RESPIRATORY PROTECTION PRODUCTS

BLS SRL
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BLS 2700next

POWERED AIR PURIFYING RESPIRATORS WITH DUST AND COMBINED FILTERS

BLS 2700next powered air purifying respirator is compliant with EN 12941:1998 + A1:2003 + A2:2008, and is designed to be combined with BLS HS23 / HL24 hoods and BLS HV25 visor. Lightweight and versatile, it can be used with dust or combined filters, and is TH3-rated.

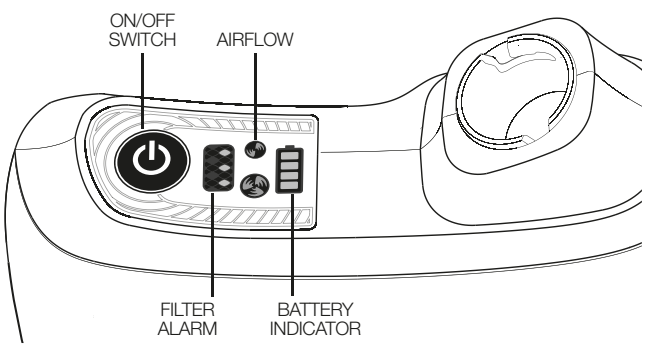


DEVICE DESCRIPTION

The kit includes the complete blower, attached to a comfortable, adjustable, padded belt. Also included are a quick-charge (1 hour) battery charger, and two flow indicators, one for use with the EV-02 hose, and one for use with the EV-01 quick-connect hose. To make up a complete unit, you will need to select the appropriate battery for your needs, the appropriate filter and the chosen head protection device, together with the relevant corrugated hose.

FUNCTIONING

The unit is operated by pressing the ON/OFF button for 3 seconds, which is large enough to be activated even by personnel wearing protective gloves: the airflow of 170 l/minute can be changed by pressing the ON/OFF button again, and switched to 210 l/min. Evidence of the selected airflow is provided by the two LEDs that light up according to the flow in use. The device is switched off by holding down the ON/OFF button for a few seconds until the acoustic signal stops.



BATTERY CHARGE STATUS

The display also features a battery charge status indicator: when only one of the segments is lit, an audible and vibrating indicator warns of the need to replace the battery: when the visual indicator becomes intermittent, the remaining operating time is 15 minutes.

FILTER CLOGGING INDICATOR

The device is equipped with a progressive clogging indicator: a higher number of lit LED segments corresponds to a higher 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 clogging of the dust filter. Gas filters should be replaced when the smell of the substance you are protecting against is detected, as is the case with all filter devices.

AVAILABLE FILTERS

BLS 2700next can be combined with TH3P R SL type dust filters, as well as combination filters: A2 and ABEK1 gas filters must necessarily be used in combination with the dust filter.

Article	Marking	Colour code	Protection against
BLS 702	**P (R SL)**		Particulate (R = reusable, SL = tested with sodium chloride and paraffin oil)
BLS 711	**A2**		Organic gases and vapours with boiling point > 65°
BLS 714	**A1B1E1K1**		Organic, inorganic, acid and sulphur dioxide gases and vapours, ammonia and organic ammonia derivatives
BLS 701	-	-	Prefilter for coarse dust

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BATTERIES

The device provides for the combination with two different batteries, to be selected according to the type of filter used. The battery charger is common to both. See the "TECHNICAL DATA" section for the duration of each battery.



EV-08
Fast-charging standard battery



EV-09
Fast-charging long-duration battery

HEADTOPS

BLS 2700next 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 2700next 8103005 + **Standard battery** 8103012 or **Long-duration battery** 8103013 + **EV-02 corrugated hose** 8103007 + **BLS HS23 hood** 8103034 or **BLS HL24 hood** 8103035 + **BLS 702 P3 R SL filter** 8103010 or (**BLS 702 P3 R SL filter** 8103010 + **BLS 711 A2 filter** 8103008) or (**BLS 702 P3 R SL filter** 8103010 + **BLS 714 ABEK1 filter** 8103009)

CONFIGURATION 2

Kit BLS 2700next 8103005 + **Standard battery** 8103012 or **Long-duration battery** 8103013 + **EV-01 corrugated hose** 8103006 + **BLS HV25 visor** 8103036 + **BLS 702 P3 R SL filter** 8103010 or (**BLS 702 P3 R SL filter** 8103010 + **BLS 711 A2 filter** 8103008) or (**BLS 702 P3 R SL filter** 8103010 + **BLS 714 ABEK1 filter** 8103009)

NOTE: For duration reasons, it is not recommended to use the standard battery with combined filters.

