

## LUBRICATED ROTARY VANE VACUUM PUMPS.

**LC 205 - 305**  
**LC 205 Kzero - 305 Kzero**  
**LC 205HV - 305HV**



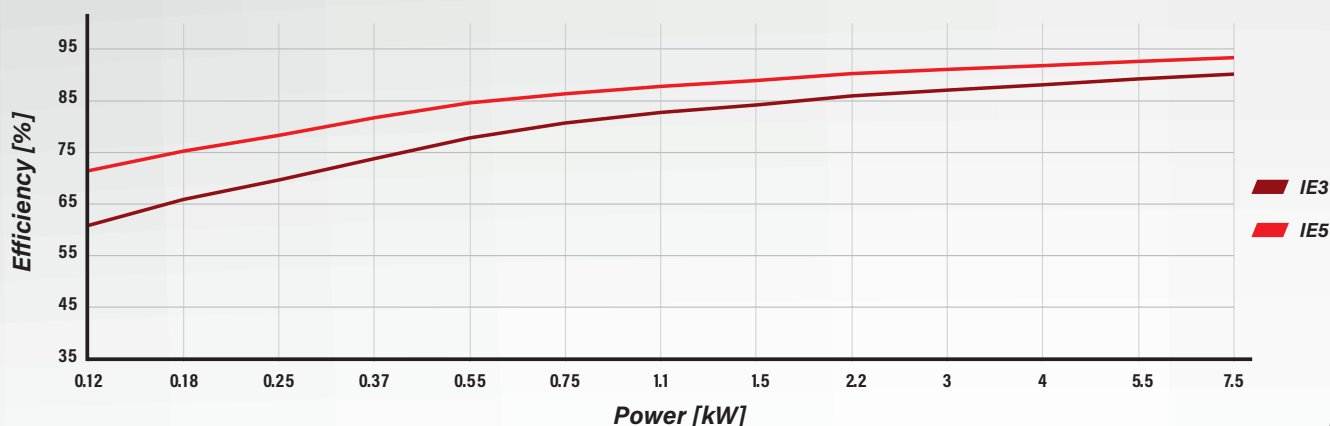


## LC 205 - 305

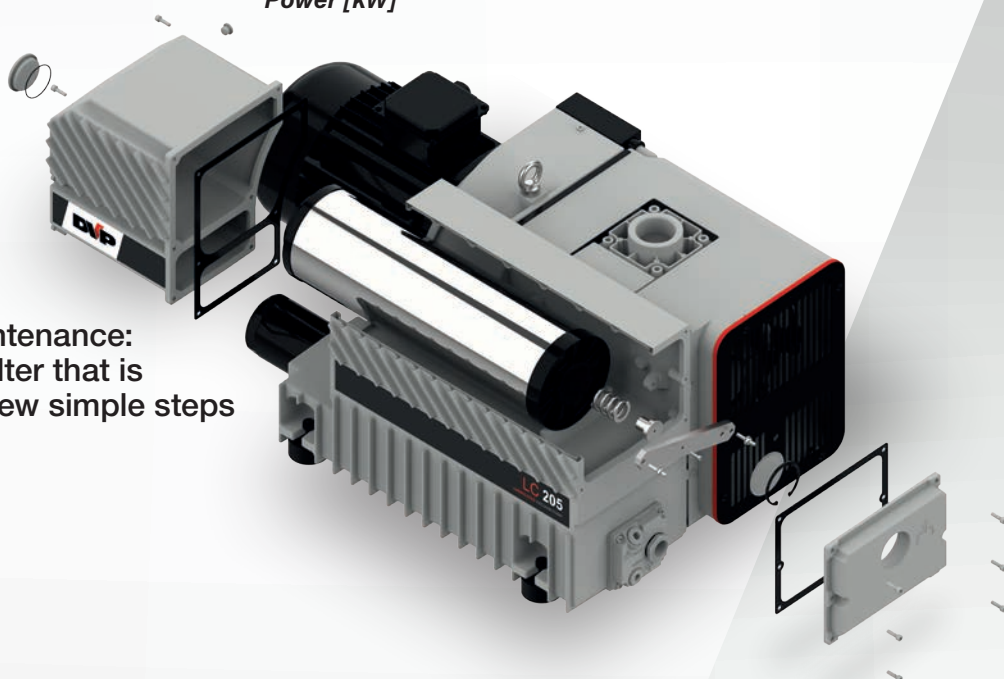
In the series of lubricated rotary vane vacuum pumps, the LC 205 and LC 305 are highly recommended when deeper final pressure is required or when the intake flow contains moisture. The lubrication of the pump enables water vapor to be taken in and with the presence of a gas ballast, will not condense.

