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RESPIRATORY PROTECTIVE EQUIPMENT





Easy Breathing

High Protection

Cost Effective

Breath Responsive PAPR provides clean air filtered by a fan as the wearer breathes.

Pressure inside the facepiece is kept positive to provide a higher safety.

Even if airtightness breaks, the fan will keep running to lower the risk of breathing in particles.

Filter lasts longer than Reusable Respirator.

Switchless

ON The system starts automatically when you breathe.

OFF The system stops automatically in 5 seconds after doffing.

Cordless

There is no battery connection cable, which simplifies preparation when donning the mask and does not disturb your work.

Filter Replacement Indicator

An LED flashes when it is time to replace the filter.







Sync11

Sync@1

Battery and Charger





Rated Input: AC100 - 240V 50 - 60Hz Rated Output: DC8.4V 1.2A Charge Time: App. 3.5 hours









Conversion Plug BF

Battery Life Indicator

The Battery life indicators (2LEDs) will inform the remained battery life in order to make it easier to check the operating time. After the battery is first attached to the fan unit, the battery life indicators (2LEDs) will light for approximately 30 seconds.



Battery life indicator patterns (2LEDs)	State	Remaining voltage
	Full charge	At least 8.0 V
☀ ■	_	7.9 - 7.4 V
☀ ☀	Low charge	7.3 - 7.0 V
	Low charge	Less than 6.9 V
Alternately lights	The fan is locked.	
: Lit - i : Flashing □ : Not lit		

Comparison with Breath Responsive PAPR "Synchro", **Constant Air Flow PAPR and Reusable Respirator**





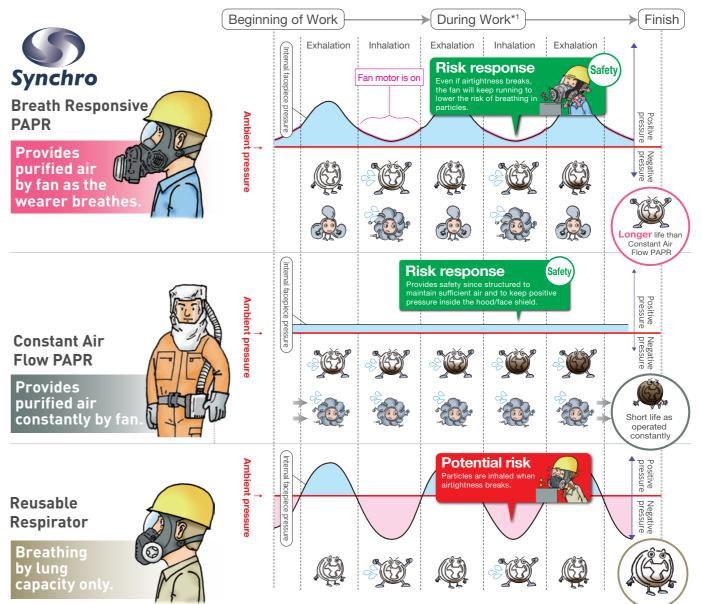
Ms. Fan Provides purified air into the facepiece.





Mr. Filter

Purifies air by catching



*1 The graph only illustrates pressure difference. PAPR may fail to keep positive pressure when heavily inhaled.

MNFT ver.2



MNFT ver.2 gives the idea to understand the difference whether it is sealed or not. Leakage and pressure inside the mask is detected and visualised at the

MNFT ver.2 visualises that PAPR has higher protection performance than Reusable Respirator.

Product Name	Product Code	Packing Unit
MNFT ver.2 (Mask Inside Pressure & Fit Tester)	Please contact us	1 pc / box

^{*} Printer and speaker sold separately.





Synchro **Breath Responsive PAPR**

Inner Mask to

Remove & Attach Easily

6-point Head Harness

TPE Facepiece Light Weight 735g (M) (Includes; Fan unit, Filter VP3 and Battery)

EN 12942:1998+A2:2008 AS/NZS 1716: 2012

IEC 60529:2001 IP65 rated

Extraordinary Wide View PAPR with Communication

With Voice Amplifier Even if you wear the mask, it is possible to communicate clearly and improve safely.

