

Product Range of Materials Handling and Cleaning Systems

MKH Business Limited are proud to offer the Jet-Vac® Product Range of materials handling and cleaning systems.



These high quality industrial compressed air powered wet/dry materials handling and cleaning systems are manufactured by a BS EN ISO 9001 Company, in England, and they are ATEX approved. They can be finished in your own Corporate Livery, complete with Company Logo's if required.

The Jet-Vac® Product Range operate on the Venturi principle creating a vacuum inside a container by means of compressed air

Features and Benefits of this Product Range include:-

- They are SAFE and can be used static and hazardous areas.
- No fire risks. No moving parts
No electrical problems
- Powerful suction exceptional performance
- Wet & Dry collection
- Portable or Static
- Custom Build Models also available, on request.
- Manufactured in mild steel, aluminium or stainless steel
- Variety of Sizes - Receptacles available from - 10 litre drum / 200 litre drum/hoppers & bowsers
- Suction & discharge systems specifically designed for the oil & gas industries, and utilised in many other demanding industries, including Aerospace, for Maintenance and cleaning applications, Material handling applications and Hazardous applications
- Enable reclamation of expensive recyclable media
- Being Portable it may be transported to any part of the Company
- Capable of 100' & over vertical/horizontal pick-up.
- SILENCING - A reduction in noise level has been obtained by silencing the standard unit as follows: Un-silenced at 80 psi. at a distance of 1 metre 101 dcb.; Silenced at 80 psi. at a distance of 1 metre 80 dcb. This is well below the action level limit as outlined by European Community directives.
- Simple to Operate

Take a look at the details in Technical Information and Model Summaries, below.

Applications for these Products include (but are not limited to):-

Maintenance and cleaning applications

- Tank Cleaning, Degreasers,
- Grinders, Machine Sumps etc. Removing Oil, Water, Turnings, even Nuts and Bolts from Sumps and Workshop Floors.
- Recovering molten Steel and Glass in Foundry Heat Treatment Plants. Solder or Lead pick-up through 100 ft. of hose.
- Removal of oil and waste from ship bilges, beaches and sea.
- Wet and dry Dye Powder spillage recovery.

Material handling applications

- Reclaiming Welding Flux Sand Blast and Shot recovery.
- Collecting cracked Catalyst and Fines.
- Chemicals, acids and dye powder collection and transfer.
- Wet and dry hopper feeding.
- Hi-suction hopper feeder (all fluids).
- Granulated sugar.
- Chocolate powder.
- Frozen peas.
- Automatic hopper loaders.
- Complete removal of water after wet cleaning of floors, pits, walls, etc.
- Water wash spray booth pits, sludge removed in minutes.
- Removes soot and ashes from Boilers and flues.
- Cotton and wool fly collection. Leather/tannery cleaning.

Hazardous Applications

- Nuclear Waste Collection
- Submerged Pick-up (Magnesium Nitrocellulose, etc.).
- Cleaning Gas Mains, bottles.
- All explosive wet or dry materials.
- Fuel Tank purging.
- Hazardous Plastic pick-up.
- Petrol and Paraffin transfer.
- Cordite and Aluminium Dust Recovery and Transfer.

SILENCING

A reduction in noise level has been obtained by silencing the standard unit as follows:

Unsilenced at 80 psi. at a distance of 1 metre 101 dcb.

Silenced at 80 psi. at a distance of 1 metre 80 dcb.

The manufacturers advice that this is well below the action level limit as outlined by European Community directives.


Jet-Vac® Product Range - Technical Information

Air feed hoses.	Air feed hoses in standard ranges of ½ in., ¾ in., 1 in., 1¼ in., 1 ½ in. in twin braid rubber ranging up to 500 ft. lengths
Hose couplings	Hose Couplings can be supplied in 1½ in., 2 in., 3 in. and 4 in. in brass, aluminium or hard nylon. By the use of these hose connections any length of hose can be connected to meet your requirements.
Tools	A full range of cleaning tools in 1¼ / 1 ½ in. and 2 in. sizes are carried in stock. Special tools can be manufactured to your design or requirements for all types of cleaning or material handling applications. Tools can also be plastic coated on request.
Hoppers, Silos, etc	These can be manufactured in all shapes and sizes from specified materials to your requirements.
Valves	Disc Valves can be supplied to meet your demands from 3 in. to 10 in. either hand operated; lever operated, pneumatically operated, or flap valves up to 24 in. diameter.
Suction hoses	1½ in., 2 in., 3 in. and 4 in. I.D. lightweight rubber, smooth bore wire reinforced suction hoses can be obtained in lengths of up to 60 ft. The same bores are supplied in P.V.C. Nylon reinforced in lengths of up to 300 ft. Anti-Static, abrasive resistant, oil resistant and food quality hoses are also available.
Materials	All standard models are in Mild Steel and Aluminium. Prices can be given upon application for Stainless Steel, Brass, Copper, Aluminium, etc., either wholly or contact parts in these materials and may be plastic coated if required.

