



# Sync09 Power Air Purifying Respirator

## PRODUCT DESCRIPTION

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The latest advance in breath responsive PAPR with full face mask integrated with a fan unit and speech amplifier. The Synchron09 is a compact PAPR system with wide field of vision, long battery life and ability to work with a wide range of filters.

## APPLICATION

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Sync09 Powered Air Purifying Respirator can ONLY be used with VP3, VA1P3, VABE1P3 and VA1B2E2K1P3 filters. Please refer to the "compatible filters" section for further information. The Synchron09 is designed for use to filter contaminants from the air where oxygen levels are >19.5%.

## KEY FEATURES

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Easy Breathing	Breath-responsive PAPR provides clean filtered air by the fan to take the effort out of breathing
Extra Wide Vision	The newly enlarged visor provides unparalleled vision
Anti-Fog / Anti-Scratch	The outside of visor is anti-scratch coated / Inside is anti-fog
Voice Amplifier	Even if you wear the mask, it is possible to communicate clearly and improve your safety
Codeless	No cords or cables to get snagged or tangled
Switchless	Automatic on/off function
LED Indicators	Two indicators for battery life and filter replacement
IP65 certified	When fully assembled the unit can go through a decontamination shower.

## TECHNICAL DATA

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Material	SBC (Styrene-butadiene copolymers)
Sizes	Medium (M), Large (L)
Visor	Anti-scratch coated polycarbonate / Anti-Fog coated inside
Connector	Screw on connection for filters to the fan unit
Weight	Approx. 735g (M) or 740g (L) (without filters)
Approvals	EN12942:1998 +A2:2008 TM3 AS/NZS 1716:2012 IEC 60529:2001 IP65 rated



## PARTS LIST

Product Name		Item No.	Packing Unit
Sync09 Complete Set – Medium		STS40470	1pc / pack
Sync09 Complete Set – Large		STS40471	1pc / pack
Facepiece “FP-E09” (Includes inner mask and head harness)	M	STS41736	1pc / pack
	L	STS41737	
Facepiece (Excludes inner mask and head harness)	M	STS40504	1pc / pack
	L	STS40505	
Fan Unit “FU-E09”		STS41738	1pc / pack
Spring Loaded Exhalation Valve		STS41380	5pcs / pack
Exhalation Valve Cover		STS41475	5pcs / pack
Inhalation Valve		STS03127	5pcs / pack
Inner Mask Valve		STS50122	5pcs / pack
Inner Mask		STS50623	1pc / pack
Drain Valve		STS41290	5pcs / pack
Head Harness		STS41420	1pc / pack
Gasket Fan Unit-Facepiece		STS03123	10 pcs / pack
Gasket Filter-Fan Unit		STS41482	10 pcs / pack
Guarding Sponge		STS50980	10pcs / pack
Filter Guard		STS50583	1pc / pack
Unit Cover “Knit Cover”		STS02800	10 pcs / pack
Speech Diaphragm Cover		STS03508	10 pcs / pack
Battery “BA-L2H-E”		STS41735	1pc / pack
Charger “CH-L2HAC”		STS41734	1pc / pack
Storage Case		STS41194	1pc / pack

## COMPATIBLE FILTERS

Type	Product Name	Pic.	Dia (mm)	Height (mm)	Weight (g)	Filter Type	Colour Code	Packing Units	Item No.
Particulate	VP3		96	28	≤32	P R SL <sup>*1</sup>		10 pcs / box	STS40350
Combined Filters	VA1P3		110	62	≤ 165	A1 P R SL <sup>*1</sup>		20 pcs / box	STS40250
	VABE1P3		110	65	≤ 205	A1 B1 E1 P R SL <sup>*1</sup>		20 pcs / box	STS40251
	VA1B2E2K 1P R SL		110	65	≤ 215	A1 B2 E2 K1 P R SL		10 pcs / box	STS40253

\*1 R indicates that particulate filter part of combined filter is re-usable, SL for use with solid and liquid-based aerosols only.

## MATERIALS

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Component	Material
1. Facepiece "FP-E01" Face Blank	SBC (Styrene-butadiene copolymers)
Visor	Polycarbonate
Speech diaphragm	ABS (Acrylonitrile butadiene styrene), Teflon, SUS
Exhalation Valve	Silicone Rubber
Exhalation Valve Cover	PBT (Polybutylene terephthalate)
Inner Mask	SBC (Styrene-butadiene copolymers)
Inner Mask Valve	Silicone Rubber
Drain Valve	Silicone Rubber
Head Harness	TPU (Thermoplastic polyurethane), PBT (Polybutylene terephthalate)
2. Fan Unit "FU-E01"	
Inhalation Valve	Silicone Rubber
3. Battery "BA-L2H-E"	
Battery	Lithium-ion battery

## FILTER SELECTION

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It is important that you select the correct filter to protect you from the hazards that are present. You will need to complete a risk assessment to determine:

1. What hazards are present (Particulates, gases/vapours, oxygen deficiency, or a combination)
2. If the hazard includes gases or vapours you will need to know the type or chemical that is creating these. Check the Label or SDS of the chemicals you're working with.
3. Concentration levels. You may need to contact an Occupational Hygienist to determine this, especially if you're working in confined or enclosed spaces.
4. Use the [STS Filter Selection Guide](#) or speak to a Health and Safety professional to determine the best filter for the job.

## FIT TESTING:

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Ensuring your respirator is properly fitted to your face is not just best practice, it is a requirement of AS/NZS 1715:2009. There are two main methods of fit testing, qualitative and quantitative. Fit testing should be carried out before you use your respirator and repeated at least annually or if you've had a significant change to your facial features, for example, significant weight loss or gain. pH7 offers both qualitative and quantitative fit testing. To enquire call 0800 323 223 or email [fittest@ph7.co.nz](mailto:fittest@ph7.co.nz)

The Synch09VP3 is a powered air-purifying respirator that ensures positive pressure inside the mask. However, because the mask is also able to operate as a negative pressure mask if the battery is removed or flat, we recommend you get fit tested.

## PRE-USE CHECK:

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Before wearing your respiratory it's important that you:

1. Visually inspect the mask and filters for damage including, cracking, discolouration, tearing, and deformation.
2. Replace any worn or damaged parts.
3. Complete a negative pressure fit check by donning the respirator, covering the filters with the palms of your hand and inhaling. Check that no air gets in around the face seal. The mask should collapse slightly.
4. Complete a positive pressure fit check by placing the palm of your hand over the exhalation valve and gently exhaling. Check that air doesn't escape from the face seal. The masks should bulge slightly.