

A Quick Guide To Speedglas® Fresh-air® Respiratory Systems



Speedglas® Fresh-air® II P 9000



Speedglas® Fresh-air® II G 9000



Speedglas® Fresh-air® II SA 9000



Particle Fume Protection For Welders



The world's most advanced powered air-purifying respirators with the latest in auto-darkening welding technology: the Speedglas® Fresh-air® II P & G 9000 systems.

- New turbo design: eliminates the battery as a separate unit, reducing its size and weight, while making it more comfortable, with heavy components closer to the welder and lighter components further away.
- New Speedglas 9000 lenses: reliable switching; shade 3 light state; unbeatable optical clarity; environmentally-friendly batteries; plus, they accommodate conventional "drop-in" magnifying lenses.
- New Speedglas helmet: sleek design; easy access to lens cassette; and extended throat protection.



The NIOSH-approved Speedglas **Fresh-air II P 9000** system provides welders with high-efficiency (HE) particulate filtration.

The NIOSH-approved Speedglas **Fresh-air II G 9000** system uses three HE/OV/SD/CL/HC (type AEP3) cartridges for protection against organic vapors, sulfur dioxide, chlorine and hydrogen chloride, as well as for high-efficiency (HE) particulate filtration. It can also be used with three HE (type P3) filters for applications requiring high-efficiency particle filtration only.

Speedglas Fresh-air Warranty

Hornell Speedglas Inc. warrants all Fresh-air products to be free from defects in material and workmanship in normal service and under normal conditions for 180 days from the date of delivery.



WARNING

Not to be used in atmospheres classified as IDLH. Not to be used in atmospheres of less than 19.5% oxygen. Final determination of respirator applicability and filter selection must be made by an on-site safety specialist or industrial hygienist.



The battery can be in the turbo unit or removed for charging. Battery changes are quick and easy...the welder doesn't even need to take off the system.



Just one large filter—instead of the traditional three small filters—is needed for the Speedglas Fresh-air II P 9000 system.



Simplified cartridge selection: the organic vapor AP3 cartridge has been combined with the EP3 cartridge to create the more versatile AEP3 cartridge for the Speedglas Fresh-air II G 9000 system.

Speedglas Fresh-air II G 9000 system for filtration of specific gases, vapors & particulates.





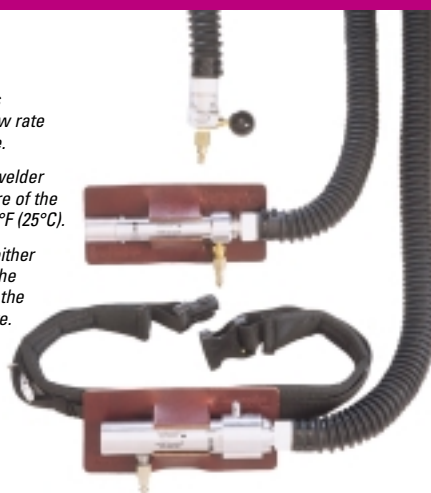
Supplied Air Protection

For highly contaminated welding environments: the Speedglas Fresh-air II Supplied Air (SA) 9000 system.

The NIOSH-approved Speedglas **Fresh-air II SA 9000** system provides respiratory protection from high levels of particle fumes and gases. The light-weight, belt-mounted valves permit the welder to adjust the airflow levels from 6 to 15 cfm (170 to 425 lpm), making it ideal for very hot or strenuous jobs.



- Control-air valve allows adjustment of the airflow rate for personal preference.
- Cool-air valve permits welder to lower the temperature of the supplied air by up to 45°F (25°C).
- Temp-air valve allows either cooling or warming of the supplied air $\pm 45^\circ\text{F}$ from the supplied air temperature.



Valve Model	CFM Required	CFM Delivered	Pressure Range (psig)	Max. # of Hoses/Length*
Control-air	6-15	6-15	65-70	6 hoses/300'
Cool-air	12-25	6-15	70-105	4 hoses/100'
Temp-air	12-25	6-15	85-110	4 hoses/100'

*Indicates maximum number of hoses and maximum total length.

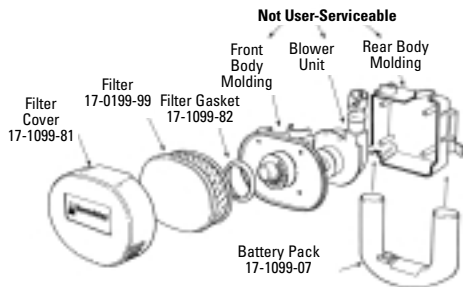
Speedglas Supplied-Air Purification & Regulation Panel (SA PRP 200-B) connects to standard "shop" compressed air systems to provide grade D filtered air to welders. See the complete Speedglas® catalog for detailed information or go to www.speedglas.com

