Liquid Ring Vacuum Pumps

VHC series
Two-stage pumps in base plate version

speck

Applications

Food, Beverage and Cosmetics industries

» Filling bottles with beer, mixed beverages, mineral water and similar
» Vacuum cutters
» General processes such as degasification, extraction, suction and vacuum cooking
» Curing systems
» Production of sugar and chocolate
» Production of emulsions and suspensions

Chemical & Pharmaceutical industry

» Distillation and separation of liquids
» Recovery of condensates, e. g. solvents
» Drying of bulk solids, e. g. washing powder, fertiliser, salts, plastic granulates etc.
» Extraction of liquids, e. g. palm oil

Medical engineering

» Sterilisation with laboratory and clinical sterilisers

Plastics production and plastics processing

» Extruder degasification
» Manufacturing of EPS moulded parts
» Drying of plastic granulate
» Decontamination in PET recycling processes

Liquid ring vacuum pumps from Speck

Tailored solutions in modular system

- Two-stage vacuum pumps
- Can be used universally for compressing practically all gases and vapours
- Constant suction performance for different applications
- Mechanical seal, magnetic coupling or packing gland
- Application-specific selection of materials like grey cast iron, stainless steel or special alloys
- ATEX certified

Media	dry and humidified gases
Operating liquid	max. 80 °C
Absorbed gas	dry max. 200 °C saturated max. 100 °C
Minimum inlet pressure	33 mbar abs., 5 mbar abs. with gas ejectors
Flow rate	110 – 1600 m³/h

VHC Series

Two-stage pumps in base plate version

Innovative liquid ring vacuum pumps for universal use

Liquid ring vacuum pumps
are used in many sectors in discontinuous and continuous operation in the three basic processes of extraction, leakage extraction and degasification, for example: extracting dry gases, saturated gases and vapours, extracting contaminated gases

Application-specific benefits
- Delivering liquid shares at a constant vacuum
- Delivering explosive gases, e.g. hydrogenous, inflammable or toxic media
- Oil-free compression, i.e. no oil in the medium nor in the exhaust air
- Use of the condensed process medium as operating liquid

VHC series - benefits at a glance

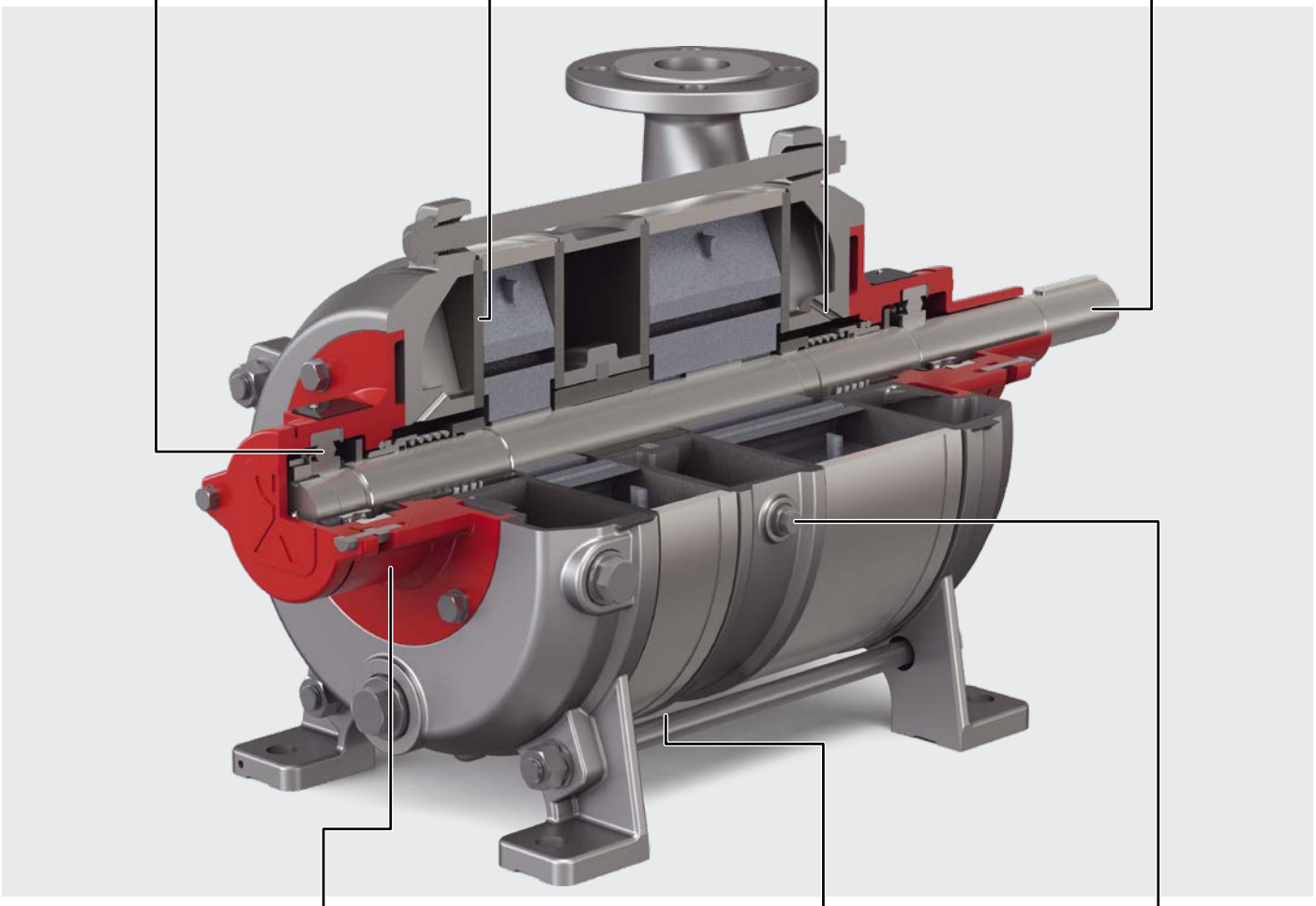
Full interchangeability
The VHC series is replacing the previous VH series. The connecting dimensions of the suction and pressure ports, the operating liquid connections, the pump shaft and the pump feet are identical.

