

VENTILATORS

VENTILATORS - ASPIRATORS

• HYDRAULIC • GASOLINE • ELECTRIC - MOTORS



CENTRIFUGAL VENTILATORS - ASPIRATORS

DOA produces a complete range of ventilators/aspirators powerful, effective and easily transportable, their use of ventilation and safety in closed space is mandatory and prescribed by law before, during and after works in environment that can be dangerous, toxic, flammable or explosive like tunnels, basements, manholes, silos, holds, tanks, petrochemical plants, wells, fuel stations, warehouses, mines, laboratories, confined space excavations, sewers ducts, gas distribution networks etc. The exclusive DOA system to fix the hoses on tools allows a quick installation on the mouth by simply "button up" the hose edge on pins only by hands without needing screw drivers or belts/clamp. The volute and air fan can be washed up without problems as are in polyethylene, maintenance necessity is minimal. Very robust thanks to the construction in polyethylene and stainless steel are invulnerable to impacts rust water and from the corrosion of the majority of acids and chemical agents.

NOTES ON SAFETY IN THE USE OF THE ASPIRATORS

- For maximum safety, never use tool in aspiration if it is not known the nature of the fumes or if cannot exclude that the fumes to be sucked could be flammable or explosive, in such a case or in doubt tool must only be used as POSITIVE ventilator blowing into the ambient ventilating and making a sort of "air wash" of the ambient
- Aspiration and then centrifuging / pressurizing explosive gases makes them even more explosive in the event of a spark ignition.
- The hydraulic models, single-phase or electric single-phase, can only suck toxic or poisonous (but not explosive) fumes such as exhaust gas, welding fumes, CO₂, powders etc.
- It occurred many times that in the attempt to help a victim stunned from gas also the rescuers remain victim from the gas as it was not realized the motive of the accident and the toxicity of the ambient.
- Some gas and even the lack of oxygen are odorless so can be fatal without giving suspects or signs of danger.



Ventilation of manholes and closed ambients



Aspiration in manholes and closed ambients



Direct ventilation without air hose



Suction of welding fumes in indoor works



Aspiration and ventilation in a precise point



The fans can be positioned directly in the closed environment

ASPIRATORS

HYDRAULIC

- High power thanks to the possibility given by hydraulic motors to give a high speed to the fan
- Hydraulic motor has no exhaust so can be placed directly in closed ambient
- Absence of electricity makes it implicitly safe, insensible to rain and high water presence
- Quiet, no vibration, minimal maintenance need
- Can be used in more positions or in the normal upward position or inclined on side or back to direct or suck air flow directly from manholes, sewers covers, hatches he volute and the air fan can be washed without problems
- Can be powered from hydraulic power packs or from the hydraulic circuit of trucks, mini excavators, etc.
- Hydraulic motor is equipped with safety valve to protect against excess of flow of hydraulic flow / fan speed
- Stainless steel frame with foldable handle and lifting hook for convenient handling
- The air hoses can be mounted on the inlets in just a few moments and without the need for tools thanks to the exclusive quick eyelet system



Ventilation positive and negative

| TECHNICAL CHARACTERISTICS | AV 28 H - HYDRAULIC |
|---------------------------|--|
| Weight (kg) | 21 |
| Dimension LxPxH (cm) | 60x57x74 |
| Mouth diameter | 200 mm (8") |
| Oil flow L/min | 20-40 |
| Oil pressure Bar | 100-210 |
| Volute and fan | polyethylene |
| Air flow | 2100 m ³ x h @ 2900 fan speed |
| Inclination | yes, in 3 positions |

Practical centrifugal ventilator/aspirator with hydraulic motor. Powerful and easy transportable its use is mandatory by law for putting in safety conditions an ambient before and during operations in closed environment that could be dangerous or explosive like tunnels, basements, manholes, silos, large tanks, holds, wells, petrochemical plants, gas stations, mines, laboratories, narrow trenches, sewers ducts, gas distribution networks, etc... Extremely light can be inclined and used in more positions, can be used with or without the flexible hose, flexible hoses are needed when the air has to be transported IN or FROM a precise point, without hoses can be used as positive ventilator blower to make a powerful and direct "air wall". The volute and impeller are in robust polyethylene and polypropylene materials invulnerable to water, rust and corrosion, the frame is in indestructible stainless steel

