PMC "DOUBLE-CHANNEL"

Fixed installation pumps

■ for sewage water









PERFORMANCE RANGE

- Flow rate up to **1600 l/min** (96 m^3/h)
- Head up to 25 m

APPLICATION LIMITS

- 10 m maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Solids passage:
 - up to Ø 50 mm for PMC 15-20-30-40/50
 - up to **Ø 70 mm** for PMC 30-40/70
- Minimum immersion depth for continuous service:
 - 390 mm for PMC 15-20-30-40/50
 - 440 mm for PMC 30-40/70

CONSTRUCTION AND SAFETY STANDARDS

- Standard features: base pedestal, threaded delivery counterflange, guide tube supports (the guide tubes are not included)
- 10 m long power cable
- Float switch for single-phase versions

EN 60034-1 IEC 60034-1 **CEI 2-3**



CERTIFICATIONS

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV ISO 9001: QUALITY ISO 14001: ENVIRONMENT AND SAFETY





INSTALLATION AND USE

PMC pumps, made from heavy gauge cast iron offering exceptional sturdiness and abrasion resistance, come equipped with a DOU-BLE-CHANNEL stainless steel impeller and are capable of pumping liquids containing short fibred suspended solids. They are ideal for pumping sewage, waste water, water mixed with mud, groundwater and surface water in locations such as apartment blocks, public buildings, factories, tower garages, underground car parks and cleaning areas, etc.

PATENTS - TRADE MARKS - MODELS

• Registered Community Design n° 342159-0017

OPTIONALS AVAILABLE ON REQUEST

- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

For the following versions the built-in thermal overload protector must be connected to the control box in order for the guarantee to be considered valid:

single-phase three-phase

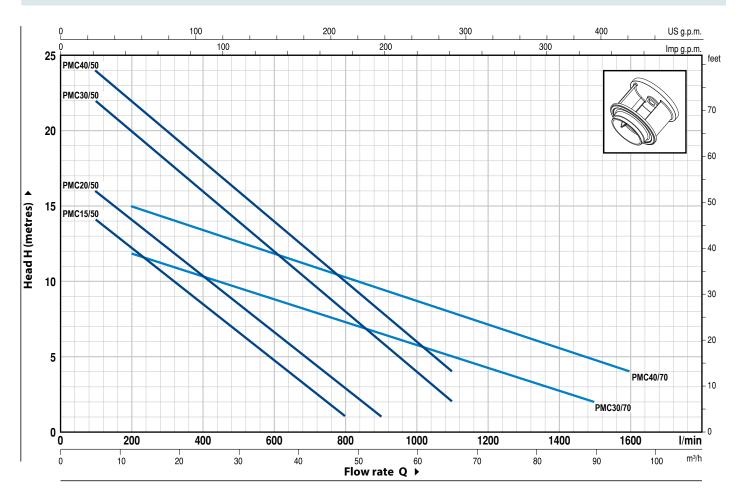
- PMCm 30/50 - HP 3 - PMC 15-20-30-40/50 - HP 1.5-2-3-4

- PMCm 30/70 - HP 3 - PMC 30-40/70 - HP 3-4



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



МО	DEL	PO	WER	m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	84	96
Single-phase	Three-phase	kW	HP	Q I/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600
PMCm 15/50	PMC 15/50	1.1	1.5		16	14	12.5	10.5	8.5	6.5	4.5	3	1						
PMCm 20/50	PMC 20/50	1.5	2		18	16	14	12.5	10.5	8.5	6.5	5	3	1					
PMCm 30/50	PMC 30/50	2.2	3		24	22	20	18	16	14	12	10	8	6	4	2			
_	PMC 40/50	3	4	H metres	25	24	22	20	18	16	14	12	10	8	6	4			
PMCm 30/70	PMC 30/70	2.2	3		13	_	12	11	10.5	9.5	8.5	8	7.5	6.5	6	5	4.5	3	2
_	PMC 40/70	3	4		17	_	15	14	13.5	12.5	12	11	10.5	9.5	8.5	8	7	5.5	4

 $\mathbf{Q} = \mathsf{Flow} \; \mathsf{rate} \; \; \mathbf{H} = \mathsf{Total} \; \mathsf{manometric} \; \mathsf{head} \;$

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

PMC "DOUBLE-CHANNEL"

POS	S. CONSTRUCTION CHARAC	CTERISTICS
1	PUMP BODY	Cast iron, complete with flanged ports
2	SUCTION PLATE	Cast iron
3	BASE PEDESTAL	Cast iron
4	CONTERFLANGE	Steel, complete with threaded ports in compliance with ISO 228/1
5	GUIDE TUBE SUPPORTS	Cast iron
6	IMPELLER	Stainless steel AISI 304 DOUBLE-CHANNEL type
7	MOTOR CASING	Cast iron
8	MOTOR CASING PLATE	Cast iron
9	MOTOR SHAFT	Stainless steel AISI 431

10 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft		Materials	
Model	Diameter	Stationary ring	Rotational ring	Elastomer
STA-20	Ø 20 mm	Ceramic	Graphite	NBR
STA-19	Ø 19 mm	Silicon carbi- de	Silicon carbi- de	NBR

