

TYPICAL APPLICATIONS FOR VACUUM PUMPS

The following are just some examples of vacuum pump applications and their functions. For more detailed information on these or applications not on this list, please contact Premier Fluid Systems Inc.

APPLICATION	FUNCTION OF VACUUM PUMP	EXAMPLES OF USE
Casting	Evacuation of moulds, Degasification of molten materials	Rubber, plastics, metals, wood products, veneers
Chucking & Lifting	Vacuum pick-up, handling	Glass, sheet products, small parts, auto windshields, aircraft surfaces, beverage cans, sawmill operations
Cooking	Reduces cooking/boiling temperature through loss of pressure	Jams, candy, chemicals
Cooling & Chilling	Rapid evaporation of moisture content	Fruits and vegetables
Deaeration & Degasification	Removal of gases	Water, rubber products, oils, plastics molten metals, beverages, brick and clay
Dehydration	Removal of condensable vapours	Transformers, refrigeration systems, foods, chemicals, electrical cables and conduits, grain, textiles, ink and dyes, rotary dryers
Deodorization	Removal of offensive gases	Chemicals, food products, effluent processing
Dewatering	Removal of moisture	Mineral processing, paper manufacture
Distillation	Vacuum extraction of fractions	Chemicals, petroleum, petrochemicals, pharmaceuticals, food products
Evacuation	Removal of vapours and gases	Environmental chambers, steam condensers, lasers, leak chambers, reactors, process vessels, central vacuum systems
Evisceration	Removal of viscera	Poultry, fish, shellfish
Filling	Removal of trapped air, increased filling speed	Cooling and hydraulic systems, food and beverage containers, electrical transformers, liquid transfer systems, pharmaceuticals, mineral processing
Freeze Drying	Removal of moisture by sublimation under vacuum	Coffee, fruits and vegetables, pharmaceuticals, food products
Impregnation	Removal of vapours and gases, food flavouring	Cables, metal products, wood products



Premier Fluid Systems
Canadian Home Of Travaini Pumps

4460 Harvester Rd. Burlington, Ont. Canada, L7L 4X2
Tel: 1-800-461-2611 or (905) 637-2611 Fax: (905) 333-4722
Email: info@pfspumps.com Website: www.pfspumps.com

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