D	[mm]	180
E	[mm]	220
Ø: Prečnik prirubnice	[mm]	250
Težina	[kg]	107

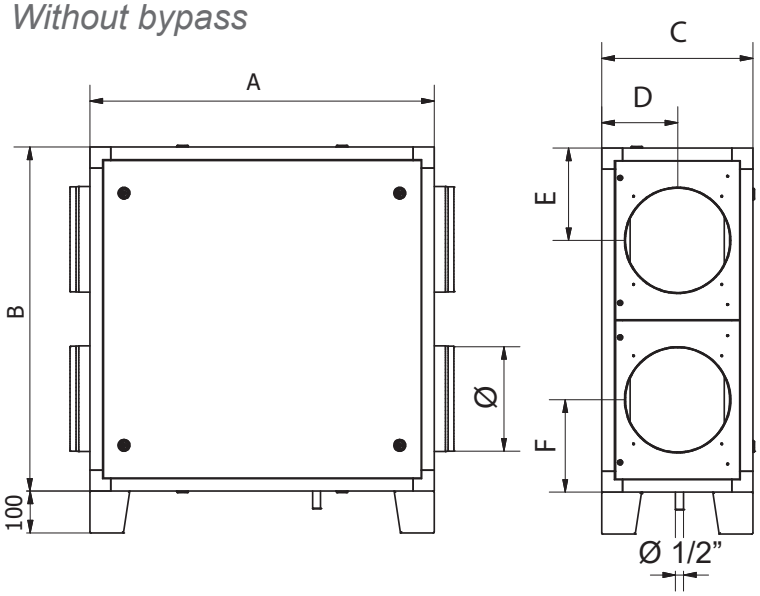
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

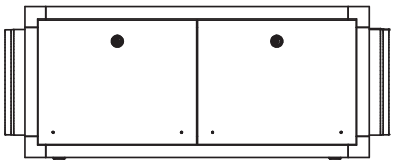
3V – trobrzinski ventilator
3 speed fan

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRV70 / 2000

Bez bypass-a
Without bypass





A: Dužina	[mm]	1040
B: Širina	[mm]	1040
C: Visina	[mm]	535
D	[mm]	315
E	[mm]	275
Ø: Prečnik prirubnice	[mm]	315
Težina	[kg]	91

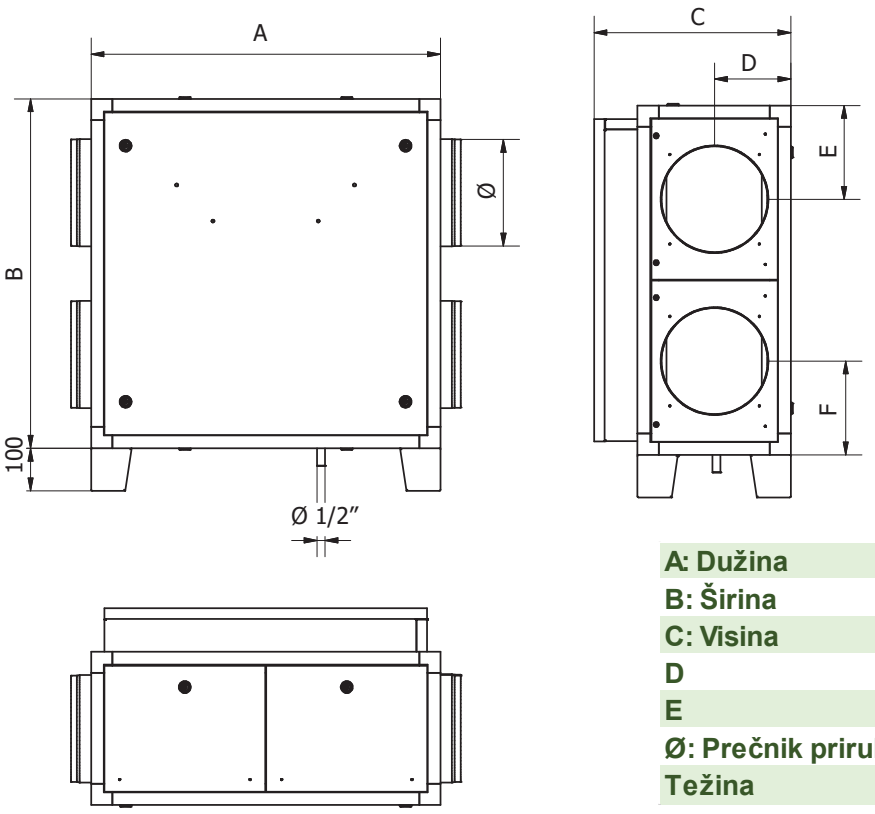
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

3V – trobrzinski ventilator
3 speed fan

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRVB70 / 2000

SA bypass-om
With bypass



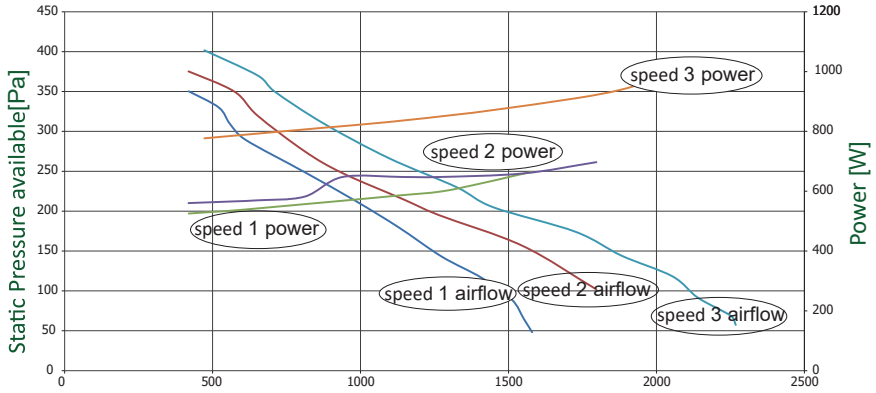
A: Dužina	[mm]	1040
B: Širina	[mm]	1040
C: Visina	[mm]	640
D	[mm]	180
E	[mm]	220
Ø: Prečnik prirubnice	[mm]	250
Težina	[kg]	107

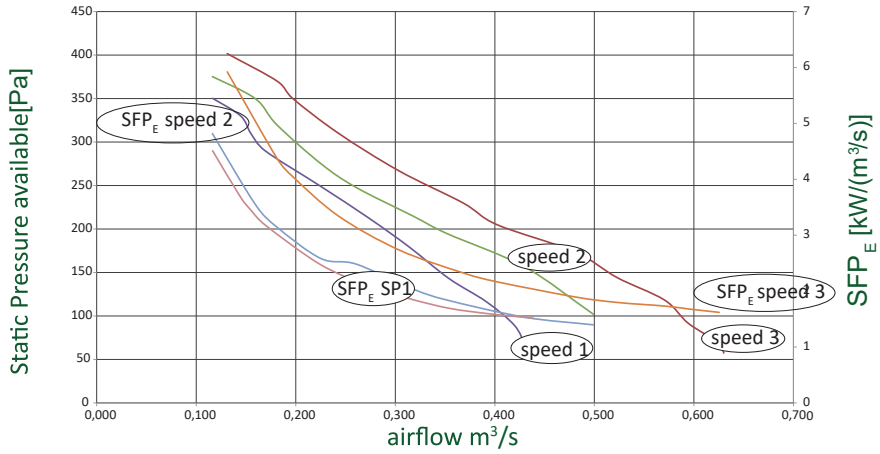
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

