

**URGENT Medical Device Recall**

**Philips Respironics – Sleep and Respiratory Care  
Notification to Patients**

**Amara View Minimal Contact Full-Face Mask  
DreamWear Full Face Mask  
DreamWisp Nasal Mask with Over the Nose Cushion  
Wisp Nasal Masks and Wisp Youth Nasal Masks  
Therapy Mask 3100 NC/SP**

September 15, 2022

**This document contains important information for the continued safe and proper use of your equipment**

- Please review the following information with all members of your staff who need to be aware of the contents of this communication. It is important to understand the implications of this communication.
- Please retain a copy with the equipment Instruction for Use.

Dear Patient,

The following Philips Respironics patient interface devices (face and nasal masks) - Amara View Minimal Contact Full-Face Mask, DreamWear Full Face Mask, DreamWisp Nasal Mask with Over the Nose Cushion, Wisp Nasal Masks and Wisp Youth Nasal Masks, and Therapy Mask 3100 NC/SP - contain magnets.

Philips Respironics is updating its existing contraindications and warnings to the following:

**Contraindication:** *Use of the mask is contraindicated for patients and their household members, caregivers, and bed partners that may be in close vicinity to patients using the masks, that have implanted devices that may be affected by magnets, including but not limited to:*

- *Pacemakers*
- *Implantable cardioverter defibrillators (ICD)*
- *Neurostimulators*
- *Magnetic metallic implants/electrodes/valves placed in upper limbs, torso, or higher (i.e. neck and head)*
- *CSF (cerebral spinal fluid) shunts (e.g., VP (ventriculo peritoneal) shunt)*
- *Aneurysm clips*
- *Embolic coils*
- *Intracranial aneurysm intravascular flow disruption devices*
- *Metallic cranial plates, screws, burr hole covers, and bone substitute devices*
- *Metallic splinters in the eye*
- *Ocular implants (e.g., glaucoma implants, retinal implants)*
- *Certain contact lenses with metal*
- *Implants to restore hearing or balance that have an implanted magnet (such as cochlear implants, implanted bone conduction hearing devices, and auditory brainstem implants)*
- *Magnetic denture attachments*
- *Metallic gastrointestinal clips*
- *Metallic stents (e.g., aneurysm, coronary, tracheobronchial, biliary)*
- *Implantable ports and pumps (e.g., insulin pumps)*
- *Hypoglossal Nerve Stimulators*
- *Devices labeled as MR (magnetic resonance) unsafe*
- *Magnetic metallic implants not labeled for MR or not evaluated for safety in a magnetic field*

**Warning:** Magnets with a magnetic field strength of 400 mT are used in the mask. With the exception of the devices identified in the contraindication, ensure the mask is kept at least 6 inches (approx. 15.24 cm) away from any other medical implants or medical devices that can be impacted by the magnetic fields to avoid possible effects from localized magnetic fields. This includes household members, caregivers, and bed partners that may be in close vicinity to patients that use the masks.

## 1. What the problem is and under what circumstances it can occur

- The affected masks contain magnets which can potentially affect the functioning and/or induce the movement/dislocation of medical implants or medical devices that can be impacted by the magnetic fields.
- See the Contraindication and Warning in this notice for additional details.

## 2. Describe the hazard/harm associated with the issue

- With the exception of the devices in the contraindication, if the mask magnets are placed less than 6 inches (approx. 15.24 cm) away from a metallic implant or device the magnets may cause the device to not perform as intended, which may result in a serious injury.
- There have been fourteen (14) reports of patients suggesting that the mask magnets have impacted their medical devices which include: pacemaker interference, pacemaker failure leading to replacement, need of shunt adjustment, resetting of automatic implantable cardioverter defibrillator (AICD), seizures, defibrillator shutting off periodically, arrhythmia, irregular blood pressure, change in heartbeats, and cognitive issues.

## 3. Affected products and how to identify them

Images of the affected masks are shown below. The magnetic headgear clips on these masks are circled. These images may be used as reference to determine if your or your patient's mask also uses magnetic headgear clips. These masks are intended to provide an interface for application of CPAP or bi-level therapy to patients. The part numbers for the affected masks and mask components that contain magnets are listed in Figure 6.



