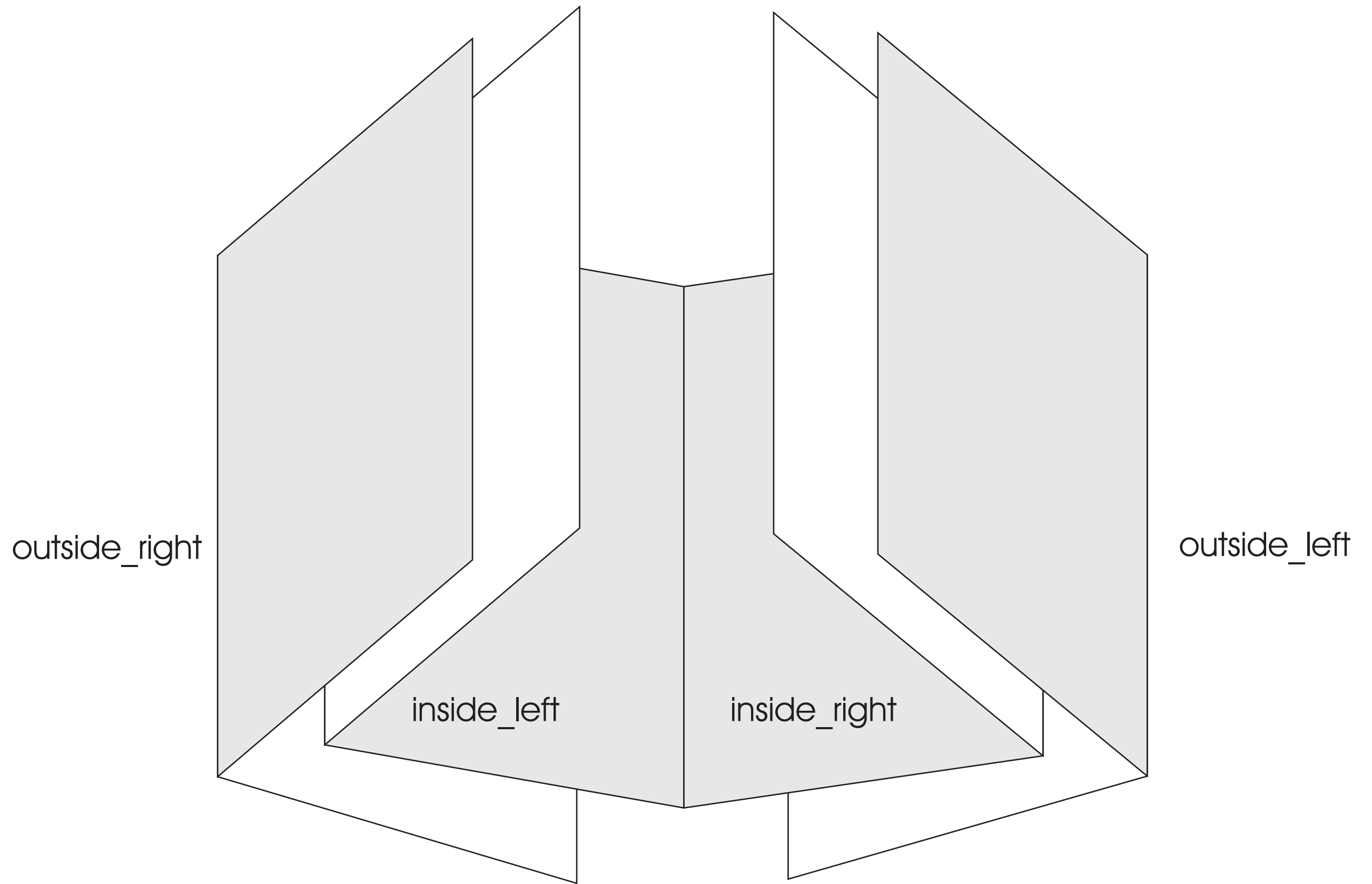


Make up the brochure like this from the four A3 pages:



First Response.



The positive pressure respirator system from the specialists in personal protection for first responders

SE400AT-2



SE400AT-2 is a positive pressure demand powered air purifying respirator specially designed for first responders and other emergency personnel.