New Widest Polycarbonate 3D-curve Visor / Inside:Anti-fog Coated Outside: Anti-scratch Coated





Uncoated Lens



Product Name

Sync@9

Product Name

Sync Ø9 VP3

3

Order Information

Coated Lens

Test Condition: he weight of 2,000 gf

Estimated Operating Time

Size

Uncoated Lens **Test Device** Abrading 400 times

VA1P3

≥ 9.5h

Weight"

VABE1P3

≥ 8.5h

1 pc/box







≥ 11.5 h

Code

40471

Picture shows starter kit "Sync@9VP3" and gas filter "VABE1P3".



Speech Diaphragm

Please remove the fan unit when washing the facepiece.

Easy Adjustment

with Slide Bar

Sync11 NEW

EN 12942:1998+A2:2008 AS/NZS 1716: 2012

IEC 60529:2001 IP63 rated

PAPR, but Half Mask





Order Information

≥ 14.5h

VA1P3

≥ 11.0 h

Packaging Product Name Weight" Unit Sync11VP3 ≤ 450g 40450 1 pc/box

Product Name

Sync11

VABE1P3

≥ 11.0 h

For Starter Kit see Page 7 For Compatible Filters see Page 6 For Spare Parts see Page 8 For Accessories see Page 18

^{*1} Includes; Facepiece unit, Filter VP3 and Battery

Sync@1

EN 12942:1998+A2:2008

AS/NZS 1716: 2012

IEC 60529:2001 IP65 rated

Full Face Mask, but a Genuine PAPR



TPE Facepiece Light Weight 755g (M) (Includes; Fan unit, Filter VP3 and Battery)



Estimated Operating Time

VP3	VA1P3	VABE1P3
≥ 9.0h	≥ 8.0h	≥ 7.5h

Order Information

or der illiori	IIaliu
Product Name	Size
	M
SyncØ1VP3	1.0

40406 40407

App. 755 g

Unit 1 pc/box

remove the fan unit when washing

Picture shows starter kit "Sync@1VP3".

Filter Type & Colour Code

Colour Filter Type

Brown	А
Grey	В
Yellow	Е
Green	K
Brown	AX
White	Р
	•

Application

_	
	Organic gases and vapours (boiling point > 65°C)
	Inorganic gases and vapours
	Sulphur dioxide and other acidic gases and vapours
	Ammonia and organic ammonia derivatives
-	Organic gases and vapours (boiling point ≤ 65°C)
-	Particles

■ Class Type of Gas Filters (A, B, E and K*1)

Class Concentration*2		
1	500 ppm (0.05 vol.%)	
2	1,000 ppm (0.1 vol.%)	
3	5,000 ppm (0.5 vol.%)	

- *1 AX filter is not classified.
- *2 Modifications may be possible due to national regulations.

■ Classfication of Complete Devices

Classification of Complete Device			Maxi Inward Le	mum eakage (%)	Maximum
Class	Gas Filter Particle		Pov	wer	Particle Filter Penetration
Class	Type and Class	Filter ON	ON	OFF	(%)
TM1	A1, 2 or 3 B1, 2 or 3		5	5	5
TM2	E1, 2 or 3	Р	0.5	1	0.5
TM3	K1, 2 or 3 AX		0.05	0.1	0.05

Filter Application

Series	V		
Туре	Particle Filter Combined Filters		
Product Name	VP3	VA1P3	VABE1P3
Standard		EN 12942:1998+A2:2008 AS/NZS 1716:2012*1	
Product Code	40350	40250	40251
Dia. [mm]	96	110	110
Height [mm]	28	62	65
Weight [g]	≤ 32	≤ 165	≤ 205
Packing Unit [pcs / box]	10	20	20
Appearance	ES FES	STE WING TO	StSyvages
		A1	A1
Filter Tune 0			B1
Filter Type & Colour Code			E1
	P R SL*2	P R SL*2	PRSL*2
Compatible Mask	Sync Ø9 see Page 3	Sync Ø1 see Page 5	Sync 11 see Page 4

^{*1} Exclude; Sync@1VABE1P3.