Figure 1:  
Amara View  
Full Face  
Mask



Figure 2:  
DreamWisp  
Nasal Mask



Figure 3:  
DreamWear  
Full Face  
Mask



Figure 4:  
Wisp and  
Wisp Youth  
Nasal Mask



Figure 5:  
Therapy  
Mask 3100  
NC/SP

## 4. Actions to be taken by patient to prevent risks

As a patient using these masks, you must take the following action:

### You must take the following action:

- 4.1. **STOP** using the affected mask, if the implant/medical device is contraindicated against the mask magnets. Patients should consult their physician immediately to determine if another mask can be used for their therapy. In the interim, switch to a non-magnetic mask if available, for continued therapy. Properly dispose of the mask that has magnets after an alternative is obtained.

- 4.2. If you, household members, caregivers, and bed partners who may be in close vicinity to you, do not have implanted medical devices, or metallic splinters in the eyes, then no action is needed.
- 4.3. Household members, caregivers, and bed partners with a medical implant/device must ensure the mask is kept at least 6 inches (approx. 15.24 cm) away from the medical implant(s)/device(s).
- 4.4. Contact Philips Respironics customer service for more information on non-magnetic mask options.

## 5. Describe the actions planned by Philips to correct the problem

Philips Respironics is updating its existing contraindication and warning as provided in this field safety notice.

1. **If you need any further information or support concerning this issue, please contact your local Philips Respironics representative.** For general issues or concerns, contact the Philips Customer Care Solutions Center at +1-800-345-6443.

This notice has been reported to the appropriate Regulatory Agencies. Adverse reactions or quality problems experienced with the use of this product may be reported to Philips or the local competent authority. Philips Respironics regrets any inconvenience caused by this problem.

Sincerely,



Thomas Fallon  
Head of Quality  
Philips Respironics

**Devices Impacted by This Issue - Figure 6:**

<b>Amara View Minimal Contact Full-Face Mask</b>	
<b>Part #</b>	<b>Description</b>
1090602	S Amara View Mask w/HGR
1090603	M Amara View Mask w/HGR
1090604	L Amara View Mask w/HGR
1090622	S Amara View Mask w/ HGR, DOM
1090623	M Amara View Mask w/ HGR, DOM
1090624	L Amara View Mask w/ HGR, DOM
1090641	XS Amara View Mask w/HGR, JPN
1090642	S Amara View Mask w/HGR, JPN
1090643	M Amara View Mask w/HGR, JPN
1090644	L Amara View Mask w/HGR, JPN
1090651	XS Amara View Mask SE w/HGR, JPN
1090652	S Amara View Mask SE w/HGR, JPN
1090653	M Amara View Mask SE w/HGR, JPN
1090654	L Amara View Mask SE w/HGR, JPN
1090662	S Amara View Mask w/HGR, INTL
1090663	M Amara View Mask w/HGR, INTL
1090664	L Amara View Mask w/HGR, INTL
1090670	Amara View Mask w/HGR, FitPack
1090696	RP – Amara View Headgear, L
1090697	RP-Amara View Headgear, Standard
1135080	S AMARA VIEW MASK SE W/ HGR
1135081	M AMARA VIEW MASK SE W/ HGR
1135082	L AMARA VIEW MASK SE W/ HGR
1136626	Amara View Magnet Clip
1090670RTL	AMARA VIEW MASK W/HGR, FITPACK-RTL
1136626RTL	Amara View Full Face Magnetic Clips

<b>DreamWear Full Face Mask</b>	
<b>Part #</b>	<b>Description</b>
1133344	S, DreamWear UTN Nsl/Full, Combo Pack
1133345	M, DreamWear UTN Nsl/Full, Combo Pack
1133370	S, DreamWear Full, Sm & Med Frm, INTL
1133371	M, DreamWear Full, Sm & Med Frm, INTL
1133372	L, DreamWear Full, Sm & Med Frm, INTL
1133373	MW, DreamWear Full, Sm & Med Frm
1133375	S, DreamWear Full, Sm & Med Frm, GBL
1133376	M, DreamWear Full, Sm & Med Frm, GBL
1133377	L, DreamWear Full, Sm & Med Frm, GBL
1133378	MW, DreamWear Full, S. & M. Frm, GBL
1133380	S, DreamWear Full, M. Frm W/ HGR, GBL

