

JDW

self-priming "JET" pumps
(for deep wells)

PERFORMANCE RANGE

Flow rate up to 3600 l/h

OPERATING LIMITS

Suction lift up to 45 m

Fluid temperature up to + 40°C

Maximum ambient temperature + 40°C



JDWm 1



CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1

IEC 335-1

CEI 61-150

EN 60034-1

IEC 34-1

CEI 2-3

PUMP INSTALLATION AND APPLICATIONS

These pumps are suitable for pumping clean water and fluids which are not chemically aggressive to the pump components.

The **JDW** series installed above ground with the jet body submerged guarantees functioning even when the static level of the well water falls as far as 45 meters below the level of the installed pump.

FOR THIS REASON THESE PUMPS ARE EXTREMELY RELIABLE, ECONOMICAL AND SIMPLE TO USE AND FIND MANY USES IN DOMESTIC APPLICATIONS AND THE AUTOMATIC DISTRIBUTION OF WATER FROM SMALL AND MEDIUM-SIZED SURGE TANKS, FOR WATERING GARDENS, ETC. IN ALL CASES WHERE THE SUCTION DEPTH EXCEEDS THE NORMAL CAPACITY (9 METERS) FOR SURFACE PUMPS.

Always install a retention valve on the jet body opening. It is advisable to install a valve on the pump delivery opening, to ensure adequate counter-pressure when working.

Fill the pump body and the piping connecting the pump to the jet body with water before starting up.

Only 4" ejector (and model JDW 2) can be installed directly onto the pump body. In this case, when first starting up fill the pump body with water, without having to fill the suction piping.

These pumps should be installed in a covered area, protected against weather.

WARRANTY: 2 YEARS

(according to our general sales conditions).

STRUCTURAL CHARACTERISTICS

- **PUMP BODY:**
cast iron, with UNI ISO 228/1 gas threaded suction and delivery openings.
- **JET BODY:** cast iron.
- **IMPELLER:** brass centrifugal radial flow type (technopolymer on request).
- **MOTOR SHAFT:** AISI 430F stainless steel (AISI 416 up to 0.50 kW).
- **MECHANICAL SEAL:** ceramic and graphite.
- **MOTOR:**
the pumps are coupled to an asynchronous, high efficiency PEDROLLO induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. INSULATION class F (class B up to 0.75 kW).
The thermal cutout relay (motor protector) is incorporated in all single phase motors.
Three phase motors require an adequate external motor protector, with connections according to current standards.
- **PROTECTION:** IP 44.



4"

JDW pumps for 4" wells (with submerged ejector)