Weights do not include hoppers	Models	Mini Vac	Med V1	Med V2	JV1A/JV1A	JV2	JV3	JV4	JV6	JV9
	Weights	22lbs	29 lbs	39 lbs	49/57lbs	58 lbs	70 lbs	82 lbs	128lbs	180 lbs
		JVA	Mini JV1	Med JV1	JV1	JV2	JV3	JV4	JV6	JV9
Vacuum in inches Mercury at 80 psi		17ins	17ins	17ins	17ins	17ins	17ins	17ins	17ins	17ins
Minimum Air Pressure required		30 psi	30 psi	30 psi	30 psi	30 psi	30 psi	30 psi	30 psi	30 psi
Air Consumption at 40 psi		49 cfm	49 cfm	49 cfm	49 cfm	98cfm	147cfm	196 cfm	294cfm	441 cfm
Air Consumption at 80 psi		85 cfm	85 cfm	85 cfm	85 cfm	170cfm	255 cfm	340 cfm	510 cfm	765 cfm

Model Summaries - Features and Benefits

Jet-Vac Junior

	<ul style="list-style-type: none"> • Offers High Power Suction • A new outlook on cleaning. • Powerful, light-weight, compact and versatile. • The Junior can perform a multitude of plant cleaning jobs faster than conventional vacuum cleaners without the breakdown problems and high repair costs of conventional electrical cleaners.
Technical Information	
Vacuum at 80 psi	17" Mercury
Minimum Air Pressure Required	30 PSI
Suction Hose Bore Size	1 ¼", 1 ½", 2"
Air Hose	¼" Minimum Bore
Weight	22 lbs
Air Consumption	
At 30 PSI	10 CFM
At 50 PSI	15CFM
At 80 PSI	22°50 CFM

It is hard to believe that a cleaner so small could accomplish such a big job. J.V. Junior could save you a lot of money not only on labour, but on repairs to the electric units you may be using at present.

- **Safe** - Can be used in non-static and hazardous areas.
- **Efficient Filter System** - To combat fine media and powder blowback.
- **Reliable** - Will keep working at full efficiency as opposed to electric vacuum, which gradually depreciates.
- **Compact** - Small and compact. Can be operated in areas which would normally be inaccessible.
- **Specials** - Full range of cleaning tools. Specials can be designed and manufactured to suit your application.

Mini-Vac J.V.1 and J.V.2, Model J.V. 1 & J.V.2



Mini-Vac J.V.1 and J.V.2

12" Outside dia..x 11½" deep.

The Mini-Vac has a single or double venturi system and is **for use where a very small unit is required**. Suction inlet 1 1/2" or 2" diameter and a 1/2" compressed air connection. Both units have the same suction power as the standard counterparts. JV Junior - Mini v1 - Mini v2 can be fitted to an adaptor plate to accommodate housing on a 40 gallon drum

Model J.V.1

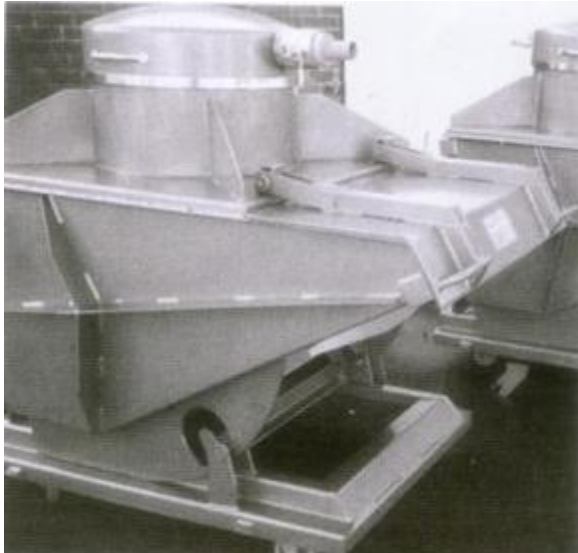
24" Outside dia. x 17 ½" deep

This model has a 2 in. suction inlet and a ½ in. compressed air connection and **fits a standard 40 gallon or 55 gallon drum**. It can be converted to suit large tanks or hoppers. The unit is placed on top of the drum and when the compressed air is fed into the Unit it creates a vacuum in the drum, thereby clamping itself down. Due to the air displacement, a suction is created and materials which will pass through a 2 in. suction hose are passed directly into the container. The vacuum is immediately shut off the moment the drum is full, thus releasing the Jet-Vac from the drum. This can then be easily removed by one man. The Jet-Vac is not fastened or fixed to the container in any way. Suction alone holds it in position.

