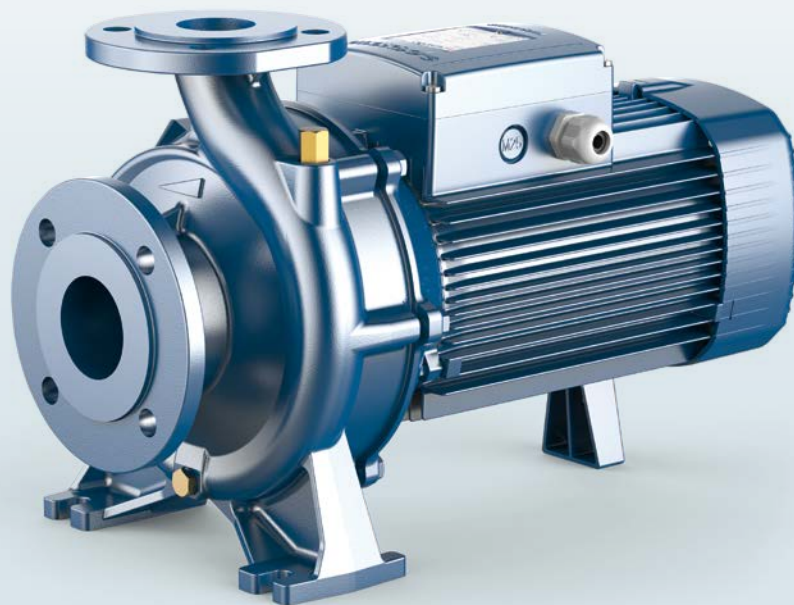




Clean water



Industrial use



PERFORMANCE RANGE

- Flow rate up to **2900 l/min** (174 m³/h)
- Head up to **23.8 m**
- Power from **0.37 to 9.2 kW**

INSTALLATION AND USE

- Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.
- Water supply
- Pressurization
- Irrigation
- Water circulation in air conditioning systems
- Power washing systems
- Firefighting systems
- Industrial applications
- Agriculture applications

Installation is to be carried out in well-ventilated enclosed locations or otherwise protected from the weather.

ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar (PN10)**

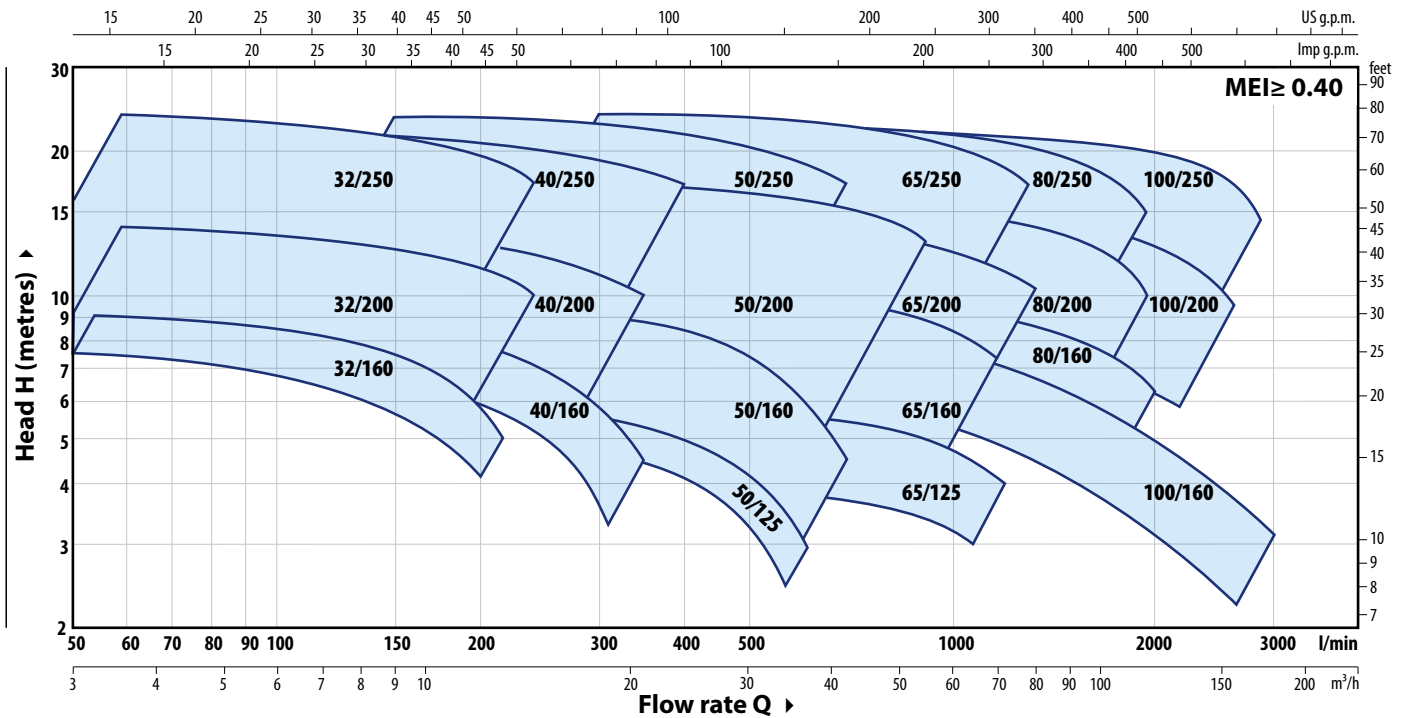
AVAILABLE UPON REQUEST

- ✘ Different voltage requirements 60 Hz frequency
- ✘ Handling of liquids with higher or lower temperatures
- ✘ Adaptability to operate in high or low temperature environments
- ✘ Counterflange KIT including screws, nuts and gaskets



PERFORMANCE RANGE – n= 1450 min⁻¹

50 Hz



PERFORMANCE DATA – n= 1450 min⁻¹

50 Hz

TYPE	POWER (P ₂)		PERFORMANCE							
	kW	HP	Q l/min	H m	Q l/min	H m	Q l/min	H m	Q l/min	H m
Three-ph.										
F4-32/160B	0.37	0.5	50	7.5	165	5.6	200	4.5		
F4-32/160A	0.37	0.5	50	9	175	6.8	225	5		
F4-32/200B	0.75	1	50	12.5	230	9.5	250	9		
F4-32/200A	1.1	1.5	50	14	240	10.8	250	10.5		
F4-32/200BH	0.75	1	50	11.3	140	9.6	150	9.2		
F4-32/200AH	0.75	1	50	13.8	150	11.5	160	11		
F4-32/250C	1.1	1.5	50	18.4	220	15	220	15		
F4-32/250B	1.5	2	50	21.7	250	17.4	250	17.4		
F4-32/250A	2.2	3	50	23.8	270	18.7	270	18.7		
F4-40/160B	0.37	0.5	50	7.5	220	6.0	320	3.5		
F4-40/160A	0.55	0.75	50	9	245	7.1	350	4.5		
F4-40/200B	0.75	1	50	11.5	280	8.9	350	7		
F4-40/200A	1.1	1.5	50	13.8	310	10.9	350	10		
F4-40/250C	1.1	1.5	50	15.5	320	12.4	400	10		
F4-40/250B	1.5	2	50	17.5	330	14.2	400	12		
F4-40/250A	2.2	3	50	22	380	17.5	400	17		
F4-50/125B	0.55	0.75	150	5	420	4.0	600	2		
F4-50/125A	0.55	0.75	150	6	450	4.8	600	3		
F4-50/160B	0.75	1	150	8	440	6.5	650	3.8		
F4-50/160A	1.1	1.5	150	9.3	460	7.8	700	4.5		
F4-50/200C	1.5	2	200	11	660	9.3	850	7.5		
F4-50/200B	2.2	3	200	13	720	10.9	850	9.5		
F4-50/200A	2.2	3	200	15	770	12.8	900	11.2		
F4-50/200AR	3	4	200	17	800	14.5	900	13.2		
F4-50/250D	1.1	1.5	150	12.5	425	10.1	650	5		
F4-50/250C	1.5	2	150	14	450	11.2	700	5		
F4-50/250B	2.2	3	150	18	510	14.6	700	10.5		
F4-50/250A	2.2	3	150	20	550	16.3	700	13		
F4-50/250AR	3	4	150	23.5	570	19.9	700	17		

