

BLS 2800next



POWERED AIR PURIFYING RESPIRATORS WITH DUST AND COMBINED FILTERS

BLS 2800next PAPR complies with EN 12941:1998 + A2:2008 standard, and is designed to be combined with BLS HS23 / HL24 hoods and BLS HV25 visor. It can be used with dust or combined filters and is TH3-rated, suitable for use in ATEX environments (Zone 1 and Zone 21, depending on the filter used).

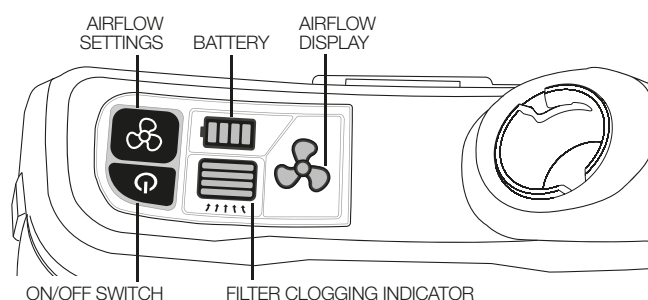


DEVICE DESCRIPTION

The kit includes the complete blower, attached to a wide belt combined with a comfortable replaceable padding, a battery, a battery charger complete with charging base, and two flow indicators: one of them to be used with the EV-05 corrugated tube, and one with the EV-04 quick-connect tube, to be selected according to the chosen head protection.

FUNCTIONING

The device is operated by means of an embossed ON/OFF button; a second button allows the user to select the desired airflow, which is displayed by means of the special LED light. The display located on the body also allows the user to view the battery charge status, as well as the level of clogging of the dust filter: in both cases, the alarm provides a visual, audible and vibrating signal. To turn the device on, press the ON/OFF button for 3 seconds, while turning it off is done by pressing and holding the same button for a few seconds until the acoustic signal ceases.



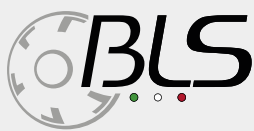
AIRFLOW

When the unit is turned on, the default airflow is 170 l/min: a press on the airflow setting button allows the flow of 190 l/min and 210 l/min to be selected successively. There is evidence of the selected flow by the gradual illumination of the indicator LEDs:

Display	Sound	Indication
	–	Standard flow
	–	Medium flow
	–	High flow
	Sound and flash alarm	Breathing tube disconnected

BATTERY CHARGE STATUS

The display on the blower also has a battery charge status indicator: when the battery is low, the battery LED flashes and an acoustic alarm sounds. The battery is attached to the blower by means of a screw to be positioned by means of a spanner, supplied with the device; when the device is finished using it, the battery must be unhooked by unscrewing the screw, and fixed in the same way on the charging base: charging time is approximately 2.5 hours. To check the charging status, press the battery indicator button on the battery itself: the illuminated bars indicate the charging status.



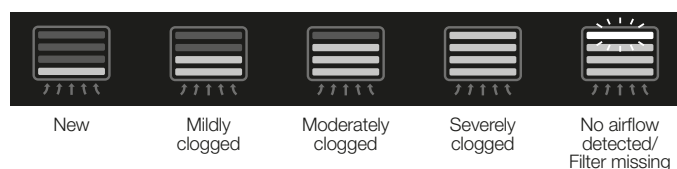
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FILTER CLOGGING INDICATOR

There is a filter clogging indicator, which is progressive: the more LED segments light up, the greater the level of filter clogging. When the three LEDs light up intermittently, an audible indicator combined with vibration signals the need to replace the filter. The indicator only refers to the saturation level of the dust filter, whereas gas filters should be replaced when the smell of the substance you are protecting against is detected, as is the case for all filter devices.



BATTERY

The device is equipped with a rechargeable 10.8 V - 6200 mAh lithium-ion battery.



EV-13
Intrinsically safe battery



EV-19
Charging base

AVAILABLE FILTERS

BLS 2800next can be combined with dust filters type P3 R SL, as well as combined filters A2P3 and ABEK1P3.

