BIEMMEDUE
heating, cleaning and drying

GASOLIO OIL · GPL LPG · METANO NATURAL GAS

ERP 2018 COMPLIANCE · ERP 2021 COMPLIANCE



NEW

SP

INDUSTRIJSKI FIKSNI GENERATORI TOPLOG VAZDUHA SA INDIREKTNIM SAGOREVANJEM

INDIRECT COMBUSTION INDUSTRIAL CABINET SPACE HEATERS

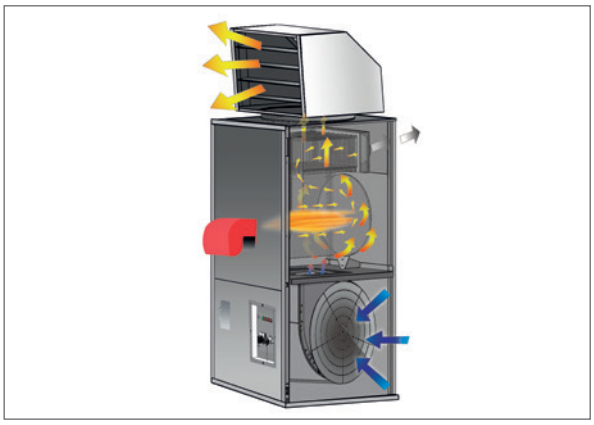
SP - INDUSTRIJSKI FIKSNI GENERATORI TOPLOG VAZDUHA SA INDIREKTNIM SAGOREVANJEM

- Gorionik sa snorkel priključkom za čist vazduh za sagorevanje, povezan kanalom za usisavanje vazduha spolja
- Novi izmenjivač toplote u kombinaciji sa novim ventilatorima većih performansi omogućava toplotno iskorišćenje od 92 ÷93%
- Prethodno zagrevanje i naknadna ventilacija komore sagorevanja
- Paneli sa unakrsnim ojačanim naborima za veću krutost i čvrstoću (SP 110-235)
- Termostati: FAN za ventilator; LIMIT za gorionik; OVERHEATING sigurnosni termostat pri pregrevanju, ručni reset.

- Noseća konstrukcija sa skidljivim panelima za unutrašnje pranje, čak i dok je mašina obešena
- Za pričvršćivanje se koriste isključivo metrički zavrtnji i umeci, bez samorezujućih zavrtnjeva
- Zaštićeni ventilator (IP 55):
  - veoma tih (buka ≤ 69 db na 2 metra);
  - visokog napora i performansi, što obezbeđuje veći protok vazduha i statički pritisak (500 Pa) za ravnomernu distribuciju toplog vazduha na velike udaljenosti putem kanala;
  - ventilator pričvršćen za nosivu konstrukciju pomoću čvrstih nosača i držača za pričvršćivanje;
  - podesiva klapna svežeg vazduha (SP 110-235);
- Električna komandna tabla (IP 65):
  - može se povezati na termostat/higrostat/tajmer
  - ugrađena u donji deo

- *Burner is supplied with snorkel outlet to ensure clean combustion air through connection with external air aspiration duct*
- *The new heat exchanger combined with the new high-performance fans allow for heat output of 92 / 93%*
- *Before heating and after cooling of combustion chamber*
- *Panel with reinforcement cross pleats to ensure superior rigidity and strenght (SP 110-235)*
- *Thermostat: FAN for fan control; LIMIT: for burner control; OVERHEATING: safety thermostat in case of overheating, with manual reset*
- *Bearing structure with removable panels for internal washing, even on hanging machines*
- *All installation inserts and screws are exclusively metric, not self-tapping*
- *Ventilator (IP 55):*
  - *very low noise fan (noise level ≤ 69db at 2 meters)*
  - *high output, high performance fan guarantees increased air flow and static pressure (500 Pa) for uniform and long distance diffusion of warm air through channels or ducts*
  - *fan anchorage on machine's bearing structure through sturdy rods*
  - *adjustable fresh air re-uptake shutter (SP 110-235);*
- *Control rear electrical panel (IP 65):*
  - *can be connected to thermostat/humidostat/timer*
  - *Integrated in the bottom side*

