PMC "DOUBLE-CHANNEL"

Fixed installation pumps

for sewage water





PERFORMANCE RANGE

- Flow rate up to 1600 l/min (96 m³/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 CE

CERTIFICATIONS

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



ПРОМТЕСТ - 168

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

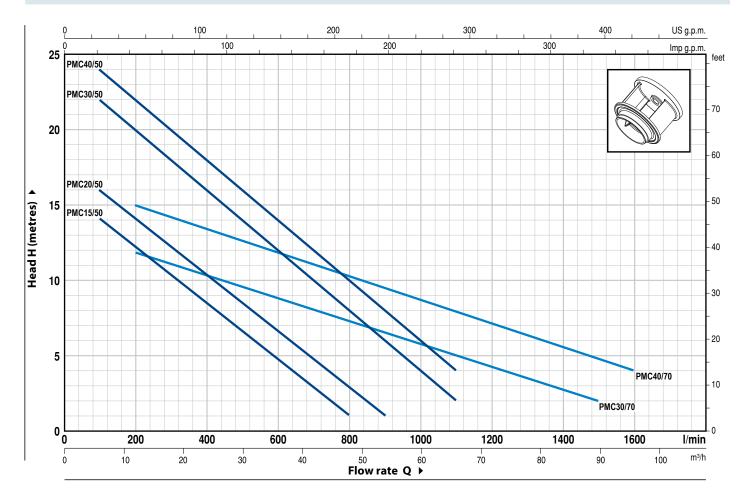
For the following versions the built-in thermal overload protector must be connected to the control box in order for the guarantee to be considered valid:

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



MO	DEL	PO۱	NER	o m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	84	96
Single-phase	Three-phase	kW	HP	l/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

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

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

PMC "DOUBLE-CHANNEL"

POS. CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron, complete with flanged ports
2	SUCTION PLATE	Cast iron
3	BASE PEDESTAL	Cast iron
4	CONTERFLANGE	Steel, complete with thread- ed 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	

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

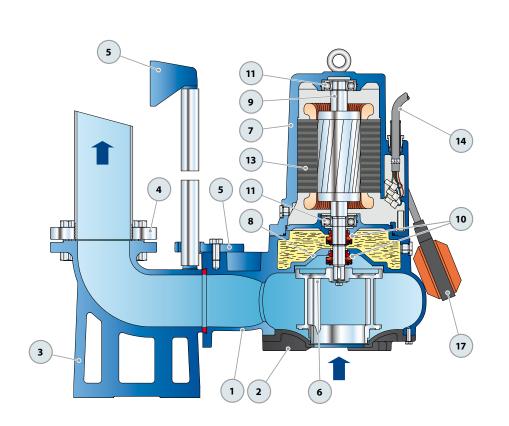
PMCm 15-20: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.

PMCm 30: single-phase 230 V - 50 Hz with motor protector built-in to the winding to be connected to the control box

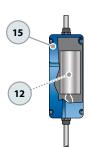
➡ PMC: three-phase 400 V - 50 Hz with motor protector builtin to the winding to be connected to the control box

	 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

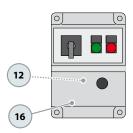


Standard features



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

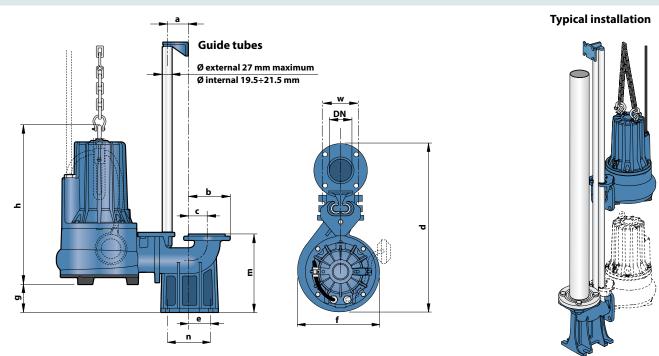
Standard features



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



DIMENSIONS AND WEIGHT



MODEL PORT			solids	DIMENSIONS mm											kg*					
Single-phase	Three-phase	DN	passage	a	b	с	d	e	f	g	h	m	n	w	1~	3~				
PMCm 15/50	PMC 15/50			1							4.42				47.2	45.9				
PMCm 20/50	PMC 20/50	2½″	21/ //	Ø 50 mm	Ø 50 mm		11.0	F1	400	62	240	52	442	100	120	70	48.2	46.9		
PMCm 30/50	PMC 30/50		Ø 50 mm			0 50 mm	50 mm	0 50 mm	50 mm	Jo nini		116	51	490	62	248	52	457/442	198	120
_	PMC 40/50			60	60	60							457	1			-	52.7		
PMCm 30/70	PMC 30/70		Ø 70 mm	1	150	70		0.5	260		472/458		120	110	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 (sin	gle-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

M	IODEL		GROUPAGE / CONTAINER								
Single-phase Three-phase		n° pumps	H (mm)	kg 1~ 3~							
PMCm 15/50	PMC 15/50	24	1751	1~	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						