<b>Wisp and Wisp Youth Nasal Mask</b>	
<b>Part #</b>	<b>Description</b>
1094050	WISP MASK, CLEAR FRAME, W/ HDGR, DOM
1094051	WISP MASK, FABRIC FRAME, W/MAG CLIPS DOM
1094053	WISP MASK, USA, FABRIC FRAME, W/ HDGR
1094060	WISP MASK, CLEAR FRAME, W/ HDGR, INTL
1094061	WISP MASK, FABRIC FRAME, W/ HDGR, INTL
1094062	WISP MASK, CLEAR FRAME, W/ HDGR, INTL SE
1094070	WISP MASK, CLEAR FRAME, W/ HDGR, JPN SE
1094071	P, WISP MASK, FABRIC FRAME, W/ HDGR, JPN
1094072	S/M, WISP MASK FABRIC FRAME, W/ HDGR JPN
1094073	L, WISP MASK, FABRIC FRAME, W/ HDGR, JPN
1109298	WISP YOUTH MASK, FABRIC, W/MAG CLIPS DOM
1113954	XL, Wisp Mask, Fabric Frame, w/ HDGR, JP
1117119	MW, Wisp Mask, Fabric Frame, w/ HDGR, JP
1118060	P, WISP MASK, CLEAR FRAME, W/ HDGR, DOM
1118061	S/M, WISP MASK CLEAR FRAME, W/ HDGR DOM
1118062	L, WISP MASK, CLEAR FRAME, W/ HDGR, DOM
1118063	XL, WISP MASK, CLEAR FRAME, W/ HGR, DOM
1118064	P, WISP MASK, FABRIC FRAME, W/ HDGR,DOM
1118065	S/M, WISP MASK FABRIC FRAME W/ HDGR,DOM
1118066	L, WISP MASK, FABRIC FRAME, W/ HDGR,DOM
1118067	XL, WISP MASK, FABRIC FRAME W/ HGR, DOM
1120434	Wisp/DreamWisp Magnetic Headgear Clip,RP
1137360	Wisp Nasal Lab Mask, Fabric Frame, DOM
1137361	Wisp Nasal Lab Mask, Clear Frame, DOM
1137366	S/M, Wisp Lab Mask, Fabric Frame, DOM
1137367	L, Wisp Nasal Mask, Fabric Frame, DOM
1137368	S/M, Wisp Nasal Mask, Clear Frame, DOM
1137369	L, Wisp Nasal Mask, Clear Frame, DOM
1137370	COMBOPACK, WISP LAB MASK ,DOM
1138989	P, WISP MASK,CLEAR FRAME, W/HDGR,1118060
1138991	L, WISP MASK, CLEAR W/ HDGR, DOM 1118062
1138992	XL,WISP MASK,CLEAR FRAME,W/ HGR,1118063
1138993	P, WISP MASK,FABRIC FRAME,W/HDGR,1118064
1138994	S/M,WISP MASK FABRICFRAME W/HDGR,1118065
1138995	L, WISP MASK,FABRIC FRAME,W/HDGR,1118066
1138996	XL,WISP MASK,FABRIC FRAME W/HGR, 1118067
1139009	S/M,WISPMASK CLEAR FRAME,W/ HDGR 1118061
1094051RTL	WISP MASK, FABRICFRM,W/MAG CLIPS DOM-RTL
1148366	DreamWisp/Wisp Magnetic Clips - RTL