3V – trobrzinski ventilator
3 speed fan

TEHNIČKI PODACI
TECHNICAL DATA

JR(H/V)(B)70/2000



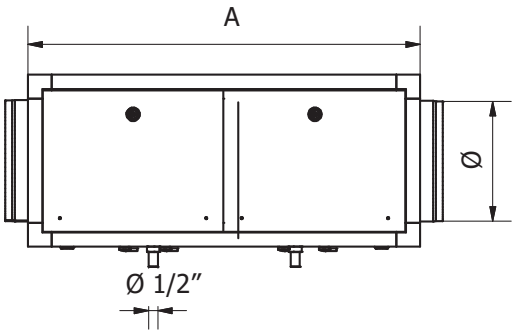


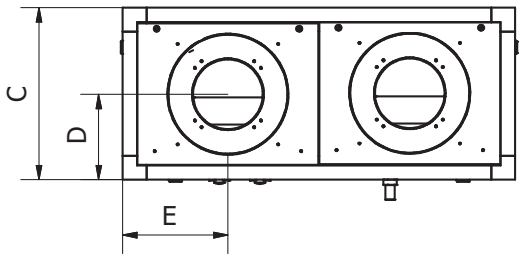
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**1.900**
Filter dovodnog vazduha *Fresh air filter*	**F7,F9**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (°C) *Operating temperature (°C)*	**-15 / +50**
Napon *Supply voltage*	**230V-1-50 Hz**
Snaga motor [W] Fan motor power [W]	**400x2**
Maksimalna struja (A) *Maksimum current (A)*	**5,5**
Jačina zvuka (dBA) *Surrouding sound (dBA)*	**65-69**

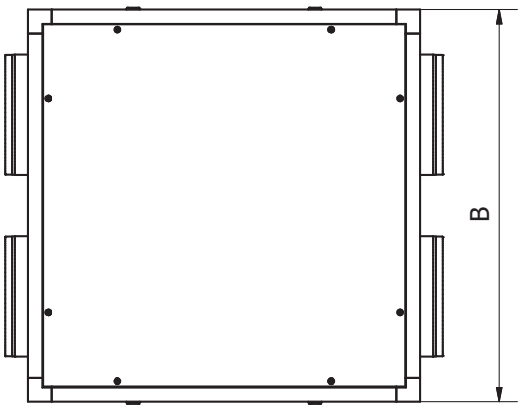
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRH70 / 3000

Bez bypass-a
Without bypass







A: Dužina	[mm]	1270
B: Širina	[mm]	1270
C: Visina	[mm]	630
D	[mm]	360
E	[mm]	332,5
Ø: Prečnik prirubnice	[mm]	355
Težina	[kg]	125

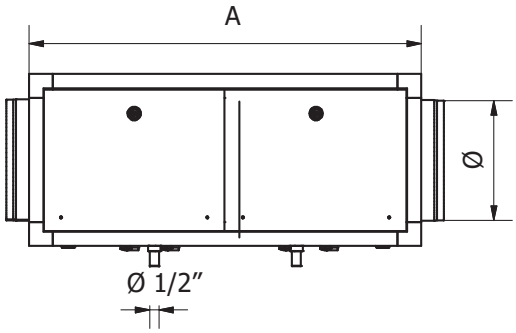
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 10/8 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

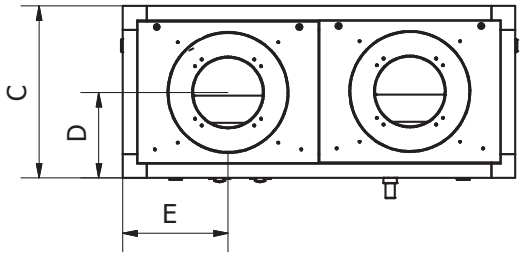
* 3V – trobrzinski ventilator
3 speed fan

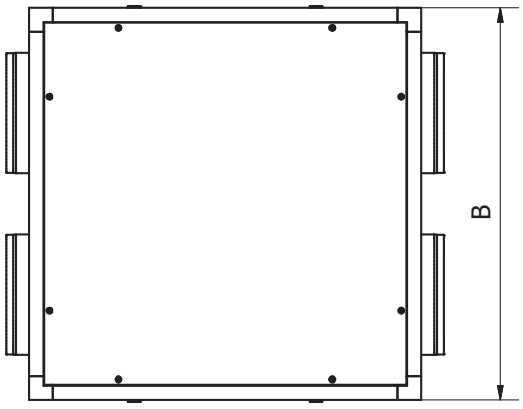
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRHB70 / 3000

Sa bypass-om
With bypass







A: Dužina	[mm]	1270
B: Širina	[mm]	1270
C: Visina	[mm]	735
D	[mm]	360
E	[mm]	332,5
Ø: Prečnik prirubnice	[mm]	355
Težina	[kg]	146

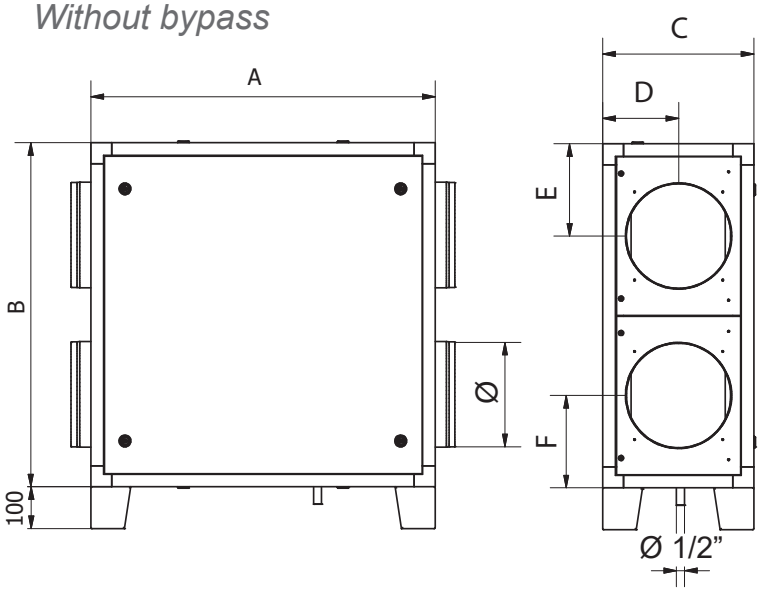
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 10/8 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

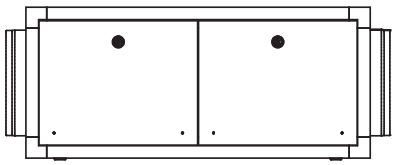
* 3V – trobrzinski ventilator
3 speed fan

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRV70 / 3000

Bez bypass-a
Without bypass





A: Dužina	[mm]	1270
B: Širina	[mm]	1270
C: Visina	[mm]	630
D	[mm]	360
E	[mm]	332,5
Ø: Prečnik prirubnice	[mm]	355
Težina	[kg]	125