### Main features

- Gas ballast with manual cut-off valve
- Exhaust air flow free of oil vapors
- Low noise level
- Availability of various oil selections in addition to the standard viscosity, depending on the usage
- Special PFPE versions available for high oxygen applications above 21%
- Multi-Voltage 50 Hz/60 Hz IE3 motor offered as a standard model and IE5 permanent magnet motor with built-in inverter, as an advanced model to provide cost savings of up to 50%



- Straightforward maintenance: only one separator filter that is easily replaced in a few simple steps



### **Main applications**

- // Food processing
- // Food packaging
- // Non-food packaging
- // Autoclaves and steam sterilizers
- // Glass, stone, wood
- // Centralized vacuum systems
- // Chemical and pharmaceutical industry
- // Environment
- // Drying and dehydration processes
- // Vacuum filtration

### **Accessories**

- // Inlet filter
- // Hose connection fitting
- // Oil level switch kit
- // Vacuum gauge
- // Clogged filter detecting gauge
- // Clogged filter detecting switch

## **LC 205 Kzero - 305 Kzero**

### **Main features**

- // The special Kzero version is primarily designed for heavy duty applications
- // Equipped with SYNVac Highperf oil, highly compatible with the solvents commonly found in metal washing machines
- // FKM check valve rubber give greater durability and less deterioration when in constant contact with oil and solvents
- // Gas ballast

