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Leybold SL-80, SL-80C, SL-80H

Technical Specifications

		SL 80	SL 80 H	SL 80 C
Connection				
Inlet	DN	40 ISO-KF 63 ISO-K 63 CF	63 ISO-K 63 CF	63 ISO-K
Outlet	DN	16 ISO-KF	16 ISO-KF	16 ISO-KF
Pumping speed				
N_2	l x s^{-1}	40 65 65	65	70
Ar	l x s^{-1}	34 60 60	60	65
He	l x s^{-1}	44 55 55	55	50
H_2	l x s^{-1}	40 49 49	49	45
Gas throughput				
N_2	mbar · l x s^{-1}	2.0	0.9	3.5
Ar	mbar · l x s^{-1}	1.6	0.8	3.5
He	mbar · l x s^{-1}	1.2	1.5	2.0
H_2	mbar · l x s^{-1}	0.5	0.6	1.0
Compression ratio				
N_2		> 1 x 10^{11}	> 1 x 10^{11}	2 x 10^6
Ar		> 1 x 10^{11}	> 1 x 10^{11}	2 x 10^6
He		2 x 10^6	6 x 10^6	6 x 10^2
H_2		4 x 10^4	8 x 10^4	2 x 10^2
Ultimate pressure	mbar	< 2 x 10^{-10}	< 2 x 10^{-10}	< 5 x 10^{-8}
	Torr)	(< 1.5 x 10^{-10})	(< 1.5 x 10^{-10})	(< 4.0 x 10^{-8})
Max. foreline pressure for N_2	mbar (Torr)	16 (12)	16 (12)	0.35 (0.26)
Recommended forevacuum pump		TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D DIVAC 1.4 HV3	TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D DIVAC 1.4 HV3	TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D –
Nominal rotation speed	min^{-1} (rpm)	72 000	72 000	72 000
Run-up time, approx.	min	1.5	1.5	1.5
Max. power consumption	W	120	120	120
Power consumption at ultimate pressure	W	17	17	17
Admissible ambient temperature	°C (°F)	+15 to +45 (+50 to +113)	+15 to +45 (+50 to +113)	+15 to +45 (+50 to +113)
Cooling				
standard		Convection	Convection	Convection
optional		Water / Air	Water / Air	Water / Air
Cooling water connection		G 1/8", inside thread / 8 mm hose nozzle	G 1/8", inside thread / 8 mm hose nozzle	G 1/8", inside thread / 8 mm hose nozzle
Cooling water consumption	l x h^{-1}	15 to 60	15 to 60	15 to 60
Permissible cooling water pressure	bar	2 to 7	2 to 7	2 to 7
Permissible cooling water temperature	°C (°F)	10 to 40 (50 to 104)	10 to 40 (50 to 104)	10 to 40 (50 to 104)
Weight, approx.	kg	1.8 1.9) 3.1	1.9 3.1	1.9
	(lbs)	(3.97) (4.19) (6.84)	(4.19) (6.84)	(4.19)