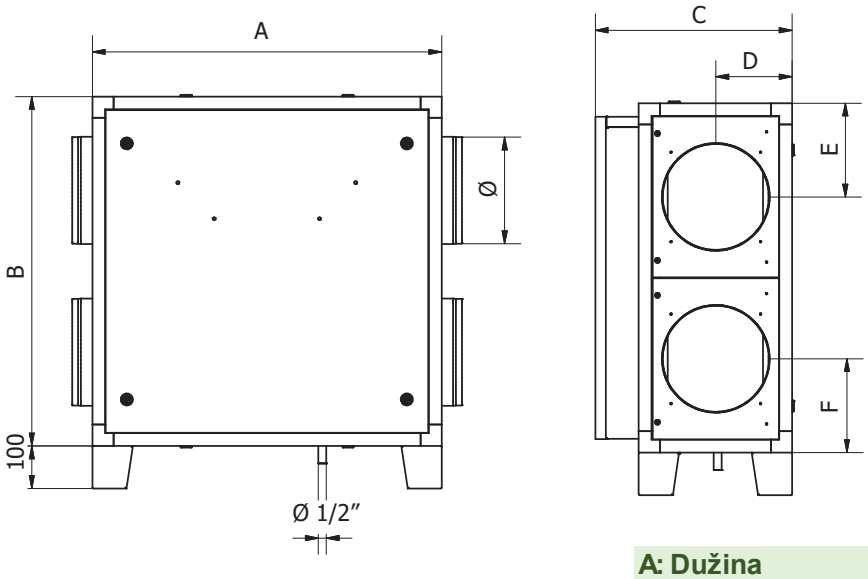
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

3V – trobrzinski ventilator
3 speed fan

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRVB70 / 3000

Sa bypass-om
With bypass



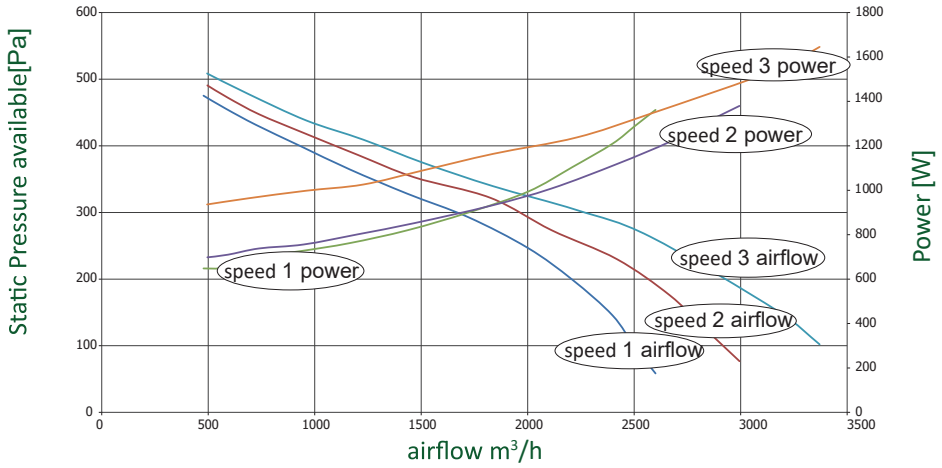
A: Dužina	[mm]	1270
B: Širina	[mm]	1270
C: Visina	[mm]	735
D	[mm]	360
E	[mm]	332,5
Ø: Prečnik prirubnice	[mm]	355
Težina	[kg]	146

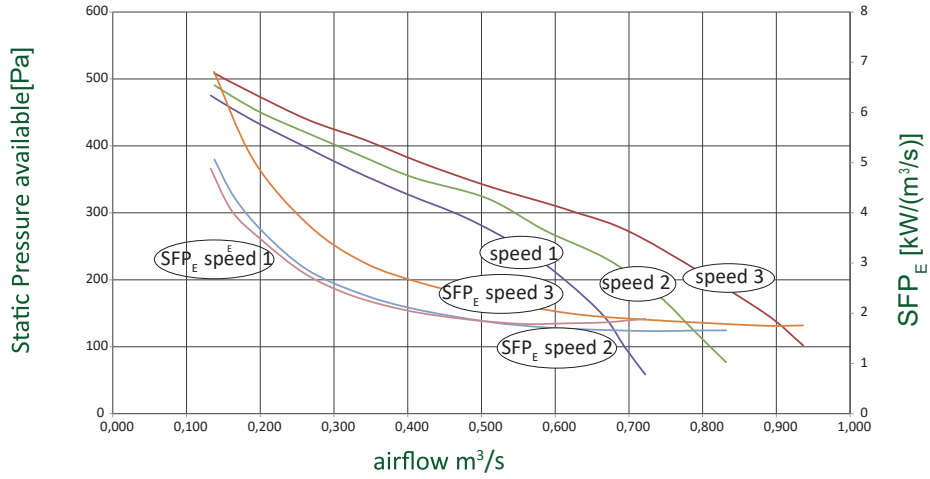
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**CMC DAIN 9/7 XPL2 201101A 1F 4P 3V ***
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

3V – trobrzinski ventilator
3 speed fan

TEHNIČKI PODACI
TECHNICAL DATA

JR(H/V)(B)70/3000



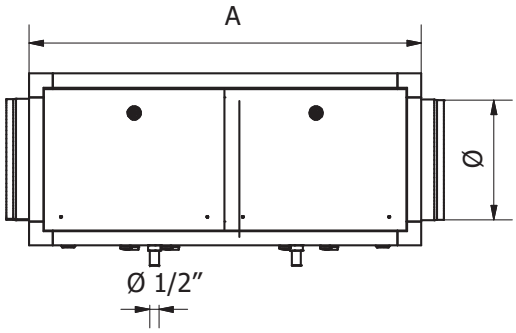


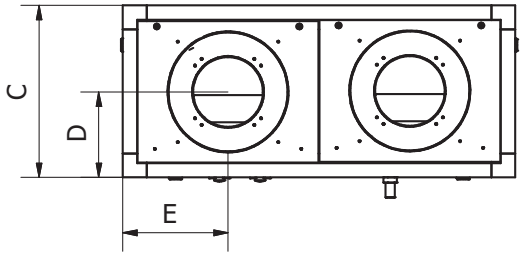
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**3.000**
Filter dovodnog vazduha *Fresh air filter*	**F7,F9**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (°C) *Operating temperature (°C)*	**-15 / +50**
Napon *Supply voltage*	**230V-1-50Hz**
Snaga motor [W] Fan motor power [W]	**550x2**
Maksimalna struja (A) *Maksimum current (A)*	**8**
Jačina zvuka (dBA) *Surrouding sound (dBA)*	**52-79**

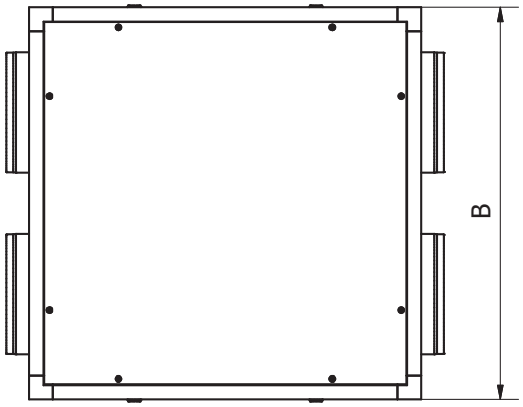
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRH70 / 4500

