

-  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

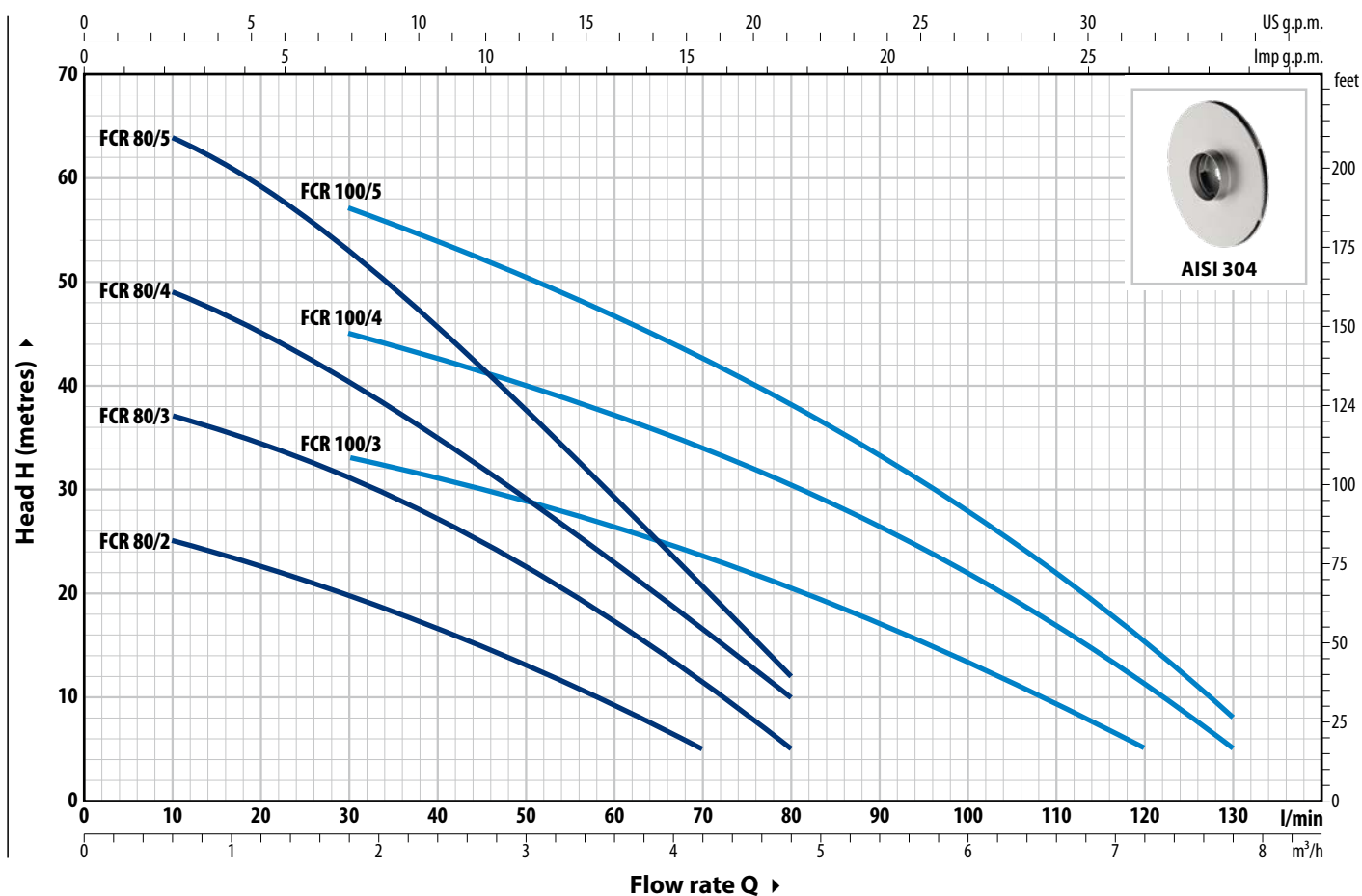
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **7 bar**

AVAILABLE UPON REQUEST

- ※ Mechanical seal options available
- ※ Different voltage or frequency
- ※ Certified pumps 

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P ₂)		3~	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			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	IE2	H metres	27	26	25	22.5	20	16.5	13	9	5							
FCRm 80/3	FCR 80/3	0.45	0.60			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		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.

