Products

Oil-sealed Screw Vacuum Pumps VACUBE VQ 400 i to VQ 1650 iCH



VACUBE is a new generation of intelligent, single-stage, oil-sealed screw vacuum pumps with Variable Speed Drive (VSD) technology.

VACUBE generates vacuum on demand. All pumps are controlled and maintained by an internal controller. The systems offer superior performance for a wide range of rough vacuum applications.

Screw vacuum pump VACUBE VQ 1250 iCH

Models

i - model

Ideal for standard vapor free applications as needed in central vacuum systems for holding, lifting and moving of parts and components.

iH - model

This variant is best suited for applications with high water vapor ingress. The high water vapor tolerance level makes the iH - model best suited for the humid applications.

iC - model

The iC - VACUBE variant is specifically designed to support the special needs in short cycling applications, as for example common in vacuum packaging or assembly lines for electronic equipment.

iCH - model

The combination of "iH" and "iC" offers high water vapor tolerance and the short cycling ability.

Advantage to the User

- Pump efficiency
 - Variable speed drive (VSD)
 - Internal controller

- Power demand

- Sustainable power saving due to on-demand vacuum generation
- Work space environment
 - Ultra-high oil retention system
 - Quiet operation, noise level bench mark
 - Small footprint pallet size dimensions* (*up to 950 m³/h speed)
- "Plug and play" system set up
- Sustainable productivity
 - Programable operation modes
 - Long maintenance intervals

Typical Applications

- Holding, lifting and moving
 - Print & Paper
 - Packaging
 - Electronic manufacturing
- Woodworking
 - Li-lon cell manufacturing
 - Glass manufacturing

- Forming and shaping

- Plastics (e.g. bath tubs, shower trays, white goods internals)
- Packaging materials (e.g. thermoformed parts)
- Glass items such as bottles and windscreens
- Wood lamination

- Preserving

- Meat packaging (skin, modified atmosphere packaging MAP)
- Poultry packaging
- Canning
- Food freeze drying

- Dehumidification

- Vacuum cooling
- Roof tile and brick manufacture
- Pipeline drying

Special demands

- Altitude testing
- Special evacuation duties
- Coating
- Clean environments



Integrated Controller / Monitoring System

The VACUBE controller maintains the pressure within programmable limits by automatically adapting the motor speed. A number of programmable settings, e.g. the setpoint, the minimum stop time and the maximum number of

motor starts and several other parameters are hereby taken into account.

The controller stops the vacuum pump whenever possible to reduce the power consumption and restarts it automatically when the pressure increases.

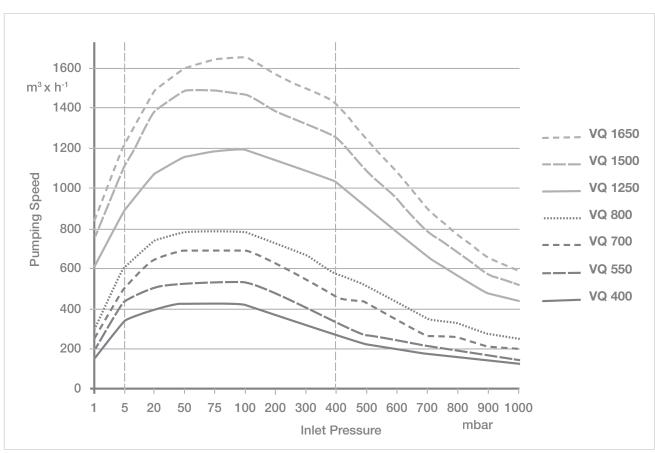
For H version pumps, the pump is equipped with a purge cycle which prevents and removes condensed water in the sealing oil.

The controller can be operated intuitively. A comfortable 3,5" – Color Display is used as graphic user interface to call up menus or to input customized settings easily. LED's inform about maintenance and service demands.

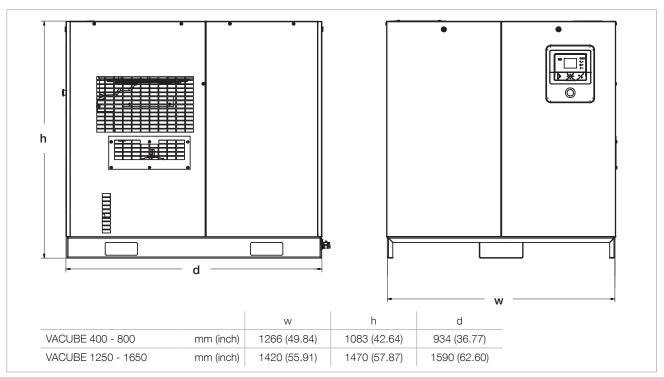
Multiple controllers can be linked with each other.

Further features:

- Set point pressure selection
- Gas ballast on/off
- Displays:
 - Pressures (inlet, discharge)
 - Temperatures
 - Alarms and warnings
 - Counters (e.g. running hours, pump starts, etc.)
- Week timer function
- Language and unit selection



Pumping speed characteristics



Dimensional drawing VACUBE

Technical Data					VACUBE			
		VQ 400	VQ 550	VQ 700	VQ 800	VQ 1250	VQ 1500	VQ 1650
Max. eff. pumping spe	ed							
	m³/h / cfm	420 / 247	530 / 310	700 / 412	790 /465	1250 / 736	1490 / 877	1620 / 955
Ultimate pressure	mbar / Torr	0.35 / 0.26						
Motorshaft power	kW / hp	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	22 / 29	30 / 40	37 / 50
Noise level	dB(A)	51 - 65	51 - 65	51 - 73	51 - 76	65 - 75	65 - 75	65 - 80
Ambient temperature	°C / °F	0 - 46 / 32 - 115						
Weight	kg / lbs	500 / 1102	500 / 1102	510 / 1125	520 / 1147	1058/ 2333	1058/ 2333	1073/ 2366

54 380 - 460V, 3ph, 50/60Hz

Motor protection class

Supply voltages*

ΙP

^{*} other voltages available on request

Ordering Information

VACUBE

	Part No.				
VACUBE VQ 400 i	177040V01				
VACUBE VQ 400 iH	177040V10				
VACUBE VQ 550 i	177055V01				
VACUBE VQ 550 iC	177055V05				
VACUBE VQ 550 iH	177055V10				
VACUBE VQ 550 iCH	177055V15				
VACUBE VQ 700 i	177070V01				
VACUBE VQ 700 iC	177070V05				
VACUBE VQ 700 iH	177070V10				
VACUBE VQ 700 iCH	177070V15				
VACUBE VQ 800 i	177080V01				
VACUBE VQ 800 iC	177080V05				
VACUBE VQ 800 iH	177080V10				
VACUBE VQ 800 iCH	177080V15				
VACUBE VQ 1250 i	177125V01				
VACUBE VQ 1250 iH	177125V10				
VACUBE VQ 1500 i	177150V01				
VACUBE VQ 1500 iC	177150V05				
VACUBE VQ 1500 iH	177150V10				
VACUBE VQ 1500 iCH	177150V15				
VACUBE VQ 1650 i	177165V01				
VACUBE VQ 1650 iC	177165V05				
VACUBE VQ 1650 iH	177165V10				
VACUBE VQ 1650 iCH	177165V15				