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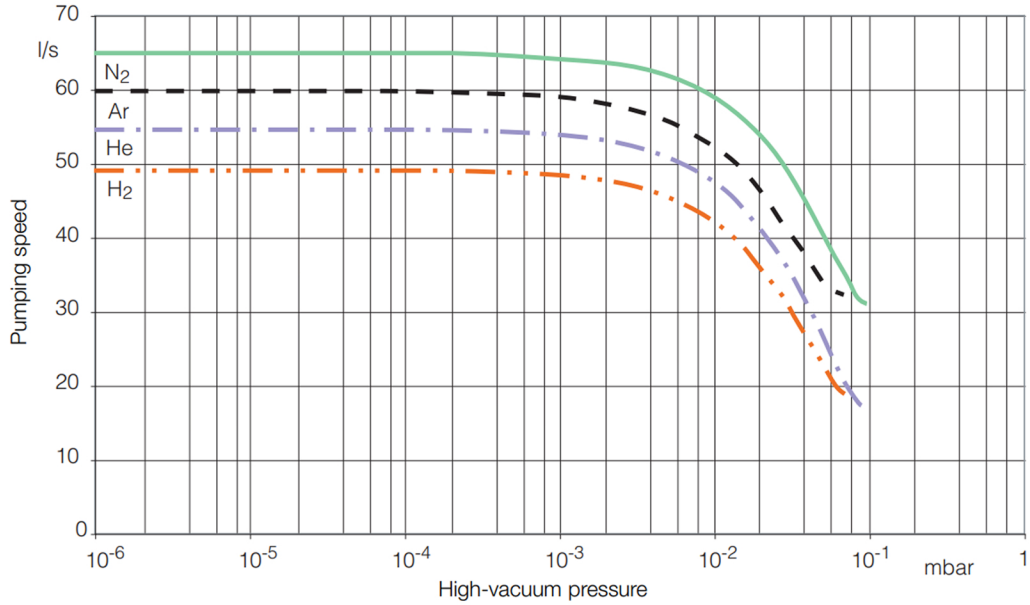
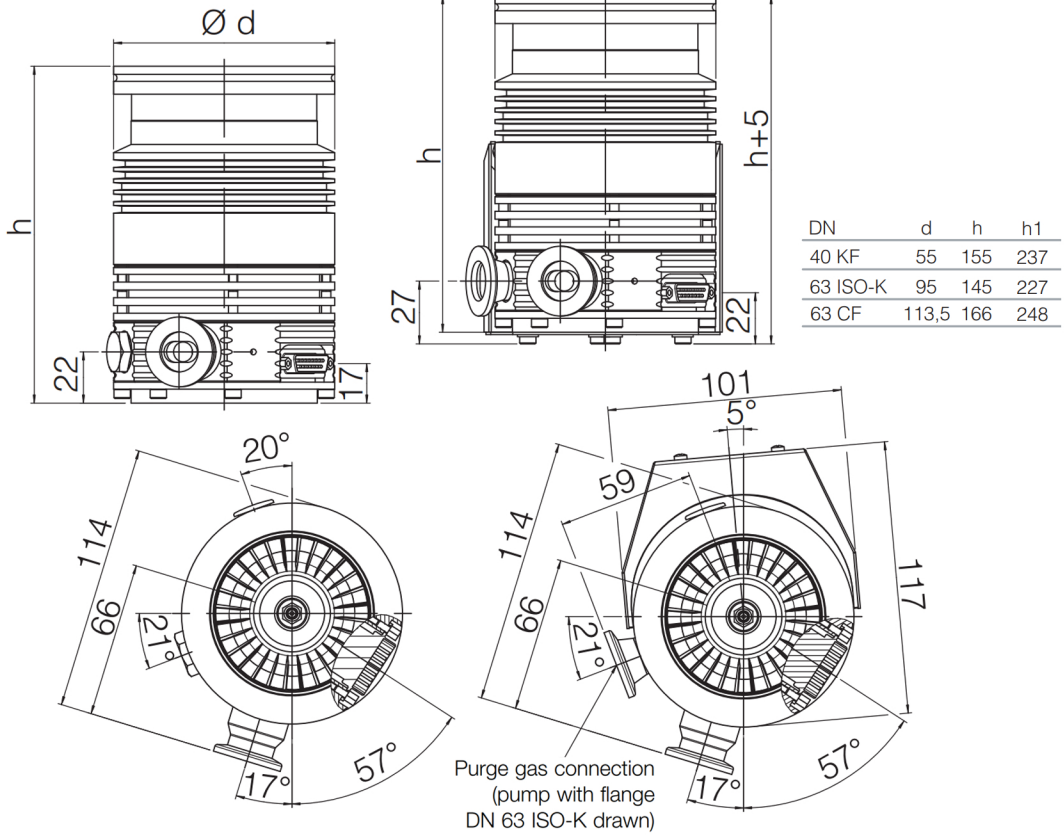
Pumping Curves



Dimensions



DN	d	h	h1
40 KF	55	155	237
63 ISO-K	95	145	227
63 CF	113,5	166	248

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Features & Benefits

- oil-free pump
- high pressure foreline tolerance
- efficient convection cooling
- purge gas / venting connection
- installation in any orientation
- small footprint
- space saving design
- high reliability due to self monitoring
- easy to integrate into complex vacuum systems
- excellent resistance to vibration due to proven mechanical bearings

Applications

- helium leak detectors • mass spectrometers • gas chromatography
- liquid chromatography • residual gas analysis • mobile analytical systems • electron beam microscopy • XHV / UHV systems
- transfer chambers