Bez bypass-a
Without bypass







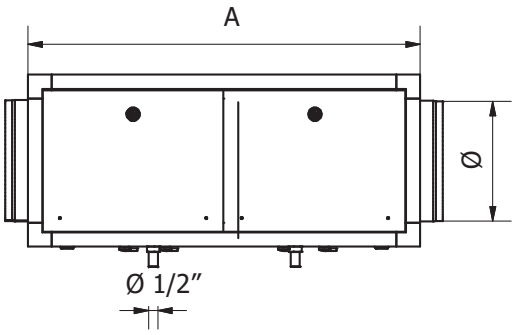
A: Dužina	[mm]	1200
B: Širina	[mm]	1300
C: Visina	[mm]	855
D	[mm]	427,5
E	[mm]	305
Ø: Prečnik prirubnice	[mm]	450
Težina	[kg]	171

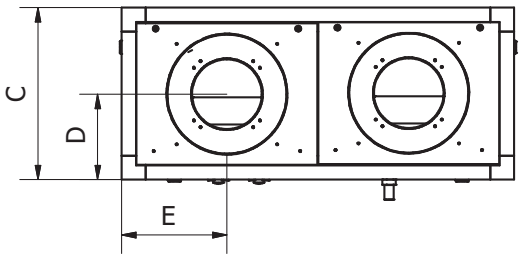
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**MONOFAZNI CBM-10/10 750 4P VR (230V50)F V5** **TROFAZNI Nicotra DDM-10/10 750 4P**
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

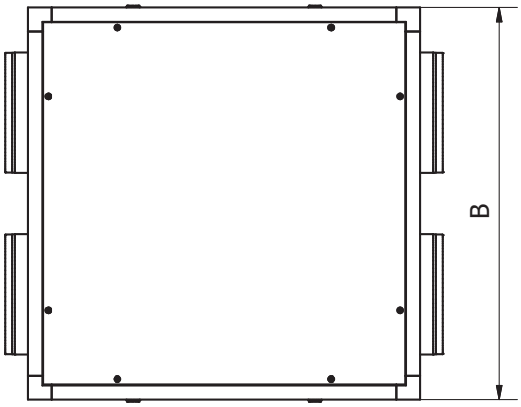
TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRHB70 / 4500

Sa bypass-om
With bypass







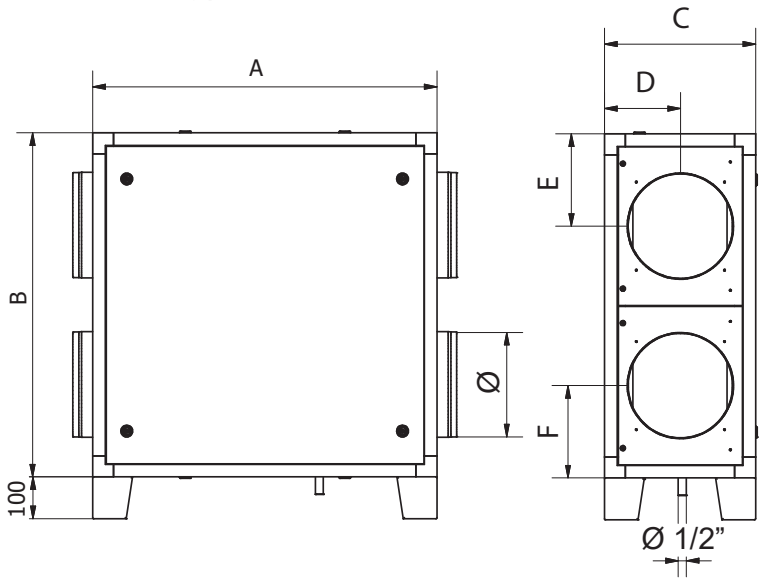
A: Dužina	[mm]	1200
B: Širina	[mm]	1300
C: Visina	[mm]	855
D	[mm]	427,5
E	[mm]	305
Ø: Prečnik prirubnice	[mm]	450
Težina	[kg]	171

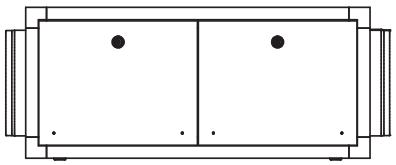
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**MONOFAZNI CBM-10/10 750 4P VR (230V50)F V5** **TROFAZNI Nicotra DDM-10/10 750 4P**
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Horizontalna** ***Horizontal***
Kućište *Case structure*	**25mm**

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRV70 / 4500

Bez bypass-a
Without bypass





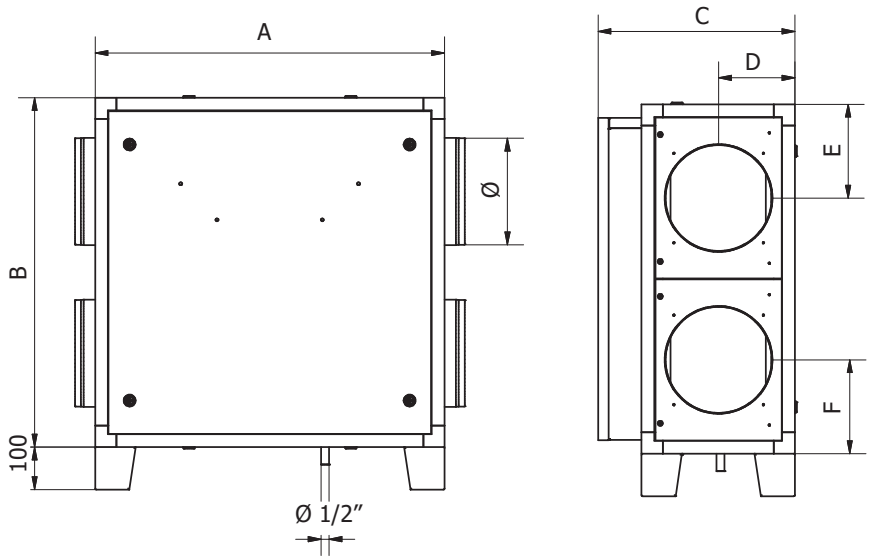
A: Dužina	[mm]	1200
B: Širina	[mm]	1300
C: Visina	[mm]	855
D	[mm]	427,5
E	[mm]	305
Ø: Prečnik prirubnice	[mm]	450
Težina	[kg]	171

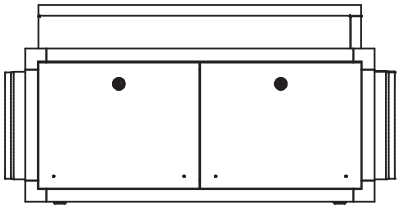
Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**MONOFAZNI CBM-10/10 750 4P VR (230V50)F V5** **TROFAZNI Nicotra DDM-10/10 750 4P**
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