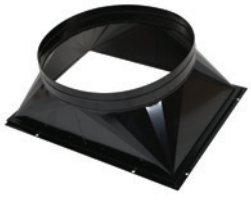
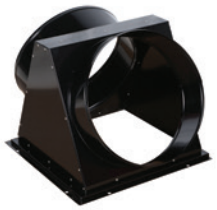






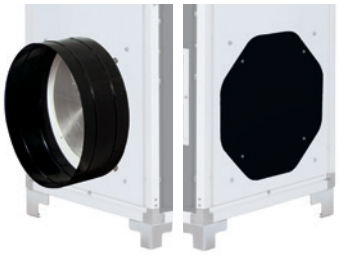


DODATNA OPREMA NA ZAHTEV / *ACCESSORIES ON DEMAND*

GLAVA ZA DISTRIBUCIJU VAZDUHA SA PODESIVIM LAMELAMA (PLENUM) *AIR OUTLET WITH ADJUSTABLE LOUVRES (PLENUM)*	OBRTNA GLAVA ZA DISTRIBUCIJU VAZDUHA 360° SA PODESIVIM LAMELAMA *AIR OUTLET HEAD WITH ADJUSTABLE LOUVRES, REVOLVING AT 360°*	KOMPLET ZAŠTITE GORIONIKA *BURNER PROTECTION KIT*
		
Mod. SP 35 **Šif.** 04AC101	**Mod.** SP 35 **Šif.** 04AC118	**Mod.** SP 35 **Šif.** 04AC120
Mod. SP 70 **Šif.** 04AC102		**Mod.** SP 70 **Šif.** 04AC121
Mod. SP 110 **Šif.** 04AC122	**Mod.** SP 70 **Šif.** 04AC119	**Mod.** SP 110 **Šif.** 04AC128
Mod. SP 235 **Šif.** 04AC124		**Mod.** SP 235 **Šif.** 04AC130
SOBNI TERMOSTAT +5/+30°C SA KABLOM L=10 m BEZ UTIKAČA *ROOM THERMOSTAT +5/+30°C CABLE 10 m WITHOUT PLUG*	**ELEKTRONSKI PRECIZNI TERMOSTAT IP55 SA DISPLEJOM -10/+70°C BEZ KABLA I UTIKAČA** *ELECTRONIC THERMOSTAT IP55 WITH DISPLAY -10/+70°C WITHOUT POWER CORD AND PLUG*	**SNORKEL PROLAZNA PLOČA + FLEKSIBILNI KANAL** *SNORKEL PASS PLATE + FLEXIBLE DUCT*
		
Šif. 02AC581	**Šif.** 02AC294	**Mod.** SP 35-70-110 (Ø 100 mm) **Šif.** 02AC793
		Mod. Kanal / *Duct* (Ø 100 mm, l= 5m) SP 35-70-110 (RIELLO-ECOFLAM) SP 235 (ECOFLAM) **Šif.** 02AC577
		Mod. SP 235 (Ø 150 mm) **Šif.** 02AC794
		Mod. Kanal /*Duct* (Ø 150 mm, l=5m) SP 235 (RIELLO) **Šif.** 02AC792
ADAPTER IZLAZA VAZDUHA *OUTLET ADAPTER*	**PRIKLJUČAK 1 PRAVAC** *ONE WAY ADAPTER*	**PRIKLJUČAK 2 PRAVCA** *TWO WAYS ADAPTER*
		
Mod. SP 35 **Šif.** 04AC107	**Mod.** SP 35 (Ø 450 mm) **Šif.** 02AC821**	**Mod.** SP 35 (Ø 400 mm) **Šif.** 02AC822**
Mod. SP 70 **Šif.** 04AC108	**Mod.** SP 70 (Ø 500 mm) **Šif.** 02AC831**	**Mod.** SP 70 (Ø 400 mm) **Šif.** 02AC832**
Mod. SP 110 **Šif.** 04AC125	**Mod.** SP 110 (Ø 600 mm) **Šif.** 02AC871**	**Mod.** SP 110 (Ø 500 mm) **Šif.** 02AC872**
Mod. SP 235 **Šif.** 04AC127	**Mod.** SP 235 (Ø 700 mm) **Šif.** 02AC891**	**Mod.** SP 235 (Ø 600 mm) **Šif.** 02AC892**

