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Chemistry-HYBRID pump RC 6

RC 6

The RC 6 chemistry-HYBRID pump is a combination of a two-stage rotary vane pump and a two-stage chemistry diaphragm pump for optimized corrosion resistance. The diaphragm pump maintains the oil reservoir under vacuum in order to keep the partial pressures of solvent vapors at levels below their condensation points and to reduce largely the concentration of oxygen and corrosive gases. Therefore the RC 6 chemistry-HYBRID pump has a much higher solvent vapor pumping capability and resistance to aggressive gases than conventional rotary vane pumps.

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Performance features

- reduced internal corrosion, even when working with corrosive vapors

- oil changes typically reduced 90% or more compared with rotary vane pumps alone

- excellent environmental friendliness due to efficient solvent recovery (accessory kit PC 8 with emission condenser; or as pumping unit PC 8)

- most economical solution: In practical operation a cold trap is often no longer necessary. For large amounts of vapors a pumping unit PC 3 / RC 6 with cold trap at the inlet is available

- ease of maintenance due to telescopic design

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**Safety information for vacuum equipment
(999254.pdf)**

Manual (997829_US.pdf) (I + II)

Technical data

Technical data	Unit	RC 6
Number of stages		2 + 2
Max. pumping speed at 50/60 Hz	m ³ /h	5.9 / 6.9
Max. pumping speed at 50/60 Hz	cfm	3.5 / 4.1
Ultimate partial vacuum (abs.)	mbar	4 x 10 ⁻⁴
Ultimate vacuum (abs.)	mbar/torr	2 x 10 ⁻³ / 1.5 x 10 ⁻³
Ultim. vac. (abs.) with gas ballast	mbar/torr	1 x 10 ⁻² / 0.75 x 10 ⁻²
Water vapor tolerance with gas ballast	mbar	>> 40 mbar
Ambient temperature range (operation)	°C	12 - 40
Ambient temperature range (storage)	°C	-10 - 60
Oil capacity (B-Oil) min./max.	l	0.34 / 0.53
Max. back pressure (abs.)	bar	1.1
Inlet connection		Small flange KF DN 16
Outlet connection		Hose nozzle DN 8-10 mm
Rated motor power	kW	0.37
Rated motor speed at 50/60 Hz	min ⁻¹	1500/1800
Degree of protection		IP 40
Dimensions (L x W x H)	mm	510 x 305 x 230
Weight	kg	24.2
Noise level at 50 Hz, typ.	dBA	50
Items supplied		Pump completely mounted, ready for use after oil filling (bottle 0.5 l enclosed), with manual.
Accessories		PTFE tubing KF DN 16 (1000 mm: 686031)

Stainless steel tubing KF DN 16 (1000 mm: 673336)

Kit PC 8 with emission condenser (699949)

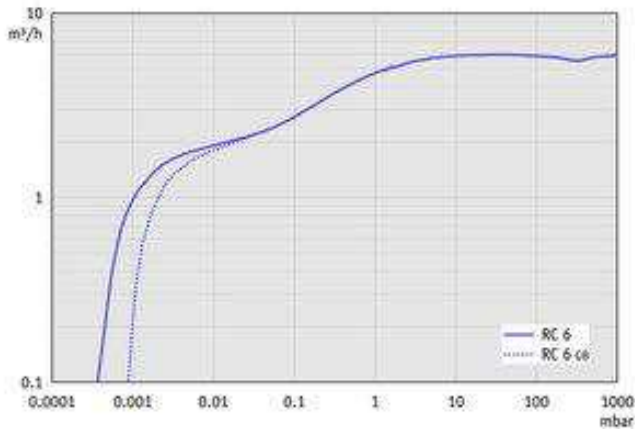
Filter element oil mist filter RC (640187)

Paket Feinvakuumregelung KF DN 16 (683201)

