

PLYMOVENT[®] **TOPGRADE™ COLLECTION**

The PlymoVent range of products specially designed to meet the demanding requirements of the pharmaceutical, chemical and food processing industries



PlymoVent is supplying a world of solutions for source capture air extraction and filtration. The TopGrade™ Collection represents the product line specially designed for applications where durability, cleanability, precautionary hygiene and safety regulations call for top performance. Many years of experience from PlymoVent TopGrade™ Collection installations all over the world have proven a quality that is multidimensional meeting the requirements for demanding applications and a safer working environment.

PLYMOVENT[®]

We give you Clean Fresh Air

www.plymovent.com

All PlymoVent-products are manufactured to exacting CE standards, under the auspices of ISO 9001.

Setting standards for

For over 25 years PlymoVent brings a wealth of proven experience to the design and manufacture of source capture extraction and filtration products. Being noted as first in innovation and development PlymoVent offers a unique line of products designed for top performance, reliability and return on investment.

As a leading manufacturer with representation virtually all over the world we provide premier service from start to finish identifying applications, providing project support and installing the solution. Once the equipment is installed we offer planned maintenance and testing to ensure a safe work place throughout the years.



TopGrade™ Collection for Top Standards

The TopGrade™ Collection consists of a dedicated type of extraction arm and filtration system for different needs in critical manufacturing processes such as; material weighing, product transferring, mixing, scooping, bag dumping and reactor charging. Our TopGrade™ Collection offers flexible extraction right at the source for small detailed laboratory work, as well as, high capacity long reach arms in stainless steel for production areas.

Extension brackets provide versatility for ceiling, wall or bench mounting. We offer a range of stainless steel fans from 1 400 m³h to 6 000 m³h airflow featuring a unique design for efficiency and economy of operation. Our modular stainless steel cartridge filter system provides for any size of air cleaning solution and versatile mobile unit filters air wherever needed.

To match demanding conditions all of our stainless products are made from 316 Grade SS (DIN 1.4436, SIS 2343) with all flexible hose connections meeting FDA requirements.

All PlymoVent products are manufactured to exacting CE standards, under the auspices of ISO 9001. Quality is not just measured by our finished product but also by our service and attitude towards our customers.

PLYMOVENT



TopGrade™ Performance

An integrated spectrum of products and services

The knowledge of how to install equipment properly is as important as the quality of the equipment itself. Years and years of experience from installations around the world constitute a very important reason for choosing PlymoVent as a partner for Clean Fresh Air. Leading PlymoVent technology together with long experience serves as a comfort to our customers, a guarantee of professionalism and a basis for good relations.



PlymoVent offers various lines of products

The TopGrade™ Collection represents one of several PlymoVent product lines. Being suppliers to all types of industry PlymoVent manufactures a comprehensive range of self cleaning cartridge filters, mechanical and electrostatic filters, both fixed and portable. We provide extraction arms for many applications, energy saving control systems and fans that makes the industrial line complete. PlymoVent is also leading in vehicle exhaust extraction with special product lines for fire- and rescue stations, automotive manufacturing and service stations.



Some of our references

England

Alcan Laboratories, Agrevo (UK), Akzo Nobel Coatings, Associated Octel Company, Avalon International, Boots PLC, BP, BP Exploration, BPL, British Polymer Training Association, Castrol Ltd, Conoco (UK) Ltd, Coty Rimmell, Cynamid, DRA, Eastman Chemicals, Eli Lilly, Enichem, ESSO Petroleum, Glaxo, Harcross Chemicals, ICI, Johnson & Johnson, Rhone Poulenc, Raychem, R A Smith, Phoenix Chemicals, Mitchell Cotts Chemicals, Merck Sharpe & Dohme, Kodak, Lever Brothers, Shell Research, Varichem

USA

Hoffmann-La Roche, Bristol Myers Squibb, Merck & Co., Ciba Pharmaceuticals, Abbott Labs, Ely Lilly Co., American Cyanimid, Lederle Labs, Sidmak Labs, Walter Reade Army Institute of Research, Glaxo Wellcome, Pfizer, Inc., Warner Lambert, Best Foods, Hershey Foods, Heinz Bakery, Sandoz, Cosmair, Basf Chemicals, Dow Chemicals, Dupont, Campbell Soup, Menu Foods