Article	Marking	Colour code	Protection against
BLS 802	P (R SL)		Particulates (R = reusable, SL = tested with sodium chloride and paraffin oil)
BLS 821	A2P3		Organic gases and vapours with boiling point > 65 °C + particulates
BLS 822	A1B1E1K1P3		Organic, inorganic, acid and sulphur dioxide gases and vapours, ammonia and organic ammonia derivatives + particulates
BLS 801	-	-	Prefilter for coarse dust

HEADTOPS

BLS 2800next must only be used in conjunction with BLS head protection devices:

- BLS HV25 visor with integrated helmet;
- BLS HS23 and BLS HL24 hoods.



HV25
Visor with integrated helmet



HS23
Hood



HL24
Hood with shoulder cover

HOW TO ASSEMBLE A COMPLETE UNIT

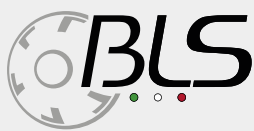
CONFIGURATION 1

Kit BLS 2800next 8103020	+	EV-05 corrugated hose 8103030	+	BLS HS23 hood 8103034 or BLS HL24 hood 8103035	+	BLS 802 P3 R SL filter 8103026
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CONFIGURATION 2

Kit BLS 2800next 8103020	+	EV-04 corrugated hose 8103029	+	BLS HV25 visor 8103036	+	BLS 802 P3 R SL filter 8103026 or BLS 821 A2P3 filter 8103027 or BLS 822 ABEK1P3 filter 8103028
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NOTE: The BLS 2800next configuration with BLS HS23/HL24 hoods is only certified in combination with the BLS 802 P3 R SL dust filter.



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FIELDS OF APPLICATION

BLS 2800next PAPR, like all filtering devices, cannot be used in areas with oxygen concentration < 17% or > 23%, nor when the contaminant to be protected against is odourless. It is suitable for ATEX, Zone 1 and Zone 21 environments. Depending on the filter used, and the head protection device combined with it, BLS 2800next can be used in the following work environments (non-exhaustive list):

- Spray painting and related activities
- Powder Coating
- Oil & Gas
- Food Industry
- Grain Storage
- Mining

MATERIALS

BLOWER	Polycarbonate (PC) + Acrylonitrile butadiene styrene (ABS)
CORRUGATED HOSES	Thermoplastic polyurethane (TPU)
BELT	Polyester (PL) + Acrylonitrile butadiene styrene (ABS)
BELT PADDING	Ethylene Vinyl Acetate (EVA)
BELT BUCKLES	Polyoxymethylene (POM)
P3 FILTER CASE	Polycarbonate (PC) + Acrylonitrile butadiene styrene (ABS)
GAS FILTERS CASE	Polyamide (PA) + Acrylonitrile butadiene styrene (ABS)
P3 FILTER FILTERING MATERIAL	Glass fibre
GAS FILTERS FILTERING MATERIAL	Activated carbon

STORAGE

SHELF-LIFE	5 years
TEMPERATURE	- 20°C/+ 55°C
RELATIVE HUMIDITY	90% max

WARRANTY

BLOWER	2 anni
BATTERY	1 anno

IMPORTANT: The battery should not be left in storage for more than 6 months without being recharged.

TECHNICAL DATA

AIRFLOW

Standard speed:	170+ l/min
Medium speed:	190+ l/min
High speed:	210+ l/min

STANDARD BATTERY

Battery type:	Li-ion, ricaricabile (10,8 V; 6,2 Ah)
Duration with particulate filter:	11 hours at 170 l/min
Duration with combined filter:	9 hours at 190 l/min; 7 hours at 210 l/min

FILTRATION

P3 filter filtering efficiency:	> 99,97%
Filter options:	P3, A2P3, ABEK1P3

TEMPERATURE

Operating temperature:	- 10°C / + 50°C
Storage temperature:	- 20°C / + 55°C

RELATIVE HUMIDITY

When operating:	< 85%
When stored:	< 90%

WEIGHT

Blower unit:	1950 g (with belt and battery)
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INTRINSIC SAFETY

II 2 G:	Zone 1, Ex ib IIC T4 Gb
II 2 D:	Zone 21, Ex ib IIIB T135°C Db
I M2:	Category M2, Ex ib I Mb