For Starter Kit see Page 7 For Compatible Filters see Page 6 For Spare Parts see Page 8 For Accessories see Page 18

^{*1} Includes; Facepiece, Fan unit, Filter VP3 and Battery

^{*2} R : If the particle filter part of the combined filter is re-usable. SL:For use against solid and water based aerosols only.

Starter Kit

Sync Ø9 VP3





Particle Fan Unit

Filter Guard "VP3" "FU-E09" Filter

Battery Charger "CH-L2HAC"





Speech Diaphragm Cover '#03058" **Unit Cover**









Storage Case "#41194"

Sync11VP3





















Plug 0





Storage Case "#41196"

SyncØ1VP3





"VP3"

Filter Guard "#50583"









Diaphragm Cover "#0305̃8"

Unit Cover "Knit Cover 1R"















Storage Case "#41194"

Sp

Spare Parts			
Compatible Mask	Product Name	Product Code	Packing Uni
Suna MOVD2	Facepiece "FP-E09" M	41736	1 pc / pack
Sync <i>Ø9VP3</i>	(Includes:Inner Mask and Head Harness)	41737	. po , paoi:
	Facepiece "FP-E09" M	40504	1 pc / pack
	(Excludes:Inner Mask and Head Harness)	40505	. po , paoi:
	Fan Unit "FU-E09"	41738	1 pc / pack
	Spring-loaded Exhalation Valve	41380	5 pcs / pack
	Exhalation Valve	41291	5 pcs / pack
	Exhalation Valve Spring	41382	5 pcs / pack
	Exhalation Valve Spring Cover	41381	5 pcs / pack
	Exhalation Valve Cover	41475	5 pcs / pack
	Inhalation Valve	03127	5 pcs / pack
161	Inner Mask Valve	50122	5 pcs / pack
	Inner Mask	50622	1 pc / pack
	Drain Valve	41290	5 pcs / pack
C C	Head Harness	41420	1 pc / pack
C T	Gasket Fan Unit-Facepiece	03123	10 pcs / pack
	Gasket Filter-Fan Unit	41482	10 pcs / pack
	Guarding Sponge "#50980"	50980	10 pcs / pack
	Filter Guard "#50583"	50583	1 pc / pack
	Unit Cover "Knit Cover 1R"	02800	10 pcs / pack
	Speech Diaphragm Cover "#03058"	03058	10 pcs / pack
	Battery "BA-L2H-E"	41735	10 pcs / pack
	Charger "CH-L2HAC"	41734	1 pc / pack
	Conversion Plug O	41192	10 pcs / pack
	Conversion Plug BF	41193	10 pcs / pack
	Storage Case "#41194"	41194	1 pc / pack
ync11VP3	Facepiece Unit "MU-E11"	40490	1 pc / pack
ync11vi 3	Spring-loaded Exhalation Valve	41380	5 pcs / pack
	Exhalation Valve	41291	5 pcs / pack
	Exhalation Valve Spring	41382	5 pcs / pack
	Exhalation Valve Spring Cover	41381	5 pcs / pack
	Exhalation Valve Cover	41475	5 pcs / pack
	Inhalation Valve	50123	5 pcs / pack
	Gasket	41482	10 pcs / pack
	Head Harness	41419	5 pcs / pack
	Inner Sponge	03117	10 pcs / pack
	Filter Guard "#50583"	50583	1 pc / pack
	Unit Cover "#41450"	41450	10 pcs / pack
	Battery "BA-L2H-E"	41735	10 pcs / pack
	Charger "CH-L2HAC"	41734	1 pc / pack
	Conversion Plug O	41192	10 pcs / pack
	Conversion Plug BF	41193	10 pcs / pack
	Storage Case "#41196"	41196	1 pc / pack
daypa	Facepiece "FP-E01" M	41731	
yncØ1VP3	(Includes: Inner Mask and Head Harness)	41732	1 pc / pack
	Facepiece M	40500	
	(Excludes:Inner Mask and Head Harness)	40501	1 pc / pack
	Fan Unit "FU-E01"	41730	1 pc / pack
	Exhalation Valve	50000	5 pcs / pack
	Exhalation Valve Cover	41474	1 pc / pack
	Inhalation Valve	03127	5 pcs / pack
	Inner Mask Valve	50122	
			5 pcs / pack
	Inner Mask	41114	1 pc / pack
	Drain Valve	50008	5 pcs / pack
	Head Harness	41401	1 pc / pack
	Gasket Fan Unit-Facepiece	03123	10 pcs / pack
	Gasket Filter-Fan Unit	41482	10 pcs / pack
	Guarding Sponge "#03124"	03124	5 pcs / pack
	Filter Guard "#50583"	50583	1 pc / pack
	Unit Cover "Knit Cover 1R"	02800	10 pcs / pack
	Speech Diaphragm Cover "#03058"	03058	10 ncs / nack