1133381	M, DreamWear Full, Med Frm W/ HGR
1133382	L, DreamWear Full, Med Frm W/ HGR
1133383	MW, DreamWear Full, Med Frm W/ HGR
1133385	S, DreamWear Full, Sm Frm W/ HGR, GBL
1133386	M, DreamWear Full, Sm Frm W/ HGR
1133387	L, DreamWear Full, Sm Frm W/ HGR, GBL
1133388	MW, DreamWear Full, Sm Frm W/ HGR,
1133390	S, DreamWear Full, Lg Frm W/ HGR, GBL
1133391	M, DreamWear Full, Lg Frm W/ HGR, GBL
1133392	L, DreamWear Full, Lg Frm W/ HGR, GBL
1133393	MW, DreamWear Full, Lg Frm W/ HGR
1133395	DreamWear Full, Demo Pack
1133400	FitPack, DreamWear Full, Med Frame
1133401	DreamWear Full, Med Frm W/O HGR, GBL
1133405	S, DreamWear Full, Med Frm W/O HGR
1133406	M, DreamWear Full, Med Frm W/O HGR
1133407	L, DreamWear Full, Med Frm W/O HGR
1133408	MW, DreamWear Full, Med Frm W/O
1133410	S, DreamWear Full, Sm Frm W/O HGR
1133411	M, DreamWear Full, Sm Frm W/O HGR
1133412	L, DreamWear Full, Sm Frm W/O HGR
1133413	MW, DreamWear Full, Sm Frm W/O HGR
1133415	S, DreamWear Full, Lg Frm W/O HGR, GBL
1133416	M, DreamWear Full, Lg Frm W/O HGR
1133417	L, DreamWear Full, Lg Frm W/O HGR, GBL
1133418	MW, DreamWear Full, Lg Frm W/O HGR
1133423	S/M, DreamWear Full, Sm Frm w/ HGR
1133424	S/M, DreamWear Full, Med Frm w/ HGR
1133425	S/M, DreamWear Full, Lg Frm w/ HGR
1133427	W, DreamWear Full, Med Frm W/ HGR
1133430	S, DreamWear Full Cushion, RP
1133431	M, DreamWear Full Cushion, RP
1133432	L, DreamWear Full Cushion, RP
1133433	MW, DreamWear Full Cushion, RP
1133434	SW, DreamWear Full Cushion, RP
1133435	S, DreamWear Full Cushion, RP, JPN
1133436	M, DreamWear Full Cushion, RP, JPN
1133438	W, DreamWear Full Cushion, RP, JPN
1133450	DreamWear Full Headgear, RP
1133454	Headgear Magnet Clip, RP
1135275	S, DreamWear Full, Sm and Med Frm
1135276	M, DreamWear Full, Sm and Med Frm
1135277	SW, DreamWear Full, Sm and Med Frm
1135278	MW, DreamWear Full, Sm and Med Frm
1135327	S, DreamWear Full, Sm & Med Frm, KR
1135388	M, DreamWear Full, Sm & Med Frm, KR

<b>DreamWisp Nasal Mask with Over the Nose Cushion</b>	
<b>Part #</b>	<b>Description</b>
1137916	Fitpk DreamWisp Nsl, MED Con W/HGR GBL
1137918	FitPk DreamWisp Nsl, MED Con W/O HGR GBL
1137921	FitPk, DreamWisp Nsl, MED Con W/ HGR INT
1137922	P, DreamWisp Nsl, Med Con W/O HGR GBL
1137923	S, DreamWisp Nsl, Med Con W/O HGR GBL
1137924	M, DreamWisp Nsl, Med Conn W/O HGR GBL
1137925	L, DreamWisp Nsl, Med Con W/O HGR GBL
1137926	XL, DreamWisp Nsl, Med Con W/O HGR GBL
1137927	P, DreamWisp NSL, SM CON, W/HGR, GBL
1137928	S, DreamWisp NSL, SM CON, W/HGR, GBL
1137929	M, DreamWisp NSL, SM CON, W/HGR, GBL
1137930	L, DreamWisp NSL, SM CON, W/HGR, GBL
1137931	XL, DreamWisp NSL, SM CON, W/HGR, GBL
1137932	P, DreamWisp Nsl, Med Con, W/HGR, GBL
1137933	S, DreamWisp Nsl, Med Con, W/HGR, GBL
1137934	M, DreamWisp Nsl, Med Con, W/HGR, GBL
1137935	L, DreamWisp Nsl, Med Con, W/HGR, GBL
1137936	XL, DreamWisp Nsl, Med Con, W/HGR, GBL
1137937	P, DreamWisp NSL, SM CON, W/HGR, INT
1137938	S, DreamWisp NSL, SM CON, W/HGR, INT
1137939	M, DreamWisp NSL, SM CON, W/HGR, INT
1137940	L, DreamWisp NSL, SM CON, W/HGR, INT
1137941	XL, DreamWisp NSL, SM CON, W/HGR, INT
1137942	P, DreamWisp Nsl, Med Con, W/HGR INT
1137943	S, DreamWisp Nsl, Med Con, W/HGR INT
1137944	M, DreamWisp Nsl, Med Con, W/HGR INT
1137945	L, DreamWisp Nsl, Med Con, W/HGR INT
1137946	XL, DreamWisp Nsl, Med Con, W/HGR INT
1137947	P, DreamWisp Nsl, S-M-L Con, W/HGR, JPN
1137948	S, DreamWisp Nsl, S-M-L Con, W/HGR, JPN
1137949	M, DreamWisp Nsl, S-M-L Con, W/HGR, JPN
1137950	L, DreamWisp Nsl, S-M-L Con, W/HGR, JPN
1137951	XL, DreamWisp Nsl, S-M-L Con, W/HGR, JPN
1137953	LABPK DreamWisp ALL CON S/M/L CUSH W/HGR
1137954	P/XL LABPK DreamWisp LAB PACK, S/L con
1137955	Combo LabPK DreamWisp
1137964	DreamWisp HEADGEAR, RP
1137965	DreamWisp LARGE HEADGEAR, RP
1137966	DreamWisp RS HEADGEAR, RP
1139332	P, DreamWisp Nsl, S-M Con, W/HGR KR
1139333	S, DreamWisp Nsl, S-M Con, W/HGR KR
1139334	M, DreamWisp Nsl, S-M Con, W/HGR KR
1139335	L, DreamWisp Nsl, S-M Con, W/HGR KR
1139336	XL, DreamWisp Nsl, S-M Con, W/HGR KR