** Obavezno kombinovati sa „adapterom izlaza vazduha" - *Additionally it's necessary to buy "outlet adapter"*

SP - INDUSTRIJSKI FIKSNI GENERATORI TOPLOG VAZDUHA SA INDIREKTNIM SAGOREVANJEM

KOMPLET PROTIVPOŽARNE KLAPNE IZLAZ VAZDUHA (REI 120) *AIR OUTLET SHUTTER KIT (REI 120)*	PRIKLJUČAK ZA USISAVANJE *AIR INLET ADAPTER*	ARMIRANI KANAL ZA USISAVANJE VAZDUHA *REINFORCED FLEXIBLE AIR INLET DUCT*
		
Mod. SP 35 **Šif.** 02AC828**	**Mod.** SP 35 (Ø 505 mm) **Šif.** 04AC112	**Mod.** SP 35 (Ø 510 mm, l=6m) **Šif.** 02AC795
Mod. SP 70 **Šif.** 02AC838**	**Mod.** SP 70 (Ø 565 mm) **Šif.** 04AC113	**Mod.** SP 70 (Ø 570 mm, l=6m) **Šif.** 02AC796
Mod. SP 110 **Šif.** 02AC878**	**Mod.** SP 110 (Ø 645 mm) **Šif.** 02AC874	**Mod.** SP 110 (Ø 650 mm, l=6m) **Šif.** 02AC797
Mod. SP 235 **Šif.** 02AC898**	**Mod.** SP 235 (Ø 745 mm) **Šif.** 02AC894	**Mod.** SP 235 (Ø 750 mm, l=6m) **Šif.** 02AC804
		Mod. Svi/*All* Obujmica za fiksiranje kanala- *Clip for flexible duct* (Ø 400-750 mm) **Šif.** 02AC663

KOMPLET PROTIVPOŽARNE KLAPNE ULAZ VAZDUHA (REI 120) *AIR INLET FIRE SHUTTER KIT (REI 120)*	GASNI FILTER *GAS FILTER* (P.ul MAKS. 2 bar)	FILTER SA REGULATOROM GASA *GAS FILTER REGULATOR* (P.ul MAKS. 2 bar)
		
Mod. SP 35 (Ø 505 mm) **Šif.** 02AC908*	**Mod.** SP 35 -70 - 110 (DN 25 - 1") **Šif.** 03AC603	**Mod.** SP 35/70/110 METAN - *NATURAL GAS* (DN 25 3/4" ili 1") (P.izl. podešen 20mbar) **Šif.** 03AC617
Mod. SP 70 (Ø 565 mm) **Šif.** 02AC909*		**Mod.** SP 35/70/110 TNG - *LPG* (DN 25 3/4" ili 1") (P.izl. podešen 30mbar) **Šif.** 03AC618
Mod. SP 110 (Ø 645 mm) **Šif.** 02AC910*	**Mod.** SP 235 (DN 32 - 1 1/4") **Šif.** 03AC604	
Mod. SP 235 (Ø 745 mm) **Šif.** 02AC913*		**Mod.** SP235 (DN 32 - 1 1/4") (P.izl. nepodeš. - podesiti) **Šif.** 03AC602

GASNO CREVO SREDNJEG PRITISKA (l = 3 m) + ZATVORNI VENTIL + PRIKLJUČCI *MEDIUM PRESSURE GAS HOSE (l= 3 m) + GAS VALVE + CONNECTIONS* (P. MAKS. 10 bar)	GASNO CREVO NISKOG PRITISKA (l= 2 m) + VENTIL ZA ZATVARANJE + PRIKLJUČCI ZA POVEZIVANJE *LOW PRESSURE GAS HOSE (l= 2 m) + GAS VALVE + CONNECTIONS* (P.ul MAKS. 0,5 bar)	INOX DIMOVODNA CEV L = 1 m *STAINLESS STEEL EXHAUST PIPE L = 1 m*
		