Robust bearings
Small spacing of the bearings, lifetime-lubricated deep groove ball bearings

Inter casings in rust-free material
Made from surface-hardened stainless steel for a longer service life

Optimal flushing of the mechanical seal

Pump shaft in stainless steel
For universal use



Compact and closed bearing bracket
Simple and fault-free disassembly and assembly without special tools, problem-free setting of the impeller sets

Central drainage
Quick and total drainage of the pump

Pre-set cavitation protection
Safe commissioning and cavitation-free operation

Tailored, long-lasting and service-friendly solution

The VHC series from Speck is the natural development of the established VH series. It was designed taking into account the requirements of our customers. The result is a heavily standardised series, that sets new standards in safety, durability and reliability for your system.

Tailored solution

The VHC series consists of a comprehensive modular system. With easily configurable options and individual special solutions, we fulfil the highest customer requirements and guarantee safe operation.

Mechanical seals
At Speck, you receive a wide range of single and double-action mechanical seals from brand manufacturers with slide rings in A carbon, B carbon, SiC, Cr steel, stainless steel and with O-rings in FKM, EPDM, FFKM, NBR etc.

Magnetic couplings
For applications with toxic, corrosive and combustible media, all sizes are also available in hermetically sealed versions with magnetic coupling. Thanks to the magnetic coupling free from eddy current losses used in the VHC, the power consumption is significantly reduced compared with a conventional magnetic coupling.

Packing glands
The low-cost solution for simple applications with uncritical media.

Application-specific material selection
Speck also offers a wide range of medium-specific pump designs suitable for acids, lyes, hydrocarbons, glycol, glycerine, for example. For the stage sealing, we have a selection of flat gaskets made from various materials, cord packing made from Teflon® or different liquid seals from Epple® and Chesterton® at our disposal.

ATEX / TA Luft (Technical Instruction on Air Quality Control)
The VHC series is type-tested for ATEX in accordance with category 1G (+H2).
The version with magnetic coupling fulfils the strictest requirements of TA Luft (Technical Instruction on Air Quality Control).

Reliable and long-lasting

The solid and compact design, combined with reliable components, guarantees high operational reliability and a significantly extended service life.

The robust and life-time lubricated rolling bearings, improved flushing of the mechanical seals and the surface-hardened inter casings made from stainless material also help to prolong the service life.

The cavitation protection installed in the pump intermediate stage by Speck enables easy commissioning and safe operation without readjustment and performance losses.

The new design of the VHC series also guarantees safe external cleaning and central complete drainage on the product side. The bearing brackets come closed, splash-proof and optionally also rust-free.

Service-friendly

In operation
The VHC series is characterised by low maintenance costs and high system availability. Maintenance-free rolling bearings, hardened stainless steel inter casings without valves and the improved flushing of the mechanical seals reduce the maintenance requirements and the operating costs considerably.

During assembly
Assembly is much easier and kept as simple as possible thanks to the significantly reduced number of components. The proven and simple segment design has been perfected and enables simple and fault-free disassembly and assembly in just a short time.

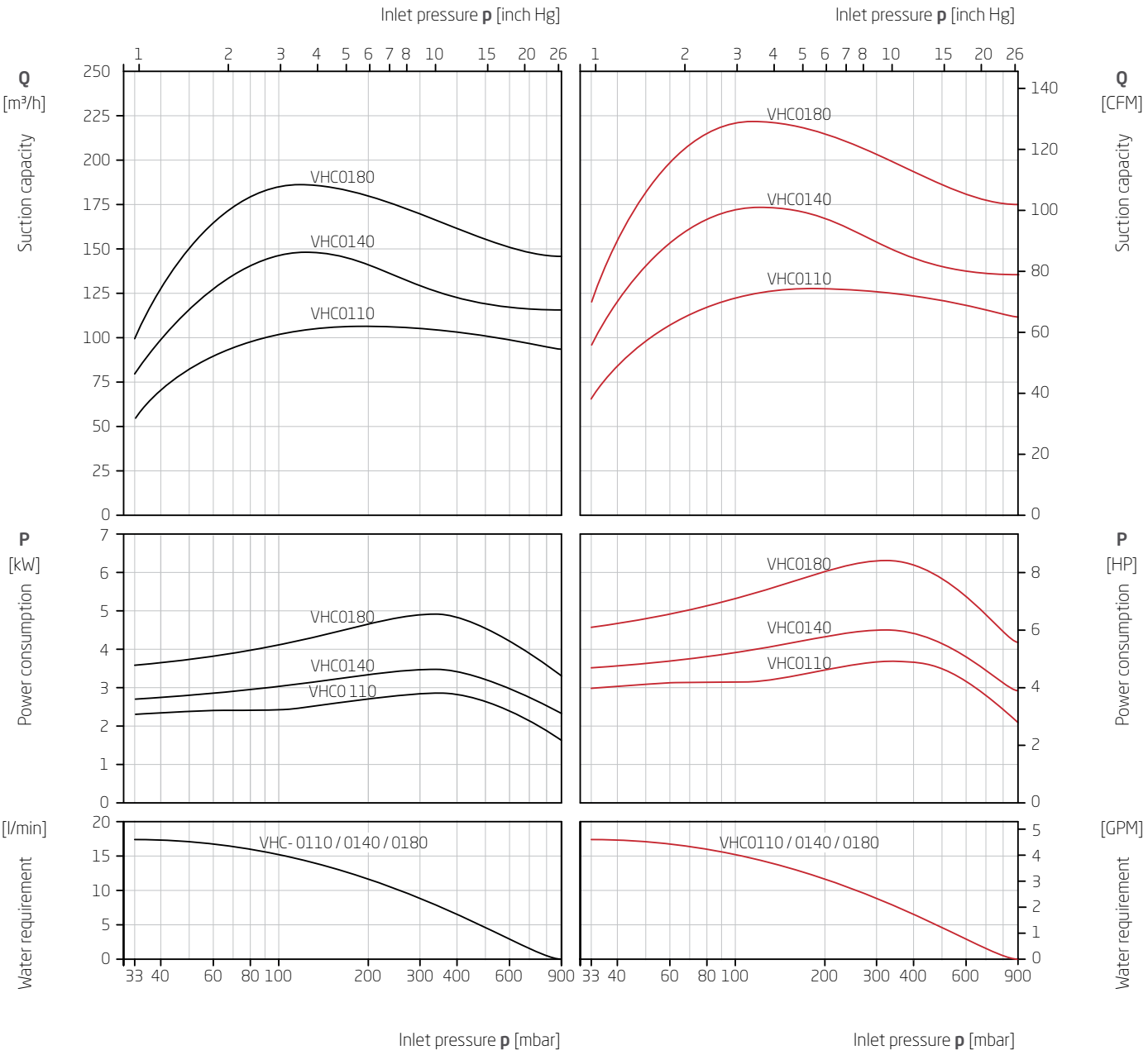
For spare parts storage
In the consistently designed modular system with 11 sizes, many components are completely interchangeable within a size family. Wear parts like mechanical seals and bearings are identical across several sizes and help to reduce the stored quantities.