TEHNIČKI CRTEŽI I TABELE
TECHNICAL DRAWING AND TABLES

JRVB70 / 4500

Sa bypass-om
With bypass



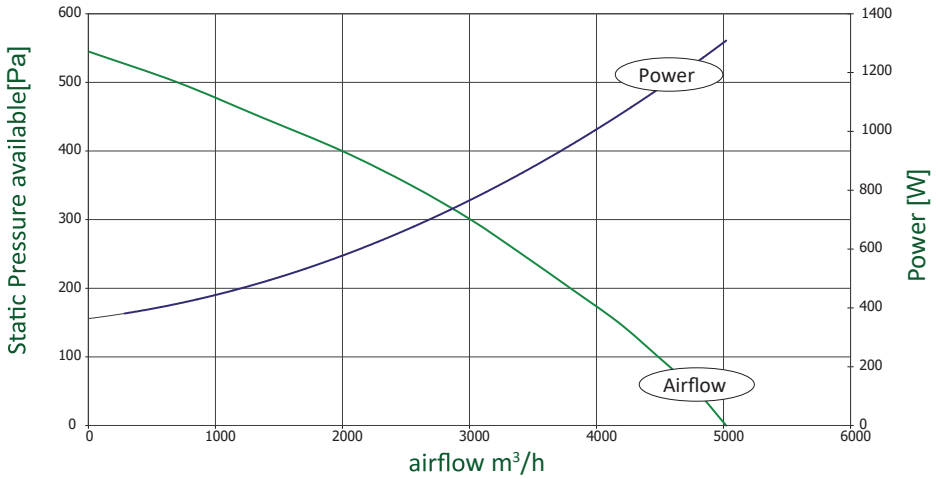


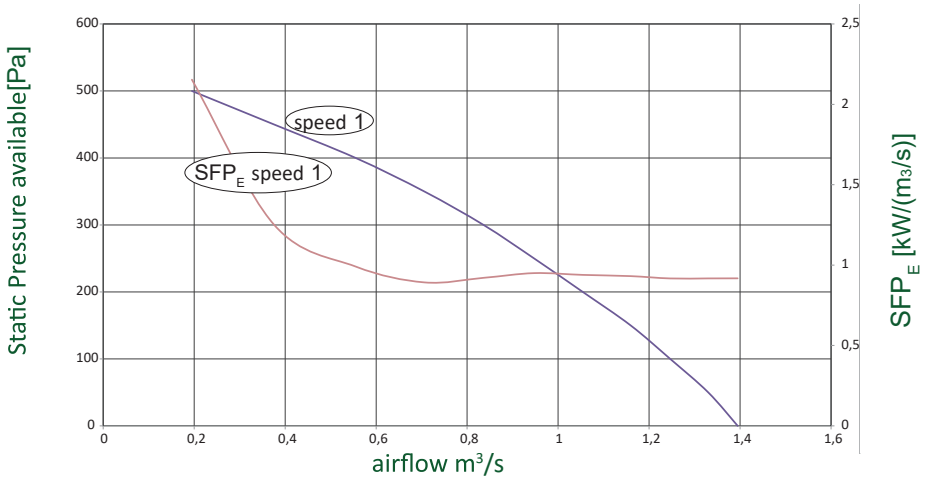
A: Dužina	[mm]	1200
B: Širina	[mm]	1300
C: Visina	[mm]	855
D	[mm]	427,5
E	[mm]	305
Ø: Prečnik prirubnice	[mm]	450
Težina	[kg]	171

Tip izmenjivača *Exchanger type*	**Aluminijumska ploča, unakrsan protok** ***Aluminium plate cross flow***
Model ventilatora *Fan model*	**MONOFAZNI CBM-10/10 750 4P VR (230V50)F V5** **TROFAZNI Nicotra DDM-10/10 750 4P**
Mesto ugradnje *Installation*	**Unutar ili van objekta** ***Indoor or outdoor***
Orjentacija ugradnje *Installation position*	**Vertikalna** ***Vertical***
Kućište *Case structure*	**25mm**