PERFORMANCE RANGE

Suction lift down to 45 m
Flow rate up to 3600 l/h

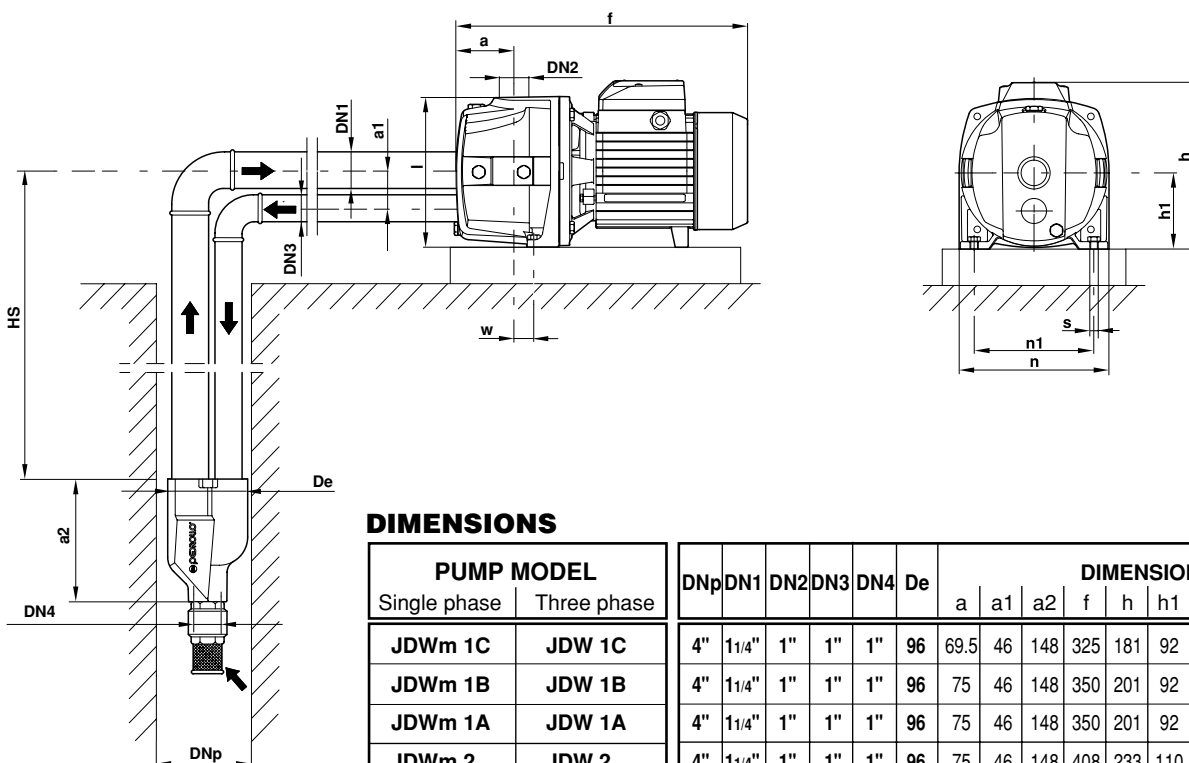
PERFORMANCE DATA AT n = 2900 1/min

(WITH EXTERNAL EJECTOR)

PUMP MODEL		POWER		HS (m)	FLOW RATE LITRES/HOUR																								
					TOTAL DYNAMIC HEAD IN METERS																								
Single phase	Three phase	kW	HP		0	120	240	360	480	600	720	840	960	1080	1200	1440	1560	1680	1800	1920	2040	2160	2400	2700	3000	3300	3600		
JDWm 1C/30-4"	JDW 1C/30-4"	0.50	0.70	15	41	37	32	29	25	23	20	18	16	14	12														
JDWm 1B/30-4"	JDW 1B/30-4"	0.60	0.85		45	41	37	33	30	27	24	22	20	18	16	12													
JDWm 1A/30-4"	JDW 1A/30-4"	0.75	1		53	50	46	42	39	37	34	31	29	27	24	20													
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5		81	75	70	65	61	57	53	50	47	44	41	35	32.5	30											
JDWm 1C/20-4"	JDW 1C/20-4"	0.50	0.70		28	24	22	21	19	18	16	14	13	12	11	10	9												
JDWm 1B/20-4"	JDW 1B/20-4"	0.60	0.85		31	28	26	25	23	21.5	20	18.5	17	16	15	13	12.5	11.5											
JDWm 1A/20-4"	JDW 1A/20-4"	0.75	1		40	36	34	32	30	28	27	26	24.5	23	22	19	18	17	16	15	14								
JDWm 2/20-4"	JDW 2/20-4"	1.1	1.5		67	65	62	60	58	56	54	52.5	51	49	47	44	42.5	41	39.5	38	36	35	32	29					
JDWm 1C/10-4"	JDW 1C/10-4"	0.50	0.70		21	20	18	17	16	15.5	15	14	13	12	11.5	11	10	9.5	9										
JDWm 1B/10-4"	JDW 1B/10-4"	0.60	0.85		24	23	22	21	20	19.5	19	18	17	16	15.5	14	13.5	13	12	11									
JDWm 1A/10-4"	JDW 1A/10-4"	0.75	1	30	29	28	27	26	25.5	25	24	23	22	21	20	19.5	18.5	17.5	17	16	15								
JDWm 2/10-4"	JDW 2/10-4"	1.1	1.5	51	50	49	48	47	46	45	44.5	44	43	42	41	40	39	38	37	36.5	36	34.5	33	30.5	29	27			
JDWm 1C/30-4"	JDW 1C/30-4"	0.50	0.70	20	36	32	27	24	20	17	14	12																	
JDWm 1B/30-4"	JDW 1B/30-4"	0.60	0.85		38	34	31	28	25	21.5	19	17	14	12															
JDWm 1A/30-4"	JDW 1A/30-4"	0.75	1		46	42	38	34	31	28	25	22	20	18	16														
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5		74	68.5	63	59	54	50	46	43	40	37.5	35	32.5	30												
JDWm 2/20-4"	JDW 2/20-4"	1.1	1.5	30	58	56	53	51	49	47	45.5	44	42	40	39	36	35	33	32	31	30								
JDWm 1C/30-4"	JDW 1C/30-4"	0.50	0.70		23	19	15	12																					
JDWm 1B/30-4"	JDW 1B/30-4"	0.60	0.85		25	21	17	14																					
JDWm 1A/30-4"	JDW 1A/30-4"	0.75	1		32	27	22	18	15.5																				
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5	35	61	56	51	46.5	42	38	35	32.5	30																
JDWm 1A/30-4"	JDW 1A/30-4"	0.75	1		25	18.5	14																						
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5		54	49	45	40	36	33	30																		
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5	40	47	42.5	38	34	30																				
JDWm 2/30-4"	JDW 2/30-4"	1.1	1.5		45	40	35	30																					