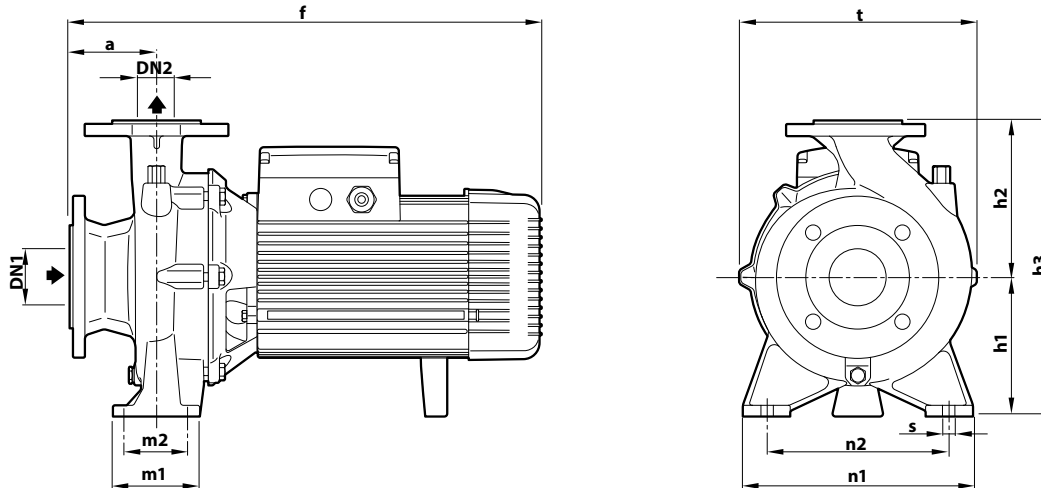
TYPE	POWER (P ₂)		PERFORMANCE							
	kW	HP	Q l/min	H m	Q l/min	H m	Q l/min	H m	Q l/min	H m
Three-ph.										
F4-65/125B	0.75	1	300	4.7	900	3.8	1100	3		
F4-65/125A	1.1	1.5	300	5.7	1000	4.7	1200	4		
F4-65/160C	1.1	1.5	300	8	910	6.7	1100	5.5		
F4-65/160B	1.5	2	300	9.1	950	7.6	1200	5.7		
F4-65/160A	2.2	3	300	10.1	990	8.5	1200	7		
F4-65/200A	2.2	3	300	12	1100	9.6	1250	8.5		
F4-65/200AR	3	4	300	14	1140	11.2	1300	10		
F4-65/250B	4	5.5	200	21.8	980	18.8	1250	15.5		
F4-65/250A	5.5	7.5	200	23.5	1000	20.6	1300	17		
F4-80/160D	1.5	2	300	6.3	1400	4.8	2000	2.5		
F4-80/160C	2.2	3	300	7.5	1480	5.7	2000	3.8		
F4-80/160B	2.2	3	300	8.8	1580	6.8	2000	5		
F4-80/160A	3	4	300	10	1660	7.7	2000	6.2		
F4-80/200B	4	5.5	300	14	1540	10.9	1800	9		
F4-80/200A	5.5	7.5	300	15.5	1625	12.6	1900	10.5		
F4-80/250B	5.5	7.5	300	19.5	1500	16.1	1800	13.5		
F4-80/250A	7.5	10	300	22	1400	19.9	1950	15		
F4-100/160B	2.2	3	400	8.3	1950	5.7	2600	3.5		
F4-100/160A	3	4	400	10	2060	6.9	2800	4.7		
F4-100/200C	4	5.5	400	12.7	1850	9.6	2300	7		
F4-100/200B	5.5	7.5	400	14.2	1950	10.9	2400	8.5		
F4-100/200A	5.5	7.5	400	15.8	2050	12.6	2600	9.5		
F4-100/250B	7.5	10	400	18.5	1950	15.9	2600	11.5		
F4-100/250A	9.2	12.5	400	22	2100	19.3	2900	13.5		

Q = Flow Rate

H = Total manometric head

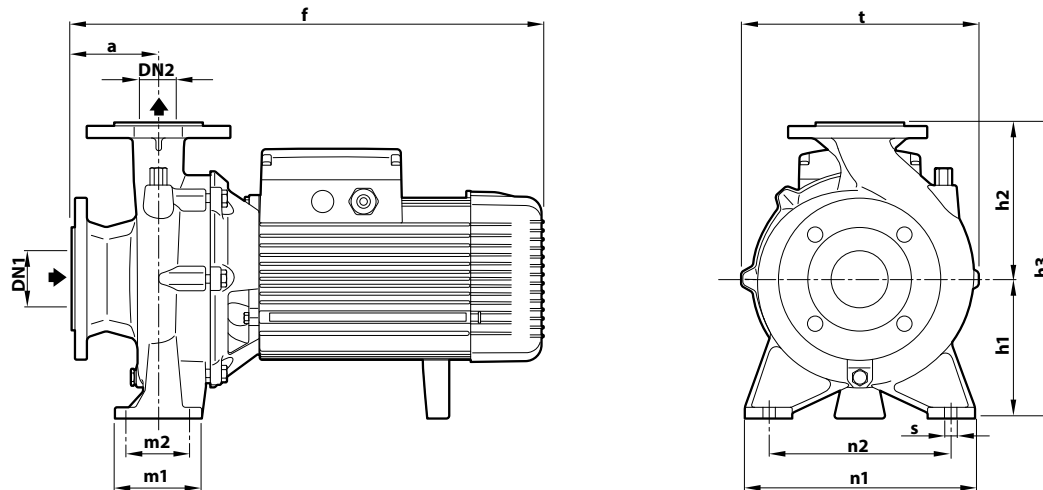
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS AND WEIGHT