Speech Diaphragm Cover "#03058

Airflow Tester "FM-6"

Charger "CH-L2HAC"

Battery "BA-L2H-E"

Conversion Plug O

Conversion Plug BF

Storage Case "#41194"

03058

04478

41735

41734

41192

41193

41194

10 pcs / pack

10 pcs / pack

1 pc / pack

10 pcs / pack

10 pcs / pack

1 pc / pack

1 pc / pack









FS01 NEW





More Safety! More Wide Vision! **Twist Lock Connector** The off-set connector Filter Lock Application supports the wide (Only CP-P3R) vision(Only CP-P3R). Back Side of CP-P3R Filter

Order Info	ormation			
Product Name	Size	Product Code	Weight (Without filters)	Packing Unit
	S	40155		
FS01	М	40156	≤ 415g	1 pc/box
	L	40157		



TPE Facepiece Excellent Light Weight 360g!!

Lighter than a football (410-450g). Almost half the weight of other full face masks.

Order I	nform	ation		
Product Name	Size	Product Code	Weight (Without filters)	Packing Unit
11. XII.	S	40101		
CF01	M	40102	≤ 360 g	1 pc / box
	L	40103		

Filters sold separately. For Compatible Filters see Page 13 For Spare Parts see Page 17 For Accessories see Page 18

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RS01

AS/NZS 1716: 2012

The Three "Free" Mask, Fatigue-free, Care-free, Stress-free

Embossed Surface (TPE Facepiece)

Twist Connector

Order Information

40131

≤ 105 g 1 pc/box **Drop Down Head Harness** Extremely **Light Weight** 105g!! Lighter than 3 golf balls (App. 138g). One of the lightest facepieces in the RPE attached still weight or

RX01

EN 140:1998

AS/NZS 1716: 2012

Communication is another Protective Factor

Twist Connector

Order Information

Packing ≤ 190 g

4-Point Head Harness Specially Designed Silicone Facepiece Speech Diaphragm

Filter Type & Colour Code

Colour Filter Type

Colour	Filter Type	Application			
Brown	А	Organic gases and vapours (boiling point > 65°C)			
Grey	В	Inorganic gases and vapours			
Yellow	Е	Sulphur dioxide and other acidic gases and vapours			
Green	K	Ammonia and organic ammonia derivatives			
Brown	AX	Organic gases and vapours (boiling point ≤ 65°C)			
White	Р	Particles			

■ Class Type of Gas Filters ■ Class Type of Particle Filters (A, B, E and K*1)

Class	Max. Permissible Concentration 2	Class	Filter Efficiency
1	1,000 ppm (0.1 vol.%)	P1	Low
2	5,000 ppm (0.5 vol.%)	P2	Medium
3	10,000 ppm (1.0 vol.%)	P3	High

- *1 AX filter is not classified.*2 Modifications may be possible due to national regulations.

Filter Application

Series	CP		CA							
Туре	Particle Filters			Combined Filters (+Gas Filters)			Gas Filters			
Product Name	CP-P3R	P3R	P2R	P3RC*1	P2RC*1	CA-A1	CA-A2	CA-K1	CA-AX	CA-ABEK1
Standard		EN 143:2000 /NZS 1716:20			EN 14387:2004 AS/NZS 1716:2012					1
Product Code	40360	40302	40301	41522	41521	40201	40202	40204	40225	40203
Dia.[mm]	77	77	77	86	86	82	82	82	82	82
Height[mm]	26	21	21	+14.5*2	+14.5*2	24	34	34	44	34
Weight[g]	≤27	≤22	≤22	≤20	≤20	≤55	≤80	≤125	≤130	≤100
Packing Unit [pcs / box]	20	20	20	28	28	20	20	20	10	20
Appearance					(1)		WSIS CANZ VET			
Filter Type & Colour Code	P3 R*3	P3 R*3	P2 R*3	P3 R*3	P2 R*3	A1	A2	K1	AX	A1 B1 E1 K1
Compatible Masks	FS01 See Page 9	FS See P		CF01 See Page		RS01S See Page 11		RS01 Page 12	RX See P	