Specifications & Part Numbers

	FA II P 9000	FA II G 9000	FA II SA 9000
Assigned Protection Factor (APF)	25		
Airflow	6+cfm (170+lpm) minimum		
Battery	NiCd; up to 8 hrs/charge	NiCd; 6 to 8 hrs/charge	n/a
Battery Charging Time	14 to 16 hrs	14 to 16 hrs	n/a
System Weights	Helmet assembly with 9000X lens: 1.79 lbs (0.81 kg)		
	FA II P Turbo w/ Battery, Breathing Tube & Belt: 3.06 lbs (1.38 kg)	FA II G Turbo w/ Battery, Breathing Tube & Belt: 3.36 lbs (1.51 kg)	Control-air valve w/ Breathing Tube & Belt: 1.85 lbs (0.84 kg)
	One HE (P3) radial filter: 0.40 lbs (0.18 kg)	Three AEP3 Cartridges: 1.81 lbs (0.82 kg)	Cool-air valve w/ Breathing Tube & Belt: 2.11 lbs (0.96 kg)
		Three HE (P3) radial filters: 0.74 lbs (0.33 kg)	Temp-air valve w/ Breathing Tube & Belt: 2.37 lbs (1.07 kg)
Operating Temperatures	23° to 131°F (-5° to 55°C)		
Respirator Approval	NIOSH 42 CFR 84		
Part # for Complete Systems*	14-1101-(Lens)	14-3301-(Lens) comes w/ three AEP3 cartridges	Control-air: 14-5601-(Lens)
		14-3201-(Lens) comes w/three HE (P3) filters	Cool-air: 14-5701-(Lens)
			Temp-air: 14-5801-(Lens)
Lenses	10, 11 or 12 (9000F lens shade 10, 11 or 12)		
	10X, 11X or 12X (9000XF lens shade 10, 11 or 12)		
	30 (9000V lens)		
	20 (9000X lens)		
Hard Hat	Add "H" for Hard Hat		
SideWindows™	Add "SW" for SideWindows™ option		

*Part # example: "14-3201-11XHSW" is a FA II G 9000 system with three HE filters, a 9000XF shade 11 lens, Hard Hat and SideWindows™ option.

Accessories for Speedglas Fresh-air II P 9000 Systems



Complete Fresh-air II P 9000 Systems

14-1101-(Lens Options)

Lens Options:

- 10, 11 or 12 = Speedglas 9000F Lens shade 10, 11 or 12
- 10X, 11X or 12X = Speedglas 9000XF Lens shade 10, 11 or 12
- 30 = Speedglas 9000V Lens
- 20 = Speedglas 9000X Lens

Add "H" for Hard Hat and/or "SW" for SideWindows™.

Replacement Filters

- 17-0199-99X02 2-pack of HE (P3) Particle Radial Filter Replacements for FA II Turbo Unit "P"

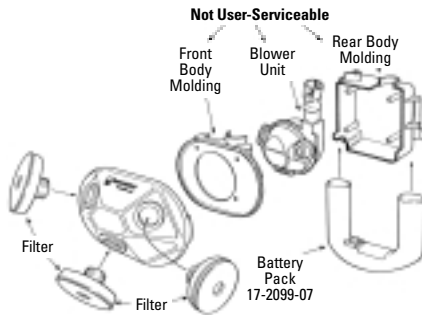
Turbo Unit Replacement Parts

- 17-1099-01 FA II Turbo Unit "P" Assembly without Filters or Battery Pack
- 17-1099-81 FA II Turbo Unit "P" Filter Cover
- 17-1099-82 FA II Turbo Unit "P" Filter Gasket

Misc. Replacement Parts & Accessories

- 17-0099-05 FA II Air Flow Indicator
- 17-1099-07 FA II Turbo Unit "P" 3-Cell Battery Pack
- 17-0099-08 FA II Battery Charger
- 17-0099-08N10 FA II 10-Unit Battery Charger (Smart Charger)
- 17-0099-10 FA II Breathing Tube Assembly
- 17-0099-54 FA II Breathing Tube Cover
- 18-0099-16 Comfort Belt
- 18-0099-33 Carry Bag

Accessories for Speedglas Fresh-air II G 9000 Systems



Complete Fresh-air II G 9000 Systems

14-3301-(Lens Options); comes with three HE/OV/SD/CL/HC (AEP3) Cartridges

14-3201-(Lens Options); comes with three HE (P3) Filters

Lens Options:

- 10, 11 or 12 = Speedglas 9000F Lens shade 10, 11 or 12
- 10X, 11X or 12X = Speedglas 9000XF Lens shade 10, 11 or 12
- 30 = Speedglas 9000V Lens
- 20 = Speedglas 9000X Lens

Add "H" for Hard Hat and/or "SW" for SideWindows™.