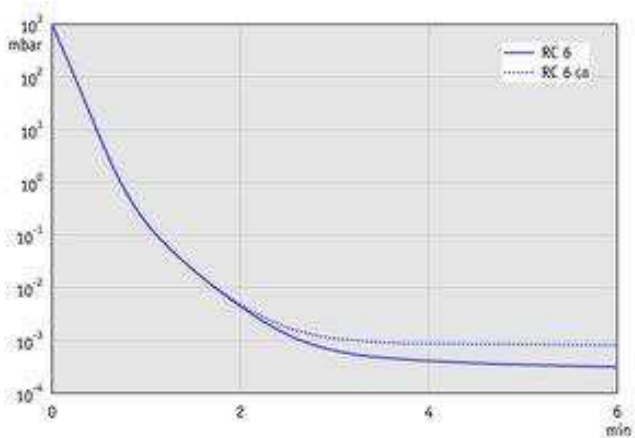
Rubber vacuum tubing DN 8 mm (686001)

Small flange KF DN 16 with hose nozzle DN 8-10 mm (662806)

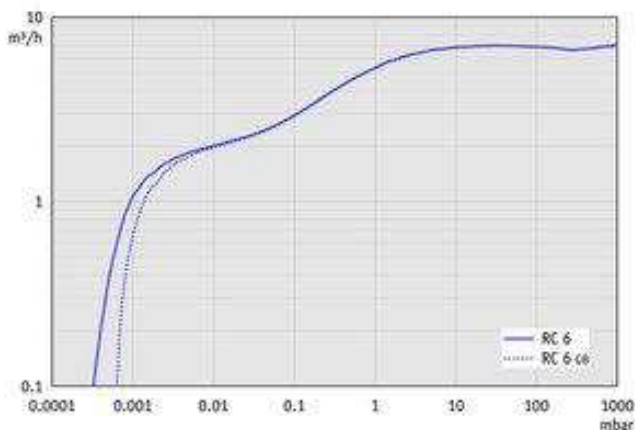
RC 6 - Pumping speed graph at 50 Hz



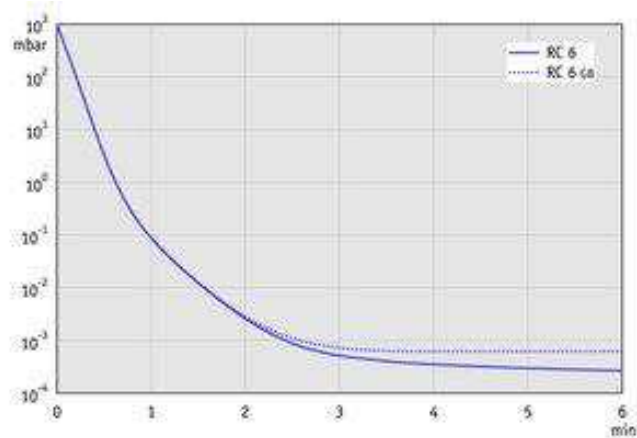
RC 6 - Pump down graph at 50 Hz (10 l volume)



