

ASTRA VORTEX

The evolution of the steam cleaning



FOR EVERY KIND OF SURFACE

ASTRA VORTEX is the complete solution for cleaning upholstery without use of foam or detergent.

MULTIPLE SAFETY SYSTEM

Multiple and certified security devices prevent the machine for causing any kind of inconvenience with the heating and pressure. The advanced failure mode diagnosis system checks any status of the machine.



MOVING POWER

ASTRA VORTEX is a stand alone machine with a robust frame designed for heavy duty cleaning operation. The use of large wheels makes it easy to move on every path.



NO FURTHER ADDITIONAL COST

ASTRA VORTEX designed for a long lasting life, can replace the work of three machines, without any particular maintenance program.



EASY TO USE EASY TO CLEAN

With **ASTRA VORTEX** you work continuously, taking only 5 minutes to clean the recovery tank off the dust. You will forget to change or remove filters and to care about electric parts.

MAKE YOUR LIFE EASIER, INCREASE YOUR BUSINESS WITH ONE MACHINE ONLY

ASTRA VORTEX is the result of 40 years experience in the technology of professional machines.

Thanks to the unique Astra steam boiler, you get all the advantages of a powerful high pressure cleaner but with the minimum water use.

The newest **VORTEX system** replaces the normal vacuum cleaner, combining the suction power to the steam efficiency.

ASTRA VORTEX is able to melt and vacuum the most difficult dirt, like coffee, chewing gum and every kind of stains, in short time and without damaging the surfaces.

**ASTRA VORTEX IS AN INDUSTRIAL PRODUCT
HIGHLY SUGGESTED FOR:**

CAR WASH PARKS

AUTO REPAIR SALONS

SANITATION OF COMMERCIAL AND PUBLIC VEHICLES

INDUSTRIAL MACHINE CLEANING

MOBILE CLEANING

TECHNICAL FEATURES

PRESSIONE	bar 9
BOILER TEMP.	°C 180
OUTGOING TEMP.	°C 150
STEAM PRODUCTION DRY-WET	kg/h 33-42
DIESEL CONSUMPTION	l/h 3,4
MAX ELECTRIC POWER	W 500
BOILER HEATINGPOWER	kW 32
FREQUENCY	Hz 50
WATER TANK CAPACITY	L 27
FUEL TANK CAPACITY	l 20
PRE-HEATING TIME	min <4
DEPRESSION	mbar 220
DIMENSIONS L x W x H	70x106x102
WEIGHT	kg 130

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INJECTION WITH EXTRACTION

The dirt is removed by the heat of the steam and immediately sucked up in the recovery bin placed in the rear of the machine.

1 STEAM AND DETERGENT (PRE WASHING)

The first tool provides steam and chemical (detergent, foam or wax) so to clean the most difficult dirt.

1**2**

STEAM INJECTION

The second station completes the external washing, using the steam thermal power and the possible addition of water flow at 9bar.

ASTRA VORTEX: AN EASY, EFFICIENT, SAFE USE

NO WASTE: MINIMUM WATER USE

ASTRA VORTEX is a versatile steam machine able to wash, remove stains, sanitize, using the 5% of water of a professional high pressure cleaner.

Thanks to the combined steam injection and suction, **ASTRA VORTEX** is able to remove every kind of dirt from any surface in the minimum time with the minimum energy supply.

INTELLIGENT VERSATILITY: WASH, STAIN REMOVAL, SANITIZE, VACUUM

The **VORTEX** technology is ideal to clean cars inside and outside. The steam spray can wash and sanitize with a limited water use.

The suction, thanks to Vortex technology, collects the dirt.

RELIABILITY WITH LOW MAINTENANCE

Unlike normal vacuum cleaners, in the machine there are no filters nor electrical material, nor consumables to replace.

3 FUNCTIONS IN ONE MACHINE 3 OPERATORS AT THE SAME TIME

ASTRA VORTEX can be used at the same time by 3 operators, connected to the three independent steam outlets, allowing to wash, vacuum, degrease without any power drop or interference.

The three functions can be used in succession by the same operator or even by more operators at the same time, to create a continuous cleaning process at different stages.

MAXIMUM PORTABILITY WITH 500WATT ONLY

The powerful diesel boiler supplies heating power of 32Kw.

ASTRA VORTEX has a very low electrical consumption (500Watt) and can be easily switched on, connecting it to a battery or a small petrol generator.

EXCELLENT COMPONENTS FOR A REAL QUALITY

Inside the polycarbonate cover there's a very accurate assembly of high quality components, all individually repairable. **ASTRA VORTEX**, fully made in Italy, is the latest creation by **IDROMATIC srl**.

THE VORTEX SYSTEM

It is the revolutionary application designed by Idromatic to wash by steam and vacuum the dust. Able to clean deeply with minimum water and power consumption. Addition of chemicals is unnecessary, electric power can be applied by a small battery or a generator of less than 1KW.

The new **VORTEX** system is based on the Venturi effect, the principle formulated by the Italian physicist Giovanni Battista Venturi who discovered the suction power of the fluids on a restricted tube.

The principle by Venturi has been applied to the steam generator using the centrifugal speed of the steam inside a tunnel.

The result is the **ASTRA VORTEX**, the only machine that provides a vacuum system created by steam flow effect instead of electricity. All the condensed dust is separated from steam by gravity in the recovery tank. The innovation has been patented by **IDROMATIC srl**.



 **idromatic**[®]
professional cleaning equipment

Idromatic is successful in the professional cleaning market for the durability and reliability of its products. Since 1975 we have been designing tools to use every day in every conditions and easily repairable.

Our goal is to give solutions to the customers and make the cleaning an efficient and profitable activity.

ASTRA VORTEX is the result of our long term experience and it is the answer to multiple demands in waterless cleaning.

IDROMATIC S.R.L.

via Petrarca Borgoforte, 127
46030 Borgo Virgilio (MN) ITALIA

Email info@idromatic.it
Web www.idromatic.it