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TRANSPORT

ARTICLE	CODE	DESCRIPTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
Kit BLS 2800next	8103020	Includes: blower, belt and padding, battery, battery charger and flow indicator	2,08	4,20
EV-04	8103029	Quick-connection corrugated hose for BLS 2800next to be used with BLS HV25 visor only	0,20	0,32
EV-05	8103030	Corrugated hose for BLS 2800next to be used with BLS HS23 and BLS HL24 hoods only	0,23	0,35

FILTERS

ARTICLE	CODE	DESCRIPTION	PROTECTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
BLS 801	8103025	Particulate prefilter (5 unit pack)	-	0,04	0,07
BLS 802	8103026	Particulate filter	P3 R SL	0,13	0,24
BLS 821	8103027	Combined filter	A2P3	0,85	0,95
BLS 822	8103028	Combined filter	ABEK1P3	0,90	1,00

ACCESSORIES AND SPARE PARTS

ARTICLE	CODE	DESCRIPTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
EV-2800next	8103019	Blower unit	0,96	1,13
EV-06	8103031	Cotton cover for corrugated hose for BLS HS23/HL24 hoods	0,204	0,325
EV-07	8103032	Cotton cover for corrugated hose for BLS HV25 visor	0,228	0,340
EV-13	8103021	Intrinsically safe battery	0,596	0,646
EV-14	8103022	Battery charger and charging base	0,518	0,522
EV-15	8103023	Rigid belt replacement	0,328	0,338
EV-16	8103024	Belt padding	0,68	0,78
EV-17	8103033	Support harness	0,212	0,255

CERTIFICATION

BLS 2800next PAPRs are:

- Certified according to European Regulation 2016/425 (Personal Protective Equipments)
- Tested and certified according to the harmonised technical standard EN 12941:1998 + A2:2008
- Compliant with the ATEX Directive 2014/34/EU
- Compliant with IEC 60079-0:2017; 60079-11:2011 standard
- Certified and controlled according to Annex D by CCQS Certification Services (Notified Body n° 2834)
- CE marked

BLS management system is ISO 9001 certified.



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ANNEX B AND ANNEX D

Notified Body CCQS Certification Services (N. 2834) Block 1 – Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1 – Ireland.

ATEX MARKING

II	ATEX II group: surface areas where potentially explosive atmospheres may be present due to mixtures of gas, vapours, mist or combustible dust.
2G	ATEX device: 2 = high protection level for zone 1; G = Gas.
2D	ATEX device: 2 = high protection level for zone 21; D = Dust.
Ex ib	Specifies category ib "intrinsically safe" type of protection: this protection ensures that the internal circuits have such a low power level that an explosive mixture will not be ignited, even in the event of a single fault. Use: Ideal for industrial environments where non-conductive combustible dust is present, such as in the food, chemical and timber industry.
IIC	Suitable for gas zone 2.
T4	Gas ignition temperature $135^{\circ}\text{C} \leq T < 200^{\circ}\text{C}$.
Gb	High protection level.
IIIB	Non-conductive dust group, such as plastic and wax dust, flour and similar dust (Zone 21).
T135°C	Maximum temperature of 135°C: maximum surface temperature that the device can reach.
Db	High protection level.
I	Equipment designed for use in underground mines where there is the risk of explosive atmospheres due to gas (such as methane) and explosive dust. Continuous, frequent or prolonged risk of explosive atmospheres.
M	Stands for 'Mining': the equipment is intended for use in underground mines or on their surface where the risk of explosion is due to the presence of gas (e.g. methane) and/or combustible dust.
2	Indicates the specific level or protection: the equipment can be used in the presence of potential explosive atmospheres, but must be switched off in the event of danger (e.g. during an emergency).
Mb	Indicates the level of protection: M = equipment intended for use in mines; b = level or protection that ensures that the device stays safe even in the event of foreseeable failures, continuing to provide a high level of protection against the risk of ignition.

IMPORTANT

BLS declines any responsibility, direct or indirect, from any misuse of both devices and instructions. User is responsible for the determination of product compliance with the intended use.