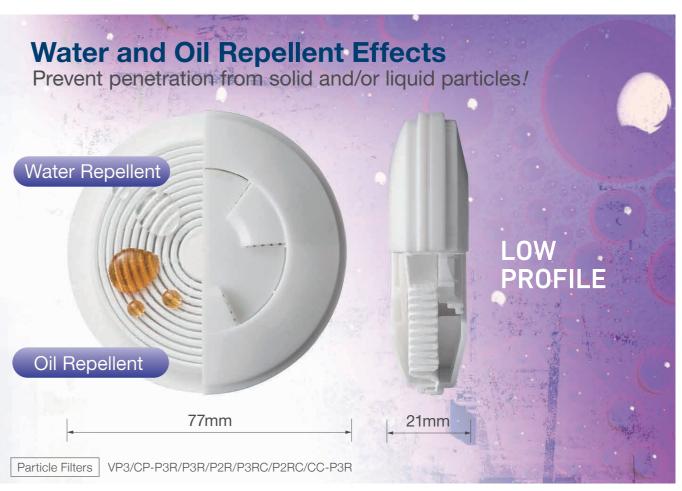
Maximum Filter Penetration (%)

0.05

- *1 P3RC and P2RC particle filters can only be used when attaching to gas filters CA Series, and used as combined filters.
 *2 "+" shows the additional height when P3RC/P2RC is attached to each gas filters CA Series.
- *3 R :If the filter is re-usable respectively.
- NR:If the filter is limited to single shift use only.

 - When attaching P3RC or P2RC particle filters to gas filter CA-AX, since AX filter is only for single use, the filter type of P3RC or P2RC will be P3NR or P2NR.





GX01

EN 136:1998 Class 2



Packing Unit

Order Info	rmatio
Product Name	Size
	S
GX01	М

٠.		•
	Size	
	S	
	М	
	L	

Product Code 40121 40122

≤ 730 g ≤ 742 g ≤ 771 g

1 drain valve in the bottom remove moisture and sweat.

Filter Type & Colour Code

Colour Filter Type

	71	
Brown	Α	Organic gases and vapours (boiling point > 65°C)
Grey	В	Inorganic gases and vapours
Yellow	Е	Sulphur dioxide and other acidic gases and vapours
Green	K	Ammonia and organic ammonia derivatives
Brown	AX	Organic gases and vapours (boiling point ≤ 65°C)
White	Р	Particles

Application

■ Class Type of Gas Filters ■ Class Type of Particle Filters (A, B, E and K*1)

Class	Max. Permissible Concentration*2	Class	Filter Efficiency	Maximum Filter Penetration (%)
1	1,000 ppm (0.1 vol.%)	P1	Low	20
2	5,000 ppm (0.5 vol.%)	P2	Medium	6
3	10,000 ppm (1.0 vol.%)	P3	High	0.05

^{*1} AX filter is not classified.

Filter Application

0 :	I								
Series	CC Combined Filters								
Туре	Particle Filter	Gas I	Gas Filters Combined Filters						
Product Name	CC-P3R	CC-A2	CC-ABEK2	CC-A2P3R	CC-B2P3R	CC-ABEK2P3R	CC-AXP3NR		
Standard	EN 143:2000		EN 14387:2004						
Product Code	40303	40205	40208	40206	40210	40209	40207		
Dia. [mm]	96	111	111	111	111	111	111		
Height [mm]*1	32	52	69	71	71	88	71		
Weight [g]	≤35	≤500	≤500	≤500	≤500	≤500	≤500		
Packing Unit [pcs / box]	10	20	20	20	20	20	20		
Appearance	EE coam 11.	ISTS CO-AR BER	ISTS IN THE PROPERTY OF THE PR	Ists Ists	STS coases (1)	Sts Sts	ists in the same		
Filter Type & Colour Code	P3 R*2	A2	A2 B2 E2 K2	A2	B2 P3 R*2	A2 B2 E2 K2 P3 R*2	AX P3 NR*2		
Compatible Mask				GX01 See Page 15					

^{*1} EN 148-1 standard thread part is not included.
*2 R :If the filter is re-usable respectively.

