WELCH
by Gardner Denver

Scroll Pumps

Oil free high vacuum and high flow Scroll Pumps

> Superior Chemical resistance
> High performance 10^{-2} mbar, 9.5 or 14.5 m^3/h
> Compact vertical design to eliminate condensation build-up around exhaust port

Ideal for freeze driers and drying ovens

Scroll pumps are an excellent oil-free alternative to the rotary vane pumps traditionally used in high vacuum applications without the risk of oil contamination. Achieve vacuum to 0.07 mbar without the mess and maintenance of oil.

Simple robust design for prolonged performance

Vertical design with the omission of an exhaust valve ensures the smooth drainage of any condensate forming inside the pump, thus avoiding damage to the pump. Custom surface coating of the parts in contact with fluids guarantees the pump has chemical resistance to a wide range of commonly used solvents.

In addition, the coating provides the required sliding properties in combination with the sealing strip inserted on the front surface of the spirals. All static seals (e.g. O-rings) are made of either FKM or EPDM

Scroll
Oil free high vacuum pumps

Applications

> Freeze Dryer

> Vacuum ovens

> Glove boxes

> General Clean Pumping applications

Advantages

> Compact vertical design

> Quiet and low-vibration operation

> Continuous operation even with high intake pressures

> Suction and exhaust ports are designed with small flanges

> Important parts are easy to service and replace

Certification CE

THE SCROLL PUMP IS RESISTANT TO THE FOLLOWING CHEMICALS

acetone	isopropanol
acrylic acid	methanol
benzene	toluene
chloroform	methylbenzene
ethanol	trifluoroacetic acid
ethylene	water

TECHNIAL DATA/ORDERING INFORMATION

Model	S 10	S 15
Flow rate in m^3/h	9.5	14.5
Ultimate pressure in mbar	$7x10^{-2}$	
Connection	DN 25 KF	
Dimensions LxWxH in mm	470x320x440	
Weight in kg	45 kg	
Cat. No.	460004	460005

Accessories

In-Line Filter Type OMEH 30/25
Economical solution to protect from fine particulates and aerosols

Cat. No. 700012-01

Condensate Separator Type PT25
Recommended to protect Scroll pumps from condensable vapours

Cat. No. 700145

In-Line Safety valve Type VA 25 ME

The automatic in-line safety valve is connected with the intake of the scroll pump. It closes the intake flange when the pump is voluntarily or accidentally shut down, thus maintaining the vacuum in the connected system. The in-line safety valve is opened electromagnetically.

Cat. No. 700371

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.