



# Leybold Dryvac DV-450, 650

## Technical Specifications

<b>DRYVAC DV / DV S / DV C</b>		<b>450</b>	<b>650</b>
Nominal pumping speed	m <sup>3</sup> /h (cfm)	450 (265)	650 (383)
Max. effective pumping speed	m <sup>3</sup> /h (cfm)	450 (265)	650 (383)
Ultimate pressure	mbar (Torr)	5 x 10 <sup>-3</sup> (4 x 10 <sup>-3</sup> )	5 x 10 <sup>-3</sup> (4 x 10 <sup>-3</sup> )
Permissible ambient temperature	°C (°F)	+5 to +50 (+41 to +122)	+5 to +50 (+41 to +122)
Water vapour tolerance with > 20 slm purge gas or gas ballast	mbar (Torr)	60 (45)	60 (45)
Water vapour capacity	kg/h	15	25
Noise level at ultimate pressure with silencer and exhaust line	dB(A)	67	67
with permanent exhaust line	dB(A)	65	65
Power consumption at ultimate pressure	kW	5.3	≤ 7
Cooling		water	water
Electrical connection		380-460 V, 50/60 Hz	380-460 V, 50/60 Hz
Phases		3-ph.	3-ph.
Nominal power at 400 V	kW	11	15
Nominal current at 400 V	A	24	31
Intake connection	DN	100 ISO-K PN6 (1x at the top, 2x at the side)	100 ISO-K PN6 (1x at the top, 2x at the side)
Exhaust side connection	DN	63 ISO-K	63 ISO-K
Protection class EN 60529	IP	54	54
Weight	(lbs)		(1280)
Cooling water connection Threads, female	G	1/2	1/2
Cooling water temperature with gear oil LEYBONOL LVO 210	°C (°F)	5 to 35 (41 to 95)	5 to 35 (41 to 95)
with gear oil LEYBONOL LVO 410	°C (°F)	5 to 25 (41 to 77)	5 to 25 (41 to 77)
Cooling water throughput, nominal	l/min (US gallon/min)	6 (1.6)	7.5 (2.0)
Purge gas connection		D10	D10



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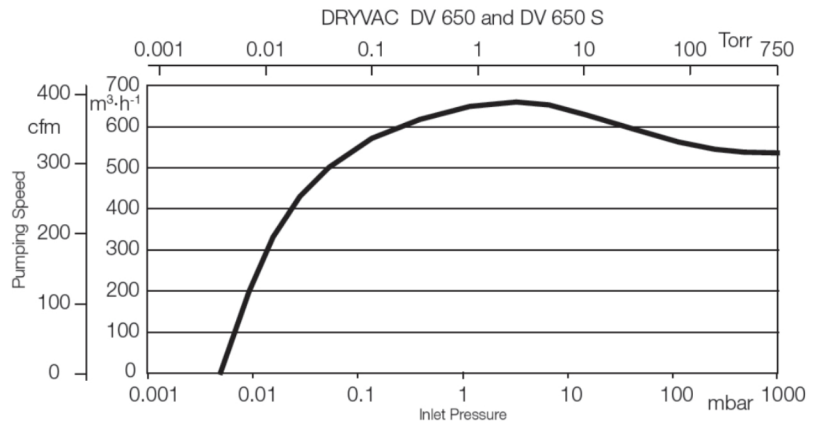
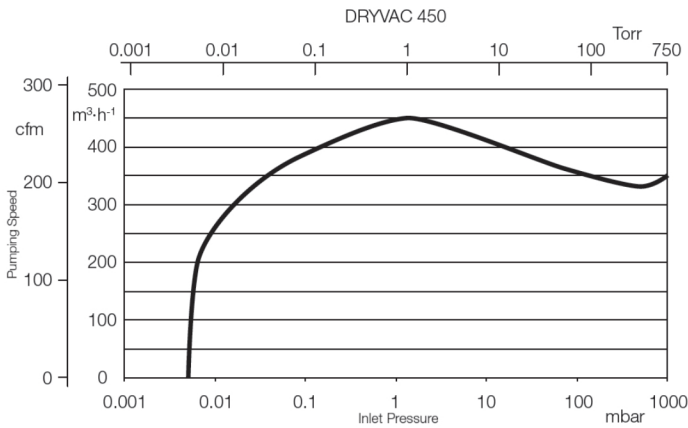
## SALES