Mod. SP 35 - 70 - 110 Crevo/*Hose* gas 1" **Šif.** 03AC615	**Mod.** SP 35 - 70 - 110 Crevo/*Hose* gas 1" **Šif.** 03AC612	**Mod.** SP 35/70/110 (Ø 150 mm) **Šif.** 02AC285
Mod. SP 235 Crevo/*Hose* gas 1 1/4" **Šif.** 03AC616		**Mod.** SP 235 (Ø 200 mm) **Šif.** 02AC287

* Obavezno kombinovati sa „priključkom za usisavanje" - *Additionally it's necessary to buy "air inlet adapter"*
** Obavezno kombinovati sa „adapterom izlaza vazduha" - *Additionally it's necessary to buy "outlet adapter"*

INOX DIMOVODNO KOLENO 90° ***STAINLESS STEEL EXHAUST ELBOW***	**INOX KAPA DIMNJAKA** ***STAINLESS STEEL CHIMNEY POT***
	
Mod. SP 35/70/110 (Ø 150 mm) **Šif.** 02AC288	**Mod.** SP 35/70/110 (Ø 150 mm) **Šif.** 02AC657
Mod. SP 235 (Ø 200 mm) **Šif.** 02AC290	**Mod.** SP 235 (Ø 200 mm) **Šif.** 02AC658

Električna tabla - *electrical panel*

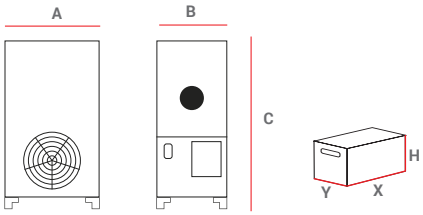


Legenda

1 Lampica gorionika
2 Lampica pregrevanja motora
3 Lampica pregrevanja termostata (overheating limit)
4 Lampica električnog napajanja
5 Prekidač sa 4 položaja:
O= STOP
V= VENTILACIJA (SVEŽ VAZDUH)
H= GREJANJE
H+V= GREJANJE SA STALNOM VENTILACIJOM
6 Utičnica za sobni termostat/higro - stat/tajmer

Legend

1 Burner power indicator light
2 Motor overheat indicator light
3 Thermostat overheat indicator light (overheating)
4 Electric power indicator light
5 Switch 4 positions:
***O**= STOP*
***V**= VENTILATION (FRESH AIR)*
***H**= HEATING*
***H+V**= HEATING WITH CONTINUOUS VENTILATION*
6 Socket for thermostat ambient/humi-distat/timer



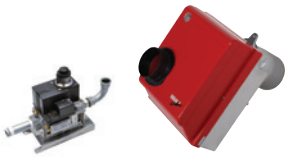
TEŽINA I DIMENZIJE MAŠINE ***WEIGHTS AND DIMENSIONS MACHINE***					**PAKOVANJE** ***PACKAGING***			
MOD	A	B	C	Neto/*Net*	X	Y	H	Bruto/*Gross*
	[mm]	[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[kg]
SP 35	724	511	1.308	102	1.270	785	660	122
SP 70	791	581	1.478	141	1.420	800	730	161
SP 110	1.092	646	1.678	225	1.150	700	1.750	255
SP 235	1.450	911	2.120	370	1.500	980	2.215	400

SP - INDUSTRIJSKI FIKSNI GENERATORI TOPLOG VAZDUHA SA INDIREKTNIM SAGOREVANJEM
INDIRECT COMBUSTION INDUSTRIAL CABINET SPACE HEATERS