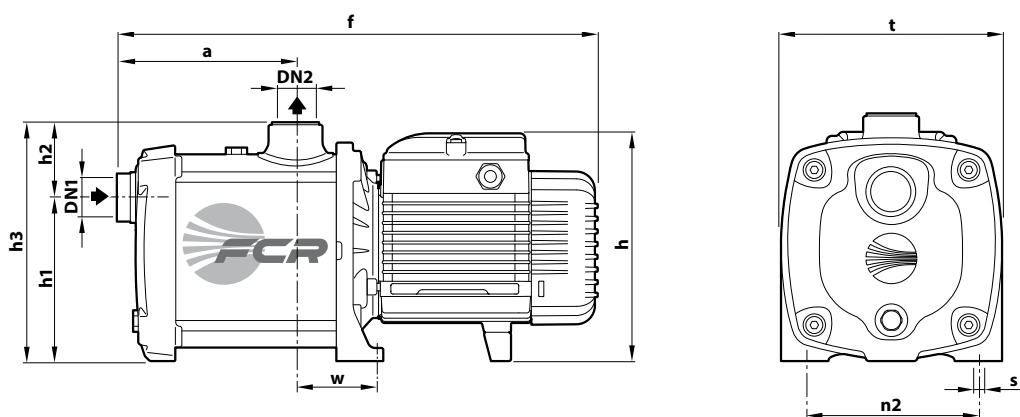
ABSORPTION

TYPE	VOLTAGE
Single-phase	220 V
FCRm 80/2	2.5 A
FCRm 80/3	3.4 A
FCRm 80/4	4.5 A
FCRm 80/5	6.0 A
FCRm 100/3	5.0 A
FCRm 100/4	6.2 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

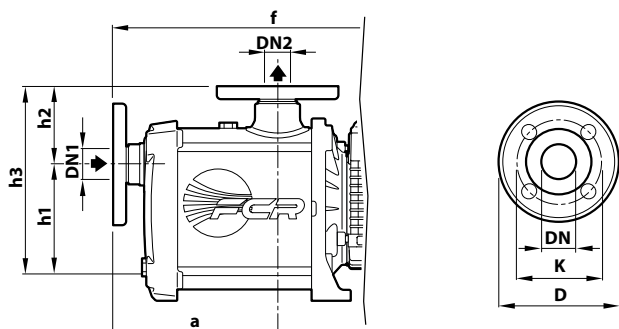
DIMENSIONS AND WEIGHT

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				358									7.9	7.9
FCRm 80/4	FCR 80/4				377									9.3	9.1
FCRm 80/5	FCR 80/5			132	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			154	380						
FCR 80/4				399						
FCR 80/5			129	355						
FCR 100/3			154	399						
FCR 100/4										
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

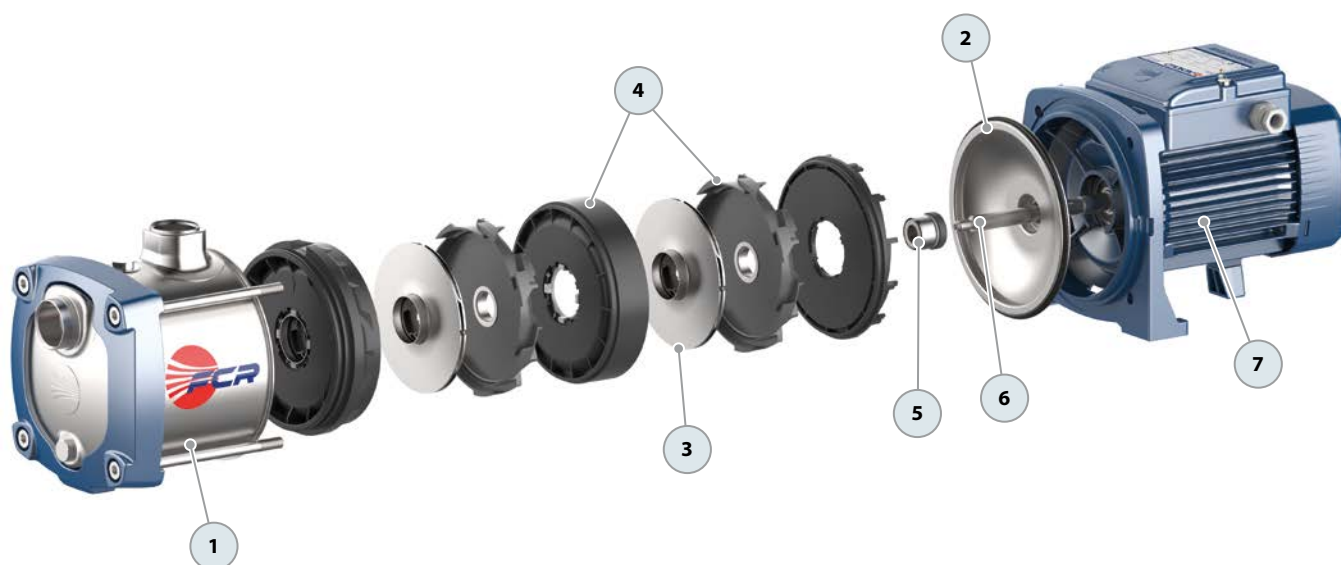
6 Motor shaft Stainless steel **AISI 431**

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**



-  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**
- ※ Diffusers: **Stainless steel AISI 304**
- ※ Impellers: **Stainless steel AISI 304**
- ※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **250 l/min** (15 m³/h)
- Head up to **113 m**

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and safe liquids that will not damage any of the pump's components. Highly reliable and quiet, they are suitable for domestic applications.