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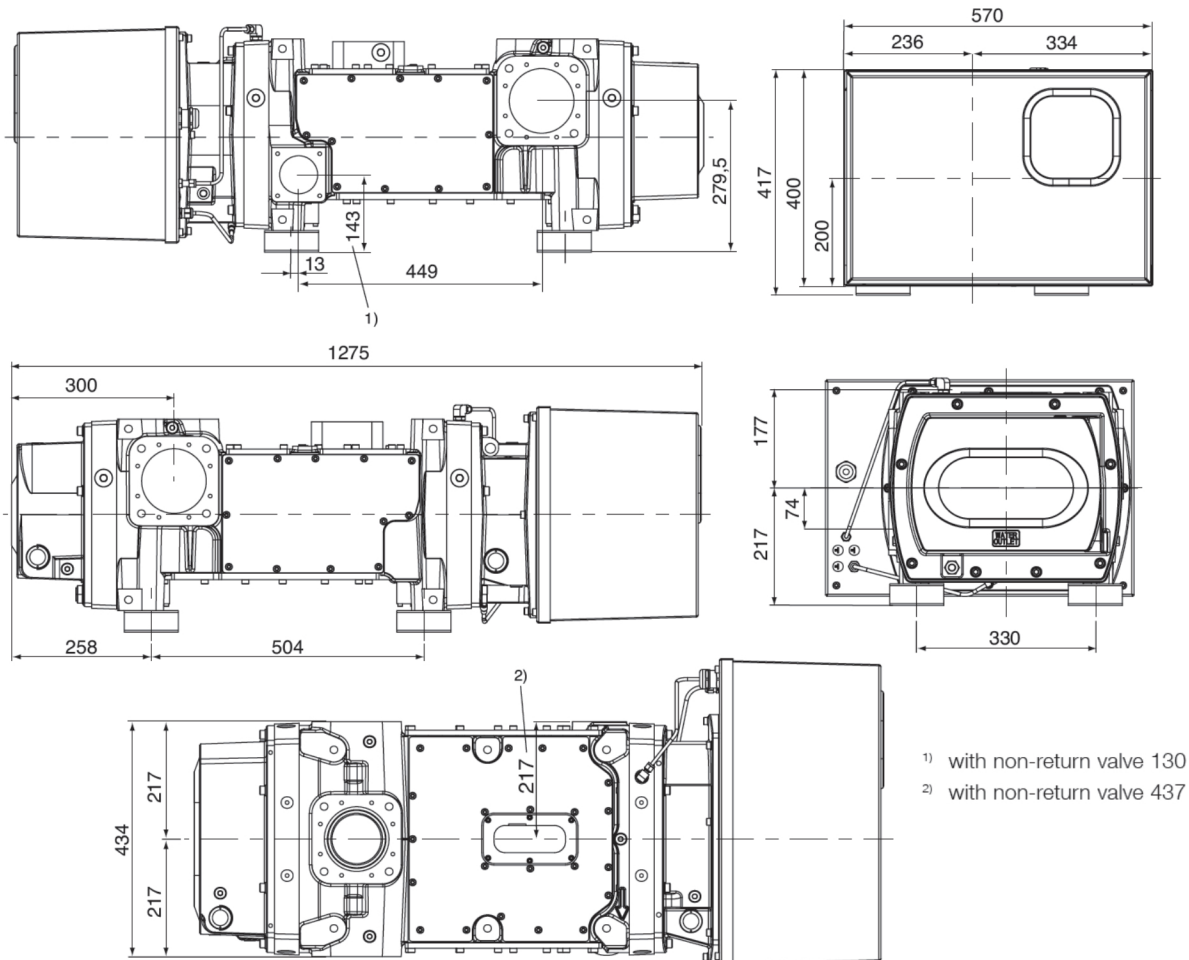
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# Leybold Dryvac DV-450, 650 Pumping Curves



## Dimensions





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## Leybold Dryvac DV-450, 650 Features & Benefits

- water cooled
- simple mechanical & electrical integration
- integrated protection function via temperature, exhaust pressure & current consumption
- small footprint
- low energy consumption
- optimized cost of ownership
- optimized rotor geometry & innovative motor design
- utmost package flexibility
- low noise level

## Applications

- automotive industry • electrical engineering • degassing • research & development • freeze drying • industrial gases • refrigeration & air conditioning • crystal pulling/casting • lamination • leak testing machines • metallurgy • plasma cleaning/activation • welding technology • vacuum drying • packaging • space simulation
- wind turbines • backing pump for high vacuum systems