Filters sold separately. For Compatible Filters see Page 16 For Spare Parts see Page 17 For Accessories see Page 18 15

^{*2} Modifications may be possible due to national regulations.

NR:If the filter is limited to single shift use only.

Compatible Mask	Product	Name	Product Code	Packing Unit
FS01	Exhalation Valve		50000	5 pcs / pack
	Inhalation Valve		50127	5 pcs / pack
8	Inner Mask Valve		50130	5 pcs / pack
	Inner Mask	S	50619	1 pc / pack
		М	50620	1 pc / pack
and the same of th		L	50621	1 pc / pack
	Head Harness		41423	1 pc / pack
	Gasket		41483	10 pcs / pack
F01	Exhalation Valve		50000	5 pcs / pack
	Inhalation Valve		50121	5 pcs / pack
	Inner Mask Valve		50122	5 pcs / pack
	Inner Mask	S	41101	1 pc / pack
		М	41102	1 pc / pack
		L	41103	1 pc / pack
	Head Harness		41401	1 pc / pack
	Gasket		50418	10 pcs / pack
RS01S , _	Exhalation Valve		50000	5 pcs / pack
	Inhalation Valve		50127	5 pcs / pack
	Head Harness		50363	5 pcs / pack
	Gasket		50418	10 pcs / pack
S01	Exhalation Valve		50000	5 pcs / pack
	Inhalation Valve		50121	5 pcs / pack
	Head Harness		41414	5 pcs / pack
	Gasket		50418	10 pcs / pack
X01	Exhalation Valve		50000	5 pcs / pack
) A [Exhalation Valve Cover		41471	1 pc / pack
	Inhalation Valve		50121	5 pcs / pack
	Head Harness		50310	5 pcs / pack
	Gasket		50418	10 pcs / pack
5X01	Exhalation Valve		50000	5 pcs / pack
	Exhalation Valve Cover		41473	1 pc / pack
	Inhalation Valve		41204	5 pcs / pack
	Inhalation Valve Seat (Ga	asket)	41210	1 pc / pack
	Inner Mask Valve		50101	5 pcs / pack
	Inner Mask	S	41111	1 pc / pack
		М	41112	1 pc / pack
		L	41113	1 pc / pack
	Drain Valve		41290	5 pcs / pack
	Front Cover		41305	1 pc / pack
	Head Harness		41405	1 pc / pack

ompatible Mask	Product Name	Power of Lens	Product Code	Packing Uni
		-1.50	07521	
		-2.00	07522	
		-2.50	07523	
		-3.00	07524	
SyncØ9, SyncØ1		-3.50	07525	
FS01, CF01,		-4.00	07526	1 pc / box
GX01		-4.50	07527	1 pc / box
OXOT	Corrective Glasses "CG1"	-5.00	07528	
		-5.50	07529	
		-6.00	07530	
		-7.00	07531	-
		-8.00	07532	
Sync <i>Ø9,</i> Sync <i>Ø1</i> FS01,CF01,GX01	Corrective Glasses Lens Frame "GG-CS" *1		07502	1 pc / pack
Sync <i>Ø9</i> FS01			02662	5 pcs / pack
SyncØ1 CF01	Visor Protection Cover		02659	5 pcs / pack
GX01			02660	5 pcs / pack
Particle and Combined Filters (V and CC*2Series)		R18	13001	1 pc / pack
Gas Filters (CA Series)	Fit Checker	R10	02860	1 pc / pack
Particle and Combined Filters (CP and CA Series)		R15	02865	1 pc / pack
Sync Series	Airflow Tester "FM-6"		04478	1 pc / pack
Sync Series			41551	1 pc / pack
FS01, CF01, RS01S, RS01, RX01	Fit Test Adaptor		41550	1 pc / pack

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^{*1} Lenses are not included.
*2 Gas filter CC-A2, CC-ABEK2 not included.