They work seamlessly with small to medium-sized pressure tanks, offering an ideal setup for all irrigation requirements.

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 **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **11 bar**

AVAILABLE UPON REQUEST

- ※ Technopolymer impeller (cost-effective version)
- ※ Mechanical seal options available
- ※ Different voltage or frequency
- ※ IPX5 protection
- ※ Certified pumps 

- ※ ISO 228/1 standard flanges for suction and discharge openings, made of AISI 304 stainless steel

DN1
G 1¼"

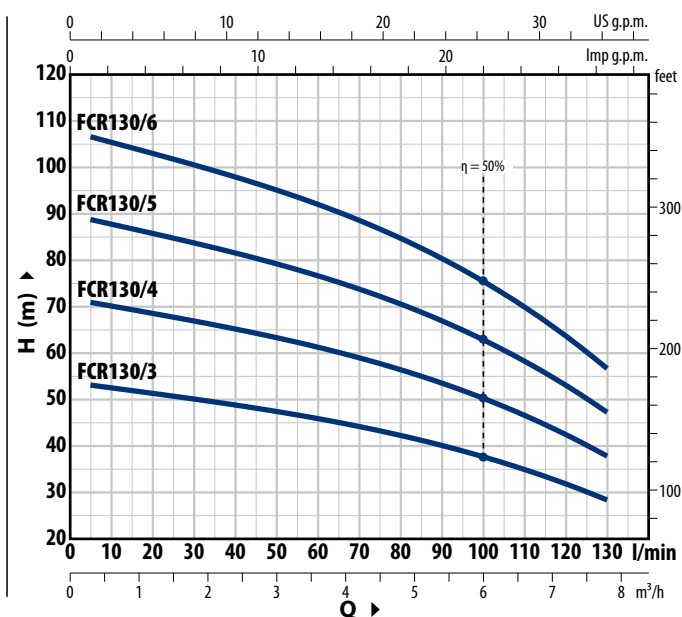
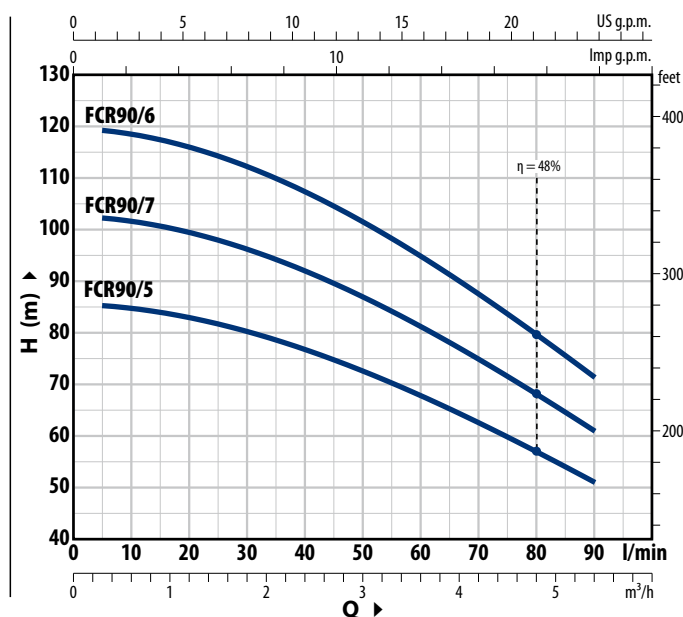


DN2
G 1"