11 BEARINGS

6304 ZZ - C3 / 6304 ZZ - C3

POS. CONSTRUCTION CHARACTERISTICS

12 CAPACITOR

Pump	Capacitance
Single-phase	(230 V or 240 V)
PMCm 15/50	31.5 μF 450 VL
PMCm 20/50	50 μF 450 VL
PMCm 30/50-70	60 μF 450 VL

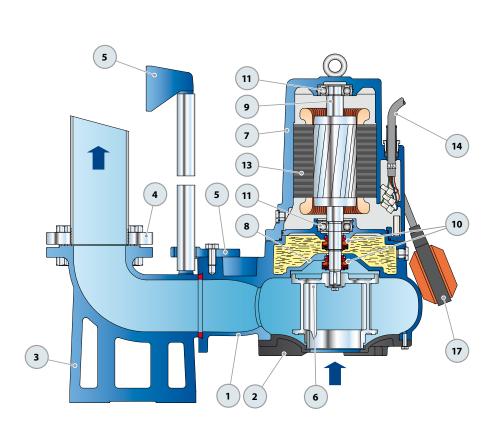
13 ELECTRIC MOTOR

PMCm 15-20: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.

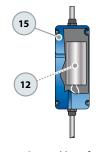
- → PMCm 30: single-phase 230 V 50 Hz with motor protector built-in to the winding to be connected to the control box
- **PMC**: three-phase 400 V 50 Hz with motor protector builtin to the winding to be connected to the control box

	- Insulation: F class	– Protection: IP X8
14	POWER CABLE	10 m long "H07 RN-F" cable
15	CONTROL BOX foe PMCm 15-20 (only for single-phase versions)	Complete with capacitor and manual reset motor protector
16	CONTROL BOX for PMCm 30 (only for single-phase versions)	QES 300 MONO series

17 FLOAT SWITCH

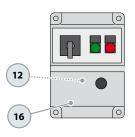


Standard features



Control box for PMCm 15-20 (HP 1.5-2.0) (only for single-phase versions)

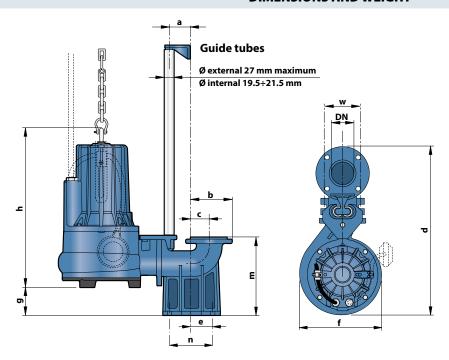
Standard features



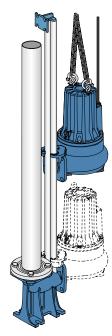
Control box for PMCm 30 (HP 3.0) (only for single-phase versions)



DIMENSIONS AND WEIGHT



Typical installation



МС	DDEL	PORT	solids					D	IMENS	IONS	mm				k	g*		
Single-phase	Three-phase	DN	passage	a	b	c	d	e	f	g	h	m	n	w	1~	3~		
PMCm 15/50	PMC 15/50										4.42				47.2	45.9		
PMCm 20/50	PMC 20/50	21/#	Ø 50				116	F1	400	100 63	240		442	100	120	72	48.2	46.9
PMCm 30/50	PMC 30/50	21/2"	Ø 50 mm		116	51	490	62	248	52	457/442	198	120	72	52.2	49.1		
_	PMC 40/50			60							457				-	52.7		
PMCm 30/70	PMC 30/70	5"	a 70		150	70		0.5	240		472/458	255	120	440	62.6	59.3		
_	PMC 40/70	3″	Ø 70 mm		150	70	570	85	268	92	472	255	130	112	-	62.9		

(*weight includes counterflanges)

ABSORPTION

MODEL	VOLTAGE (single-phase)					
Single-phase	230 V	240 V				
PMCm 15/50	9.0 A	9.0 A				
PMCm 20/50	10.5 A	10.5 A				
PMCm 30/50	15.2 A	15.2 A				
PMCm 30/70	15.2 A	15.2 A				

MODEL		VOLTAGE (three-phase)								
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V				
PMC 15/50	6.1 A	3.5 A	2 A	6.1 A	3.5 A	2.0 A				
PMC 20/50	7.4 A	4.3 A	2.5 A	7.4 A	4.3 A	2.5 A				
PMC 30/50	9.9 A	5.7 A	3.3 A	9.9 A	5.7 A	3.3 A				
PMC 40/50	13.5 A	7.8 A	4.5 A	13.5 A	7.8 A	4.5 A				
PMC 30/70	10.2 A	5.9 A	3.4 A	10.2 A	5.9 A	3.4 A				
PMC 40/70	13.5 A	7.8 A	4.5 A	13.5 A	7.8 A	4.5 A				

PALLETIZATION

N	IODEL	GROUPAGE / CONTAINER								
		n°	11 (********)	k	g					
Single-phase	Three-phase	pumps	H (mm)	1~	3~					
PMCm 15/50	PMC 15/50	24	1751	1151	1119					
PMCm 20/50	PMC 20/50	24	1751	1175	1143					
PMCm 30/50	PMC 30/50	24	1751	1275	1196					
_	PMC 40/50	12	1751	_	1283					
PMCm 30/70	PMC 30/70	12	1304	769	729					
_	PMC 30/70	12	1304	_	772					

