

MADE IN ITALY



Multi-stage centrifugal electric pumps



Clean water



Domestic use



Civic use



*** INSTALLATION AND USE**

Thanks to quiet running and low power consumption these pumps are recommended for water supply and booster sets, for industrial applications, irrigation systems, etc.

*** EFFICIENT**

Thanks to their high hydraulic performance and the low costs of investment and maintenance, the FCR pumps reduce the electricity consumption.

*** SILENT OPERATION**

With the multi-stage construction, the operating noise is particularly reduced. The new electric motor, designed to operate with an inverter, has a silent operation.

***** COMPACT

The FCR pumps have small dimensions thus facilitating an easy installation even in small spaces.

PERFORMANCE RANGE

- Flow rate up to 130 l/min (7.8 m³/h)
- Head up to 67 m

APPLICATION LIMITS

- Manometric suction lift up to 7 m
- Liquid temperature between -10°C and +60°C
- Ambient temperature up to +40°C
- Max. working pressure 7 bar
- Continuous service \$1

INSTALLATION AND USE

Suitable for pumping clean water and liquids which are not chemically aggressive towards the materials from which the pump is made. Because of their reliability and extremely silent operation, these

pumps are recommended for domestic applications, in particular for pressuring and distributing water in combination with small or medium pressure tanks, for gardening and irrigating systems, etc.

OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- Other voltages or 60 Hz frequency
- WRAS certified electric pumps

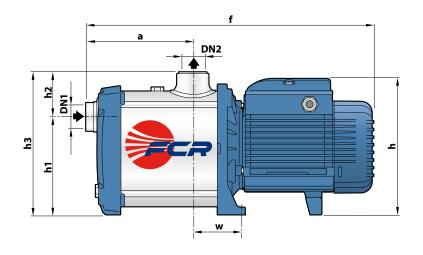


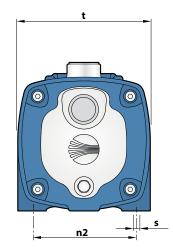
WARRANTY

2 years as per our general terms and conditions of sale



DIMENSIONS AND WEIGHTS





MODEL		PORTS		DIMENSIONS mm											kg		
Single phase	Three phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~		
FCRm 80/2	FCR 80/2				222	171	122	56	178	160	125			7.3	7.3		
FCRm 80/3	FCR 80/3			107	333									8.5	8.5		
FCRm 80/4	FCR 80/4			122	358									8.6	8.6		
FCRm 80/5	FCR 80/5	1"	1"	132	377	189						56.5	9	9.7	9.8		
FCRm 100/3	FCR 100/3			107	333	171								9.1	8.4		
FCRm 100/4	FCR 100/4			122	277	100								12.2	10.6		
FCRm 100/5	FCR 100/5			132	377	189								11.4	10.7		

(*) h=221 mm for single-phase versions at 110 V

ABSORPTION

MODEL	VOLTAGE							
Single phase	230 V	240 V						
FCRm 80/2	2.2 A	2.2 A						
FCRm 80/3	3.2 A	3.2 A						
FCRm 80/4	3.9 A	3.7 A						
FCRm 80/5	5.5 A	5.3 A						
FCRm 100/3	4.1 A	3.9 A						
FCRm 100/4	5.8 A	5.6 A						
FCRm 100/5	6.8 A	6.5 A						

MODEL			VOL	TAGE		
Three phase	230 V	400 V	690 V	240 V	415 V	720 V
FCR 80/2	1.7 A	1.0 A	0.6 A	1.7 A	1.0 A	0.6 A
FCR 80/3	2.5 A	1.5 A	0.9 A	2.4 A	1.4 A	0.8 A
FCR 80/4	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
FCR 80/5	4.3 A	2.5 A	1.4 A	4.2 A	2.4 A	1.4 A
FCR 100/3	3.4 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A
FCR 100/4	4.0 A	2.3 A	1.3 A	3.8 A	2.2 A	1.3 A
FCR 100/5	4.3 A	2.5 A	1.4 A	4.2 A	2.4 A	1.4 A

CAPACITOR

MODEL	CAPACITY	
Single phase	(230 V or 240 V)	
FCRm 80/2	10 μF - 450 VL	
FCRm 80/3	12.5 μF - 450 VL	
FCRm 80/4	14 μF - 450 VL	
FCRm 80/5	20 μF - 450 VL	
FCRm 100/3	14 μF - 450 VL	
FCRm 100/4	20 μF - 450 VL	
FCRm 100/5	25 μF - 450 VL	

