



Oil Sealed Vacuum Pumps

VACUBE

Screw Vacuum Pumps

Contents

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Rotary Vane Vacuum Pumps TRIVAC	6
General	
Applications for TRIVAC pumps	6
Accessories for TRIVAC pumps	7
Oil for TRIVAC pumps, for different fields of application	8
Oil for TRIVAC pumps, for different pump types	9
Products	
Small Compact Pump S 1,5	10
TRIVAC E, Two-Stage Rotary Vane Vacuum Pump	12
TRIVAC B, Two-Stage Rotary Vane Vacuum Pumps	16
TRIVAC D 4 B and D 8 B	20
TRIVAC D 16 B and D 25 B	24
TRIVAC D 40 B and D 65 B	28
TRIVAC D 16 B-DOT to D 40 B-DOT	32
TRIVAC D 65 B ³ He	36
TRIVAC D 16 B-Ex (Explosion Protected and Pressure Burst Resistant)	38
TRIVAC BCS, Two-Stage Rotary Vane Vacuum Pumps	40
TRIVAC D 16 BCS to D 65 BCS	42
TRIVAC D 16 BCS-PFPE to D 65 BCS-PFPE	46
Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE	50
Accessories for TRIVAC E, B and BCS	
Global Versions	
Exhaust Filters AF 8 to AF 25	58
Condensate Traps AK 8 to AK 25	58
Exhaust Filters AF 4-8 to AF 40-65	60
Exhaust Filters AF 16-25 DOT and AF 40-65 DOT	60
Exhaust Filters with Lubricant Return	
ARP 4-8 and AR 4-8 to AR 40-65	62
ARS 16-25 and ARS 40-65	63
Exhaust Filter Drain Tap	64
Oil Drain Tap	64
Oil Drain Kit	64
Oil Suction Facility AR-V Controlled by Solenoid Valve	65
Manually Operated Oil Suction Facility AR-M	65
Condensate Separators AK 4-8 to AK 40-65	66
Dust Filters FH/DF, DN 16 KF to DN 40 KF	67
Adsorption Traps FH/RF, DN 16 KF to DN 40 KF	68
Cold Trap TK 4-8	69
Dust Separators AS 8-16 and AS 30-60	70
Molecular Filters MF 8-16 and MF 30-60	70
Mechanical Oil Filters OF 4-25 and OF 40-65	72
Chemical Oil Filters CF 4-25 and CF 40-65	72

Chemical Filters with Safety Isolation Valve CFS 16-25 and CFS 40-65	74
Inert Gas System IGS 16-25 and IGS 40-65	75
Limit Switch System LSS 16-25 and LSS 40-65	76
Roots Pump Adaptor	77
Versions for the North and South American Continents	
SE Smoke Eliminator	78
General Accessories	
Flange Components, Valves	79
Miscellaneous	
Services	80
60 Hz Curves	83
Rotary Vane Vacuum Pumps SOGEVAC	85
General	
Applications for SOGEVAC pumps	85
Oil for SOGEVAC pumps, for different fields of application	86
Oil for SOGEVAC pumps, for different pump types	87
Product Range, Features and Design	88
Products	
SOGEVAC .. B	
SV 10 B / SV 16 B	90
SV 16 D and SV 25 D	92
SV 25 B	96
SV 40 B / SV 65 B	98
SV 100 B	102
SV 120 B	106
SV 200	110
SV 300 B	114
SV 470 B(F) / SV 570 B(F)	118
SV 630 B / SV 630 BF / SV 750 B(F)	122
SV 1200	126
SOGEVAC .. BI	
SV 28 BI	130
SV 40 BI	134
Pumps Prepared with PFPE for Use with Oxygen	136
SOGEVAC .. ATEX	
SV 40 ATEX (Explosion Protected and Pressure Burst Resistant)	138
ATEX Category 2 Pumps	142
ATEX Category 3 Pumps	142

Accessories

Global Versions

Double Inlet Filter and Roots Adapter TwinFilter 500	146
Dust Filters (Suction Side)	150
Dust Filters F (Suction Side) (Version for the North and South American Continents)	152
SL Liquid Traps	154
SEP Separators	156
SEPC Condensers	157
Gas Ballast Valve	158
Thermal Switch	158
Mobile Base Frame	160
Noise Enclosure	162
Mounting Accessories	162
Exhaust Filter Gauge	163
Ball Valves and Valves	164
Bourdon Vacuum Gauges	166
DIAVAC DV 1000	166