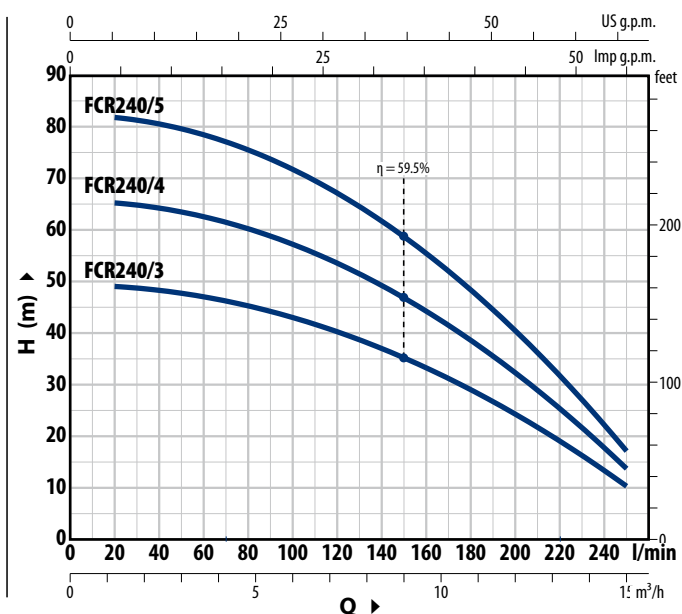
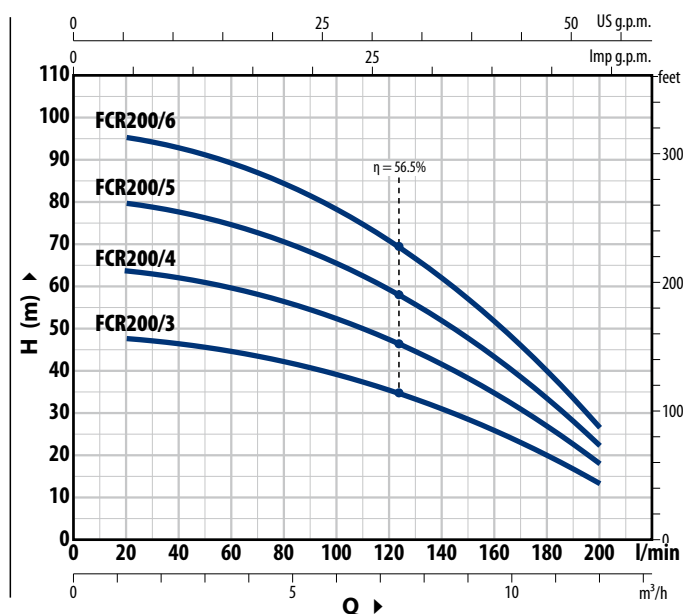


CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P ₂)		3~	Q	m³/h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6.0	7.8
Single-ph.	Three-ph.	kW	HP			l/min	0	5	10	20	40	60	80	90	100	130
FCRm 90/5	FCR 90/5	1.1	1.5	IE3	H metres	81	80	79	77	71	62.5	51	44			
FCRm 90/6	FCR 90/6	1.5	2			97	96	95	93	86	75	61	52			
FCRm 90/7	FCR 90/7	1.8	2.5			113	112	111	108	100	88	71	61			
FCRm 130/3	FCR 130/3	1.1	1.5	IE3	H metres	51.5	51.5	51	50.5	49	46.5	43	41	39	31	
FCRm 130/4	FCR 130/4	1.5	2			68.5	68.5	68	67	65	62	57.5	55	52	41	
FCRm 130/5	FCR 130/5	1.8	2.5			86	85	85	84	81	77	72	68.5	65	51.5	
FCRm 130/6	FCR 130/6	2.2	3			103	103	102	101	98	93	86	82	78	62	



TIPO		POTENZA (P ₂)		3~	Q	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	15
Monofase	Trifase	kW	HP			l/min	0	20	40	60	80	100	120	140	160	180	200	220	250
FCRm 200/3	FCR 200/3	1.1	1.5	IE3	H metres	47	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17			
FCRm 200/4	FCR 200/4	1.5	2			62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23			
FCRm 200/5	FCR 200/5	1.8	2.5			78	77.5	76	73	70	66	61	54.5	47	38.5	28.5			
FCRm 200/6	FCR 200/6	2.2	3			94	93	91	88	84	79	73	65.5	56.5	46	34.5			
FCRm 240/3	FCR 240/3	1.5	2	IE3	H metres	49.5	49	48.5	47	45.5	43	40.5	37	33.5	29	24.4	19.2	10.5	
FCRm 240/4	FCR 240/4	1.8	2.5			66	65.5	64.5	63	60.5	57.5	54	49.5	44.5	39	32.5	25.5	14	
FCRm 240/5	FCR 240/5	2.2	3			82	82	81	79	76	72	67.5	62	55.5	48.5	40.5	32	17.5	

Q = Portata H = Prevalenza manometrica totale HS = Altezza di aspirazione

Tolleranza delle curve di prestazione secondo EN ISO 9906 Grado 3B.