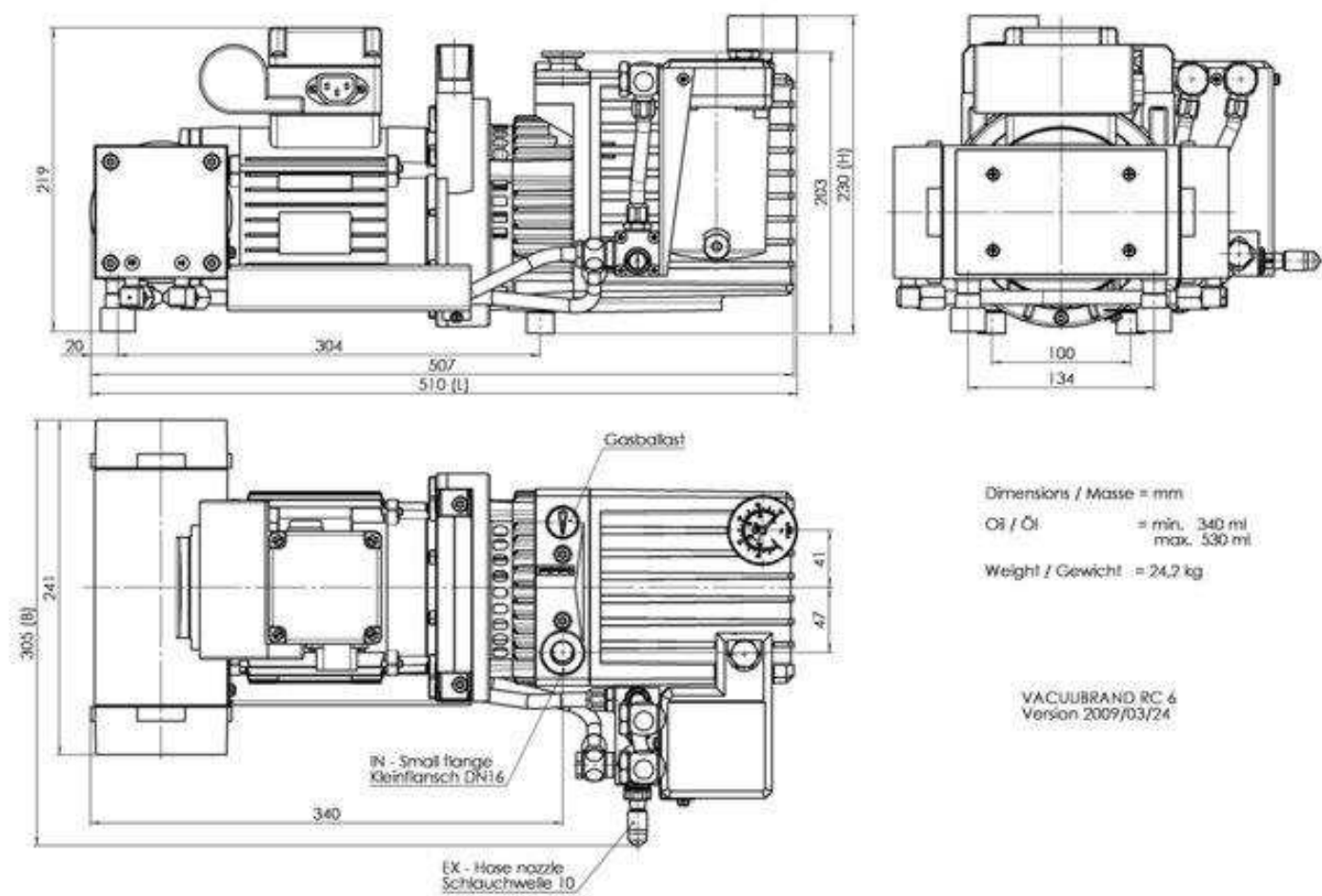
RC 6 - Pumping speed graph at 60 Hz



RC 6 - Pump down graph at 60 Hz (10 l volume)



RC 6 - Dimension sheet



-Technical data are subject to change without notice-

Ordering data

Product name	Mains voltage and frequency	Plug	* Old order-no.	* New order-no.
RC 6	230 V~ 50-60 Hz	CEE	698560	20698560
	230 V~ 50-60 Hz	CEE/CN	698566	20698566
	230 V~ 50-60 Hz	CH	698561	20698561

230 V~ 50-60 Hz

UK, IN

698562

20698562

100-120 V~ 50-60 Hz

US

698563

20698563

* As part of the implementation process of our new ERP system in 2018 our catalog numbers are extended to 8 digits in length by adding the digits "2" or "20" to the beginning of the old catalog numbers.

Product comparison

Name	Base pump	Ultimate vacuum without gas ballast mbar	Ultimate vacuum with gas ballast mbar	Pumping speed in m ³ /h 50 Hz 60 Hz	Chemical resistant	Oil pump	ATEX category 2	ATEX category 3 Internal Atm. only	Exhaust filter	Isolation valve	Cold trap	EK
Chemistry-HYBRID pump RC 6	-	2 x 10 ⁻³	1 x 10 ⁻²	5.9 6.9	✓	✓	-	-	✓	-	-	-
Chemistry-HYBRID pumping unit PC 3 / RC 6	RC 6	2 x 10 ⁻³	1 x 10 ⁻²	5.9 6.9	✓	✓	-	-	✓	✓	✓	-
Chemistry pumping unit PC 8 / RC 6	RC 6	2 x 10 ⁻³	1 x 10 ⁻²	5.9 6.9	✓	✓	-	-	✓	-	-	✓

Drying chambers



Lyophilization, drying with minimal residues, and...



Vacuum concentrators



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ditions

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