FCR Stainless steel multi-stage centrifugal pumps

Clean water

Domestic use

Civil use



※ Quiet, energy-efficient stainless steel multi-stage pumps

※ Pump body: **Stainless steel AISI 304**
※ Cover: **Stainless steel AISI 304**
※ Impellers: **Stainless steel AISI 304**
※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

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

INSTALLATION AND USE

Quiet performance and efficient energy use make them perfect for water supply and pressurization tasks. They integrate with pressure tanks for optimal water distribution, making them suitable for a wide range of uses from industrial applications to irrigation systems.

KEY FEATURES

※ Stainless steel components extend service life and enhance efficiency.
※ Multi-stage design results in exceptionally quiet operation.

APPLICATION LIMITS

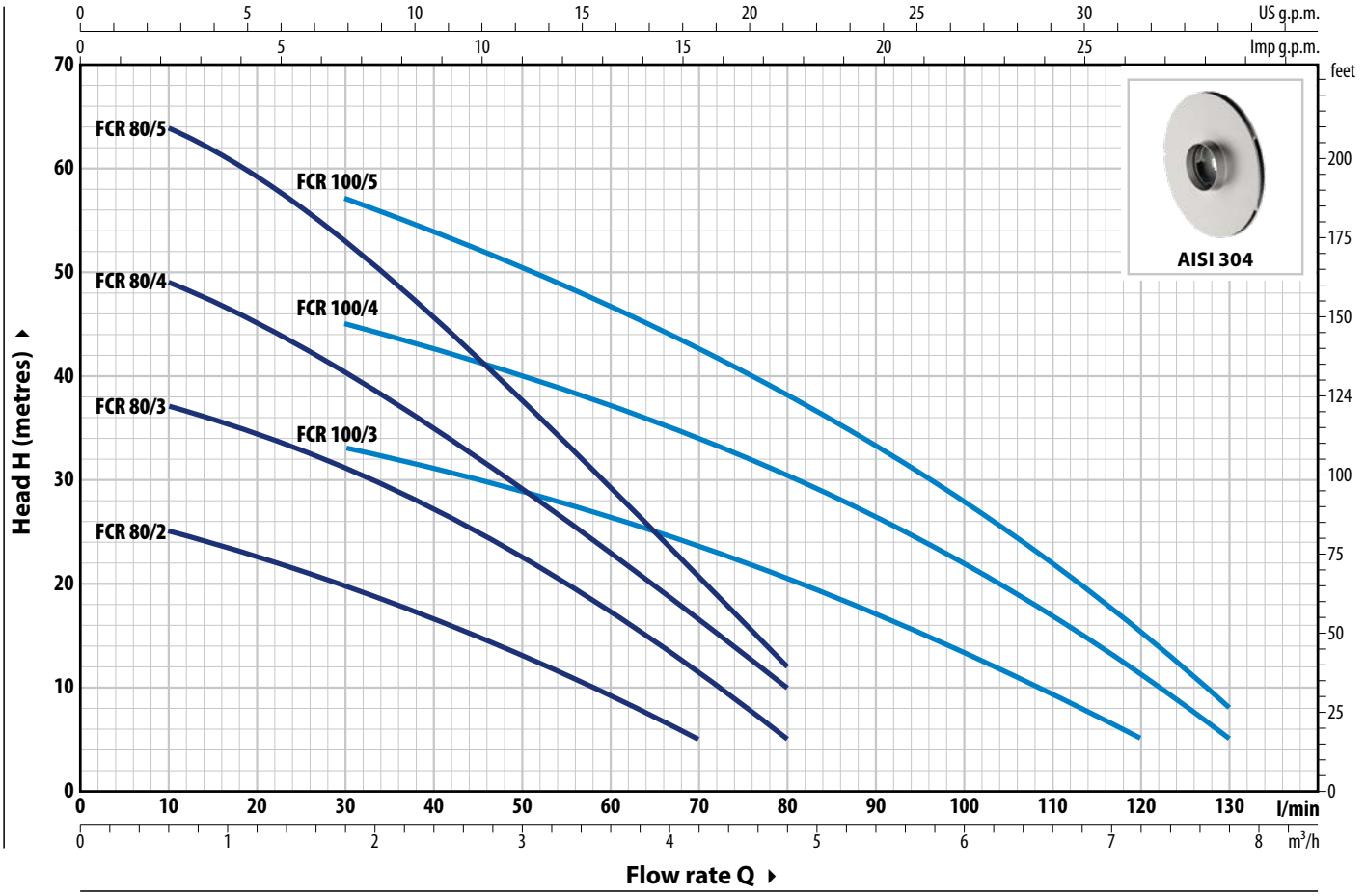
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **7 bar**

AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage or frequency
※ Certified pumps WRAS APPROVED PRODUCT

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P2)			Q	m³/h	0	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8
Single-ph.	**Three-ph.**	**kW**	**HP**	**3~**		l/min	**0**	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**
FCRm 80/2	**FCR 80/2**	0.37	0.50				27	26	25	22.5	20	16.5	13	9	5						
FCRm 80/3	**FCR 80/3**	0.45	0.60	**IE2**			40	38	37	34.5	31	27	22.5	17	11	5					
FCRm 80/4	**FCR 80/4**	0.55	0.75				52	50	49	44.5	40	34	28.5	22.5	16	10					
FCRm 80/5	**FCR 80/5**	0.75	1	**IE3**	**H**	m	67	66	64	59	53	45.5	37.5	29.5	20.5	12					
FCRm 100/3	**FCR 100/3**	0.55	0.75	**IE2**			38	37	36	34.5	33	31	28	26	23	20	17	13.5	10	5	
FCRm 100/4	**FCR 100/4**	0.75	1	**IE3**			50	50	49	47	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	59.5	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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