In combination with the SE-SHIELD pressurized suit, tested against chemical and biological warfare agents, the SE400AT-2 is the ideal respirator for all warm-zone activities.

The respirator offers considerably longer operation times than SCBA. The SE400AT-2 keeps working for hours, providing clean air at a rate of more than 400 l/min peak inhalation air flow — which means positive pressure and effortless breathing even during hard work.

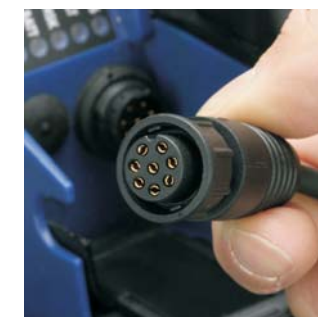
The SE400AT-2 is used by defense forces, police and rescue squads, first responders, domestic preparedness outfits, ambulance teams, paramedics and other emergency personnel all around the world.

- True positive pressure at work rates requiring peak air flows over 400 l/min
- Independent work protection factor studies have established that in filtrable, non-IDLH atmospheres containing enough oxygen for human breathing, SE400 offers protection levels comparable to SCBA in real work situations*
- Proven protection against chemical toxins, warfare agents (sarin, nerve gas etc.), crowd control (tear) gas, biological materials (anthrax, bacteria, viruses etc.) and many more
- Single battery typically lasts approximately 4 hours during moderate work. Battery can be changed without taking off respirator. Dual battery available
- Positive pressure demand operation means extended filter life — typically 50% longer than continuous-flow respirators
- Visual and audible alerts of low battery, mask pressure, end of filter life and other events. Warning light always in user's field of vision
- Microphone in the face piece is connected to external loudspeaker for clear voice communication
- Unit is normally carried on backpack, but can also be waist belt mounted
- Range of pressurized, encapsulated suits in various materials available
- Wide range of accessories, such as spark and flame-proof covers, spectacle inserts, welding shields, tear-off visor film, and much more
- Micro-processor driven operation constantly performs self-diagnostics
- Should motor switch off for any reason, the unit becomes a negative-pressure respirator, enabling safe escape from the hazard zone

Verification documentation of above claims can be found at www.sea.com.au



New swivel hose connection lets you position the unit with great flexibility



The self-locating, water-resistant external loudspeaker connector is quick and easy to fit



In certain climatic conditions, press and hold the SE-TALK button to demist your visor rapidly



The new regulator is set at an angle for a perfect view of the indicator light, and features an enhanced snap-lock.

Clean air at positive pressure.

The SE-SHIELD domestic preparedness suit has been specifically developed for use in a wide variety of emergency response operations. The light-weight, flexible suit is made from Tyvek F® material and protects the user from chemicals, gas, warfare agents, biological and biochemical materials.* Designed to fully integrate with the SE400AT-2 positive pressure respirator.

The suit is fitted with booties and inner gloves and is pressurized to create a positive pressure inside the suit for both comfort and protection equivalent to conventional heavy suits. Properly fitted, a pressurized SE-SHIELD suit typically has an inward leakage of less than 0.1%.

- Specially designed to work with the SE400AT-2 respirator fitted with pressurization hose
- Filters connected through completely airtight seals
- Double hood ensures complete seal, even during vigorous movements with head, arms and shoulders
- Booties and inner gloves permanently welded onto suit. Use any choice of outer gloves and boots/shoes
- Tested against a wide variety of chemicals and warfare agents, such as mustard gas, Lewisite, and VX
- Disposable — designed for single-use only

Breakthrough time (Tested in accordance with ASTM F739-1991)

Acetone	>480	Methanol	77
Ammonia	79	Methyl chloride	>480
Carbon Disulfide	>480	Monoethanolamine	>480
Chlorine	>480	NaOH conc.	>480
Dichloromethane	5	Sulfuric acid	>480
Diethylamine	>480	Tetrachloroethylene	>480
Ethyl acetate	>480	Toluene	>480
Ethylene glycol	>480	Xylene	>480
Ethylene oxide	65	Mustard	>480 @ +37°C*
Hexane	>480	Lewisite/mustard (2:1)	>480 @ +37°C*
Hydrogen chloride	>480	VX	>480 @ +37°C*