HS = SUCTION LIFT

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DNp	DN1	DN2	DN3	DN4	De	DIMENSIONS mm										
Single phase	Three phase							a	a1	a2	f	h	h1	l	n	n1	w	s
JDWm 1C	JDW 1C	4"	1 1/4"	1"	1"	1"	96	69.5	46	148	325	181	92	181	180	144	24	10
JDWm 1B	JDW 1B	4"	1 1/4"	1"	1"	1"	96	75	46	148	350	201	92	181	180	144	24	10
JDWm 1A	JDW 1A	4"	1 1/4"	1"	1"	1"	96	75	46	148	350	201	92	181	180	144	24	10
JDWm 2	JDW 2	4"	1 1/4"	1"	1"	1"	96	75	46	148	408	233	110	207	206	164	22	10

3"

JDW pumps for 3" wells (with submerged ejector)

PERFORMANCE RANGE

Suction lift down to 30 m
Flow rate up to 960 l/h



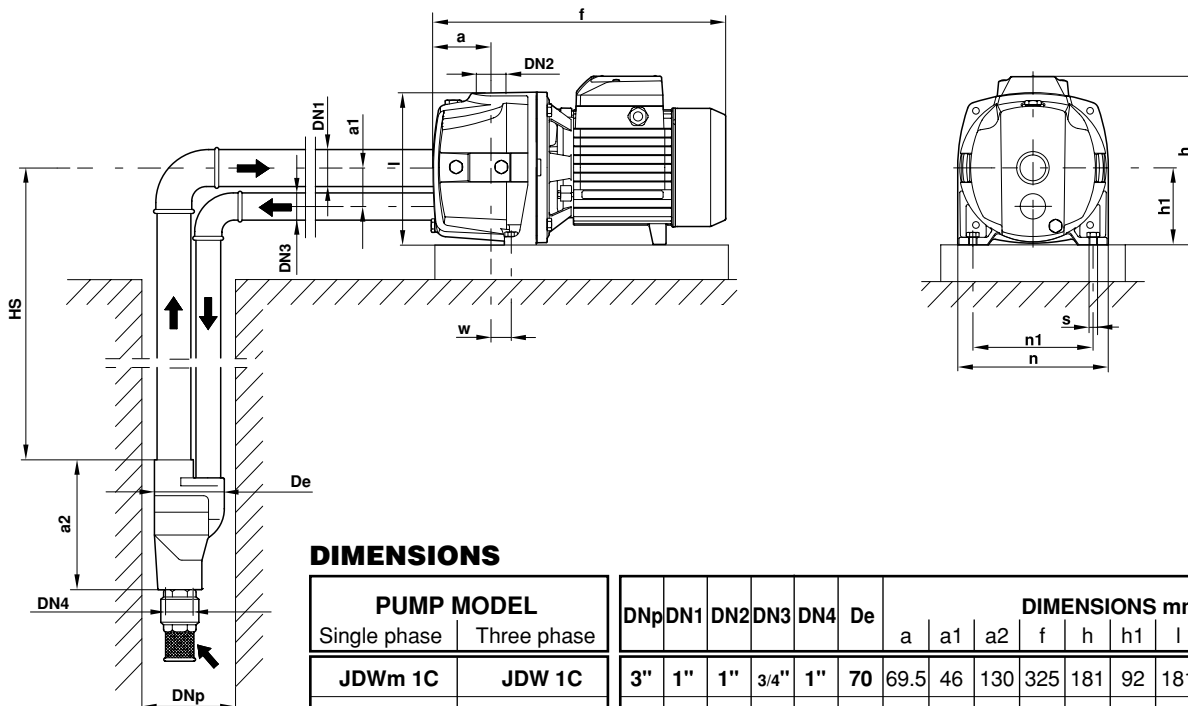
PERFORMANCE DATA AT n= 2900 1/min

(WITH EXTERNAL EJECTOR)