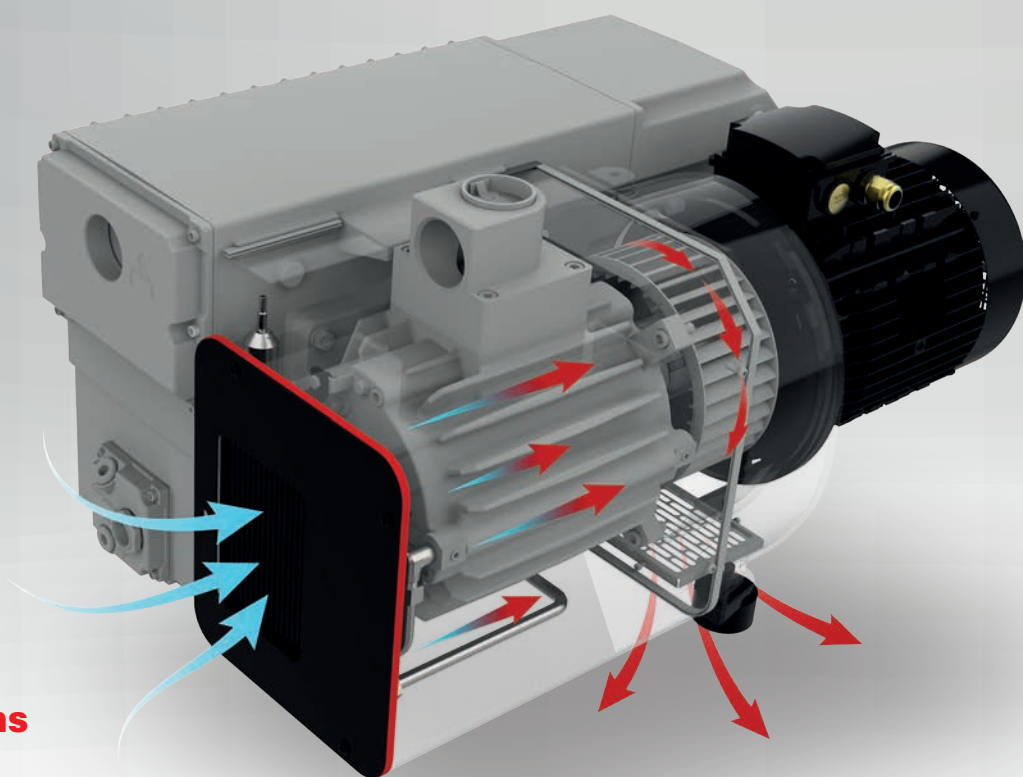
### **Main applications**

- |   |                                     |
|---|-------------------------------------|
| // Industrial cleaning                  | // Degassing                        |
| // Metal washing machines               | // Distillation                     |
| // Pneumatic conveying                  | // Drying and dehydration processes |
| // Mixers                               | // Evaporation                      |
| // Glass, stone, wood                   | // Fractionation                    |
| // Chemical and pharmaceutical industry | // Vacuum impregnation              |
| // Environment                          | // Vacuum coating                   |
| // Crystallization                      | // Vacuum filtration                |

## LC 205HV - 305HV

### Main features

- // The special HV version is suitable for thermoforming machines where the vacuum pump is located inside boxes. The direction of the cooling air outlet flow is downwards, so hot air does not stagnate inside the pump housing
- // Improved temperature management
- // New suction fitting with a double connection to the operating line, both frontally and vertically
- // Gas ballast with manual cut-off valve
- // Oxidation-resistant and odorless oil supplied as a standard feature



### Main applications

- // Thermoforming
- // Food packaging
- // Food processing
- // Drying and dehydration processes

# TECHNICAL DATA

		LC 205		LC 305		LC 205HV		LC 305HV		LC 205 Kzero		LC 305 Kzero	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal capacity	m³/h	205	245	305	365	205	245	305	365	205	245	305	365
Total final pressure (Abs.)	mbar - hPa	0.1 *				0.1 *				0.3			
Max inlet pressure for water vapour	mbar - hPa	25 **				10 **		12 **		25			
Max water vapour pumping rate	kg/h	3.5 **		5 **		2.1 **		3.5 **		3.5		5	
Motor power IE3	(3~) kW	5.5	6.6	7.5	9	5.5	6.6	7.5	9	5.5	6.6	7.5	9
Nominal r.p.m.	n/min	1400	1700	1400	1700	1400	1700	1400	1700	1400	1700	1400	1700
Noise level (UNI EN ISO 2151 - K 3dB)	dB(A)	70	73	71	74	69	71	71	73	70	73	71	74
Weight	(3~) kg [N]	170 [1667.5]		180 [1765.8]		170 [1667.5]		180 [1765.8]		170 [1667.5]		180 [1765.8]	
Type of oil	cod. DVP	BV100 (SW100)				SW100				SYN HP 110			
Oil quantity	min ÷ max dm³	4 ÷ 5				4 ÷ 5				4 ÷ 5			
Pump intake / outlet		2"G / 2"G				2"G / 2"G				2"G / 2"G			
Continuous-duty working range (Abs.)	mbar - hPa	400 ÷ 0.1				400 ÷ 0.1				400 ÷ 0.3			
Operating temperature @ 20°C	°C	70 ÷ 75	75 ÷ 80	75 ÷ 80	80 ÷ 85	65 ÷ 70	70 ÷ 75	70 ÷ 75	75 ÷ 80	70 ÷ 75	75 ÷ 80	75 ÷ 80	80 ÷ 85
Room temp. for place of installation	°C	12 ÷ 40				12 ÷ 40				12 ÷ 40			
Ambient temp. for storage/transport	°C	-20 ÷ 50				-20 ÷ 50				-20 ÷ 50			
Max humidity / altitude		80% / 1000m s.l.m.				80% / 1000m s.l.m.				80% / 1000m s.l.m.			

\* With closed (OFF) gas ballast / \*\* With open (ON) gas ballast



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