		SP 35 (OIL - GAS)	SP 70 (OIL - GAS)	SP 110 (OIL - GAS)	SP 235 (OIL - GAS)
šifra - *code*		04SP101	04SP102	04SP103	04SP105
nom. toplotna snaga *rated heat power*	Hs [kW] Hs [kcal/h - BTU/h]	34,76 29.891-119.564	70,78 60.869-243.476	110,59 95.108-380.431	235,72 202.715-810.861
korisna toplotna snaga *output heat power*	Hs [kW] Hs [kcal/h - BTU/h]	32,64 28.068-112.270	65,96 56.730-226.919	103,29 88.831-355.322	219,69 188.931-755.722
toplotno iskorišćenje *heat efficiency*	[%]	93,90	93,20	93,40	93,40
protok vazduha *air flow*	[m^3/h]	2.700	6.000	10.500	21.000
rasp. statički pritisak *available static press.*	[Pa - mm H_2O]	150-15	150-15	300-30	500-50
potrošnja dizel goriva *fuel consumption*	[kg/h]	2,75	5,60	8,75	18,65
potrošnja metana *natural gas consumption G20*	[m^3/h]	3,25	6,45	10,275	21,854
ulazni pritisak *inlet pressure G20*	[mbar]	20	20	20	20
potrošnja TNG LPG consumption G31	[m^3/h - kg/h]	1,298-2,53	2,58-5,03	4,006-7,97	8,527-16,77
ulazni pritisak *inlet pressure G31*	[mbar]	37	37	37	37
električna snaga *power consumption* 230V	[W]	680	1.350	2.590	5.100-5.160
električno napajanje *electrical power*	[V - ph - Hz]	230-1-50	230-1-50	230-1-50	220/400-3-50
porast temperature *temperature rise*	[°C]	43	49	35	35

Vrednosti dobijene sa gorionicima podešenim prema ERP propisima, limiti 2018
Technical data obtained with burners set according to the ERP regulations limit 2018

GORIONICI NA ZAHTEV / *BURNERS ON DEMAND*

GORIONIK NA DIZEL ECOFLAM ***ECOFLAM DIESEL BURNER***	**GORIONIK NA DIZEL RIELLO** ***RIELLO DIESEL BURNER***	**GORIONIK RIELLO TNG + GASNA RAMPA** ***LPG RIELLO BURNER + GAS TRAIN***
		
Mod. SP 35 DIZEL/*OIL* **Šif.** 072B116	**Mod.** SP 35 DIZEL/*OIL* **Šif.** 076B106	**Mod.** SP 35 TNG/*LPG* **Šif.** 074B111-14
Mod. SP 70 DIZEL/*OIL* **Šif.** 072B117	**Mod.** SP 70 DIZEL/*OIL* **Šif.** 076B107	**Mod.** SP 70 TNG/*LPG* **Šif.** 074B101-14
Mod. SP 110 DIZEL/*OIL* **Šif.** 072B112	**Mod.** SP 110 DIZEL/*OIL* **Šif.** 076B102	**Mod.** SP 110 TNG/*LPG* **Šif.** 074B103-04
Mod. SP 235 DIZEL/*OIL* **Šif.** 072B115	**Mod.** SP 235 DIZEL/*OIL* **Šif.** 076B105	**Mod.** SP 235 TNG/*LPG* **Šif.** 074B105-08
GORIONIK RIELLO METAN + GASNA RAMPA ***NATURAL GAS RIELLO BURNER + GAS TRAIN***		
		
Mod. SP 35 METAN/*NATURAL GAS* **Šif.** 074B112-14		
Mod. SP 70 METAN/*NATURAL GAS* **Šif.** 074B102-14		
Mod. SP 110 METAN/*NATURAL GAS* **Šif.** 074B104-04		
Mod. SP 235 METAN/*NATURAL GAS* **Šif.** 074B106-08		

SP - INDUSTRIJSKI GENERATORI TOPLOG VAZDUHA, INDIREKTNO SAGOREVANJE
INDIRECT COMBUSTION INDUSTRIAL CABINET SPACE HEATERS

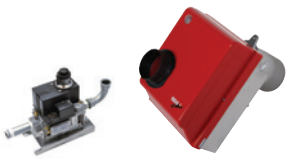
ZAJEDNIČKE VREDNOSTI GAS-DIZEL *COMMON OIL-GAS DATA*		SP 35 (OIL-GAS)	SP 70 (OIL-GAS)	SP 110 (OIL-GAS)	SP 235 (OIL-GAS)
šifra - *code*		04SP101	04SP102	04SP103	04SP105
protok vazduha *air flow*	[m^3/h]	2.700	6.000	10.500	21.000
rasp. statički pritisak *available static press.*	[Pa - mm H_2O]	150-15	150-15	300-30	500-50
električna snaga *power consumption 230V*	[W]	680	1.350	2.590	5.100-5.160
električno napajanje *electrical power*	[V - ph - Hz]	230-1-50	230-1-50	230-1-50	220/400-3-50
porast temperature *temperature rise*	[°C]	30	43	30	34