Canada

3 M Canada, Bayer Inc., Cadbury Beverages, Campbell Soup, Canada Square Resins, Ciba Specialty Chemicals, Dow Chemical, Dupont Canada, Good Humor, Guelph Product, Hoffman Larorche Ltd., Humpty Dumpty, JM Schnieder Inc., Kodak Canada Inc., Menu Foods, Mobil Oil, Nestlé Canada, Novopharm Ltd., Pfizer Canada, Proctor & Gamble, Rhone Poulenc Canada, T J Lipton, Torcan Chemical

Germany

BASF Ludwigshafen, Boehringer Ingelheim, Clouth Gummiwerk AG, Degussa Hüls AG, Hoechst AG, Langnese Iglo GmbH, L'Oreal Karlsruhe, Merz & Co Reinheim, Mitex Gummifabrik, Nestlé Deutschland AG, Schott Mainz

Sweden

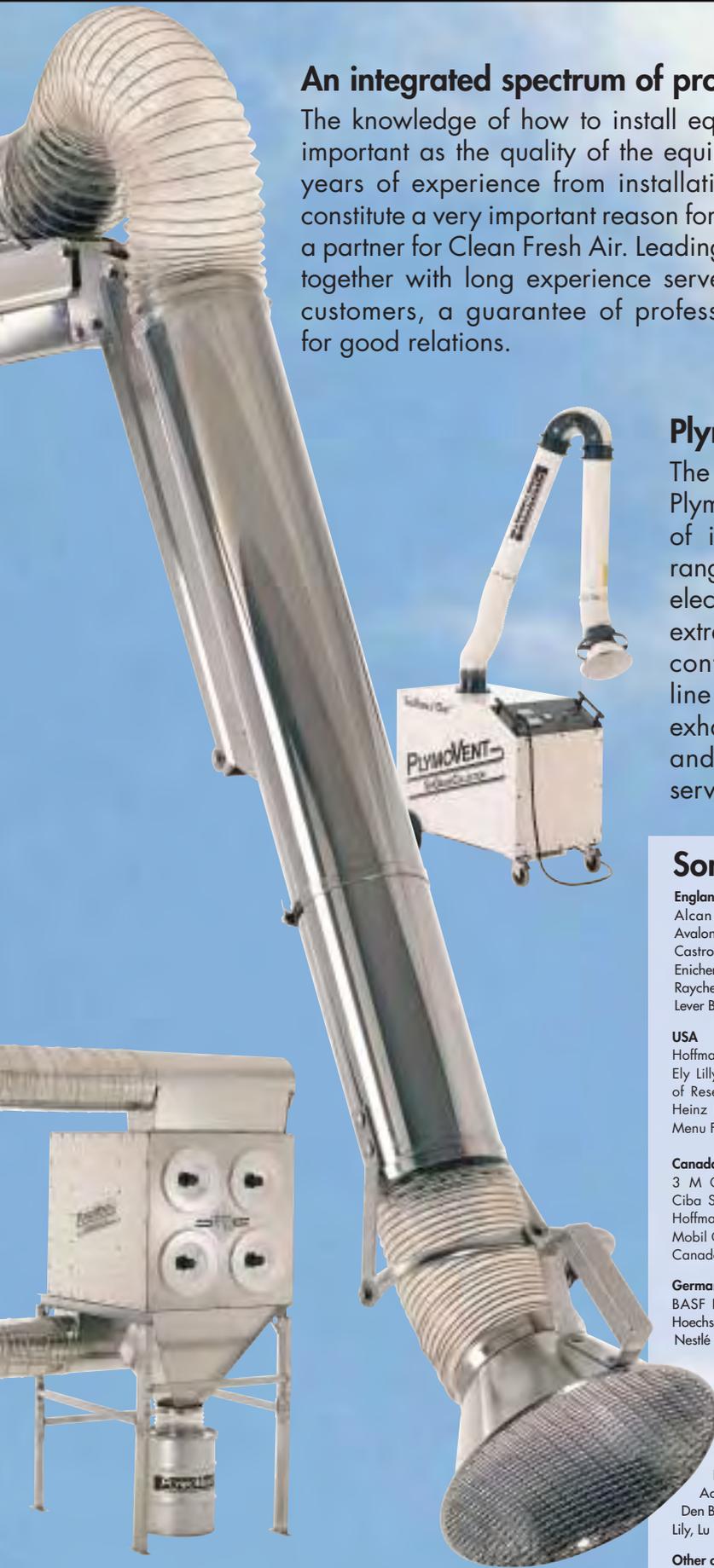
Agri Hydro AB, Akzo Nobel AB, Arla, Astra Zeneca AB, Casco Nobel AB, Danisco Sugar AB, Ferring AB, Frädinge Mejeri AB, Gambro AB, Lockarps Bageri AB, Lyckeby Stärkelseförädling AB, Pharmacia Upjohn AB, Pripps, Semper AB, Spendrups Bryggeri AB