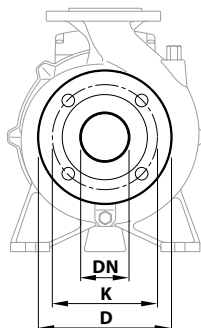
TYPE	PORTS		DIMENSIONS mm											kg										
	DN1	DN2	a	f	h3	h1	h2	t	n2	n1	m1	m2	s											
Three-phase																								
F4-32/160B	50	32	80	412	292	132	160	242	190	240	100	70	14	31.2										
F4-32/160A																		31.2						
F4-32/200B																			43.0					
F4-32/200A							478	340			160			180	270		95		43.5					
F4-32/200BH																			37.9					
F4-32/200AH															42.4									
F4-32/250C					100	531	405	180	225	330	250	320		125	95	64.1								
F4-32/250B																							63.1	
F4-32/250A						581																		68.7
F4-40/160B			65	40	80	412	292	132	160	240	190	240		100	70	14	32.5							
F4-40/160A																	32.9							
F4-40/200B					100	498	340	160	180	275	212	265			46.0									
F4-40/200A															46.2									
F4-40/250C							531	405	180	225	328	250	320	125	95		60.1							
F4-40/250B																								60.1
F4-40/250A							581																	
F4-50/125B	65	50	100	431	292	132	160	242	190	240	100	70	14	32.2										
F4-50/125A																		32.2						
F4-50/160B							498	340		180				269					44.4					
F4-50/160A								160								44.6								
F4-50/200C						538	360	200	316	212	265	250		320	125	95	59.2							
F4-50/200B																								
F4-50/200A						589											68.5							
F4-50/200AR																	68.8							
F4-50/250D						531	405	180	225	337	250	320		125	95		59.9							
F4-50/250C																								63.3
F4-50/250B																								68.7
F4-50/250A						581																		
F4-50/250AR																	78.0							
F4-65/125B			80	65	100	520	340		180	291	212	280		125	95	14	50.2							
F4-65/125A																				50.4				
F4-65/160C							542	360	200	300			340				250	320	160	120	55.0			
F4-65/160B																								
F4-65/160A							592														65.0			
F4-65/200A						595	405	180	225	340	250	320					72.0							
F4-65/200AR																	78.4							
F4-65/250B						680	450	200	250	373	280	360	160	120			111.2							
F4-65/250A																	139.6							

DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm											kg
	DN1	DN2	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
Three-phase														
F4-80/160D	100	80	125	574	405	180	225	330	250	320	125	95	14	66.0
F4-80/160C				624										67.3
F4-80/160B				709	70.0									
F4-80/160A				727	76.4									
F4-80/200B				709	100.0									
F4-80/200A				727	130.2									
F4-80/250B				727	123.0									
F4-80/250A				727	137.6									
F4-100/160B	125	100	125	638	480	200	280	362	280	360	160	120	18	96.2
F4-100/160A				711										97.0
F4-100/200C				711	124.1									
F4-100/200B				711	116.0									
F4-100/200A				711	122.0									
F4-100/250B				711	143.0									
F4-100/250A	140	747	505	225	422	315	400	156.0						

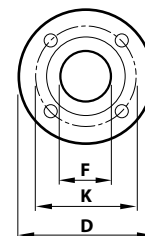
PORT FLANGES



DN FLANGE mm	D mm	K mm	HOLES	
			N°	Ø (mm)
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	18
100	220	180		
125	250	210		

COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)



DN FLANGE mm	F COUNTER-FLANGE	D mm	K mm	HOLES	
				N°	Ø (mm)
32	1¼"	140	100	4	18
40	1½"	150	110		
50	2"	165	125		
65	2½"	185	145		
80	3"	200	160	8	18
100	4"	220	180		
125	5"	250	210		