VENTILATORS

AV 28 S

Ventilator/aspirator gasoline engine

GASOLINE



Ventilation positive and negative



KW Hydraulik
Aggregate und Werkzeuge

www.dynaset-hydraulik.de info@kw-hydraulik.de +49 3675 421 980

- *High power, can be used everywhere in autonomy*
- *Stainless steel frame with foldable handle and lifting hook for convenient handling*
- *The air hoses can be mounted on the inlets in just a few moments and without the need for tools thanks to the exclusive quick eyelet system*
- *The volute and the air fan can be washed without problems*

Practical centrifugal ventilator/aspirator with gasoline engine. Powerful and easy transportable its use is mandatory by law for putting in safety conditions an ambient before and during operations in closed environment that could be dangerous or explosive like tunnels, basements, manholes, silos, large tanks, holds, wells, petrochemical plants, gas stations, mines, laboratories, narrow trenches, sewers ducts, gas distribution networks, etc...Extremely light can be used with or without the flexible hose, flexible hoses are needed when the air has to be transported IN or FROM a precise point, without hoses can be used as positive ventilator blower to make a powerful and direct "air wall". The volute and impeller are in robust polyethylene and polypropylene materials invulnerable to water, rust and corrosion, the frame is in indestructible stainless steel.

| TECHNICAL CHARACTERISTICS | AV 28 S - GASOLINE ENGINE |
|---------------------------|---|
| Weight (kg) | 21 |
| Dimension LxPxH (cm) | 60x57x74 |
| Mouth diameter | 200 mm (8") |
| Engine power | 3 Hp Honda |
| Volute and fan | Polyethylene |
| Air flow | 2100 m ³ xh @ 2900 fan turns |
| Inclination | no |

Typical complete set



ASPIRATORS



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AV 28 E

Ventilator/aspirator electric

- Can be power by common home electric sockets or from small generators
- Electric motor has no exhaust so can be placed directly in closed ambient
- Quiet, no vibration, minimal maintenance need
- Can be used in many positions or in the normal upward position or inclined on side or back to direct or suck air flow directly from manholes, sewers covers, hatches, etc.
- Stainless steel frame with foldable handle and lifting hook for convenient handling
- The air hoses can be mounted on the inlets in just a few moments and without the need for tools thanks to the exclusive quick eyelet system

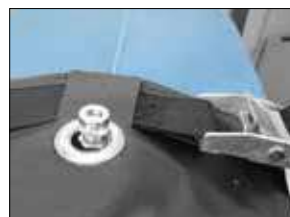
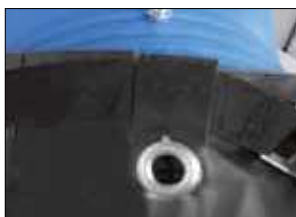
ELECTRIC



Ventilation positive and negative



Folding handle with locking system



Detail of the quick installation system of the hoses on the tool mouth

| TECHNICAL CHARACTERISTICS | AV 28 E - ELECTRIC |
|---------------------------|---|
| Weight (kg) | 21 |
| Dimension LxPxH (cm) | 60x57x74 |
| Mouth diameter | 200 mm (8") |
| Engine power | 1,5 KW - 230 V 50 Hz |
| ON/OFF Swicht | on the motor with emergency button |
| Volute and fan | polyetilene |
| Air flow | 2100 m ³ x h @2900 fan speed |
| Inclination | yes, in 3 positions |

Practical centrifugal ventilator/aspirator with 230 V electric motor. Powerful and easy transportable its use is mandatory by law for putting in safety conditions an ambient before and during operations in closed environment that could be dangerous or explosive like tunnels, basements, manholes, silos, large tanks, holds, wells, petrochemical plants, gas stations, mines, laboratories, narrow trenches, sewers ducts, gas distribution networks, ecc. Extremely light can be inclined and used in more positions, can be used with or without the flexible hose, flexible hoses are needed when the air has to be transported IN or FROM a precise point, without hoses can be used as positive ventilator blower to make a powerful and direct "air wall". The volute and impeller are in robust polyetilene and polypropylene materials invulnerable to water, rust and corrosion, the frame is in indestructible stainless steel