1135389	SW, DreamWear Full, Sm & Med Frm, KR
1135390	MW, DreamWear Full, Sm & Med Frm
1137430	Fitpack, DreamWear Full Lab,Med Frm
1137431	Ext Sizepack,DreamWear Full Lab Msk
1137437	S, DreamWear Full Lab Msk,Med Frame
1137438	S, DreamWear Full Lab Mask,Sm Frame
1137439	M, DreamWear Full Lab Msk,Med Frame
1137440	COMBOPACK, DREAMWEAR FULL LAB
1140235	S, DreamWear Full, Med Frm W/ HGR
1143130	FitPack, DreamWear Full, Med Frame
1144347	DreamWear Full Headgear - Lab, RP
1146593	S, DreamWear Full Cushion, RP - RTL
1146594	M, DreamWear Full Cushion, RP - RTL
1146595	L, DreamWear Full Cushion, RP - RTL
1146596	MW, DreamWear Full Cushion, RP - RTL
1146597	DreamWear Full Headgear, RP - RTL
1148363	DreamWear Full Face Magnet Clip - RTL
1133375RTL	DreamWear Full Face Mask Kit, Small
1133376RTL	DreamWear Full Face Mask Kit, Medium
1133377RTL	DreamWear Full Face Mask Kit, Large
1133378RTL	DreamWear Face Mask Kit, M. Cushion
1133430RTL	S, DREAMWEAR FULL CUSHION, RP-RTL
1133431RTL	M, DREAMWEAR FULL CUSHION, RP-RTL
1133432RTL	DreamWear Full Face Cushion, Large
1133433RTL	DreamWear Full Face Cushion, Medium

<b>Therapy Mask 3100 NC/SP</b>	
1144608	Therapy Msk 3100 NC, fitpack, w/HGR
1144610	Therapy Msk 3100 SP, fitpack, w/HGR
1145038	Therapy Msk 3100 NC, fitpack, w/HGR
1145039	Therapy Mask 3100 NC, fitpack, w/HGR
1145040	Therapy Mask 3100 NC, fitpack, w/HGR
1145041	Therapy Mask 3100 NC, fitpack, w/HGR
1145044	XS, Therapy Mask 3100 NC, w/oHGR, GBL
1145045	S, Therapy Mask 3100 NC, w/oHGR, GBL
1145046	M, Therapy Mask 3100 NC, w/oHGR, GBL
1145047	L, Therapy Mask 3100 NC, w/oHGR, GBL
1145048	MW, Therapy Mask 3100 NC, w/oHGR
1145049	Therapy Msk 3100 SP, fitpack, w/HGR,
1145050	Therapy Mask 3100 SP, fitpack, w/HGR
1145051	Therapy Mask 3100 SP, fitpack, w/HGR
1145052	Therapy Mask 3100 SP, fitpack, w/HGR
1145055	XS, Therapy Mask 3100 SP, w/oHGR, GBL
1145056	S, Therapy Mask 3100 SP, w/oHGR, GBL
1145057	M, Therapy Mask 3100 SP, w/oHGR, GBL