Replacement Filters/Cartridges

- 17-0299-99X06 6 pack of HE (P3) Particle Filters
- 17-0299-99X36 36 pack of HE (P3) Particle Filters
- 17-0399-99X06 6 pack of HE/OV/SD/CL/HC (AEP3) Cartridge Filters

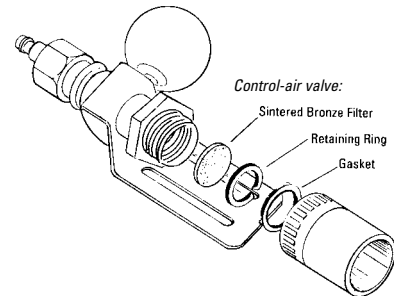
Turbo Unit Replacement Parts

- 17-3099-01 FA II Turbo Unit "G" Assembly without Filters/Cartridges or Battery Pack

Misc. Replacement Parts & Accessories

- 17-0099-05 FA II Air Flow Indicator
- 17-2099-07 FA II Turbo Unit "G" 4-Cell Battery Pack
- 17-0099-08 FA II Battery Charger
- 17-0099-08N10 FA II 10-Unit Battery Charger (Smart Charger)
- 17-0099-10 FA II Breathing Tube Assembly
- 17-0099-54 FA II Breathing Tube Cover
- 18-0099-16 Comfort Belt
- 18-0099-33 Carry Bag

Accessories for Speedglas Fresh-air II SA 9000 Systems



Complete Fresh-air II SA 9000 Systems

Control-air: 14-5601-(Lens Options)

Cool-air: 14-5701-(Lens Options)

Temp-air: 14-5801-(Lens Options)

Lens Options:

- 10, 11 or 12 = Speedglas 9000F Lens shade 10, 11 or 12
- 10X, 11X or 12X = Speedglas 9000XF Lens shade 10, 11 or 12
- 30 = Speedglas 9000V Lens
- 20 = Speedglas 9000X Lens

Add "H" for Hard Hat and/or "SW" for SideWindows™.

Replacement Valves and Valve Parts

- 18-0099-46 Control-air Valve Assembly
- 18-0099-47 Cool-air Valve Assembly
- 18-0099-48 Temp-air Valve Assembly
- 18-0099-52 Sintered Bronze Disk (Control-air Valve only)
- 18-0099-55 Valve Shield
- 18-0099-63 Breathing Tube (Supplied Air) Hard Hat

Air Supply Hoses

- 18-0099-40 25 feet Breather Hose, with Couplings
- 18-0099-41 50 feet Breather Hose, with Couplings
- 18-0099-42 100 feet Breather Hose, with Couplings
- 18-0099-43 25 feet Nycoil™ Hose, with Couplings
- 18-0099-44 50 feet Nycoil™ Hose, with Couplings
- 18-0099-45 100 feet Nycoil™ Hose, with Couplings
- 18-0902-06 Air Source Quick Connect

Misc. Replacement Parts & Accessories

- 18-0099-16 Comfort Belt

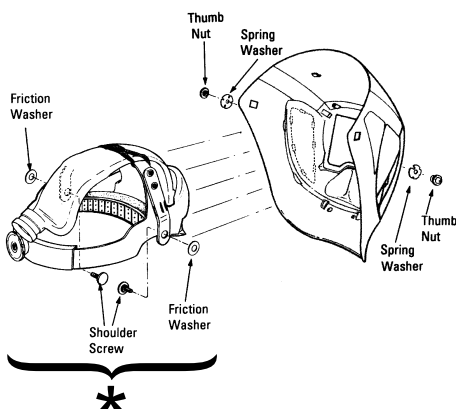
Helmet Parts for Fresh-air II 9000 P, G & SA Systems

Head Cover
18-0099-30



Face Seal
14-0099-28

Fresh-air II 9000 Helmet with
Velcro® & Foam:
14-0099-32
(Hardware: 14-0099-70 &
Face Seal: 14-0099-28
sold separately)



*Fresh-air II 9000 Headband Assembly with Air Duct:
14-0099-29 (Hardware sold separately: 14-0099-70)

- 18-0099-33 Carry Bag
- 18-0099-27 Elastic Duct Retainer (each)
- 14-0099-28 FA II 9000 Face Seal
- 14-0099-29 FA II 9000 Headband Assembly with Air Duct
- 18-0099-30 Head Cover
- 14-0099-32 FA II 9000 Helmet (with Velcro® and foam only)
- 14-0099-32SW FA II 9000 SideWindows™ Helmet (with Velcro and foam only)
- 14-0099-35 FA II 9000 Helmet Assembly Complete
- 14-0099-35SW FA II 9000 SideWindows™ Helmet Assembly Complete
- 14-0099-70 FA II 9000 Helmet Assembly Hardware Kit
- 04-0000-10 Speedglas 9000F Lens only, shade 10
- 04-0000-11 Speedglas 9000F Lens only, shade 11
- 04-0000-12 Speedglas 9000F Lens only, shade 12
- 04-0000-10X Speedglas 9000XF Lens only, shade 10
- 04-0000-11X Speedglas 9000XF Lens only, shade 11
- 04-0000-12X Speedglas 9000XF Lens only, shade 12
- 04-0000-30 Speedglas 9000V Lens only
- 04-0000-20 Speedglas 9000X Lens only

For additional product
information, refer to:



Speedglas®

Hornell Speedglas Inc.
2374 Edison Blvd.

Twinsburg, OH 44087 USA
Tel: 800-628-9218 or 330-425-8880

Fax: 330-425-4576

Website: www.speedglas.com

E-mail: info@speedglas.com