Model J.V.2

24" Outside dia. x 17½" deep

The Jet-Vac V.2 Unit operates in the same way as the V.1 Unit but is twice as powerful. It can be fitted with a 3 in. suction inlet for bulky materials but it is usually fitted with a 2 in. suction inlet thereby attaining a greater air velocity for the heavier material applications. The V.2 Unit has a ¾ in. compressed air connection.



This Image shows a J .V.2 lid assembly unit seated on an Optional mobile 1 Cu. yd self-tipping skip

Models J.V.3 & 4

These units are extremely powerful and are used where a very quick transfer of materials is required. They are extremely versatile and Specials can be manufactured.

They can be fitted with a 2" or 3" suction inlet.

J.V.3 and J.V.4 are 24" Outside dia. x 11 1/2" deep. JV.6 is 30" Outside dia. x 17 1/4" deep

The J.V.3 and J.V.4 have a 1' air connection. J.V 6 has a 1 1/4" connection.



The image above shows a JV.3 Lid assembly unit seated on a 5000 Litre Bowser. It is complete with an optional hydraulically lifted turn-table trailer. Used for the collection of low level radioactive waste by nuclear authorities.



This Image to the left shows a J.V.4 Lid assembly unit seated on a hopper with optional collapsible legs.



J.V.6 Lid Assembly unit with hopper & a clapper valve seated over a 2 cu. yd. skip with extension legs. Brackets can be manufactured to fit over any skip arrangement.

Model J.V.9

36" Outside dia. x 22" deep.



This model is an exceptionally powerful unit, used mainly for very heavy material collection or transfer i.e. High Viscous fluids, shot blast media and large particle sized solids.

The J.V.9 has proved **highly successful in the removal of crude oil from the sea, beaches and inaccessible places on production platforms and ship bilges.**

Refineries and Chemical plants use the J.V. series for the removal and transfer of catalyst, fines, chemicals, acids, dry powders, also submerged pick-up of all hazardous waste.

The V9 can be supplied mounted on a hopper with a clapper valve & fitted with collapsible legs.

Continuous Pumping System (CPS)

The Jet-Vac® Product Range can also be designed and manufactured into a Continuous Pumping System (C.P.S.), unit. Uses for CPS Units include removal of all types of chemical liquid waste - contaminated & corrosive liquids, etc., Oil, Water Petrol: Paraffin—from Bilges: Tanks Pits.

Chemical liquid waste can be removed from tanks, bilges, pits, etc., at the rate of 35 gallons per minute over distances of 200ft. This is achieved by using a standard 18" diameter Jet-Vac Lid Assembly Unit and a 'Snorkle Tube' as an ancillary extra which allows the liquid to be broken down into globular form thereby enabling materials to be conveyed over long distances into the receiving tanks. The liquid is discharged from the pumping system via a pump at the rate of 120 gallons per minute over distances of 100 metres to 2,800 metres depending on the size of the pump. Units can be mobile or fixed according to requirements.

Further technical information is available on request.

THE JET-VAC®ECON RECOVERY UNIT



This Jet-Vac® has been designed for users who have a limited compressed air supply, often where portability is an issue e.g. For beach cleaning, where a small compact compressor (Diesel) with electric start can be easily handled.

This unit is ideal for the Anti Oil Pollution Industry/Spill Clean-up activity. It is capable of 21" of mercury vacuum with only a small 17.5 CFM from a 4.5 HP motor compressor and an air supply source of 60 PSI. The Jet-Vac Econ is at its best operating on sludge and semi-solubles.

However it can also handle water at 1 gallon per second in addition to moving powders and solids in excess of 1 Ton per hour if required. Most dense and high viscosity materials can be conveyed 20'—30' with no problems.

The Jet-Vac Econ suction head can be situated on a standard 40 gallon drum or hopper capable of discharge into any type of receptacle.

Please Contact us to discuss your Specific Requirements and to obtain current Availability, Price and Delivery information for these Products.

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