

JCR

self-priming "JET" pumps
(stainless steel pump body)



JCRm 1



PERFORMANCE RANGE

Flow rate up to 80 l/min (4.8 m³/h)
Dynamic head up to 72 m

OPERATING LIMITS

Suction lift up to 9 m
Fluid temperature up to + 40°C
Maximum ambient temperature + 40°C

CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1	EN 60034-1
IEC 335-1	IEC 34-1
CEI 61-150	CEI 2-3

CONSTRUCTION

Monoblock self-priming centrifugal pumps with ejector housed in the pump body.

PUMP INSTALLATION AND APPLICATIONS

THESE PUMPS ARE SUITABLE FOR PUMPING CLEAN WATER AND FLUIDS WHICH ARE NOT CHEMICALLY AGGRESSIVE TO THE PUMP COMPONENTS EVEN IN THE PRESENCE OF ENTRAPPED AIR IN THE FLUID BEING PUMPED.

THEY ARE EXTREMELY RELIABLE, LIGHT, ECONOMICAL AND SIMPLE TO USE, FINDING MANY USES IN DOMESTIC APPLICATIONS, IN PARTICULAR THE AUTOMATIC DISTRIBUTION OF WATER FROM SMALL AND MEDIUM-SIZED SURGE TANKS, FOR WATERING GARDENS, ETC.

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

N.B. It is always advisable to install a foot valve or a non return valve on the suction opening.