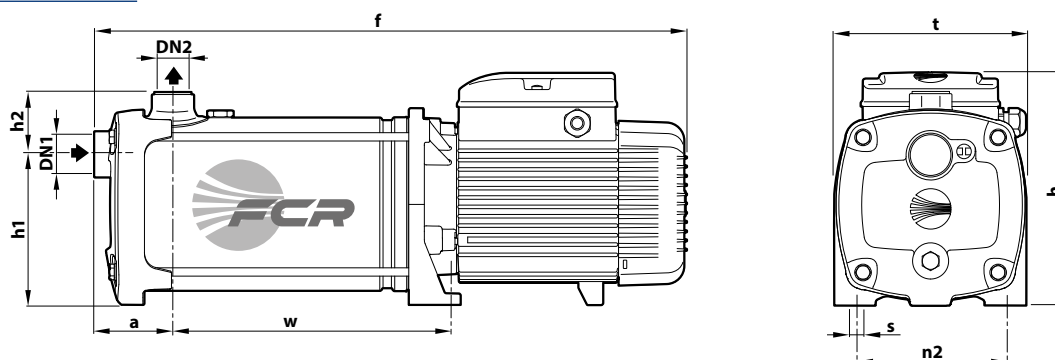
ABSORPTION

TYPE	VOLTAGE
Single-phase	220 V
FCRm 90/5	9.0 A
FCRm 90/6	10.5 A
FCRm 90/7	12.5 A
FCRm 130/3	8.0 A
FCRm 130/4	10.0 A
FCRm 130/5	11.8 A
FCRm 130/6	14.2 A
FCRm 200/3	8.0 A
FCRm 200/4	11.0 A
FCRm 200/5	12.5 A
FCRm 200/6	15.2 A
FCRm 240/3	n.a.
FCRm 240/4	n.a.
FCRm 240/5	n.a.

TYPE	VOLTAGE			
Three-phase	220 V - Δ	380 V - Δ	220 V - Δ	440 V - Δ
FCR 90/5	6.9 A	4.0 A	6.0 A	3.5 A
FCR 90/6	7.6 A	4.4 A	6.6 A	3.8 A
FCR 90/7	9.2 A	5.3 A	7.9 A	4.6 A
FCR 130/3	6.6 A	3.8 A	5.7 A	3.3 A
FCR 130/4	7.4 A	4.3 A	6.4 A	3.7 A
FCR 130/5	9.2 A	5.3 A	7.9 A	4.6 A
FCR 130/6	10.0 A	5.8 A	8.7 A	5.0 A
FCR 200/3	6.6 A	3.8 A	5.7 A	3.3 A
FCR 200/4	7.8 A	4.5 A	6.7 A	3.9 A
FCR 200/5	9.5 A	5.5 A	8.2 A	4.8 A
FCR 200/6	10.4 A	6.0 A	9.0 A	5.2 A
FCR 240/3	n.a.	n.a.	n.a.	n.a.
FCR 240/4	n.a.	n.a.	n.a.	n.a.
FCR 240/5	n.a.	n.a.	n.a.	n.a.

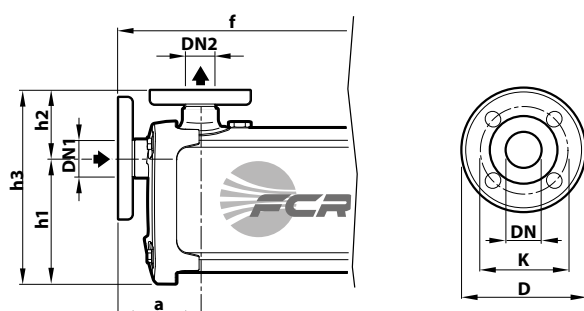
DIMENSIONS AND WEIGHT

※ WITH THREADED PORTS



TYPE		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	t	n2	w	s		1~	3~
FCRm 90/5	FCR 90/5	1 1/4"	1"	75	492	228	145	59	185	145	191	11		20.0	20.0
FCRm 90/6	FCR 90/6				518						217			22.0	22.0
FCRm 90/7	FCR 90/7				564						243			25.7	25.7
FCRm 130/3	FCR 130/3				440						139			18.0	18.0
FCRm 130/4	FCR 130/4				466						165			20.2	20.2
FCRm 130/5	FCR 130/5				512						191			23.7	23.7
FCRm 130/6	FCR 130/6				538						217			24.7	24.7
FCRm 200/3	FCR 200/3				440						139			18.0	18.0
FCRm 200/4	FCR 200/4				466						165			20.2	20.2
FCRm 200/5	FCR 200/5				512						191			23.7	23.7
FCRm 200/6	FCR 200/6				538						217			24.7	24.7
FCRm 240/3	FCR 240/3				440						139			19.2	19.2
FCRm 240/4	FCR 240/4				486						165			22.7	22.7
FCRm 240/5	FCR 240/5				512						191			23.7	23.7