VHC in TA Luft design → pages 12 and 13

Characteristic curves VHC0110/0140/0180

50 Hz – 1450 min^{-1}

60 Hz – 1750 min^{-1}



Suction capacity and power consumption depending on inlet pressure

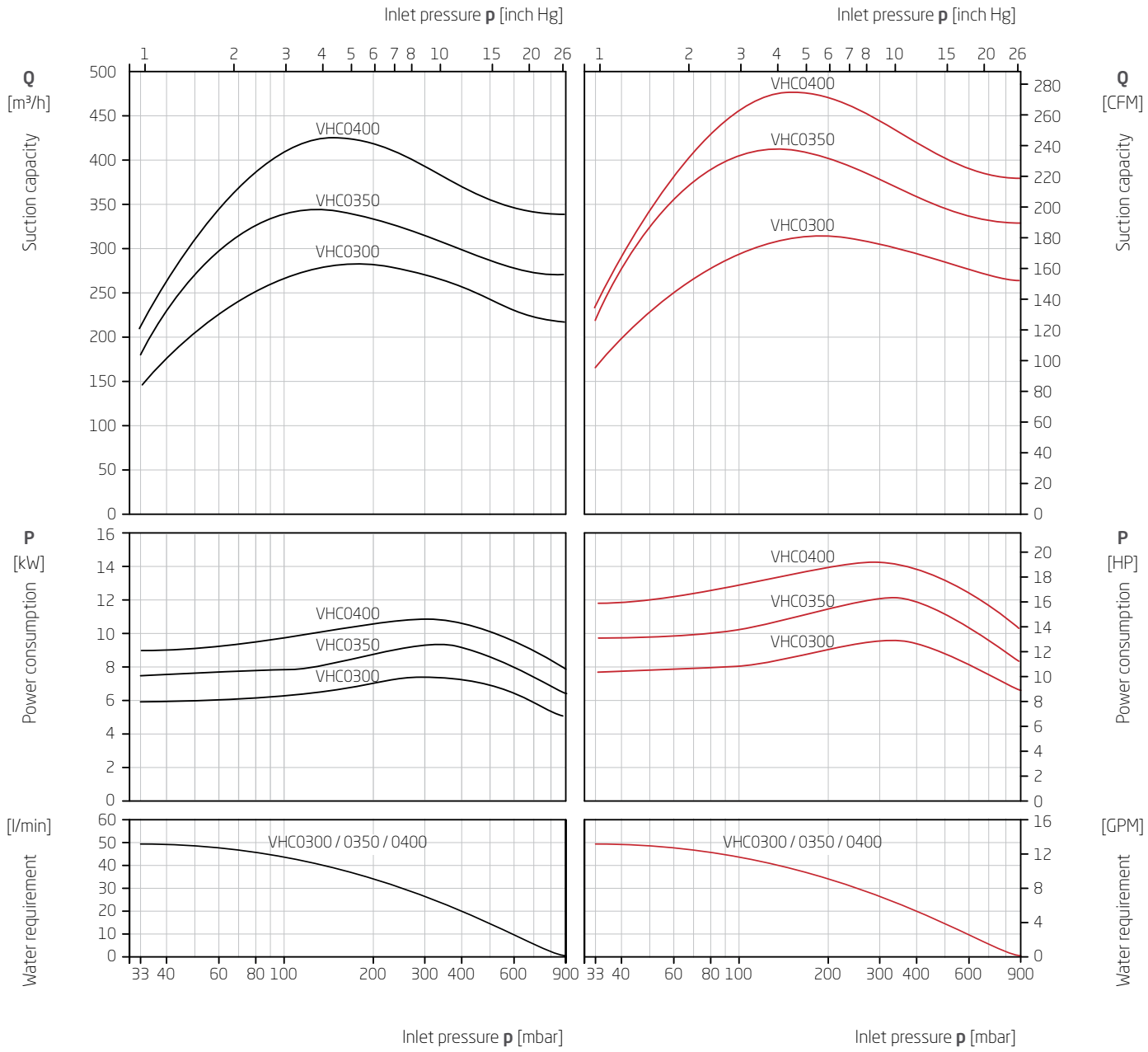
The characteristics are applicable for compression of 20 °C (68 °F) dry air from inlet pressure to atmospheric pressure (1013 mbar / 30 inch Hg a) for nominal speed and drive with three phase motors. Ring liquid is water at 15 °C (59 °F).
The tolerance of the suction capacity is –10 % and of the power consumption +10 %.