PUMP MODEL		POWER		HS m	FLOW RATE LITRES/HOUR								
Single phase	Three phase	kW	HP		0	120	240	360	480	600	720	840	960
					TOTAL DYNAMIC HEAD IN METERS								
JDWm 1C-3"	JDW 1C-3"	0.50	0.70	15	32	28	24	22	19	18	15		
JDWm 1B-3"	JDW 1B-3"	0.60	0.85		36	32	29	26	24	22	19	17	
JDWm 1A-3"	JDW 1A-3"	0.75	1		39	35	32	29	27	25	22	20	17
JDWm 2-3"	JDW 2-3"	1.1	1.5		61	56	51	46	42	38	35	33	30
JDWm 1C-3"	JDW 1C-3"	0.50	0.70	20	26	23	19	17					
JDWm 1B-3"	JDW 1B-3"	0.60	0.85		30	27	24	21	18				
JDWm 1A-3"	JDW 1A-3"	0.75	1		33	30	27	23	21	17			
JDWm 2-3"	JDW 2-3"	1.1	1.5		55	50	46	41	37	33	30		
JDWm 1C-3"	JDW 1C-3"	0.50	0.70	25	19	15							
JDWm 1B-3"	JDW 1B-3"	0.60	0.85		23	19							
JDWm 1A-3"	JDW 1A-3"	0.75	1		27	24	22						
JDWm 2-3"	JDW 2-3"	1.1	1.5		47	43	39	36	33				
JDWm 2-3"	JDW 2-3"	1.1	1.5	30	39	34	30						

HS = SUCTION LIFT

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DNp	DN1	DN2	DN3	DN4	De	DIMENSIONS mm										
Single phase	Three phase							a	a1	a2	f	h	h1	l	n	n1	w	s
JDWm 1C	JDW 1C	3"	1"	1"	3/4"	1"	70	69.5	46	130	325	181	92	181	180	144	24	10
JDWm 1B	JDW 1B	3"	1"	1"	3/4"	1"	70	69.5	46	130	350	201	92	181	180	144	24	10
JDWm 1A	JDW 1A	3"	1"	1"	3/4"	1"	70	69.5	46	130	350	201	92	181	180	144	24	10
JDWm 2	JDW 2	3"	1"	1"	3/4"	1"	70	75	46	130	408	233	110	207	206	164	22	10

2"

JDW pumps for 2" wells (with submerged ejector)