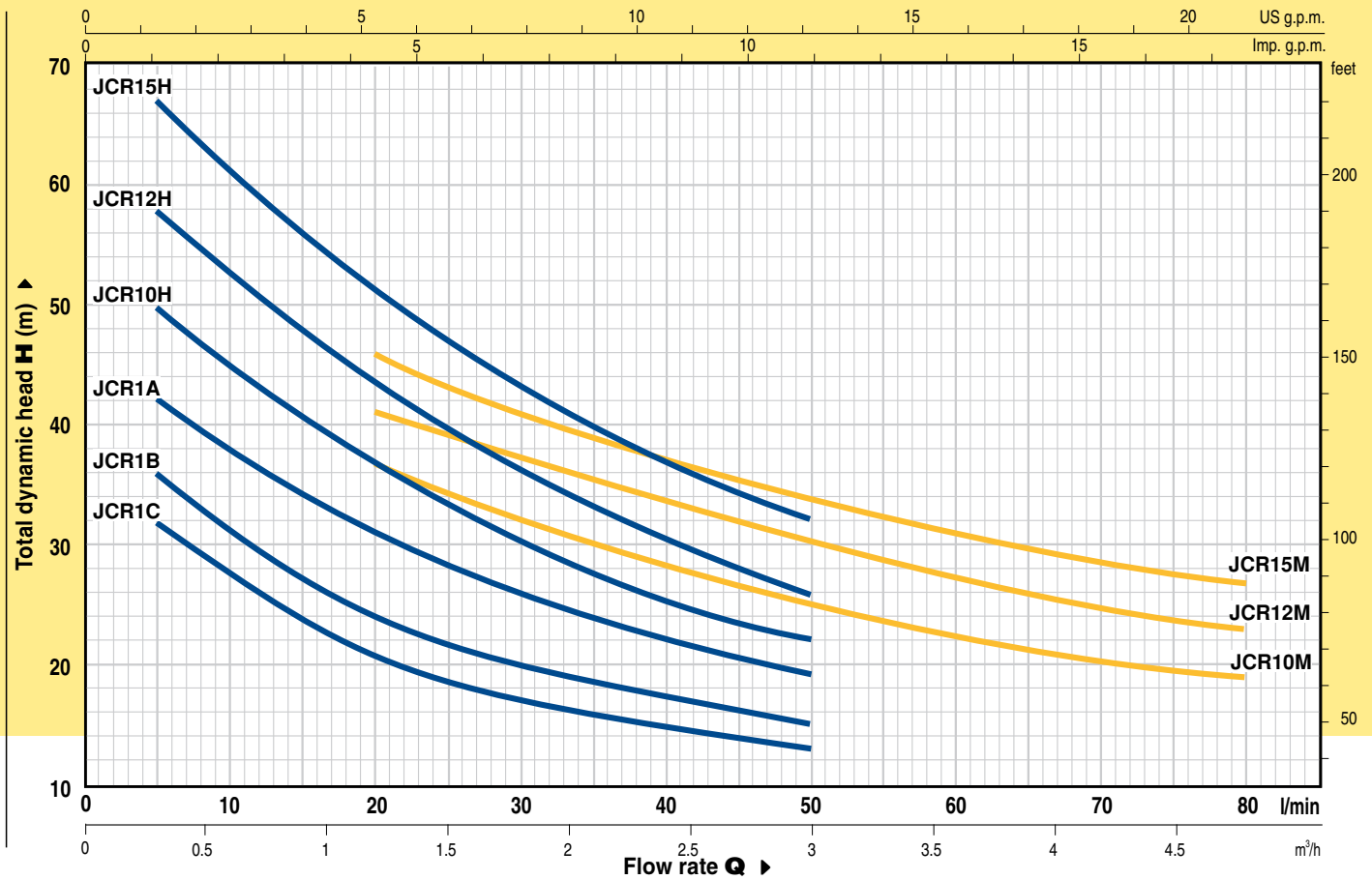
WARRANTY: 2 YEARS

(according to our general sales conditions).

STRUCTURAL CHARACTERISTICS

- **PUMP BODY:**
AISI 304 stainless steel, with UNI ISO 228/1 gas threaded suction and delivery openings.
- **PUMP BODY COVER:** AISI 304 stainless steel, serving also as mechanical seal housing.
- **EJECTOR UNION:**
"General Electric" Noryl® technopolymer (approved for drinking water).
- **IMPELLER:** centrifugal radial flow in "General Electric" Noryl® technopolymer (approved for drinking water).
- **MOTOR SHAFT:** AISI 430F stainless steel (AISI416 up to 0.60 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 B (class F only 1.1 kW single phase).
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.

PERFORMANCE CHART AT n= 2900 1/min

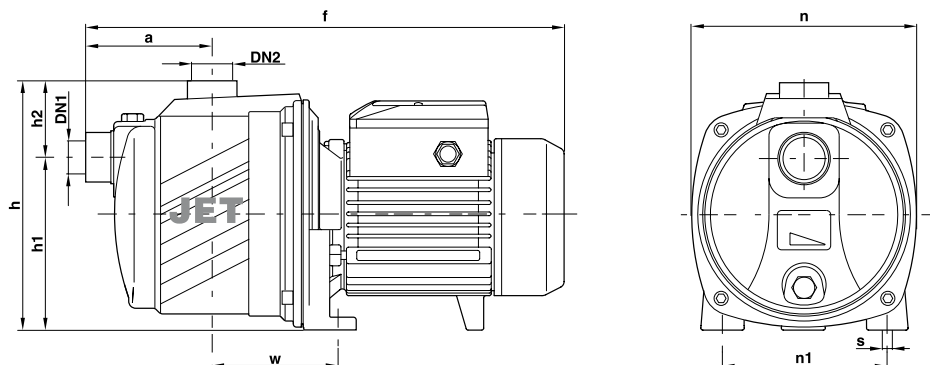


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h	H															
Single phase	Three phase	kW	HP		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8			
				l/min	0	5	10	15	20	25	30	35	40	50	60	70	80			
JCRm 1C	JCR 1C	0.37	0.50	H (m)	35	32	27	24	21	19	17	16	15	13						
JCRm 1B	JCR 1B	0.50	0.70		41	36	31	27	24	22	20	19	17	15						
JCRm 1A	JCR 1A	0.60	0.85		47	42	38	34	31	28.5	26	24	22	19						
JCRm 10H	JCR 10H	0.75	1		56	50	45	41	37	33	30	27	25	22						
JCRm 12H	JCR 12H	0.90	1.25		64	58	53	48	44	40	36	33	31	26						
JCRm 15H	JCR 15H	1.1	1.5		72	67	61	56	51	47	43	40	37	32						
JCRm 10M	JCR 10M	0.75	1		46	44	41	39	37	35	32	30	28	25	22	21	19			
JCRm 12M	JCR 12M	0.90	1.25		50	48	45	43	41	39	37	36	34	30	27	25	23			
JCRm 15M	JCR 15M	1.1	1.5		55	53	50	48	46	43	41	39	37	34	31	29	27			

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DN1	DN2	DIMENSIONS mm								
Single phase	Three phase			a	f	h	h1	h2	n	n1	w	s
JCRm 1C	JCR 1C	1"	1"	90	345	174	122	52	160	120	95	9
JCRm 1B	JCR 1B	1"	1"	90	345	174	122	52	160	120	95	9
JCRm 1A	—	1"	1"	90	353	174	122	52	160	120	95	9
—	JCR 1A	1"	1"	90	345	174	122	52	160	120	95	9
JCRm 10H-M	JCR 10H	1 1/4"	1"	117	406	206	145	55	184	135	110	10
JCRm 12H-M	JCR 12H	1 1/4"	1"	117	406	206	145	55	184	135	110	10
JCRm 15H-M	JCR 15H	1 1/4"	1"	117	406	206	145	55	184	135	110	10