With different operating conditions characteristic curves change (e.g. differing gas operating liquid conditions, conveying of additional liquids and/or pumping of gas-steam mixtures).

Characteristic curves VHC0300/0350/0400

50 Hz – 1450 min^{-1}

60 Hz – 1750 min^{-1}



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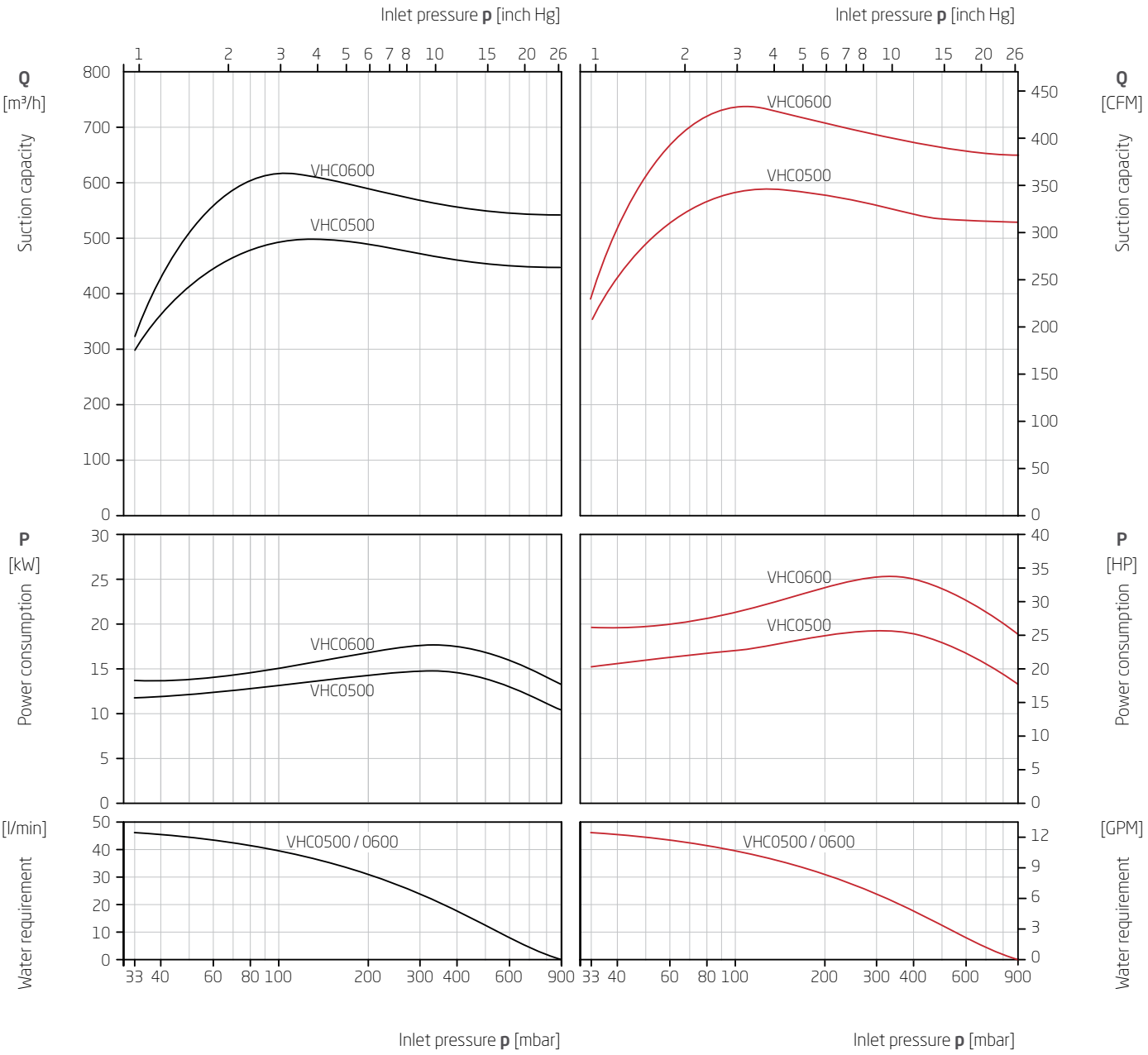
Characteristic curves VHC0500/0600