DIZEL VERZIJA *OIL VERSION*		SP 35 (OIL)	SP 70 (OIL)	SP 110 (OIL)	SP 235 (OIL)
nom. toplotna snaga *rated heat power*	Hs [kW] Hs [kcal/h - BTU/h]	25,91 22.282 - 89.129	59 50.760 - 203.041	95,40 82-042 - 326.529	198,35 170.585 - 678.928
korisna toplotna snaga *output heat power*	Hs [kW] Hs [kcal/h - BTU/h]	24,31 20.906 - 83.623	55,21 47.481 - 189.925	89,66 77.109 - 306.895	185 159.177 - 633.527
toplotno iskorišćenje *heat efficiency*	[%]	93,86	93,54	94	93,31
potrošnja dizel goriva *fuel consumption*	[kg/h]	2,05	4,67	7,55	15,70

GASNA VERZIJA *GAS VERSION*		SP 35 (GAS)	SP 70 (GAS)	SP 110 (GAS)	SP 235 (GAS)
nom. toplotna snaga *rated heat power*	Hs [kW] Hs [kcal/h - BTU/h]	28,3 24.336 - 97.343	59,54 51.201 - 204.804	93,48 80.394 - 321.574	189,88 163.296 - 653.185
korisna toplotna snaga *output heat power*	Hs [kW] Hs [kcal/h - BTU/h]	26,77 23.024 - 92.097	55,73 47.924 - 191.696	87,80 75.506 - 302.023	179,55 154.413 - 617.632
toplotno iskorišćenje *heat efficiency*	[%]	94,6	93,6	93,92	94,56
potrošnja metana *natural gas consumption G20*	[m^3/h]	2,6	5,487	8,597	17,364
ulazni pritisak *inlet pressure G20*	[mbar]	20	20	20	20
potrošnja TNG LPG consumption G31	[m^3/h - kg/h]	0,993 - 2,04	2,111 - 4,21	3,398 - 6,79	6,869 - 13,89
ulazni pritisak *inlet pressure G31*	[mbar]	37	37	37	37

Vrednosti dobijene sa gorionicima podešenim prema ERP propisima, limiti 2021
Technical data obtained with burners set according to the ERP regulations limit 2021

GORIONICI NA ZAHTEV / *BURNERS ON DEMAND*

GORIONIK NA DIZEL ECOFLAM *ECOFLAM DIESEL BURNER*	GORIONIK RIELLO TNG + GASNA RAMPA *LPG RIELLO BURNER + GAS TRAIN*	GORIONIK RIELLO METAN + GASNA RAMPA *NATURAL GAS RIELLO BURNER + GAS TRAIN*
		
Mod. SP 35 DIZEL/*OIL* **Šif.** 072B126	**Mod.** SP 35 TNG/*LPG* **Šif.** 074B111-14	**Mod.** SP 35 METAN/*NATURAL GAS* **Šif.** 074B112-14
Mod. SP 70 DIZEL/*OIL* **Šif.** 072B127	**Mod.** SP 70 TNG/*LPG* **Šif.** 074B101-14	**Mod.** SP 70 METAN/*NATURAL GAS* **Šif.** 074B102-14
Mod. SP 110 DIZEL/*OIL* **Šif.** 072B122	**Mod.** SP 110 TNG/*LPG* **Šif.** 074B103-04	**Mod.** SP 110 METAN/*NATURAL GAS* **Šif.** 074B104-04
Mod. SP 235 DIZEL/*OIL* **Šif.** 072B125	**Mod.** SP 235 TNG/*LPG* **Šif.** 074B105-08	**Mod.** SP 235 METAN/*NATURAL GAS* **Šif.** 074B106-08

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