



# Leybold DIJ Series

## Technical Specifications

		DIJ 10	DIJ 320	DIJ 16	DIJ 500	DIJ 20	DIJ 630	DIJ 35	DIJ 1000
High vacuum connection	DN	10" ANSI	320 ISO-K	16"ANSI	500 ISO-K	20" ANSI	630 ISO-K	35" ANSI	1000 ISO-F
Forevacuum connection	DN	2" ANSI	63 ISO-K	3"ANSI	100 ISO-K	4" ANSI	160 ISO-K	6" ANSI	200 ISO-K
Pumping speed <sup>1)</sup> for Nitrogen < 10 <sup>-4</sup> mbar		2 800		6 800		10 800		28 000	
Working range	mbar	< 10 <sup>-2</sup> to 10 <sup>-7</sup>		< 10 <sup>-2</sup> to 10 <sup>-7</sup>		< 10 <sup>-2</sup> to 10 <sup>-7</sup>		< 10 <sup>-2</sup> to 10 <sup>-7</sup>	
Ultimate total pressure <sup>2)</sup>	mbar	< 5 x 10 <sup>-7</sup>		< 5 x 10 <sup>-7</sup>		< 5 x 10 <sup>-7</sup>		< 5 x 10 <sup>-7</sup>	
Max. permissible forevacuum pressure	mbar	5 x 10 <sup>-1</sup>		5 x 10 <sup>-1</sup>		5 x 10 <sup>-1</sup>		5 x 10 <sup>-1</sup>	
Pump fluid fill, min. / max.	l	1.0 / 1.4		1.7 / 3.4		5.0 / 7.0		12.0 / 18.0	
Mains voltage	V	1 ~ 230 /N/PE		3 ~ 400 /N/PE		3 ~ 400 /N/PE		3 ~ 400 /N/PE	
depending on variant, 50 / 60 Hz	V	1 ~ 230 /N/PE		3 ~ 460 /N/PE		3 ~ 460 /N/PE		3 ~ 460 /N/PE	
Heating power	kW	2.4		3.6		10.8		21.6	
Number of heating cartridges		2		3		9		18	
Warm up period	min	< 25		< 25		< 25		< 30	
Coolant (minimum) <sup>2)</sup>									
for the pump	l/h	160		290		600		1 200	
for the cold cap baffle	l/h	20		50		80		150	
Number of cooling circuits (including cold cap baffle)		2		2		2		2	
Coolant connection									
for the pump	G	3/8"		1/2"		1/2"		1/2"	
for the cold cap baffle	G	1/4"		3/8"		3/8"		3/8"	
Weight, approx.	kg	45		110		208		720	
Recom. forevacuum pumps <sup>3)</sup>									
at working pressure > 10 <sup>-4</sup> mbar									
oil-sealed		SV 100 B & W 501		SV 200 & W 501		SV 300 B & W 1001		SV 630 B & W 2001	
dry-compressing		-		DV 450 & W 501		DV 450 & W 1001		DV 650 & W 2001	
at working pressure < 10 <sup>-4</sup> mbar									
oil-sealed		D 25 B		D 65 B & W 251		SV 100 B & W 501		SV 300 B & W 1001	
dry-compressing		ECODRY plus 60		ECODRY plus 60 & W 251		-		DV 450 & W 1001	
Recom. supporting pump <sup>3)</sup>		TRIVAC D 25 B		TRIVAC D 40 B		TRIVAC D 65 B		TRIVAC D 65 B	

1) Measured as per DIN 28 427 using DC 704 normal as the pump fluid.

2) The coolant water volume is referenced to ΔT = 10 K. The discharge temperature should not exceed 30 °C.

3) Single- and two-stage rotary vane pumps (TRIVAC; SOGEVAC), or dry-compressing pumps (ECODRY plus ;DRYVAC) from our line of forevacuum pumps in conjunction with roots pumps (RUVAC) in pumping systems.