50 Hz – 1450 min^{-1} 60 Hz – 1750 min^{-1}



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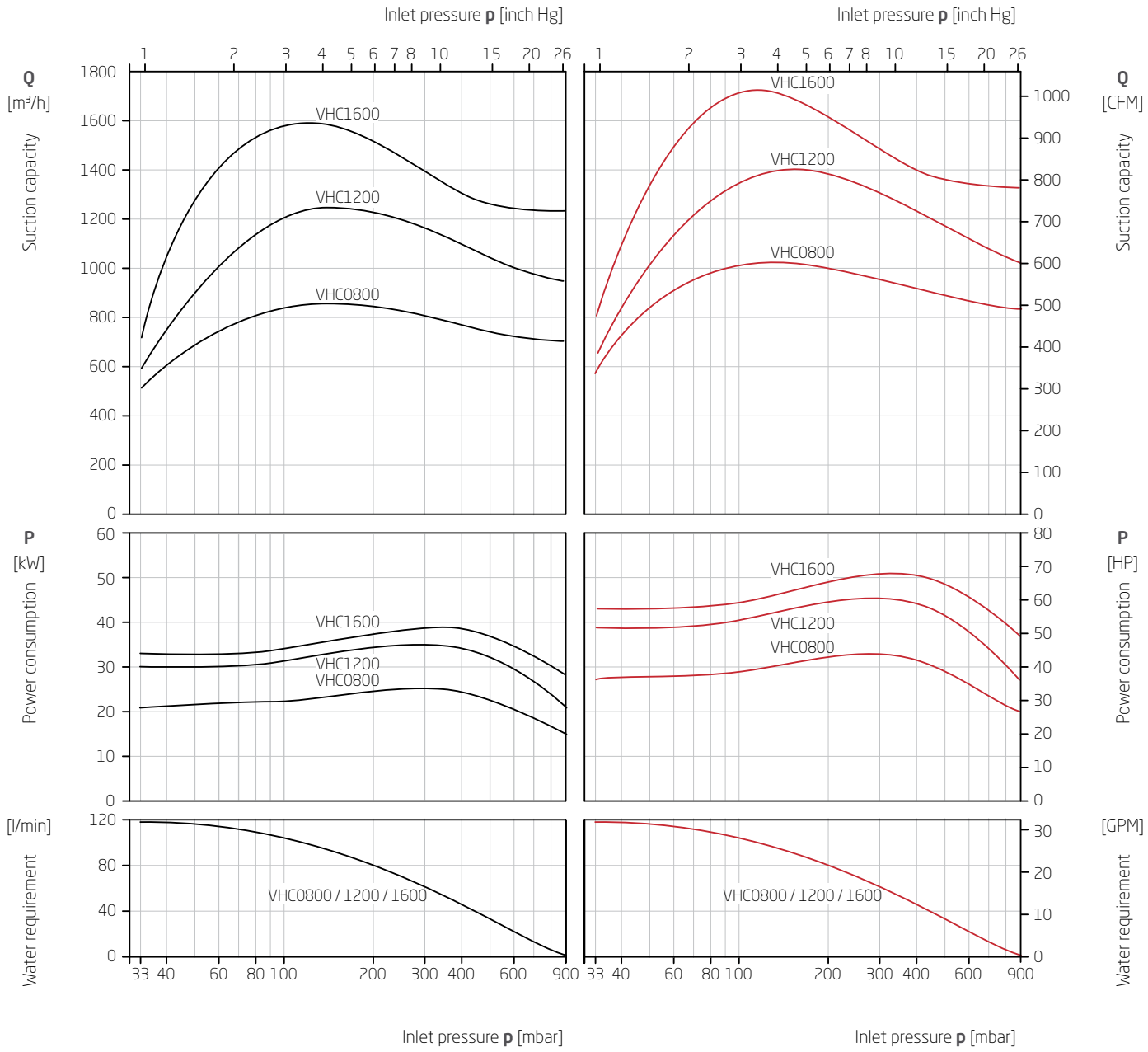
With different operating conditions characteristic curves change (e.g. differing gas operating liquid conditions, conveying of additional liquids and/or pumping of gas-steam mixtures).