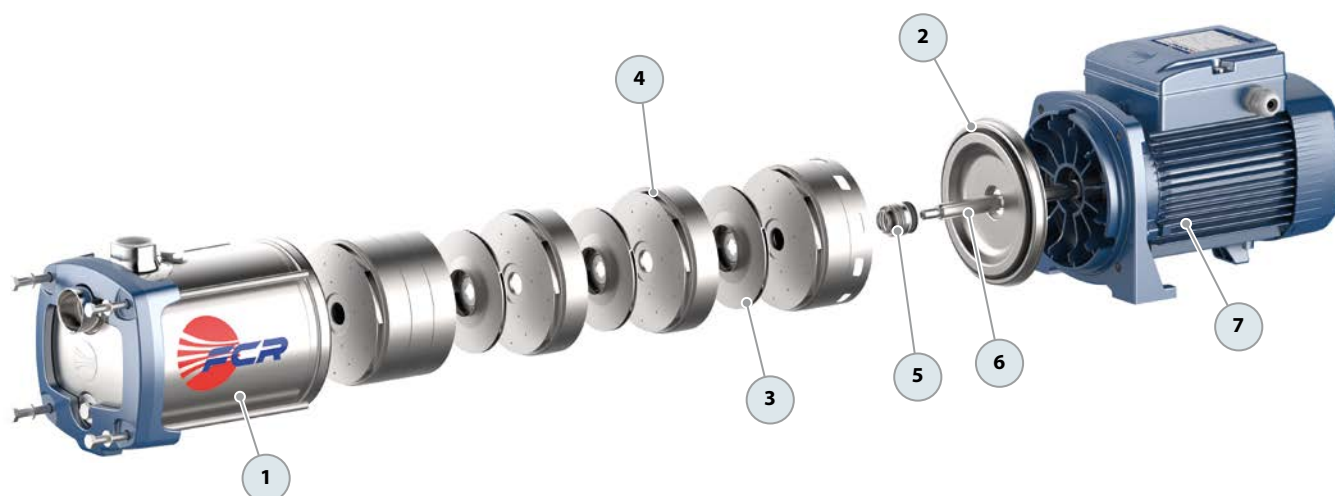
※ WITH FLANGED PORTS



TYPE	PORTS		DIMENSIONS mm				
	DN1	DN2	a	f	h1	h2	h3
FCR 90/5	25	32	97.5	515	145	82	227
FCR 90/6				541			
FCR 90/7				587			
FCR 130/3				463			
FCR 130/4				489			
FCR 130/5				535			
FCR 130/6				561			
FCR 200/3				463			
FCR 200/4				489			
FCR 200/5				535			
FCR 200/6				561			
FCR 240/3				463			
FCR 240/4				509			
FCR 240/5				535			
FLANGES DN	D (mm)	K (mm)	N° HOLES		Ø (mm)		
25	85	115	4		14		
32	100	140	4		18		

MATERIALS AND COMPONENTS

1 Pump body	Stainless steel AISI 304 with ISO 228/1 threaded ports		
2 Cover	Stainless steel AISI 304		
3 Impellers	Stainless steel AISI 304		
4 Diffusers	Stainless steel AISI 304		
5 Mechanical seal	Seal FN-18	Shaft Ø 18 mm	Materials Graphite / Ceramic / 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 or 220/440 V - 60 Hz – The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1) – Continuous running duty S1		



-  Clean water
-  Civil use
-  Industrial use



※ Low noise, low energy stainless steel multi-stage pumps

- ※ Pump body: **Stainless steel AISI 304**
- ※ Cover: **Stainless steel AISI 304**
- ※ Diffusers: **Stainless steel AISI304**
- ※ Impellers: **Stainless steel AISI 304**
- ※ Shaft: **Stainless steel AISI 431**

PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **104 m**

INSTALLATION AND USE

Due to their silent operation and energy efficiency, these pumps are ideal for water supply and pressurization, water distribution in conjunction with autoclaves, industrial uses, and 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 **-15 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **12 bar**