Versions for the North and South American Continents

External Carbon Exhaust Filter	167
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Global Versions

Connection Fittings	
for SOGEVAC SV 10 B, SV 16, SV 16 B, SV 16 D, SV 25, SV 25 B, SV 25 D	168
for SOGEVAC SV 40 B, SV 65 B, SV 100 B	170
for SOGEVAC SV 200, SV 300 B	172
for SOGEVAC SV 470 B(F) / SV 570 B(F)	174
for SOGEVAC SV 630 B(F), SV 750 B(F)	176
for SOGEVAC SV 1200	178
60 Hz Curves	180

Special Accessories for Rotary Vane Vacuum Pumps **TRIVAC** and **SOGEVAC**

Versions for the North and South American Continents

Combination Filter, Vacuum Pump Inlet Filter	188
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Screw Vacuum Pumps VACUBE	190
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Products

Oil Sealed Screw Vacuum Pumps	190
VACUBE VQ 400 i to VQ 1650 iCH	190

Products

Oil Sealed Screw Vacuum Pumps VACUBE VQ 400 i to VQ 1650 iCH



Screw vacuum pump VACUBE VQ 1250 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.

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-Ion 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.

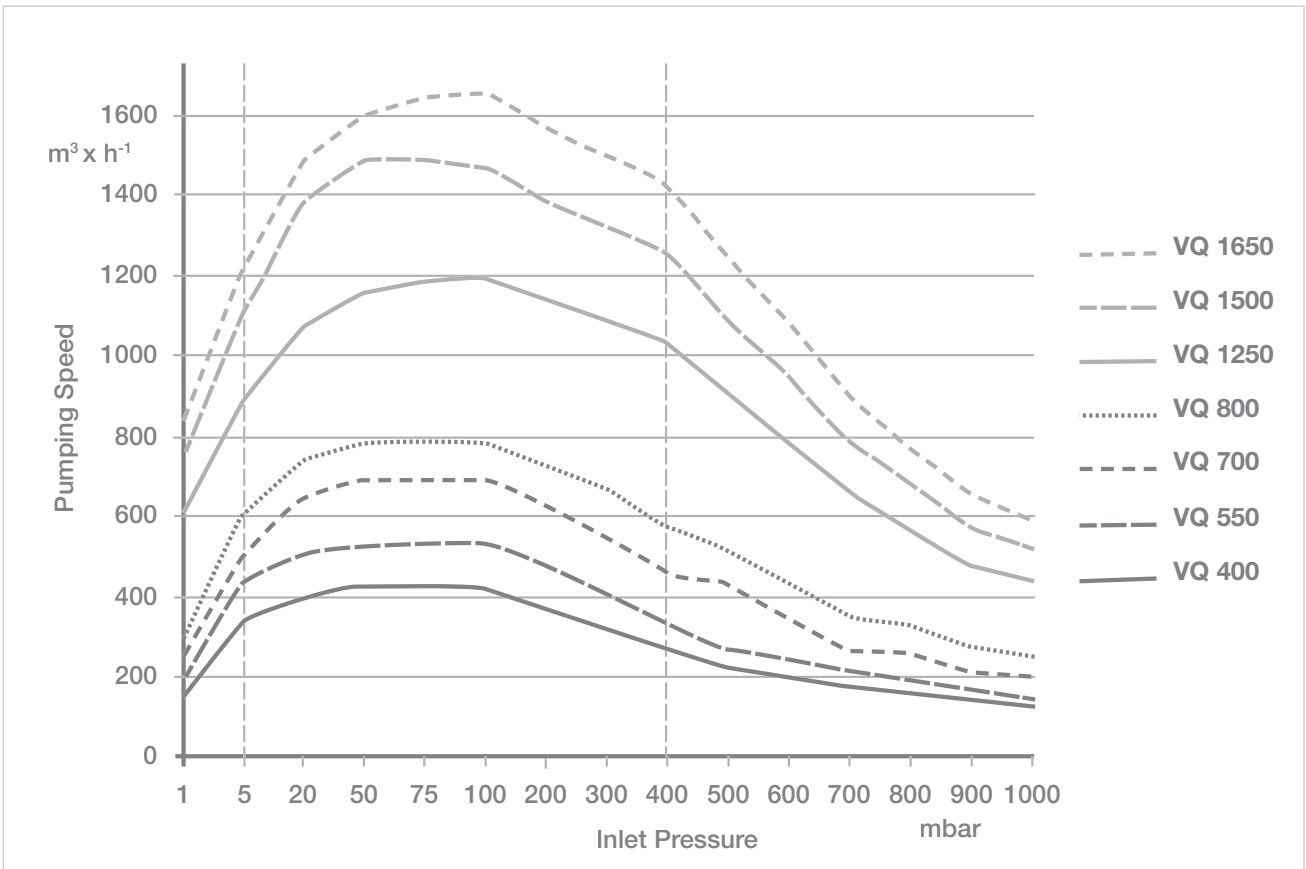
For H version pumps, the pump is equipped with a purge cycle which prevents and removes condensed water in the sealing oil.

