

TECHNICAL DATA

The following table lists the main technical data of the DS102 1Ph, DS202 1Ph, DS302 1Ph, DS402 1Ph, DS402 3Ph, DS602 1Ph and DS602 3Ph pumps.

TECHNICAL DATA	Hz	UNITS	DS102	DS202	DS302	DS402	DS602
FREE AIR DISPLACEMENT	60	l/min (cfm)	114 (4)	192 (6,8)	285 (10)	410 (14,5)	605 (21,4)
	50	l/min (m ³ /h)	95 (5,7)	160 (9,6)	237 (14,2)	342 (20,5)	540 (30,2)
PUMPING SPEED *	60	cfm	3,5	5,8	8,2	12,3	18,3
	50	m ³ /h	5	8,3	11,6	17,4	26
ULTIMATE PARTIAL PRESSURE *		mbar	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
ULTIMATE TOTAL PRESSURE *		mbar	2·10 ⁻³	2·10 ⁻³	2·10 ⁻³	2·10 ⁻³	2·10 ⁻³
ULTIMATE TOTAL PRESSURE WITH GAS BALLAST *		mbar	2·10 ⁻²	2·10 ⁻²	2·10 ⁻²	1·10 ⁻²	1·10 ⁻²
WATER VAPOR TOLERANCE		mbar	15	15	20	30	30
WATER VAPOR CAPACITY		g/h	60	100	160	350	550
OIL CAPACITY min/max		l	0,3/0,5	0,4/0,6	0,4/0,6	0,6/1	0,6/1
MOTOR RATING 1ph	50/60	kW	0,45/0,55	0,45/0,55	0,45/0,55	0,75/0,90	0,75/0,90
MOTOR RATING 3ph	50/60	kW				0,75/0,90	0,75/0,90
NOMINAL ROTATION SPEED	50	rpm	1500	1500	1500	1500	1500
	60	rpm	1800	1800	1800	1800	1800
OIL TEMPERATURE (pump operating) **		°C	50	50	52	70	72
		°F	122	122	126	158	162
Installation category	II						
Pollution degree	2						
OPERATING TEMPERATURE RANGE		°C	12 - 40	12 - 40	12 - 40	12 - 40	12 - 40
WEIGHT		Kg	22	24	24	36	36
		lb	48	53	53	79	79
INLET FLANGE		DN	25KF	25KF	25KF	25KF	25KF
EXHAUST FLANGE		DN	25KF	25KF	25KF	25KF	25KF
Dimensions (cf. also next table):							
- length, 1ph		mm	454	491	491	530	530
- width		mm	134	134	134	164	164
- height		mm	212	212	212	242	242
Input single phase versions ***							
Nominal voltages:	50	V	<u>100</u> 200-240	<u>100</u> 200-240	<u>100</u> 200-240	<u>100</u> 200-240	<u>100</u> 200-240
	60	V	<u>100-120</u> 200-230	<u>100-120</u> 200-230	<u>100-120</u> 200-230	<u>100-120</u> 200-230	<u>100-120</u> 200-230
Maximum currents:	50	A	<u>8,8</u> 5,4	<u>8,8</u> 5,4	<u>8,8</u> 5,4	<u>11,8</u> 6,2	<u>11,8</u> 6,2
	60	A	<u>8,8</u> 4,4	<u>8,8</u> 4,4	<u>8,8</u> 4,4	<u>12,8</u> 6,4	<u>1,8</u> 6,4

* According to PNEUROP 6602

** At ultimate total pressure, 20 °C (68 °F) room temperature

*** For more details about the electrical motors see pages from 17 to 20