France

Acheson, B.B.T, Biscuits BN, Calcia, Ceng, Ciments Lafarge, Clarians Sandoz, Colin Palc, Den Braven Sulzer, Hepatoum, Hutchinson, I.U.T, Kronenbourg, Laboratoire Roche, Labo UP John, Lily, Lu Belin, Phytomère, Rahm and Haas, Sico, Sucrerie d'Eratein,

Other countries

L'Oreal Spanien, Sandoz Schweiz, Schering-Plough Singapore, Alcan Laboratories



Features that make

The Multi smart[®] arm with clear thru design

No other arm can offer the clear-thru feature providing unsurpassed airflow without turbulence, minimum build-up of particulate and easy wash down. The fully stainless steel arm with safety encased external parallelogram construction is ideal to clean and the food grade wash down hose is provided with a smoother interior to stop build up of unwanted contaminates.

The MultiSmart[®] Arm design with its confident, smooth and gentle movements and unique setting precision creates a completely new standard for extraction arms.



The mounting bracket provided with every arm includes sealed ball bearings and axle technology which allow smooth, drag free movement.



The MultiSmart[®] Arm is delivered fully assembled with joints and balance preadjusted to perfection. A balance friction control works in harmony with the operator allowing adjustment of the arm to the desired settings of movement. Special gas springs gives unique One Touch position exactness.

TECHNICAL DATA

PlymoVent MultiSmart[®] Arm

Two lengths, two diameters

Product	MSA-125-3-TG	MSA-125-4-TG	MSA-160-3-TG	MSA-160-4-TG
Working radius	3 m	4 m	3 m	4 m
Weight kg	23	28	24	29,3
Tube/hose Ø	125 mm	125 mm	160 mm	160 mm
Max air volume	800 m ³ /h	800 m ³ /h	1500 m ³ /h	1500 m ³ /h
Rec. air volume	400 - 700 m ³ /h	400 - 700 m ³ /h	800 - 1400 m ³ /h	800 - 1400 m ³ /h

a world of difference

The pro en, easy going U

The KUA design makes it extremely flexible with reach above its own mounting height and smooth 360 degree rotation. Likewise the hood can easily be angled 110 degrees in any direction, which makes anything possible. The fully stainless steel KUA features a self supporting tube structure with external mounted middle joint to improve airflow and reduce noise level. The easy-to-adjust external joint together with the spring-assisted joint supported in double ball bearings, make manoeuvring of the arm smooth and simple.