FIELDS OF APPLICATION

BLS 2700next 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. Furthermore, it is NOT suitable for ATEX environments. Depending on the filter used, and the head protection device combined with it, BLS 2700next may be used for the following work environments (non-exhaustive list):

- Spray painting and related activities (in non ATEX classified area)
- Agriculture
- Industrial cleaning
- Woodworking
- Grinding/deburring
- Silica protection
- Foundries
- Laboratories
- Hospitals
- Food industry

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MATERIALS

BLOWER	Polyamide (PA) + Acrylonitrile butadiene styrene (ABS)
CORRUGATED HOSES	Thermoplastic polyurethane (TPU)
BELT	Polyester (PL) + Acrylonitrile butadiene styrene (ABS)
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	– 10°C / + 55°C
RELATIVE HUMIDITY	85% max

WARRANTY

BLOWER	2 years
BATTERIES	1 year

IMPORTANT: Batteries must not be left in storage for more than 6 months without being recharged.

TECHNICAL DATA

AIRFLOW	
Low speed:	170+ l/min
High speed:	210+ l/min

STANDARD BATTERY	
Battery type:	Li-ion, rechargeable (14,4 V; 3,2 Ah)
Duration with particulate filter:	9 hours at 170 l/min; 5-6 hours at 210 l/min
Duration with combined filter:	4 hours at 170 l/min (non recommended)

LONG-DURATION BATTERY	
Battery type:	Li-ion, rechargeable (14,4 V; 6,4 Ah)
Duration with particulate filter:	15 hours at 170 l/min; 9 hours at 210 l/min
Duration with combined filter:	11 hours at 170 l/min; 7,5 hours at 210 l/min

FILTRATION	
P3 filter filtering efficiency:	> 99,97%
Filter options:	P3, A2+P3, ABEK1+P3

TEMPERATURE	
Operating temperature:	– 5°C / + 55°C
Storage temperature:	– 10°C / + 55°C

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

WEIGHT	
Blower unit:	886 g (with belt, without battery)

TRANSPORT

ARTICLE	CODE	DESCRIPTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
Kit BLS 2700next	8103005	Includes; blower, belt with padded support, battery charger, 2 flow meters, prefilter	0,88	1,78
EV-01	8103006	Quick-connection corrugated hose for BLS 2700next to be used with BLS HV25 visor only	0,20	0,32
EV-02	8103007	Corrugated hose for BLS 2700next to be used with BLS HS23 and HL24 hoods only	0,23	0,35
EV-08	8103012	Standard battery	0,33	0,40
EV-09	8103013	Long-life battery	0,55	0,62

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FILTERS

ARTICLE	CODE	DESCRIPTION	PROTECTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
BLS 701	8103011	Particulate prefilter (5 unit pack)	-	0,04	0,07
BLS 702	8103010	Particulate filter	P3 R SL	0,104	0,164
BLS 711	8103008	Gas filter	A2	0,81	0,89
BLS 714	8103009	Gas filter	ABEK1	0,90	0,98

ACCESSORIES AND SPARE PARTS

ARTICLE	CODE	DESCRIPTION	WEIGHT (Kg)	CARTON WEIGHT (Kg)
EV-10	8103014	Battery charger	0,356	0,402
EV-11	8103015	Support harness	0,206	0,208
EV-00	8103045	Blower BLS 2700next only	0,50	0,90
EV-03	8103017	Hose cover	0,08	0,09
EV-12	8103016	belt	0,20	0,20

CERTIFICATION

BLS 2700next PAPRs are:

- Certified according to European Regulation 2016/425 (Personal Protective Equipments)
- Tested and certified according to the harmonised technical standard EN 12941:1998 + A1: 2003 + A2:2008
- Certified and controlled according to Annex D by CCQS Certification Services (Notified Body n° 2834)
- CE marked

BLS management system is ISO 9001 certified.

ANNEX B

- *BLS 2700next + BLS HV25 + P3 filter*:
  Notified Body Apave SA (N. 0082) – 6 rue du Général Audran 92412 Courbevoie Cedex – France;

- *BLS 2700next + BLS HV25 + A2+P3/ABEK1+P3 filters* e *BLS 2700next + BLS HS23/HL24 + P3/A2+P3/ABEK1+P3 filters*:
  Notified Body CCQS Certification Services (N. 2834) Block 1 – Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1 – Ireland.

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.