TEHNIČKI PODACI
TECHNICAL DATA

JR(H/V)(B)70 / 4500

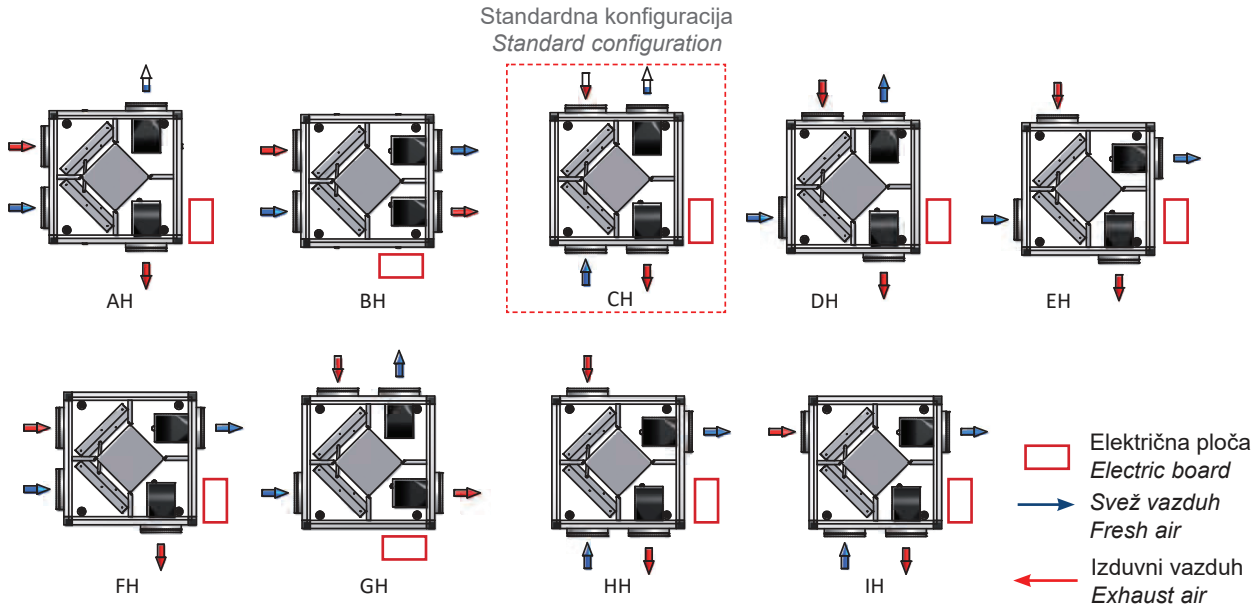




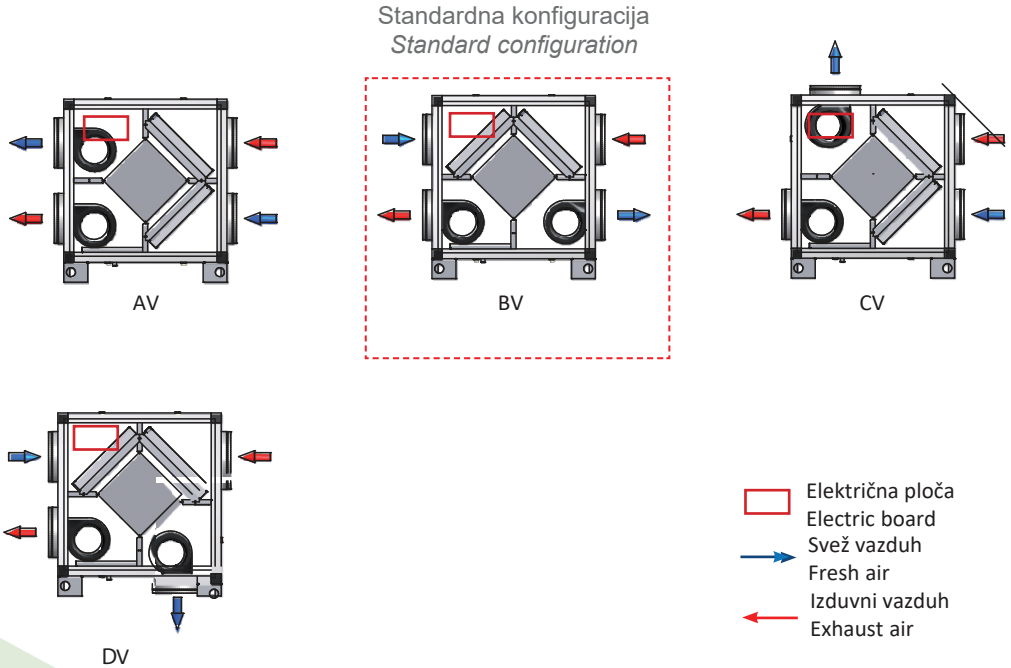
Nominalni protok vazduha (m3/h) *Nominal flow rate (m3/h)*	**4.500**
Filter dovodnog vazduha *Fresh air filter*	**F7,F9**
Filter izduvnog vazduha *Exhaust filter*	**G4**
Opseg temperature (°C) *Operating temperature (°C)*	**-15 / +50**
Napon *Supply voltage*	Monofazni - **230V - 50Hz** Trofazni - **400V-3-50Hz**
Snaga motor [W] Fan motor power [W]	**750x2**
Maksimalna struja (A) *Maksimum current (A)*	Monofazni **- 15,6** Trofazni **- 6,2**
Jačina zvuka (dBA) *Surrouding sound (dBA)*	**75**

INSTALACIJA
INSTALLATION

Horizontalna instalcija
Horizontal installation

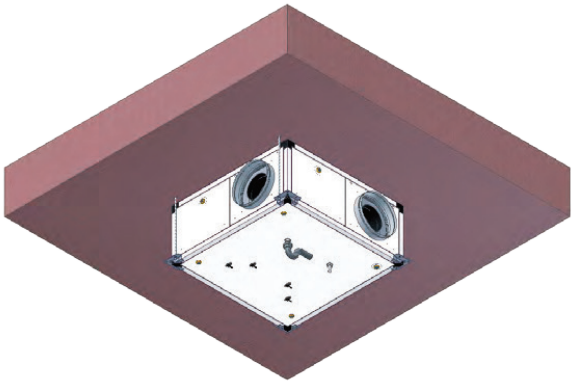


Vertikalna instalcija
Vertical installation



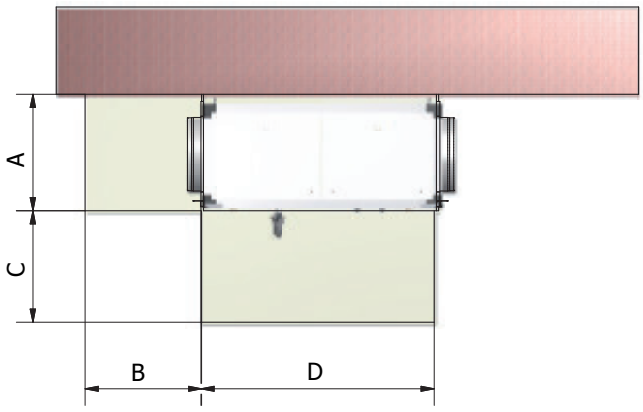
INSTALACIJA
INSTALLATION

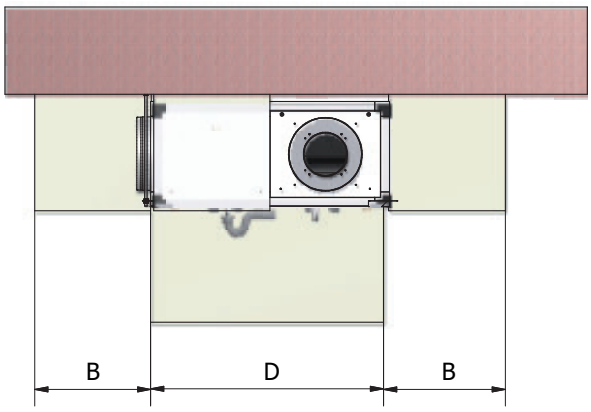
Plafonska ugradnja
Celing mounted



Model	A	B	C	D
JR(H/V)(B)70/900	360	400	400	820
JR(H/V)(B)70/2000	535	400	600	1040
JR(H/V)(B)70/3000	630	500	700	1270
JR(H/V)(B)70/4500	855	500	900	1300

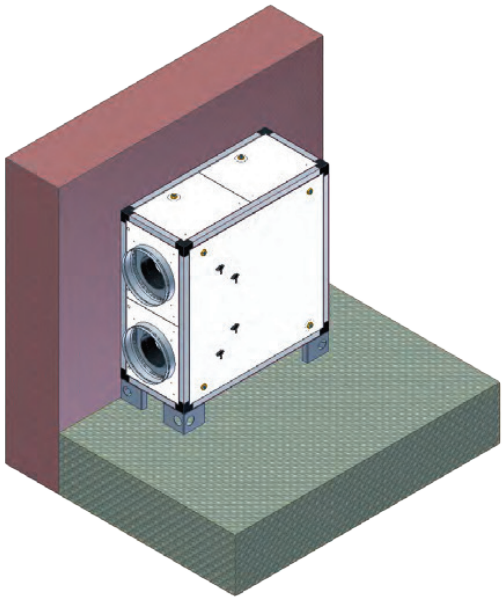
Minimalan potreban prostor za održavanje (mm)
Minimum required space for maintenance (mm)





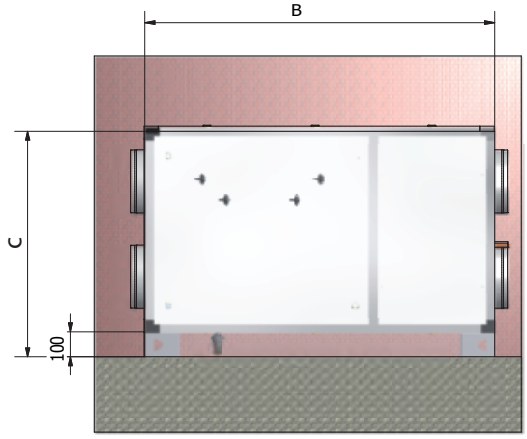
INSTALACIJA
INSTALLATION

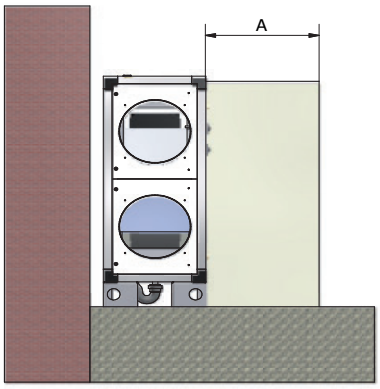
Podna ugradnja
Floor mounted



Model	A	B	C
JR(H/V)(B)70/900	400	1230	920
JR(H/V)(B)70/2000	600	1560	1140
JR(H/V)(B)70/3000	700	1900	1370
JR(H/V)(B)70/4500	900	1550	1300