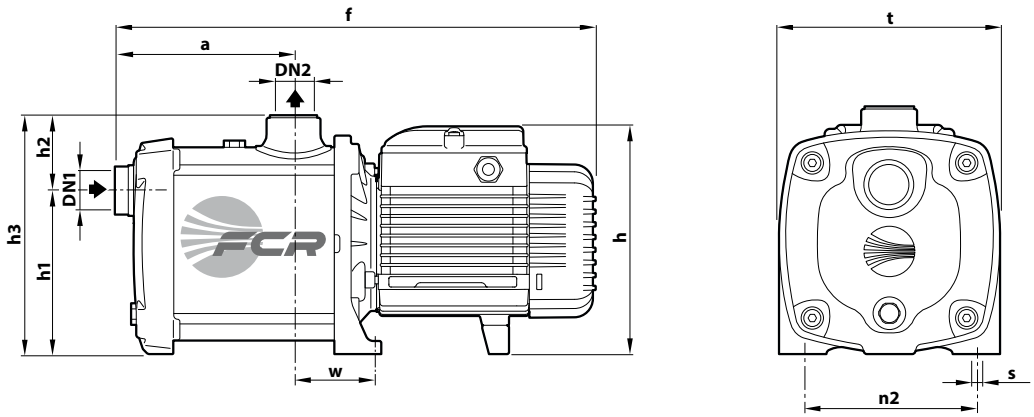
ABSORPTION

TYPE	VOLTAGE	
Single-phase	220 V	110 V
FCRm 80/2	2.5 A	5.0 A
FCRm 80/3	3.4 A	6.9 A
FCRm 80/4	4.5 A	9.0 A
FCRm 80/5	6.0 A	12.0 A
FCRm 100/3	5.0 A	10.0 A
FCRm 100/4	6.2 A	12.0 A
FCRm 100/5	6.6 A	–

TYPE	VOLTAGE	
Three-phase	220 V - Δ	380 V - Y
FCR 80/2	1.7 A	1.0 A
FCR 80/3	2.3 A	1.3 A
FCR 80/4	3.0 A	1.7 A
FCR 80/5	5.0 A	2.9 A
FCR 100/3	3.0 A	1.7 A
FCR 100/4	4.5 A	2.6 A
FCR 100/5	4.8 A	2.8 A

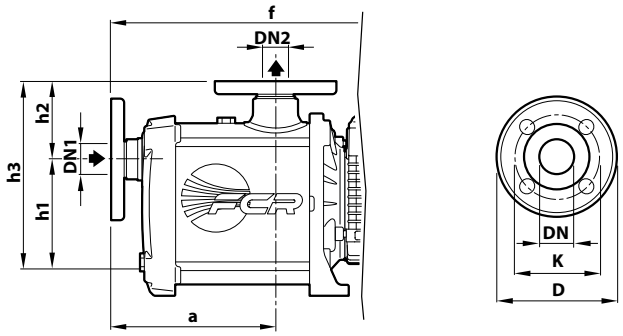
DIMENSIONS AND WEIGHT

WITH THREADED PORTS



MODEL		PORTS		DIMENSIONS mm										kg	
Single-ph.	Three-ph.	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
FCRm 80/2	FCR 80/2	1"	1"	107	333	171	122	56	178	160	125	56.5	9	6.9	6.9
FCRm 80/3	FCR 80/3													7.9	7.9
FCRm 80/4	FCR 80/4			132	358									9.3	9.1
FCRm 80/5	FCR 80/5				377	189								11.8	11.8
FCRm 100/3	FCR 100/3			107	333	171								8.8	8.1
FCRm 100/4	FCR 100/4			132	377	189								11.6	11.6
FCRm 100/5	FCR 100/5													12.4	12.1

WITH FLANGED PORTS



TYPE	PORTS		DIMENSIONS mm				
	DN1	DN2	a	f	h1	h2	h3
FCR 80/2	25	25	129	355	122	78	200
FCR 80/3							
FCR 80/4			154	380			
FCR 80/5				399			
FCR 100/3			129	355			
FCR 100/4			154	399			
FCR 100/5							

FLANGE	D	K	HOLES	
DN	mm	mm	N°	Ø (mm)
25	85	115	4	14
25	85	115	4	14

MATERIALS AND COMPONENTS

1	**Pump body**	Stainless steel **AISI 304**,provided with ISO 228/1 threaded ports
2	**Cover**	Stainless steel **AISI 304**
3	**Impellers**	Stainless steel **AISI 304**
4	**Diffusers**	Noryl™ complete with wear rings
5	**Mechanical seal**	

Seal	Shaft	Materials
AR-13	Ø 13 mm	Ceramic / Graphite / NBR

6	**Motor shaft**	Stainless steel **AISI 431**
7	**Electric motor**	**FCRm**: single-phase 220 V - 60 Hz with winding integrated thermal motor protection **FCR**: three-phase 220/380 V - 60 Hz – The three-phase pumps are fitted with high performance motors up to P2=0.55 kW in class IE2 and from P2=0.75 kW in class IE3 (IEC 60034-30-1) – Continuous running duty **S1**

