

# VORTEX HDV PAPR SYSTEM

P/N: 305001

## The next level of welding respiratory protection.

Provides protection against hazardous  
solid dust particles, metal fumes  
and mists.



**3 YEAR**  
WARRANTY

Designed to withstand industrial environments, Miller helmets come with a 3 year warranty (Auto-Darkening lens only).

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## PRODUCT SPECIFICATIONS

Size (Blower Assembly)	Weight (blower assembly, filters, belt shoulder straps and battery)	Air Filter Assembly	Air Flow	Operating Temperature
210 x 178 x 76mm	1362gm	Spark guard screen, foam prefilter, and particulate (HEPA) filter - down to 0.3 micrometers in size	Low Speed: 6.18+ CFM (175+ LPM) Medium Speed: 6.89+ CFM (195 LPM) High Speed: 7.59 CFM (215 LPM)	-5 to 55° C

Storage Temperature	Battery Type	Battery Charging Time	Battery Life	Belt Size	Protection Level
-10 to 80° C	Rechargeable lithium 14.8V, 3A	About 3 hours	500 charges – run time dependent on air flow rate and filter load	(711 to 1397mm)	Class 2 particulate filter meets AS/NZ1716:2012 standards

## PARTS AND ACCESSORIES

<b>Blower assembly Complete</b>	287172
<b>Filter, particulate (HEPA) (2-Pack)</b>	287170-2
<b>Filter, particulate (HEPA) (6-Pack)</b>	287170-6
<b>Filter, particulate (HEPA) (36-Pack)</b>	287170-36
<b>Filter, prefilter (foam)</b>	235674
<b>Filter cover</b>	287175
<b>Battery, blower, 14.8V, 3A (use with charger 282077)</b>	287178
<b>Charger, 16.8V, 2A (use with battery 287178)</b>	282077

<b>Belt pad (PAPR)</b>	288941
<b>Shoulder straps</b>	287177
<b>Belt</b>	287176
<b>Belt extension</b>	244151
<b>Bag</b>	228028
<b>Breathing tube assembly</b>	261704
<b>Breathing tube cover, flame-resistant</b>	265312
<b>Flowmeter</b>	277222
<b>Spark guard</b>	235676

## STANDARDS

AS/NZS 1716.2012

## WARRANTY

1 Year Warranty (blower unit)

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# VORTEX HDV PAPR SYSTEM

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## WELL-BALANCED DESIGN

Reduces torque on neck, increasing all-day wear.

## PATENT-PENDING DUALTEC™ MANIFOLD SYSTEM

Optimises helmet balance and sound, while 6-point air distribution system maximises cooling through targeted air placement.

## ERGONOMIC HEADGEAR

Provides a secure fit, without the need for over-tightening.

## LIGHTWEIGHT LOW-PROFILE BLOWER ASSEMBLY WITH INTEGRATED SHOULDER STRAPS

Reduces lower back strain and fatigue.

## EXCLUSIVE MILLER CLEARLIGHT™ 2.0 LENS TECHNOLOGY

Provides advanced high definition optics for the most realistic view that's clearer and brighter - before, during and after every weld.

## HALF SHADE LENS ADJUST-ABILITY

Provides fine shade adjustment for optimised comfort and vision.

## HIGH DEFINITION VIEW (HDV) TECHNOLOGY

Keeps the refractive power of the grind lens and outside cover lens constant, providing users a peripheral view with minimal distortion.

## ENHANCED COMFORT, COOLING AND VISIBILITY

Maximise all-day wear-ability - increasing productivity, safety and regulatory compliance.

## LOW PROFILE BREATHING TUBE ATTACHMENT

Eases on/off process while flexible tube material eliminates breathing tube snags in work cell.

## TWO LIGHTWEIGHT LITHIUM-ION BATTERIES

Included with each system eliminate downtime. Charge one battery while using the other one.

## AUSTRALIAN STANDARDS

The lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact) while the PAPR System complies with Australian Standards AS/NZS 1716.2012.

\*Welding Industries of Australia will not accept responsibility for respiratory protective equipment that is chosen incorrectly. Some welding environments may contain dangerous levels of poisonous gases that are not suitably filtered by a particle filter. Vortex is not suitable for environments that contain gaseous particles or have an oxygen deficiency. It is the purchasers' responsibility to ensure their workplace is tested adequately for fume hazards and adequate extraction is used in confined space applications.

# VORTEX HDV PAPR SYSTEM

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## PAPR BLOWER ASSEMBLY FEATURES

### LIGHTWEIGHT LOW-PROFILE BLOWER DESIGN

Extends wear-ability without interfering with surroundings.

### INTEGRATED SHOULDER STRAPS

Reduces fatigue over long shifts by distributing system weight to alleviate lower back pain.

### THREE AIR SPEEDS - LOW, MEDIUM, HIGH

Allows users to adjust the volume of air to maximise comfort in varied work conditions.

### LIGHTWEIGHT LITHIUM-ION BATTERIES

- Provides long battery life (up to eleven hours on low speed) with no memory retention from frequent charging (three-hour charge cycle).
- Rated for 500 charges.
- Two batteries are included with each system.
- Quick-release belt design allows for seamless system on/off.

### AUDIBLE AND VIBRATING ALARMS

Notifies users in noisy environments of air blockage, low battery, incorrect setting and filter lifetime. Alarm is given via LCD display, outer LED display, buzzer or vibration.

### QUICK-RELEASE BELT DESIGN

Allows for seamless system on/off.

### LCD DISPLAY

Allows users to see fan speed, filter time, battery level and current time.

### FILTER TIMER

Tracks for how many hours of use the filter has.