Characteristic curves VHC0800/1200/1600

50 Hz – 975 min^{-1} 60 Hz – 1175 min^{-1}

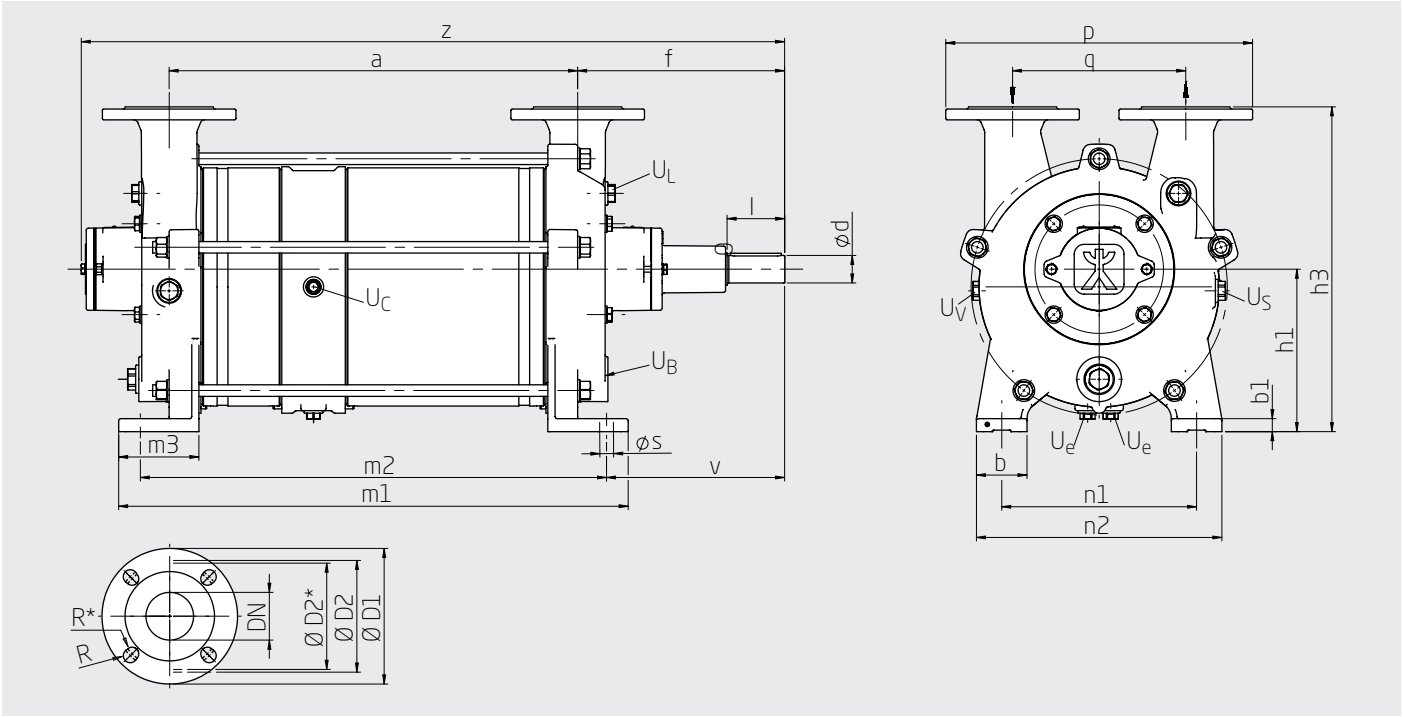


Suction capacity and power consumption depending on inlet pressure

The characteristics are applicable for compression of 20 °C (68 °F) dry air from inlet pressure to atmospheric pressure (1013 mbar / 30 inch Hg a) for nominal speed and drive with three phase motors. Ring liquid is water at 15 °C (59 °F).
The tolerance of the suction capacity is –10 % and of the power consumption +10 %.

With different operating conditions characteristic curves change (e.g. differing gas operating liquid conditions, conveying of additional liquids and/or pumping of gas-steam mixtures).

Technical data



Dimensions

Type	a	b	b1	Ød	DN	f	h1	h3	l	m1	m2	m3	n1	n2	p	q	Øs	v	z
VHC0110	239	50	15	28	40	184	160	320	50	335	298	74	200	250	330	180	15	155	531
VHC0140	269	50	15	28	40	184	160	320	50	365	328	74	200	250	330	180	15	155	561
VHC0180	339	50	15	28	40	184	160	320	50	435	398	74	200	250	330	180	15	155	631
VHC0300	335	60	17	38	50	282	212	402	80	435	385	80	240	300	395	230	19	257	743
VHC0350	375	60	17	38	50	282	212	402	80	475	425	80	240	300	395	230	19	257	784
VHC0400	435	60	17	38	50	282	212	402	80	535	485	80	240	300	395	230	19	257	844
VHC0500	500	70	18	38	65	287	225	450	80	640	580	111	270	340	425	240	19	247	902
VHC0600	566	70	18	38	65	287	225	450	80	706	646	111	270	340	425	240	19	247	968
VHC0800	540	98	21	60	100	422	320	595	140	694	620	123	380	480	590	370	19	382	1131
VHC1200	690	98	21	60	100	422	320	595	140	844	770	123	380	480	590	370	19	382	1281
VHC1600	790	98	21	60	100	422	320	595	140	944	870	123	380	480	590	370	19	382	1381

Weight

Type	kg	lbs
VHC0110	59	130
VHC0140	68	150
VHC0180	77	170
VHC0300	115	254
VHC0350	121	267
VHC0400	140	309
VHC0500	170	375
VHC0600	186	410
VHC0800	406	895
VHC1200	460	1014
VHC1600	530	1168

Connection dimensions

Type	U_B	U_C	U_e	U_L	U_S	U_V
VHC0110	G ½	G ⅛	G ⅛	G ½	G ¾	G ¾
VHC0140	G ½	G ⅛	G ⅛	G ½	G ¾	G ¾
VHC0180	G ½	G ⅛	G ⅛	G ½	G ¾	G ¾
VHC0300	G 1	G ¼	G ¼	G ¾	G ¾	G ¾
VHC0350	G 1	G ¼	G ¼	G ¾	G ¾	G ¾
VHC0400	G 1	G ¼	G ¼	G ¾	G ¾	G ¾
VHC0500	G 1	G ¼	G ½	G ¾	G ¾	G ¾
VHC0600	G 1	G ¼	G ½	G ¾	G ¾	G ¾
VHC0800	G 2	G ½	G ½	G 1 ½	G ¾	G ¾
VHC1200	G 2	G ½	G ½	G 1 ½	G ¾	G ¾
VHC1600	G 2	G ½	G ½	G 1 ½	G ¾	G ¾

Connection designations

Abb.	Designation
U_B	Connection for operating liquid
U_C	Connection for protection against cavitation
U_e	Connection for drainage
U_L	Connection for ventilation valve
U_S	Connection for sensor
U_V	Connection for drain valve

Flanges

Size	EN 10921 PN 10			ANSI	
DN	D1	D2	R Ø	RØ	D2
40	150	110	18	19.1	98.6
50	165	125	18	19.1	129.3
65	185	145	18	19.1	152.4
100	220	180	18	19.1	190.5

Type codes with seal and materials

	VHC VHC	0600 0400	M	-53	-15 -65	-000 -000
Series						
Size						
Design with magnetic coupling						
Mechanical seal (table 1)						
Materials (table 2)						
Counting number						

Table 1: Mechanical seal

Code	41	50	53	55
	Carbon, Cr steel, NBR	Carbon, stainless steel, FFKM	Carbon, stainless steel, FKM	Carbon, stainless steel, FKM double PTFE-coated

Table 2: Materials

Code	15	35	35	35	65
Types	**VHC0110 VHC0140 VHC0180 VHC0300 VHC0350 VHC0400**	**VHC0110 VHC0140 VHC0180 VHC0300 VHC0350 VHC0400 VHC0500 VHC0600**	**VHC0800 VHC1200**	**VHC1600**	**VHC0110 VHC0140 VHC0180 VHC0300 VHC0350 VHC0400 VHC0500 VHC0600 VHC0800 VHC1200 VHC1600**
Suction casing, discharge casing, intermediate casing and casing for shaft sealing	EN-GJL-250 Cast iron	EN-GJL-250 Cast iron	EN-GJL-250 Cast iron	EN-GJL-250 Cast iron	1.4581 CrNiMo cast steel
Inter casing	1.4301 CrNi-steel	1.4571 CrNiMo-steel	1.4571 CrNiMo-steel	1.4571 CrNiMo-steel	1.4571 CrNiMo-steel
Stage casing	Steel	Steel	Steel	Steel	1.4581 CrNiMo cast steel
Impellers	CuSn Bronze	1.4581 CrNiMo-cast steel	1.4027 / 1.4308 Cr / CrNi cast steel	1.4027 / 1.0580 Cr cast steel / steel	1.4581 CrNiMo cast steel
Shaft	1.4122 CrMo-Steel	1.4122 CrMo-Steel	1.4122 CrMo-Steel	1.4122 CrMo-Steel	1.4571 CrNiMo-steel

EN-GJL-**250** = EN-JL1040 = GG-**25** = FGL **250**

ⓘ Subject to modifications of materials and errors.