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.

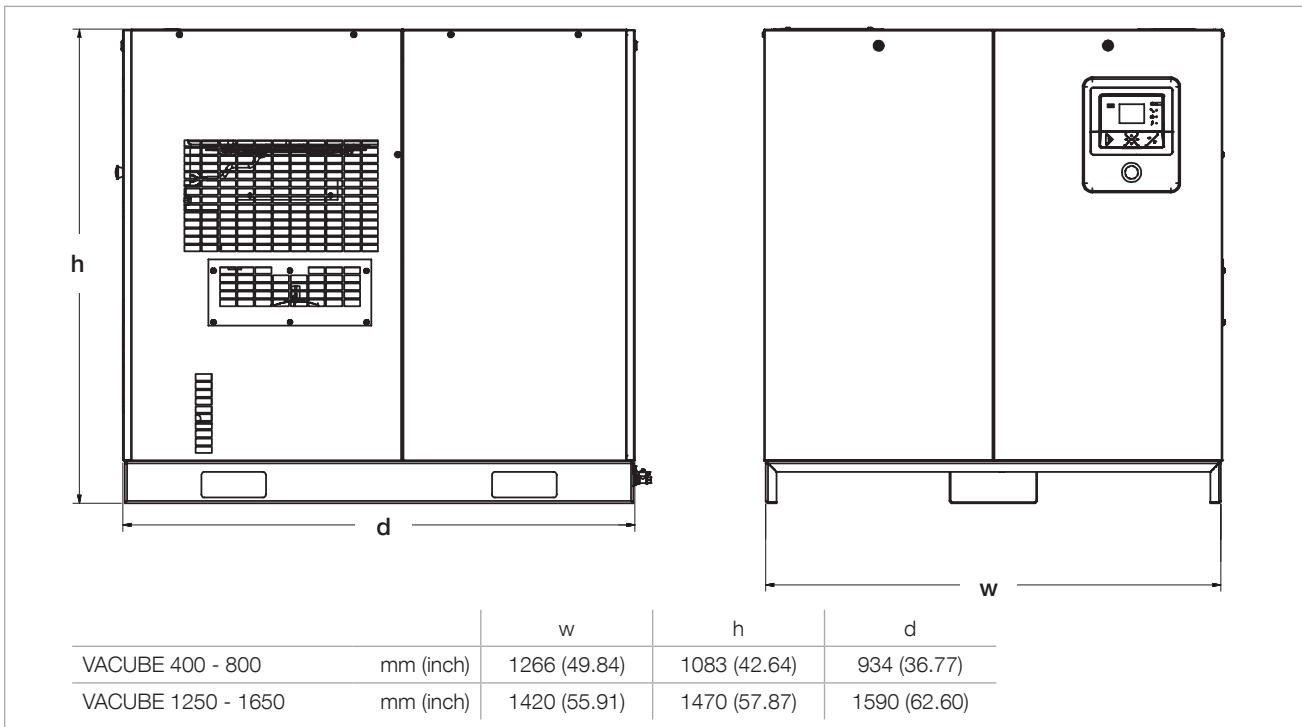
Multiple controllers can be linked with each other.

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 speed	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
Motor protection class	IP	54						
Supply voltages*		380 – 460V, 3ph, 50/60Hz						

* 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