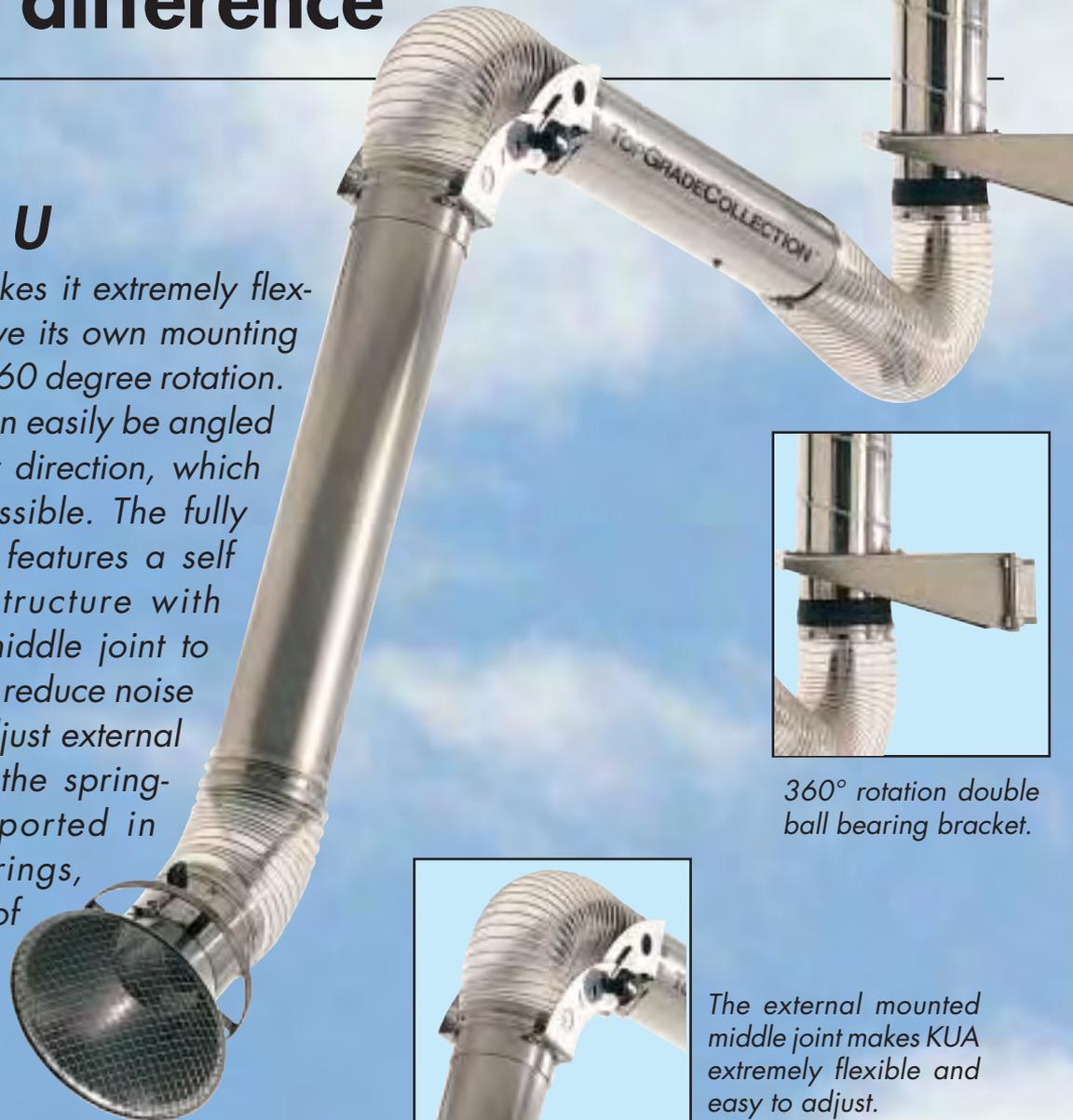
With the large ring handle the hood can be angled 110° in any direction. Safety mesh is standard.



The external mounted middle joint makes KUA extremely flexible and easy to adjust.



360° rotation double ball bearing bracket.



The KUA arms come complete with wall mounting bracket and flange for connection to central ducting. The PlymoVent FUA fans mount directly on the wall bracket.

Hanging or standing, wall- ceiling- or stanchion mounted, thousands of KUA installations have proven a superior versatility and pay-off.