ABSORPTION

TYPE	VOLTAGE	
	230 V - Δ	400 V - Y
Three-phase		
F4-32/160B	1.9 A	1.1 A
F4-32/160A	2.2 A	1.3 A
F4-32/200B	3.6 A	2.1 A
F4-32/200A	4.0 A	2.3 A
F4-32/200BH	3.3 A	1.9 A
F4-32/200AH	3.5 A	2.0 A
F4-32/250C	5.7 A	3.3 A
F4-32/250B	7.3 A	4.2 A
F4-32/250A	9.5 A	5.5 A
F4-40/160B	1.7 A	1.0 A
F4-40/160A	2.8 A	1.6 A
F4-40/200B	3.6 A	2.1 A
F4-40/200A	4.2 A	2.4 A
F4-40/250C	5.5 A	3.2 A
F4-40/250B	6.1 A	3.5 A
F4-40/250A	9.5 A	5.5 A
F4-50/125B	2.2 A	1.3 A
F4-50/125A	2.6 A	1.5 A
F4-50/160B	3.3 A	1.9 A
F4-50/160A	4.2 A	2.4 A
F4-50/200C	6.1 A	3.5 A
F4-50/200B	8.0 A	4.6 A
F4-50/200A	9.0 A	5.2 A
F4-50/200AR	10.6 A	6.1 A
F4-50/250D	4.8 A	2.8 A
F4-50/250C	5.9 A	3.4 A
F4-50/250B	9.9 A	5.7 A
F4-50/250A	11.1 A	6.4 A
F4-50/250AR	11.8 A	6.8 A
F4-65/125B	3.6 A	2.1 A
F4-65/125A	4.5 A	2.6 A
F4-65/160C	5.2 A	3.0 A
F4-65/160B	5.9 A	3.4 A
F4-65/160A	7.8 A	4.5 A

TYPE	VOLTAGE	
	230 V - Δ	400 V - Y
Three-phase		
F4-65/200A	9.0 A	5.2 A
F4-65/200AR	11.8 A	6.8 A
F4-65/250B	17.3 A	10.0 A
F4-65/250A	21.7 A	13.5 A
F4-80/160D	5.9 A	3.4 A
F4-80/160C	10.0 A	5.8 A
F4-80/160B	10.2 A	5.9 A
F4-80/160A	10.6 A	6.1 A
F4-80/200B	13.8 A	8.0 A
F4-80/200A	18.2 A	10.5 A
F4-80/250B	20.8 A	12.5 A
F4-80/250A	25.6 A	14.8 A
F4-100/160B	9.0 A	5.2 A
F4-100/160A	13.0 A	7.5 A
F4-100/200C	14.2 A	8.2 A
F4-100/200B	17.8 A	10.3 A
F4-100/200A	20.8 A	12.0 A
F4-100/250B	26.8 A	15.5 A
F4-100/250A	34.1 A	19.7 A

MATERIALS AND COMPONENTS

1 Pump body	Cast iron, fitted with inlet and outlet flanged ports			
2 Cover	Cast iron			
3 Impeller	Brass	for F4-32/160 - 32/200 - 40/160 - 40/200 - 50/125 - 50/160		
	Cast iron	for F4-32/250 - 40/250 - 50/200 - 50/250 - 65/125 - 65/160 - 65/200 - 65/250 F4-80/160 - 80/200 - 80/250 - 100/160 - 100/200 - 100/250		
4 Mechanical seal	Water pump	Seal	Shaft	Materials
	F4-32/160	FN-20	Ø 20 mm	Graphite / Ceramic / NBR
	F4-40/160			
	F4-50/125			
	F4-32/200	FN-24	Ø 24 mm	Graphite / Ceramic / NBR
	F4-40/200			
	F4-50/160			
	F4-65/125	FN-32 NU	Ø 32 mm	Graphite / Ceramic / NBR
	F4-50/200			
	F4-65/200			
	F4-80/160	FN-38	Ø 38 mm	Graphite / Ceramic / NBR
	F4-100/160			
F4-32/250				
F4-40/250	FN-40 NU	Ø 40 mm	Graphite / Ceramic / NBR	
F4-50/250				
F4-65/250				
F4-80/200	FN-45 NU	Ø 45 mm	Graphite / Ceramic / NBR	
F4-100/200				
F4-80/250				
F4-100/250				
5 Motor shaft	Stainless steel AISI 431			
6 Electric motor	F4: 4-pole three-phase 230/400 V - 50 Hz			
	※ The pumps are equipped with high-efficiency motors (IEC 60034-30-1) class IE3 Continuous running duty S1			