### COMPLETE SYSTEM INCLUDES

- Blower assembly Gen2
  - HEPA filter
  - Prefilter
  - Spark guard
- Prefilters (x6)
- Breathing tube
- Breathing tube cover
- Padded belt
- Shoulder straps
- Lithium-ion batteries (x2)
- Battery charger
- Battery charger supply cable with AU plug
- PAPR owner manual
- Flowmeter
- Carry bag
- Ultra HDV helmet assembly
- Spare HDV front cover lens (x2)
- Tear away grind shield (x2)
- Spare HDV grind shield (x2)
- Spare cover lens inside (x2)
- Helmet owner manual



# VORTEX HDV PAPR SYSTEM

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## HELMET ASSEMBLY FEATURES

### EXCLUSIVE MILLER HIGH DEFINITION VIEW (HDV) LENS TECHNOLOGY

Keeps the refractive power of the grind lens and outside cover lens constant, providing users a peripheral view with minimal distortion.

### LIGHTWEIGHT, WELL BALANCED DESIGN

Reduces neck torque, minimising operator fatigue and strain leading to an increase in short-term comfort as well as long-term health benefits.

### ERGONOMIC, FOUR POINT FLEXIBLE HEADGEAR DESIGN

Provides a secure fit, while avoiding major pressure points within the head, maximising all-day wear. Welders can custom fit the helmet with seamless tilt, distance and tightness adjustments.

### HELMET LOCKS IN UPRIGHT POSITION

Toggle springs assist easy flip up, and holds the outside shield in an upright position for non welding tasks. The internal grind lens provides high impact protection.

### AUSTRALIAN STANDARDS

The lens and helmet comply with Australian Standards AS/NZS 1338.1 (Auto-Darkening) and AS/NZS 1337.1 B (High Impact).

### LENS FEATURES

- X-Mode™ senses the arc's electromagnetic field rather than brightness to darken the lens - ideal for outdoor, low-amp TIG and obstructed view applications.
- InfoTrack™ 2.0 technology provides memory, arc time and arc count functions that allows the weld operator to store favourite settings, keep track of weld time and arc starts.
- Half shade settings for precise lens adjustment.
- Simple digital lens interface allows for easy adjustment with or without gloves.



### HIGH QUALITY AND FULLY ADJUSTABLE HEADGEAR

Pivoting, oversized back pad and multiple head straps secure helmet in downward applications, eliminating over-tightening and discomfort.



### LARGE INTEGRATED GRIND SHIELD

Provides 174 x 126 mm of clear viewing area for grinding and other tasks, increasing helmet-on time, decreasing the potential for eye injuries.



### EXCLUSIVE MILLER CLEARLIGHT™ 2.0 LENS TECHNOLOGY

Provides advanced high definition optics for the most realistic view that's clearer and brighter - before, during and after every weld.

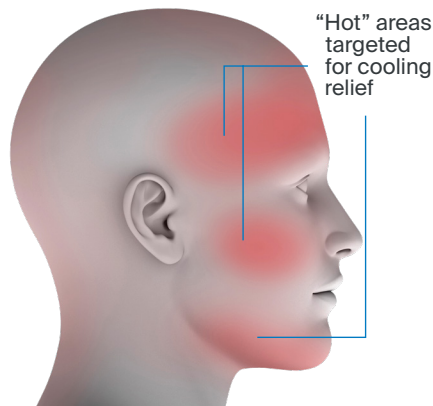
# VORTEX HDV PAPR SYSTEM

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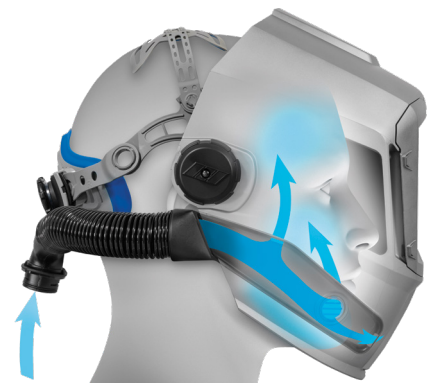
## PATENT-PENDING DUALTEC MANIFOLD SYSTEM DESIGN



- With 6-point airflow distribution system.
- Maximises perceived cooling through targeted air placement.



- System targets body's natural thermal regulation system to minimise operator heat stress.
- 6-point airflow distribution system targets "hot" areas within the face for immediate cooling relief, without causing eye and/or nose irritation.



- Adjustable interior vents allow for customized flow depending on user preference.

## HELMET PRODUCT SPECIFICATIONS

Viewing Area	Cartridge Size	Modes	X-Mode	Grind Mode	Cut	Weld
97 x 60mm	114 x 120 x 9.5mm	X-Mode Weld Cut Grind	Shades 8 - 12.5	Shade 2.5	Shades 5 - 8	Shades 8 - 12.5

Switching Speed (light to dark)	Delay Speed (dark to light)	Arc Sensors	Optical Grade	Weight	Power	On/Off Control	Operating Temperature
1/25,000sec	0.1 - 1.0sec	4	EN379 1/1/1/2	709g	CR2450 lithium battery and solar assist	Automatic on, off after 45 minutes	-10 to 55°C

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## HELMET PARTS AND ACCESSORIES

Replaceable battery	217043P2	Cover lens inside	216327
Magnifying lens 1.5x	212238P	Tear away grind shield	258853
Magnifying lens 2.0x	212240P	Headgear	260486
Magnifying lens 2.5x	212242P	Headband fabric	770249
HDV front cover lens	305004	Adjustment angle / stop kit	265891
HDV grind shield	305007		

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## HELMET STANDARDS

AS/NZS 1338.1 (Auto-Darkening)

AS/NZS 1337.1 B (High Impact).

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## HELMET WARRANTY

3 Years Warranty (auto-darkening lens)

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