TECHNICAL DATA

PlymoVent KUA

Product	KUA-2-TG	KUA-3-TG
Working radius	2 m	13 m
Weight kg	20,6	24,2
Tube/hose Ø	160 mm	160 mm
Max air volume	1300 m ³ /h	1300 m ³ /h
Rec. air volume	800 - 1200 m ³ /h	800 - 1200 m ³ /h

From local extraction all the

Miniman for small but demanding extraction

PlymoVent Miniman is the super extractor for localised applications, available in stainless steel or in white powder coated aluminium. The 360° rotation at mount point, 110° rotation at wrist point and the choice of two lengths for both standing or hanging applications makes Miniman truly unbeatable in versatility. The arm comes with a universal mounting bracket for table, wall or ceiling- mounting. Miniman has the benefit to fit everywhere.



MMH-75-15-W (white model)



See-through hood facilitates the detailed work (accessory).



White hood as alternative to standard white back-cut round nozzle (accessory).

Unequaled stainless steel fans

The TopGrade PlymoVent fans are designed and built with latest airflow technology, meeting demanding industrial standards. The stainless steel fans feature refined impeller and fan housing design for minimum air resistance and even airflow. This means savings in power consumption and the lowest noise level on the market. Six models are available for direct mounting on extraction arms or for central connection to several extractors. PlymoVent certifies that the fan series is licensed to bear the AMCA Seal.



The fans come with a universal mounting stand in stainless steel for floor or wall mounting. Air inlets and outlets have protective debris screens as standard and the aluminium impellers are spark resistant.



Fan capacity range goes from 1400 m³/h to 6000 m³/h. Impellers with unique design produce high pressure at very low power consumption.

way to high volume filtering



MultiDust® Bank. The modular high performance filtering system

The MultiDust® Bank sets new standards in handling industrial pollution. The benefits are not only the numerous technical features but also the economy this frontline technology gives in daily operation and for years to come. The modular design provides for any capacity application and the impressive performance of each module allows for a very compact solution.



The Ram-Air™ cleaning system means less compressed air used, longer cartridge life and low running costs.



The latest pleat stabilising filter technology allows more filter area in each filter, excellent cleaning ability and low cartridge replacement rate. The efficiency of each filter means that a relatively low number of MultiDust® Bank modules have a performance which equals the capacity of a larger conventional filter system.



Unlimited mobility – Mobile“One”

The Mobile“One” allows for dust and smoke capturing and filtering wherever needed. Thus, The Mobile “One” increases the ability to reach locations where no source capture ventilation is available. The most modern filter design gives an exceptional degree of filtration provided by one extended surface filter cartridge with up to 99,9% efficiency.

The proven KUA arm with 360° rotation gives the choice of 2 - 4 m reach in each direction.



By just a push of a button, the pneumatic Ram-Air™ system, suitable for restricted areas, effectively cleans the cartridge.



The Ram-Air™ High Energy Cleaning System designed by PlymoVent reduces compressed air consumption by 50% and minimizes replacement filter costs.

PlymoVent efficient and profitable solutions!



A case for hundreds of Miniman Arms at the Walter Reed Army Institute for Research

Background

Walter Reed Army Institute for Research located in Washington DC is a new state of the art facility just completed in June of 1999. The project was designed by the Premier laboratory architectural firm of Haines, Lundberg and Waehler. The facility has over 200 labs for the use of scientists, students of medicine and various other research oriented professionals.

Demands

The needs and applications for this project were set forth as follows: To provide a flexible fume extraction arm for a laboratory environment. The arms shall be mounted from overhead as a ceiling mount and all of the duct work shall be hidden above the drop ceiling. The arms shall be able to cover a 1,5 m working radius to capture the fumes that are being generated at the source from table top lab experiments such as mixing and weighing chemical compounds and thereby protecting the workers breathing zone.

Solution

Installation of 228 Miniman arms hanging with ceiling mounting brackets within 114 of the labs. In each lab Plymovent installed two Miniman arms with extension brackets. The Miniman arms are manufactured in a white powder coated finish and the flexible hose is also white meeting the FDA requirements for laboratory environments. The ceiling brackets are of the design that the Miniman arms will mount directly to the bottom of the overhead support columns. The support columns are also of white powder coated finish and is a tube 150 x 150 mm that is mounted above the drop ceiling directly to the ceiling slab. The column has a duct work collar 75 mm in diameter that is connected to the main ducts above the tiled ceiling.



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