*) Tested by TNO, the Netherlands

Burst resistance	227 kPa
Puncture resistance	30.9 N
Flex crack resistance	2500 cycles
Air permeability	Impermeable
Water vapour permeability	Impermeable
Exposure to high temp	Seams open at +98°C
Exposure to low temp	Flexibility down to -70°C



The pressurization hose keeps your suit inflated and away from your skin, adding to comfort, and keeping the risk of inward leakage down to about 0.1%.



Filters are available in two sizes. The size has no influence on the efficiency of the filter — only on the length of time before replacement.

Pressure drop over the filter:

- At 30 l/min: <1.2 mbar
- At 95 l/min: <4.0 mbar

Substance	Concentration (ppm)	Flow rate (l/min)	NIOSH/OE req. (minutes)	Detection level (ppm)	SEA filter break-through (min)
Cyclohexane [†]	5000	30	35	10	50
Chlorine [†]	5000	30	20	10	40
Hydrogen sulfide [†]	5000	30	40	10	>120
Hydrogen cyanide [†]	5000	30	25	10	72
Sulfur dioxide [†]	5000	30	20	10	23
Ammonia [†]	5000	30	40	10	50
Carbon tetrachloride	1000	64	25	5	>65
CH ₃ NH ₂	1000	64	12.5	50	>80
Hydrogen chloride	500	64	25	10	>35
ClO ₂	500	64	30	0.1	>60
Hydrogen fluoride	70	64	30	3	>60
HCHO	100	64	50	1	>100
O-chlorobenzylidene malononitrile CS	3	64	480	0.05	>480
CN teargas	16	64	480	0.05	>480
DOP	200mg	85	70mmH ₂ O	0.03%	40mm H ₂ O*
NaCl		95		0.05%	0.001%

*) Penetration 0.004%

†) European test data using large filters. Remaining tests conducted in USA on small filters



The face piece is made of halo-butyl (other materials available on request). It can be fitted with fabric single-action head harnesses, internal spectacles, sun glasses, low-light glasses, tear-off visor film and various other accessories.



Complete domestic preparedness kits are available, containing an entire SE400 system with back-pack, along with SE-SHIELD suits, pressurization hose, several filter cartridges and pre-filters, all supplied with a rugged carry-bag designed to keep the whole ensemble at the ready.



Battery management is made easy by mass recharge units that can maintain multiple batteries from a single power connection. Units come in sturdy carry packs that make the entire system highly portable.

SE400 is not a fire-fighting respirator. It is intended for use in first response, fire investigation and similar operations



Encapsulated, pressurized suits in PVC material also available

No matter how hard you work.



Negative pressure respirators



- Designed for domestic preparedness use
- Halo-butyl material
- Used with same threaded filters as SE400 positive pressure respirator
- Can be fitted with SmallTalk communication loudspeaker
- Available with various types of head harnesses, including single-action fabric harness
- Large range of accessories



- Designed for domestic preparedness use
- Halo-butyl material
- Used with same threaded filters as SE400 positive pressure respirator
- Side-mounted filter for wide field of vision
- Can be fitted with SmallTalk communication loudspeaker — microphone simply clips on to respirator
- Large range of accessories



- DP kit made specially for first responders using negative pressure equipment
- Face mask, cartridges, pre-filters at the ready
- SmallTalk in-mask communication unit included
- Presented in sturdy carry case



- Communicate freely without removing the respirator
- Loud and clear voice communication
- Electret microphone in respirator
- Handy clip for attachment to breast pocket or belt
- Standard long-lasting 9V battery
- Large controls — easy to adjust with thick gloves
- Thin, flexible cable — can be worn inside clothing
- Rugged construction, designed to withstand temperature, vibration, impact, dust and spray

*) For full, up-to-date product specifications, standards approvals and other information on all our products for any particular jurisdiction, please visit our web site at www.sea.com.au or consult your local distributor.

Positive-pressure Powered Air-purifying Demand Respirator



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