Performance data

Typen	50 Hz				60 Hz			
	power consumption		max. suction capacity		power consumption		max. suction capacity	
	[kW]	[HP]	[m³/h]	[CFM]	[kW]	[HP]	[m³/h]	[CFM]
VHC0110	2,9	3,9	107	63	3,7	5,0	128	75
VHC0140	3,5	4,7	145	85	4,5	6,0	174	102
VHC0180	4,9	6,6	186	109	6,3	8,4	223	131
VHC0300	7,3	9,8	283	167	9,5	12,7	314	185
VHC0350	9,3	12,5	342	201	12,1	16,2	411	242
VHC0400	10,9	14,6	425	250	14,2	19,0	475	280
VHC0500	14,5	19,4	501	295	18,9	25,3	590	347
VHC0600	17,6	23,6	616	363	25,1	33,7	739	435
VHC0800	25,8	34,6	862	507	32,7	43,9	1032	607
VHC1200	34,9	46,8	1252	737	45,4	60,9	1407	828
VHC1600	39,2	52,6	1589	935	50,9	68,3	1717	1011

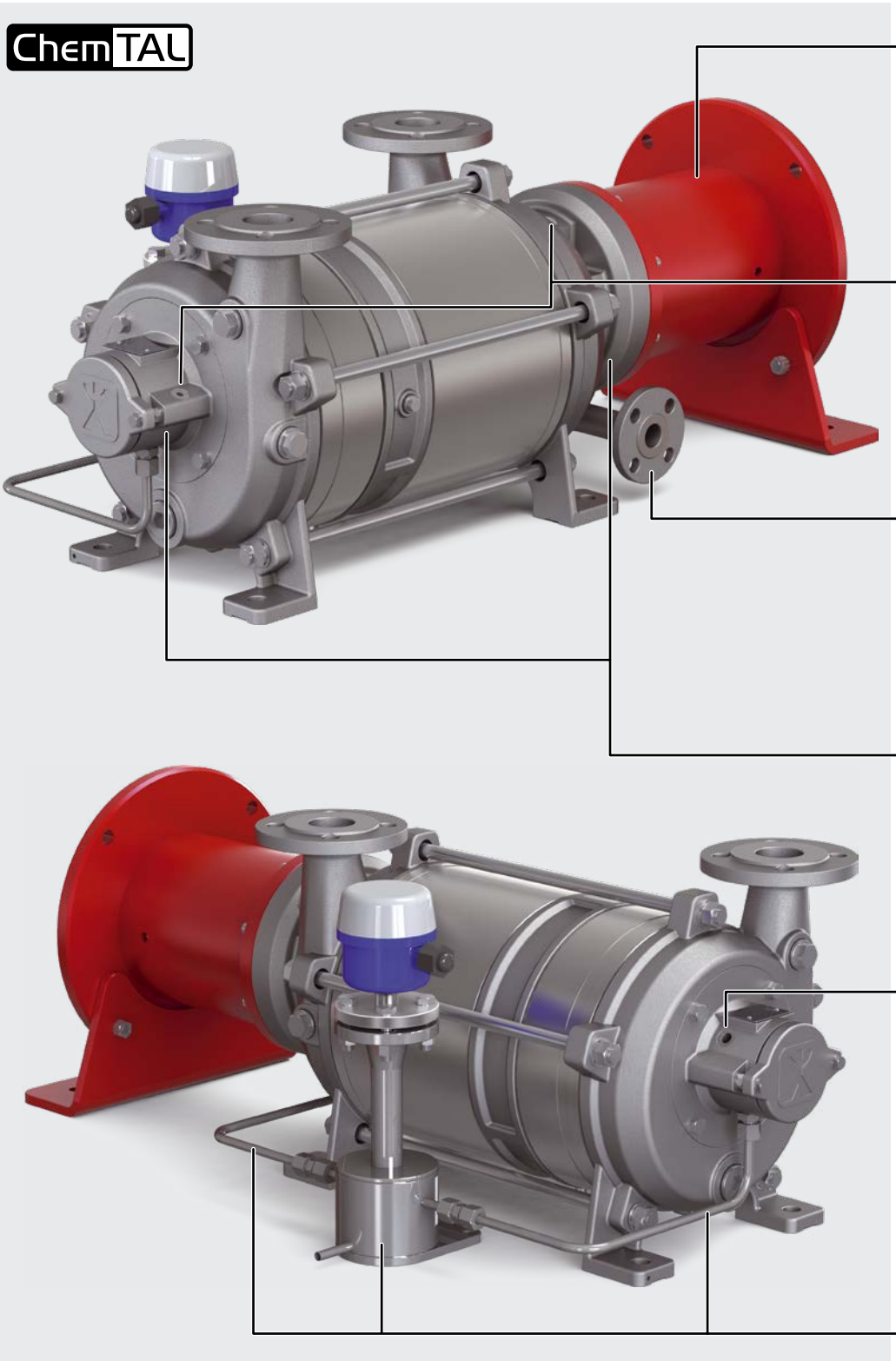
Sizes of the previous VH* series still available

Types	50 Hz				60 Hz			
	power consumption		max. suction capacity		power consumption		max. suction capacity	
	[kW]	[HP]	[m³/h]	[CFM]	[kW]	[HP]	[m³/h]	[CFM]
VH0020	0,8	1,1	21	12	1,1	1,5	25	15
VH0040	1,3	1,8	46	27	1,7	2,3	52	31
VH0060	2,0	2,7	56	33	2,6	3,5	68	40

* → Brochure "Vacuum pumps in base plate design - series VZ, VH, VU

ChemTAL – The VHC version according to TA Luft (Technical Instruction on Air Quality Control)

ChemTAL fulfils all legally specified requirements for air pollution control and offers a wide range of benefits.