1144344	DreamWisp RS HEADGEAR-Lab, RP
1144345	DreamWisp LARGE HEADGEAR-Lab, RP
1144346	DreamWisp HEADGEAR - Lab, RP
1144502	FitPack, DreamWisp, USA
1148409	DreamWisp Headgear (RS)- RTL
1148410	DreamWisp HEADGEAR, RP- RTL
1148411	DreamWisp LARGE HEADGEAR, RP- RTL
1148913	P, DreamWisp Nsl, S-M Con, W/HGR CN
1148914	S, DreamWisp Nsl, S-M Con, W/HGR CN
1148915	M, DreamWisp Nsl, S-M Con, W/HGR CN
1148916	L, DreamWisp Nsl, S-M Con, W/HGR CN
1148917	XL, DreamWisp Nsl, S-M Con, W/HGR CN
1137942AP	P, DREAMWISP NSL, MED CON, W/HGR, AP
1137942CE	P, DREAMWISP NSL, MED CON, W/HGR, CE
1137942RC	P, DREAMWISP NSL, MED CON, W/HGR, RC
1137943AP	S, DREAMWISP NSL, MED CON, W/HGR, AP
1137943CE	S, DREAMWISP NSL, MED CON, W/HGR, CE
1137943RC	S, DREAMWISP NSL, MED CON, W/HGR, RC
1137944AP	M, DREAMWISP NSL, MED CON, W/HGR, AP
1137944CE	M, DREAMWISP NSL, MED CON, W/HGR, CE
1137944RC	M, DREAMWISP NSL, MED CON, W/HGR, RC
1137945AP	L, DREAMWISP NSL, MED CON, W/HGR, AP
1137945CE	L, DREAMWISP NSL, MED CON, W/HGR, CE
1137945RC	L, DREAMWISP NSL, MED CON, W/HGR, RC
1137946AP	XL, DREAMWISP NSL, MED CON, W/HGR, AP
1137946CE	XL, DREAMWISP NSL, MED CON, W/HGR, CE
1137946RC	XL, DREAMWISP NSL, MED CON, W/HGR, RC
1137916RTL	FITPK DREAMWISP NSL, MED CON W/HGR -RTL

1145058	L, Therapy Mask 3100 SP, w/oHGR, GBL
1145059	MW, Therapy Mask 3100 SP, w/oHGR
1145060	Therapy Mask 3100 NC-SP, demopack
1145061	Therapy Msk 3100 NC, lab fitpack, single
1145062	Therapy Msk 3100 SP, lab fitpack, single
1145063	Therapy Mask 3100 NC-SP, lab combo
1145064	XS, Therapy Mask 3100 NC, cushion, RP
1145065	S, Therapy Mask 3100 NC, cushion, RP
1145066	M, Therapy Mask 3100 NC, cushion, RP
1145067	L, Therapy Mask 3100 NC, cushion, RP
1145068	MW, Therapy Mask 3100 NC, cushion, RP
1145069	XS, Therapy Mask 3100 SP, cushion, RP
1145070	S, Therapy Mask 3100 SP, cushion, RP
1145071	M, Therapy Mask 3100 SP, cushion, RP
1145072	L, Therapy Mask 3100 SP, cushion, RP
1145073	MW, Therapy Mask 3100 SP, cushion, RP
1145074	Therapy Mask 3100 NC-SP, frame, RP
1145459	XS, Therapy Mask 3100 NC, w/HGR, GBL
1145460	S, Therapy Mask 3100 NC, w/HGR, GBL
1145461	M, Therapy Mask 3100 NC, w/HGR, GBL
1145462	MW, Therapy Mask 3100 NC, w/HGR, GBL
1145463	L, Therapy Mask 3100 NC, w/HGR, GBL
1145464	XS, Therapy Mask 3100 SP, w/HGR, GBL
1145465	S, Therapy Mask 3100 SP, w/HGR, GBL
1145466	M, Therapy Mask 3100 SP, w/HGR, GBL
1145467	MW, Therapy Mask 3100 SP, w/HGR, GBL
1145478	L, Therapy Mask 3100 SP, w/HGR, GBL
1145916	Therapy Mask 3100 NC, lab fitpack, GBL
1145917	Therapy Mask 3100 SP, lab fitpack, GBL