CAPACITORS EN 60252-1/A1







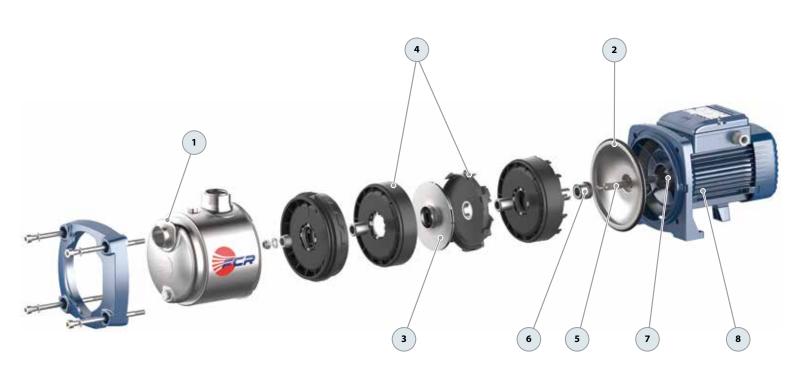
Multi-stage centrifugal electric pumps

POS.	COMPONENT	CONSTRUCTIO	NSTRUCTION CHARACTERISTICS												
1	PUMP BODY	AISI 304 stainless s	ISI 304 stainless steel with threaded ports in compliance with ISO 228/1												
2	COVER	Stainless steel AISI	ninless steel AISI 304												
3	IMPELLERS	Stainless steel AISI	ainless steel AISI 304												
4	DIFFUSERS	Noryl complete wi	Noryl complete with anti-wear rings												
5	MOTOR SHAFT	Stainless steel AISI	431												
6	MECHANICAL SEAL	Seal Model	Shaft Diameter	Stationary ring	Materials Rotational ring	Elastomer									
		AR-13	Ø 13 mm	Ceramic	Graphite	NBR									
7	BEARINGS	Electric pump	Model												
		FCR 80/2 FCR 80/3 FCR 80/4 FCR 100/3	6202 ZZ - C3 / 620)1 ZZ	Materials Rotational ring Elastomer										
		FCR 100/4 FCR 80/5 FCR 100/5	6203 ZZ / 6203 ZZ	2											
8	ELECTRIC MOTOR		hase 230 V - 50 Hz wi nase 230/400 V - 50 H		rload protecto	r incorporated into the winding.									

■ The three-phase pumps are fitted with high performance motors

in class IE3 (IEC 60034-30-1)

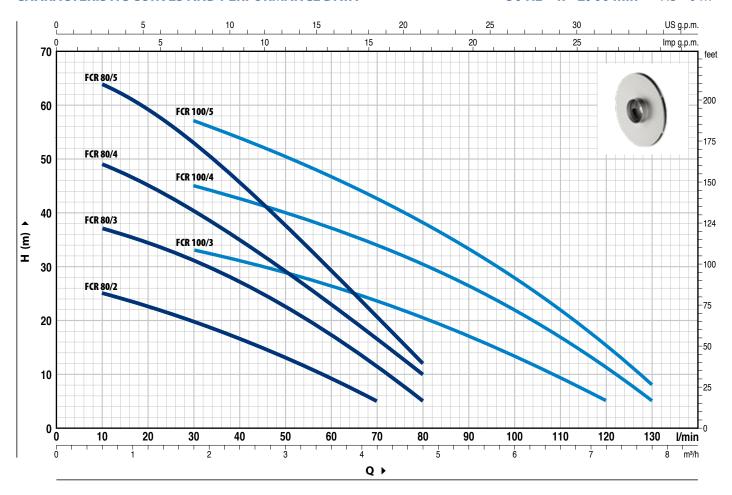
Insulation: class FProtection: IP X4



Multi-stage centrifugal electric pumps

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹ HS = 0 m



MODEL		POWER (P2)		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	
Single phase	Three phase	kW	HP	•	Q //min	0	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
FCRm 80/2	FCR 80/2	0.37	0.50			27	26	25	24	22.5	21	20	16.5	13	9	5						
FCRm 80/3	FCR 80/3	0.45	0.60	IE3		40	38	37	36	34.5	33	31	27	22.5	17	11	5					
FCRm 80/4	FCR 80/4	0.55	0.75			52	50	49	47	44.5	42	40	34	28.5	22.5	16	10					
FCRm 80/5	FCR 80/5	0.75	1		H metres	67	66	64	62	59	56	53	45.5	37.5	29.5	20.5	12					
FCRm 100/3	FCR 100/3	0.55	0.75			38	37	36	35	34.5	33.5	33	31	28	26	23	20	17	13.5	10	5	
FCRm 100/4	FCR 100/4	0.75	1			50	50	49	48	47	46	45	42	39.5	37	34	30.5	26.5	22	17	11	5
FCRm 100/5	FCR 100/5	1.1	1.5			63	62	61.5	60.5	59.5	58	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

Q = Flow rate **H** = Total manometric head **HS** = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)

