Bracket with dry-running magnetic coupling without eddy-current losses

Monitoring of the bearings and magnetic coupling – connection for vibration sensor (optional)

Operating liquid connection in flange version

Closed bearing bracket

Pressure overlay connection in the mechanical seal casing

Monitoring of the two mechanical seals with a liquid sensor

Safe, low lifecycle costs and durable

ChemTAL is the safe and efficient solution when using toxic, corrosive and combustible media.
The design with proven mechanical seals in combination with external rolling bearings and a dry-running magnetic coupling guarantees leak-tightness and safety. The components in contact with the media are made from stainless steel or rust-free special alloys. Various material combinations for the mechanical seals are also coordinated depending on the media to be pumped.

High operational safety

ChemTAL is safe, as the entire pump is hermetically sealed and the requirements of the legally specified TA Luft (Technical Instruction on Air Quality Control) are met.

Several monitoring systems guarantee high availability via early detection of possible wear and identification of unsuitable operating modes.
Optional vibration sensors monitor the condition of the ball bearings and the magnetic coupling. The two mechanical seals are monitored by a liquid sensor. An additional nitrogen connection on the bearing brackets enables inertisation of the sealing system.

During the start-up process, ChemTAL is resistant to dry running due to the external bearings. Operating liquids with different viscosities can be used based on the process. If damage occurs on the separating can, the ChemTAL can still be used without problems for a specific time. This means that the pump maintenance can be planned in a targeted way.

All series are type-tested for ATEX to category 1G (+H2)

Low life-cycle costs

ChemTAL requires no seal supply systems, meaning it is extremely service-friendly and is characterised by low maintenance costs.
The magnetic coupling free from eddy current losses used in the VHC results in a tangible energy saving compared with conventional magnetic couplings..

Long-lasting

ChemTAL has a long service life, as lasting solutions from the VHC series are used for wear parts..

Production program

Liquid ring vacuum pumps from Speck

VI Series

The water saver
Single-stage pumps in inverted design with valves flaps and internal water restraining system
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 45 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 55 m³/h

V Series

The all-rounders
Single-stage pumps with valve flaps, close-coupled and bracket versions
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 370 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 445 m³/h

VG Series

Valveless and low-maintenance
Single-stage pumps without valves, free of dead spots, close-coupled and bracket versions
50 Hz p_{min}: 40 mbar abs. / Q_{max}: 200 m³/h
60 Hz p_{min}: 40 mbar abs. / Q_{max}: 245 m³/h

VE Series

For suction or compression mode
Single-stage pumps with valve flaps, close-coupled version, excentrics on top
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 190 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 230 m³/h

VN Series

For large quantities of additional liquid
Single-stage pumps with valve flaps and port cylinder, close-coupled and bracket versions
50 Hz p_{min}: 55 mbar abs. / Q_{max}: 180 m³/h
60 Hz p_{min}: 55 mbar abs. / Q_{max}: 215 m³/h

VU Series

Tried-and-tested robust technology for rough vacuum
Single-stage pumps in base plate version
50 Hz p_{min}: 120 mbar abs. / Q_{max}: 1550 m³/h
60 Hz p_{min}: 120 mbar abs. / Q_{max}: 1900 m³/h

VZ Series

Robust and low-noise technology for deep vacuum ranges - Two-stage pumps without valves, close-coupled and bracket versions, magnetic couplings on request
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 185 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 225 m³/h

VH Series

Tried-and-tested robust technology for deep vacuum ranges -Two-stage pumps in base plate version without valves
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 56 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 68 m³/h

VHC Series

Innovative technology for deep vacuum ranges - Two-stage pumps in base plate versions without valves
50 Hz p_{min}: 33 mbar abs. / Q_{max}: 1600 m³/h
60 Hz p_{min}: 33 mbar abs. / Q_{max}: 1700 m³/h

Order-related tests

Computer-controlled and fully automated test stands for vacuum pumps on the premises of Speck in Roth. Measuring of hydraulics, power requirements and vibrations. Test of inlet pressures up to 5 mbar and suction capacities up to 2000 m³/h..

Testing the performance

Speck carries out hydraulic tests as standard.

The measurement of the characteroistic curves apply to the delivery of water at nominal speed according to DIN 28431.
The tolerance of the suction capacity is –10 % and of the power consumption +10 %.With different operating conditions characteristic curves change (e.g. differing gas operating liquid conditions, conveying of additional liquids and/or pumping of gas-steam mixtures).

Other tests

At the customer's request, Speck offers the following tests:

Hydrostatic pressure test
The hydrostatic pressure test is used to prove strength of the components and that the pump is leak-proof. The fully assembled pump is tested.
If you want to use pressure tests according to different criteria, please enter them in the request.

Vibration test
Vibration test according to EN ISO 5199, Edition 2002 – the vibration values are measured radially and vertically at every operating point on the bearing casing at the nominal speed.

Temperature measurement
The measurement is taken on the motor-side bearing at operating temperature. The operating temperature and the ambient temperature at every operating point measured are documented.

Noise measurement
Scope and procedures in close cooperation with the customer

Representations

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◘ Vertrieb / Sales
○ Service / Service

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