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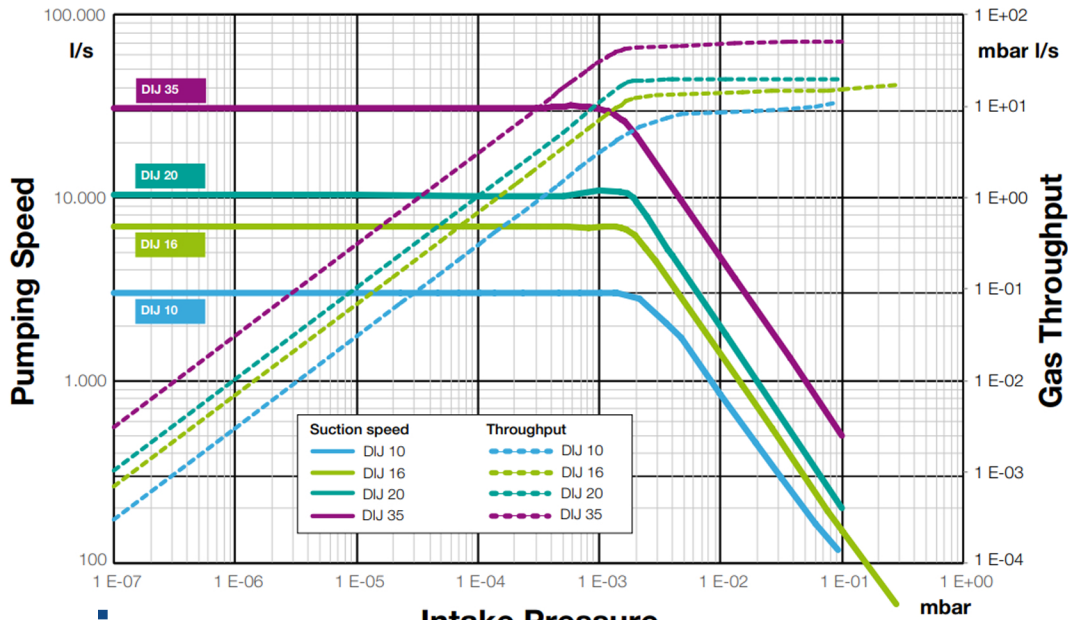
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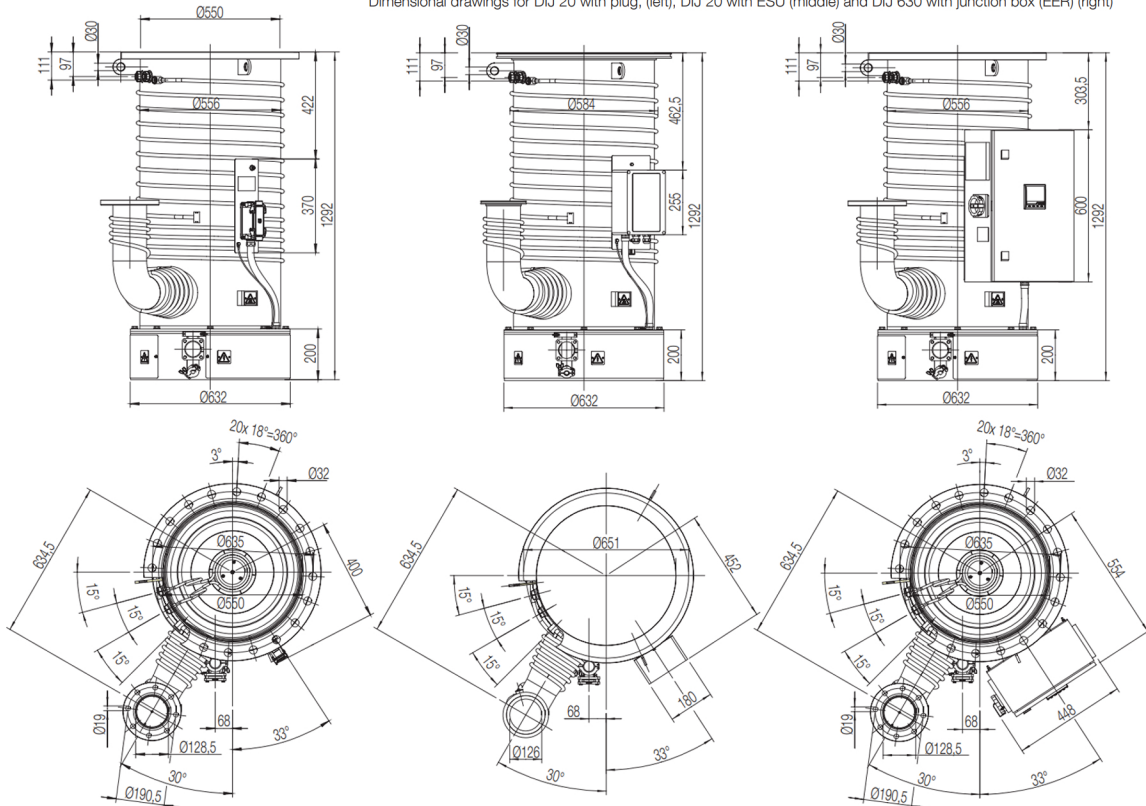
# Leybold DIJ Series Pumping Curves



## Dimensions

### Intake Pressure

Dimensional drawings for DIJ 20 with plug (left), DIJ 20 with ESU (middle) and DIJ 630 with junction box (EER) (right)





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## Leybold DIJ Series Features & Benefits

- most innovative heating concept
- effective temperature monitoring protects against overheating
- minimum stress & longest lifetime for heaters & oil
- insulated heater area ensures minimum energy losses
- unique baffle design minimizes oil backstreaming
- five stage system design provides excellent performance data
- prolonged maintenance intervals
- high forevacuum tolerance & pumping speed
- simple to operate, maintenance friendly design
- safe & economical

## Applications

- vacuum coating • metallurgy • vacuum furnaces • vacuum drying
- research & development • space simulation • industrial applications
- mechanical engineering