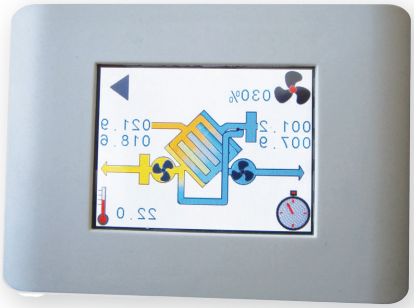
Minimalan potreban prostor za održavanje (mm)
Minimum required space for maintenance (mm)





KONTROLERI
MICROPROCESSOR CONTROLS

EVO PH



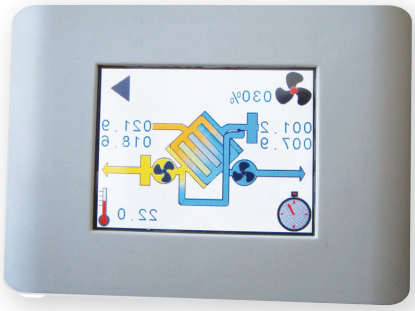
1. Sinhrona regulacija ventilatora na usisu i potisu (kontrola 3/4-brzinskih motora, analogni napon 0-10V, tajmerom, PIR ili VOD)
2. Priključak za redno vezane termičke zaštite oba motora
3. Očitavanje 4 ugrađene temperaturske sonde
4. Priključak za javljač požara
5. Kontrola motora by-pass(a)
6. Kontrola recirkulacionog regulatora protoka (dampera)
7. Kontrola električnog predgrejača
8. Kontrola električnog dogrejača
9. Priključak za radni i sigurnosni termostat el. grejača
10. Kontrola do 2 trokraka ventila za vodene izmenjivača istovremeno, za hlađenje i grejanje (ON-OFF ili kontinualno sa komandnim signalom 0-10V)
11. Upozorenje za zaprljanost filtera (ugrađena 2 presostata)
12. Sedmična dvokratna programska šema rada
13. Master-Slave uređenje do 4 istovetne jedinice

1. Synchronous regulation of fans on suction and extraction (control of 3/4-speed motors, analog voltage 0-10V, timer, PIR or VOD)
2. Connection for the thermal protection of both motors when serial connected
3. 4 internal temperature probes readings
4. Fire alarm connection
5. By-pass motor control
6. Control of the recirculation flow regulator (damper)
7. Control of the electrical preheater
8. Control of the electrical after heater
9. Connection for the electric heater's operating and safety thermostat
10. Control of two three-way valves used for cooling and heating water exchangers (ON-OFF or continuous with command signal 0-10V)
11. Filter contamination alert (built-in 2 pressure switches)
12. Work schedule for two programs per week
13. Master-Slave configuration using up to four identical units

NAPOMENA:
Ako se koristi opcija 6, onda za opciju 10 važi da može da vodi samo jedan vodeni izmenjivač
NOTE:
Option 10 can only operate one water exchanger if option 6 is chosen.

KONTROLERI
MICROPROCESSOR CONTROLS

EVO PH-IP



1. Sinhrona regulacija ventilatora na usisu i potisu (kontrola 3/4-brzinskih motora, analogni napon 0-10V, tajmerom, PIR ili VOD, ako se upravlja uređajem preko MODBus(a) ventilatorima može da se upravlja nezavisno)
2. Priključak za redno vezane termičke zaštite oba motora
3. Očitavanje 4 ugrađene temperaturske sonde
4. Priključak za javljač požara
5. Kontrola motora by-pass(a)
6. Kontrola recirkulacionog regulatora protoka (dampera)
7. Kontrola električnog predgrejača
8. Kontrola električnog dogrejača
9. Priključak za radni i sigurnosni termostat el. grejača
10. Kontrola do 2 trokraka ventila za vodene izmenjivača istovremeno, za hlađenje i grejanje (ON-OFF ili kontinualno sa komandnim signalom 0-10V)
11. Upozorenje za zaprljanost filtera (ugrađena 2 presostata)
12. Sedmična dvokratna programska šema rada
13. Master-Slave uređenje do 4 istovetne jedinice
14. MODBus-TCP protokol ili na zahtev MODBus-RTU

1. Synchronous regulation of fans on suction and extraction (control of 3/4-speed motors, analog voltage 0-10V, timer, PIR or VOD, if you control the unit with MODBus then you can control fan independetlly)
2. Connection for the thermal protection of both motors when serial connected
3. 4 internal temperature probes readings
4. Fire alarm connection
5. By-pass motor control
6. Control of the recirculation flow regulator (damper)
7. Control of the electrical preheater
8. Control of the electrical after heater
9. Connection for the electric heater's operating and safety thermostat
10. Control of two three-way valves used for cooling and heating water exchangers (ON-OFF or continuous with command signal 0-10V)
11. Filter contamination alert (built-in 2 pressure switches)
12. Work schedule for two programs per week
13. Master-Slave configuration using up to four identical units
14. MODBus-TCP protocol, or MODBus-RTU upon request

NAPOMENA:
Ako se koristi opcija 6, onda za opciju 10 važi da može da vodi samo jedan vodeni izmenjivač
NOTE:
Option 10 can only operate one water exchanger if option 6 is chosen.

KONTROLERI
CONTROLS

Kontrola ventilatora
Fan control



PARKER



CV-3

Model	Monofazni ventilatori (230V-1-50Hz)	Trofazni ventilatori (400V-350Hz)	
	Zasebna kontrola ventilatora	Zasebna kontrola ventilatora	Istovremeno kontrola oba ventilatora
JR(H/V)(B)70/900	CV-4		
JR(H/V)(B)70/2000	CV-3		
JR(H/V)(B)70/3000	CV-3		
JR(H/V)(B)70/4500		Parker AC10 10G-42-0040-BN IP20	Parker AC10 10G-43-0080-BN IP20

CV 4 - 4-brzinski prekidač / 4 speed switche
CV 3 - 3-brzinski prekidač / 3 speed switche
Parker - Frekventni regulator / Inverter

SENZORI / DIFERENCIJALNI PRESOSTAT
SENSORS / DIFFERENTIAL PRESSURE SWITCH

Senzori
Sensors



-**EE80**- CO2 senzor
-**QPA 2002**- CO2/VOC senzor kvaliteta vazduha
-**EE16**- senzor za vlažnost vazduha

- EE80 CO2 sensor;
- QPA 2002 CO2/VOC air quality sensor;
- EE16 Humidity sensor.

Diferencijalni presostat
Differential Pressure Switch



Dwyer ADPS-08-2-N

ADPS diferencijalni presostat se koristi za kontrolu nadpritiska, vakuma i diferencijalnog pritiska. Prekidač sa skalom omogućava podešavanje pritiska bez manometra.

The ADPS Adjustable Differential Pressure Switch is designed for overpressure, vacuum, and differential pressure applications. The scaled adjustment knob allows changes to the switching pressure to be made without a pressure gage.

