

Specifications

<u>S/</u> <u>No</u>	<u>Description</u>	<u>Qty</u> <u>(Nos)</u>
01.	Oil Diffusion Pump DIF0631/PDI063-W, BPD 12000, 230V, 50HZ, Part No: 260-022	02
02.	Heating Rings of DIF0631/PDI063-W, 230V, Part No.: B 5170 218 QG	06
03.	Heating Rings of DIF1001/PDI100-W, 230V, Part No.: B 5170 028 QG	04
The Technical data sheet of Balzer Oil Diffusion Pumps are attached at page-02~03		
Make: Balzer OR Equivalent		

TECHNICAL DATA

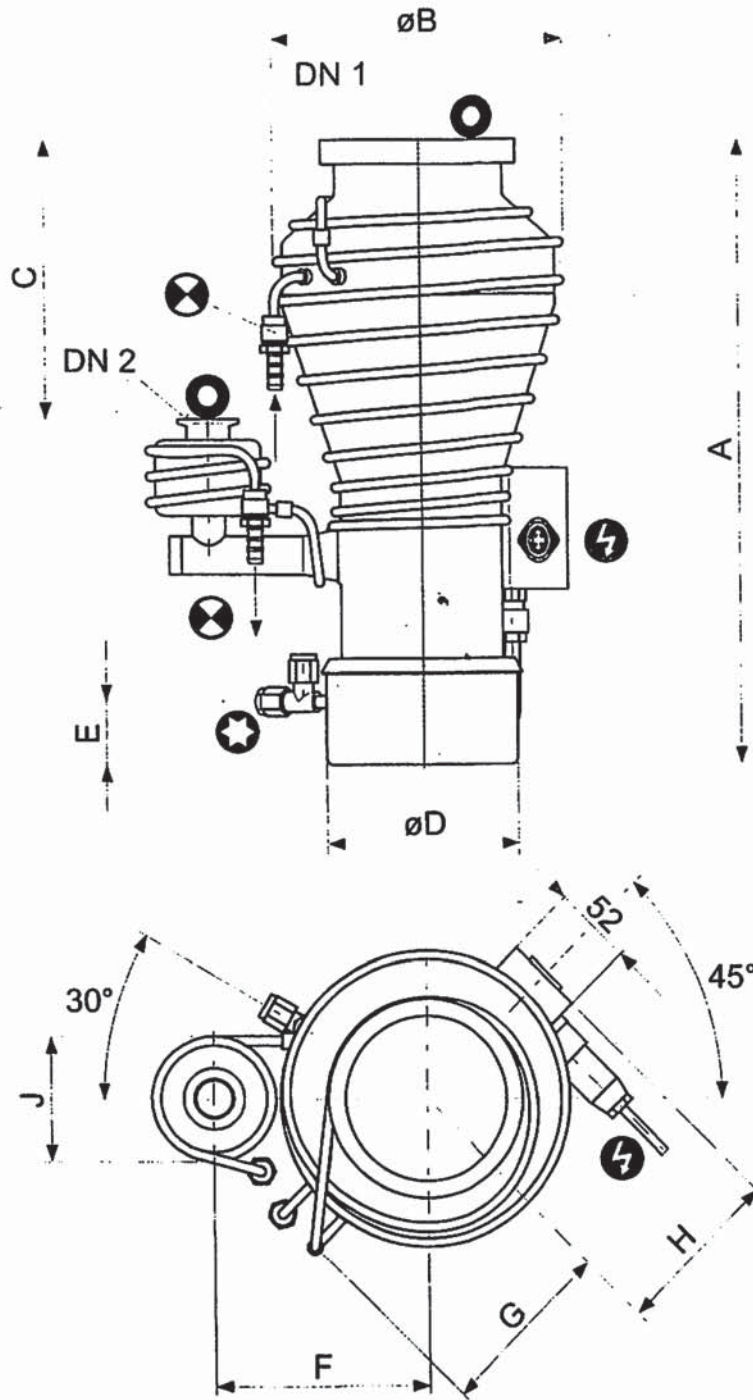
Diffusion pumps		PDI063-W	PDI100-W	PDI160-W	PDI250-W
Vacuum connections					
High vacuum connection clamp flange		DN 63 ISO-K	DN 100 ISO-K	DN 160 ISO-K	DN 250 ISO-K
Fore vacuum connection small flange		DN 16 ISO-KF	DN 25 ISO-KF	DN 25 ISO-KF	DN 40 ISO-KF
Supply voltage	V~	230 /	230 / 115	230 / 115	230 / 115
frequency	Hz	50 /	50 / 60	50 / 60	50 / 60
Power consumption	W	400	650	1275	2400
Pumping speed for air¹⁾	l/s	150	300	650	1750
Fore vacuum stability²⁾	mbar	0.8	0.8	0.8	0.8
Pump fluid filling capacity					
min.	cm ³	50	80	150	450
max.	cm ³	70	120	300	1000
Heating time	min	10	12	15	25
Cooling time	min	20	24	30	55
Recommended pumping speed of the roughing pump for an operating pressure					
> 10 ⁻⁴ mbar	m ³ /h	4	8	16	60
< 10 ⁻⁴ mbar	m ³ /h	4	4	8	30
Thermostatic cut-out		built-in	built-in	built-in	built-in
Cooling water requirements		→ 17	→ 17	→ 17	→ 17
Materials					
housing		stainless steel	stainless steel	stainless steel	stainless steel
inside bottom surface		steel	steel	steel	steel
jet system		Al	Al	Al	Al
seals		viton	viton	viton	viton
Weight	kg	4	8.5	14.5	30

¹⁾ Values measured according to DIN 28427, gauge calibrated with ball friction manometer. Experiments have shown that when other gauges and/or measuring methods (e.g. AVS) are used for measuring the pumping speed of pumps with the same size high vacuum flange, values up to 40 % higher result.

²⁾ According to PNEUROP, measured with pump fluid 66 A.

Abmessungen [mm]

Dimensions [mm]



- | | | | |
|--|------------------------------------|--|--|
| | Kühlwasseranschluss | | Cooling water connection |
| | Vakuumananschluss | | Vacuum connection |
| | Betriebsmittelkontrolle und Ablass | | Pump fluid filler control port and drain |
| | Elektrischer Anschluss | | Power connection |

	DN1	DN2	A	$\varnothing B$	C	$\varnothing D$	E	F	G	H	J	
✓ PDI063-W	DN 63 ISO-K	DN 16 ISO-KF	360	150	169	100	46	115	101	120	72	$\varnothing 10 / G \frac{1}{4}''$
PDI100-W	DN 100 ISO-K	DN 25 ISO-KF	412	194	184	128	42	145	120	135	82	$\varnothing 10 / G \frac{1}{4}''$
PDI160-W	DN 160 ISO-K	DN 25 ISO-KF	570	290	269	172	53	192	185	160	106	$\varnothing 10 / G \frac{1}{4}''$
PDI250-W	DN 250 ISO-K	DN 40 ISO-KF	690	450	330	272	60	295	265	212	150	$\varnothing 10 / G \frac{1}{4}''$