PERFORMANCE RANGE

Suction lift down to 45 m
Flow rate up to 1200 l/h



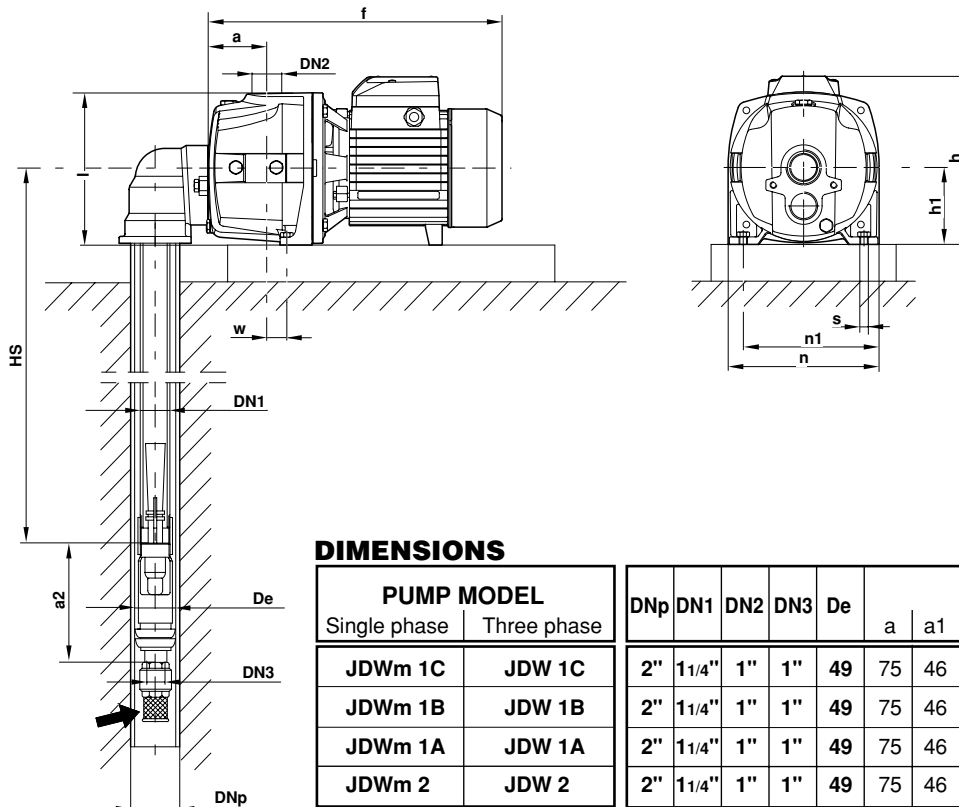
PERFORMANCE DATA AT n= 2900 1/min

(WITH EXTERNAL EJECTOR)

TIPO		POTENZA		HS m	FLOW RATE LITRES/HOUR										
Monofase	Trifase	kW	HP		0	120	240	360	480	600	720	840	960	1080	1200
TOTAL DYNAMIC HEAD IN METERS															
JDWm 1C-2"	JDW 1C-2"	0.50	0.70	15	46	42	37	34	30	28	25	22	19	17	
JDWm 1B-2"	JDW 1B-2"	0.60	0.85		50	46	42	39	35	32	30	27	24	21	19
JDWm 1A-2"	JDW 1A-2"	0.75	1		54	50	46	43	39	36	34	31	28	25	23
JDWm 2-2"	JDW 2-2"	1.1	1.5		85	78	74	70	66	61	57	53	48	44	40
JDWm 1C-2"	JDW 1C-2"	0.50	0.70	20	34	29	24	21	18	16	13	11			
JDWm 1B-2"	JDW 1B-2"	0.60	0.85		38	33	29	26	23	21	18	16	14		
JDWm 1A-2"	JDW 1A-2"	0.75	1		40	35	31	28	25	23	20	18	16		
JDWm 2-2"	JDW 2-2"	1.1	1.5		71	63	58	54	50	46	43	39	36	34	
JDWm 1C-2"	JDW 1C-2"	0.50	0.70	25	28	24	20	18	15	13					
JDWm 1B-2"	JDW 1B-2"	0.60	0.85		32	28	25	23	20	17	14				
JDWm 1A-2"	JDW 1A-2"	0.75	1		35	31	28	26	23	20	17				
JDWm 2-2"	JDW 2-2"	1.1	1.5		64	59	55	51	47	43	39	36			
JDWm 1C-2"	JDW 1C-2"	0.50	0.70	30	23	18	13								
JDWm 1B-2"	JDW 1B-2"	0.60	0.85		27	22	18	15							
JDWm 1A-2"	JDW 1A-2"	0.75	1		28	24	21	17							
JDWm 2-2"	JDW 2-2"	1.1	1.5		56	50	46	42	38	34	31				
JDWm 1B-2"	JDW 1B-2"	0.60	0.85	35	21	15									
JDWm 1A-2"	JDW 1A-2"	0.75	1		23	18	15								
JDWm 2-2"	JDW 2-2"	1.1	1.5		51	45	41	37	33						
JDWm 2-2"	JDW 2-2"	1.1	1.5		41	36	33								
JDWm 2-2"	JDW 2-2"	1.1	1.5	45	36	30									

HS = SUCTION LIFT

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DNp	DN1	DN2	DN3	De	DIMENSIONS mm										
Single phase	Three phase						a	a1	a2	f	h	h1	l	n	n1	w	s
JDWm 1C	JDW 1C	2"	1 1/4"	1"	1"	49	75	46	123	374	206	97	184	190	149	24	10
JDWm 1B	JDW 1B	2"	1 1/4"	1"	1"	49	75	46	123	374	206	97	184	190	149	24	10
JDWm 1A	JDW 1A	2"	1 1/4"	1"	1"	49	75	46	123	374	206	97	184	190	149	24	10
JDWm 2	JDW 2	2"	1 1/4"	1"	1"	49	75	46	123	408	233	110	207	206	164	22	10