DODATNA OPREMA
ACCESSORIES

EVO PREDGREJAČ I DOGREJAČ
ELECTRICAL EVO PRE/POST-HEATER

Model	Nominalna snaga (kW) Nominal power (kW)	Napon (V) Voltage (V)	Faze Phases	Stepen kontrole Stages	Temperatura usisnog vazduha (°C)* Intake air temp. on exchanger (°C)*	Temperatura usisnog vazduha (°C)** Intake air temp. on exchanger (°C)**
JR(H/V)(B)70/900	4	230	1	1	-3	20
JR(H/V)(B)70/2000	6	400	1	1	0	21
JR(H/V)(B)70/3000	8	400	3	1	-5	20
JR(H/V)(B)70/4500	12	400	3	1	-5	22

*Spoljašnja temperatura tokom merenja = -15°C nominalni protok vazduha

Measured with external air temp.= -15°C nominal airflow

**Spoljašnja temperatura tokom merenja = 8°C, nominalni protok vazduha.
Gubitak pritiska između 2 i 10 Pa

*Measured with intake air temp.= 8°C and nominal airflow.
Loss of pressure between 2 and 10 Pa*

RCFE-SCT / RCF-SCTTC PREDGREJAČ I DOGREJAČ
ELECTRICAL PRE/POST-HEATER RCFE-SCT and RCF-SCTTC

Model	Nominalna snaga (kW) Nominal power (kW)	Napon (V) Voltage (V)	Faze Phases	Stepen kontrole Stages	Temperatura usisnog vazduha (°C)* Intake air temp. on exchanger (°C)*	Temperatura usisnog vazduha (°C)** Intake air temp.on exchanger (°C)**
JR(H/V)(B)70/900	4	230	1	2/1	-3	20
JR(H/V)(B)70/2000	6	400	1	1/2	0	21
JR(H/V)(B)70/3000	8	400	3	2	-5	20
JR(H/V)(B)70/4500	12	400	3	2	-5	22

*Spoljašnja temperatura tokom merenja = -15°C nominalni protok vazduha

Measured with external air temp.= -15°C nominal airflow

**Spoljašnja temperatura tokom merenja = 8°C, nominalni protok vazduha.
Gubitak pritiska između 2 i 10 Pa na RCF(E) delu

*Measured with intake air temp.= 8°C and nominal airflow.
Loss of pressure between 2 and 10 Pa on the air side of the RCF(E) section*

DODATNA OPREMA
ACCESSORIES

BA-AC VRELOVODNI DOGREJAČ
BA-AC POST-HEATING HOT WATER COIL

Bez regulacije, režim 80/70°C
Without regulation, regime 80/70°C

Model	Redovi Rows	Snaga (kW) Power (kW)	Temperatura izlaznog vazduha (°C) Replacement air outlet temp. (°C)	Gubitak pritiska (Pa) Air side pressure loss (Pa)	Gubitak pritiska (Pa) Water side pressure loss (kPa)	Prečnik (mm) Connection size (mm)
JR(H/V)(B)70/900	2	5,75	29,2	32	2,5	250
JR(H/V)(B)70/2000	2	10,67	24,4	31	41	315
JR(H/V)(B)70/3000	2	14,29	21,9	27	21	355
JR(H/V)(B)70/4500	2	30	29	60	10	450

Vrednosti su merene pod sledećim uslovima: voda 80°/70°C; Temperatura usisnog vazduha : 8°C; nominalni protok vazduha.
Values referring to the following conditions: water 80°/70°C; Intake air temp. 8°C; nominal airflow.

-Uz vodene izmenjivače se ne isporučuje trokraki ventil.
Three-way valve is not included with water exchangers.

BA-AT TOPLOVODNI DOGREJAČ
BA-AT POST-HEATING HOT WATER COIL

Režim 45/35°C
Regime 45/35°C

Model	Redovi Rows	Snaga (kW) Power (kW)	Temperatura izlaznog vazduha (°C) Replacement air outlet temp. (°C)	Gubitak pritiska (Pa) Air side pressure loss (Pa)	Gubitak pritiska (Pa) Water side pressure loss (kPa)	Prečnik (mm) Connection size (mm)
JR(H/V)(B)70/900	2	3,7	22,2	65	2,1	250
JR(H/V)(B)70/2000	2	7,9	20,3	95	4,9	315
JR(H/V)(B)70/3000	2	13,3	21,2	80	5,7	355
JR(H/V)(B)70/4500	3	20,6	22,1	90	6,1	450

Vrednosti su merene pod sledećim uslovima: voda 45°/35°C; Temperatura usisnog vazduha : 8°C; nominalni protok vazduha.
Values referring to the following conditions: water 45°/35°C; Intake air temp. 8°C; nominal airflow.

-Uz vodene izmenjivače se ne isporučuje trokraki ventil.
Three-way valve is not included with water exchangers.

DODATNA OPREMA
ACCESSORIES

BA-AF/AC VODENI IZMENJIVAČ
BA-AF/AC WATER COIL

Režim 7/12°C
Regime 7/12°C

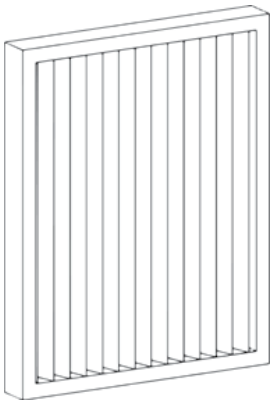
Model	Redovi Rows	Snaga (kW) Power (kW)	Gubitak pritiska (Pa) Air side pressure loss (Pa)	Gubitak pritiska (Pa) Water side pressure loss (kPa)	Prečnik (mm) Connection size (mm)
JR(H/V)(B)70/900	4	4,6	75	5	250
JR(H/V)(B)70/2000	4	10,9	90	11	315
JR(H/V)(B)70/3000	4	17,1	90	13	355
JR(H/V)(B)70/4500	4	27	100	13	450

Vrednosti su merene pod sledećim uslovima: voda 7°/12°C; Temperatura usisnog vazduha : 32°C; nominalni protok vazduha.
Values referring to the following conditions: water 7°/12°C; Intake air temp. 32°C; nominal airflow.

-Uz vodene izmenjivače se ne isporučuje trokraki ventil.
Three-way valve is not included with water exchangers.

DODATNA OPREMA
ACCESSORIES

FILTERI
FILTERS



Rekuperator toplote se isporučuje sa filter(om/ima) za svež (klasa F7) i za korišćen vazduh (klasa G4), a na zahtev za svež vazduh može umesto F7 da se ugradi filter klase F9.

The recuperator comes equipped with filters for both fresh air (class F7) and used air (class G4), and on request, a class F9 filter can be added in place of a class F7 filter.

Model	Dimenzije DxVxŠ Dimensions LxHxW	Količina po uređaju Pieces per unit
JR(H/V)(B)70/900	250x400x48	1
JR(H/V)(B)70/2000	430x580x48	1
JR(H/V)(B)70/3000	500x625x48	1
JR(H/V)(B)70/4500	400x500x48	2

Zaštita
PROTECTIVE ACCESSORIES

SKMF-R zaštita od vremenskih neprilika
T krov za zaštitu od vremenskih neprilika

SKMF-R weather protection cowl;
T weather protective roof.

2023



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