AVAILABLE UPON REQUEST

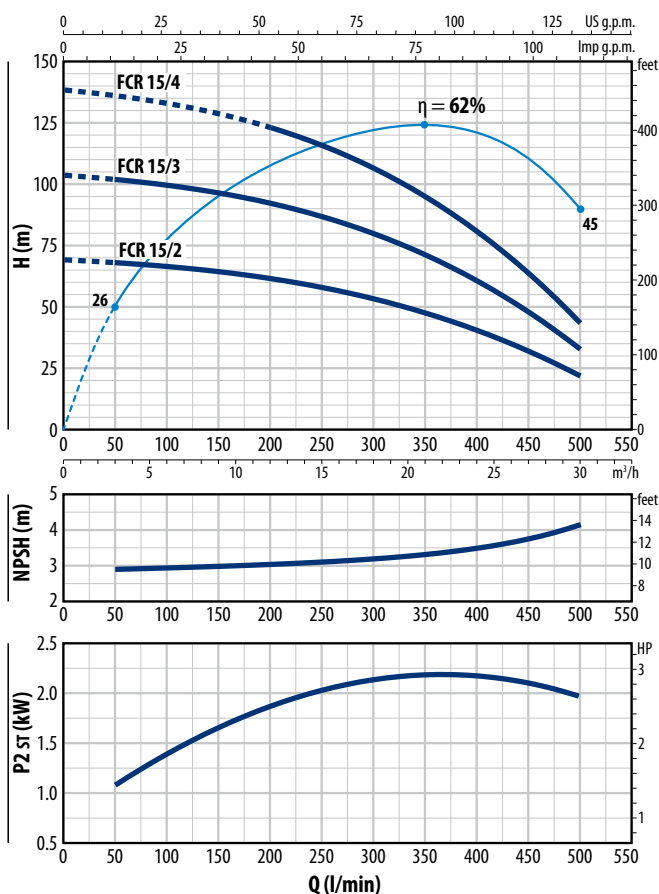
- ※ AISI 316 stainless steel pump.
- ※ Handling of liquids with higher or lower temperatures.
- ※ Different voltage or frequency
- ※ **WRAS-certified** pumps
- ※ ISO 228/1 standard flanges for suction and discharge openings, made of AISI 304 stainless steel.



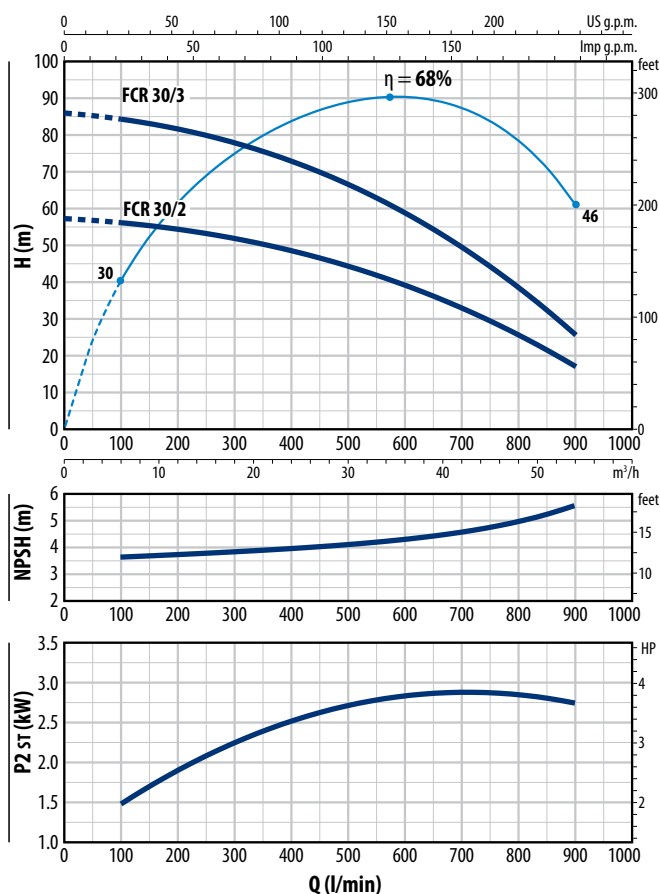
CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz

FCR 15



FCR 30



FCR 15

MODEL Three-phase	POWER (P ₂)		▲	Q m³/h l/min	0	3	6	12	18	24	30
	kW	HP			0	50	100	200	300	400	500
FCR 15/2	5.5	7.5	IE3	H metres	69	68	66.5	61.5	53	40.5	21.5
FCR 15/3	7.5	10			104	102	100	92	80	60.5	32.5
FCR 15/4	9.2	12.5			–	–	–	123	106	81	43.5

FCR 30

MODEL Three-phase	POWER (P ₂)		▲	Q m³/h l/min	0	6	12	21	30	39	48	54
	kW	HP			0	100	200	350	500	650	800	900
FCR 30/2	7.5	10	IE3	H metres	57.5	56.5	54.5	50.5	44.5	36	25.6	17
FCR 30/3	9.2	12.5			86	84	82	76	66.5	54.5	38.5	25.5

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)

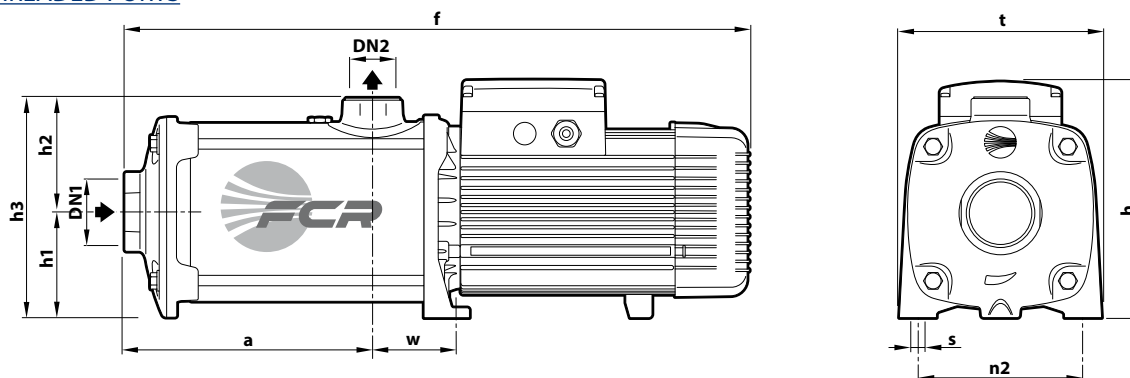
ABSORPTION

TYPE	VOLTAGE			
Three-ph.	220 V - Δ	380 V - Δ	220 V - Δ	440 V - Δ
FCR 15/2	19.0 A	11.0 A	16.8 A	10.5 A
FCR 15/3	24.2 A	14.0 A	21.3 A	13.3 A
FCR 15/4	31.2 A	18.0 A	27.7 A	17.3 A

TYPE	VOLTAGE			
Three-ph.	220 V - Δ	380 V - Δ	220 V - Δ	440 V - Δ
FCR 30/2	23.7 A	13.7 A	20.9 A	13.0 A
FCR 30/3	31.5 A	18.2 A	27.7 A	17.3 A

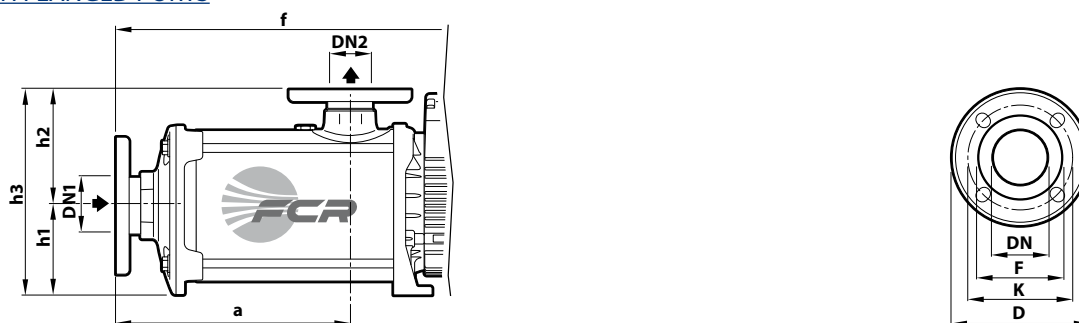
DIMENSIONS AND WEIGHT

※ WITH THREADED PORTS



TYPE	PORTS		N°	DIMENSIONS mm										kg
Three-phase	DN1	DN2	STAGES	a	f	h	h1	h2	h3	t	n2	w	s	3~
FCR 15/2	2½"	2"	2	155	533	271	120	132	252	234	190	96	12	33.9
FCR 15/3			3	199	627									39.5
FCR 15/4			4	243	671									49.4
FCR 30/2			2	155	583									36.9
FCR 30/3			3	199	627									44.3

※ WITH FLANGED PORTS



TYPE	PORTS		DIMENSIONS mm				
Three-phase	DN1	DN2	a	f	h1	h2	h3
FCR 15/2	65	50	189	566	120	162	285
FCR 15/3			233	660			
FCR 15/4			277	704			
FCR 30/2			189	616			
FCR 30/3			233	660			

FLANGE	D	K	F	HOLES	
DN	mm	mm	mm	N°	Ø (mm)
50	165	125	99	4	18
65	185	145	118	4	18

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	Stainless steel AISI 304		
5 Mechanical seal	Seal FN-KU-24 ISO 3069 EN 12756	Shaft Ø 24 mm	Materials Graphite / Ceramic / NBR
6 Pump shaft	Stainless steel AISI 316L		
7 Electric motor	– Three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz – The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1) – Continuous running duty S1		

