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 power cable of sufficient length)
- 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
- 10 m long power cable
- Float switch for single-phase versions

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



CERTIFICATIONS





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
- Three-phase dual voltage pumps:
 - 230/400 V or
 - 400/690 V
- Single-phase pumps without float switch
- Other voltages

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

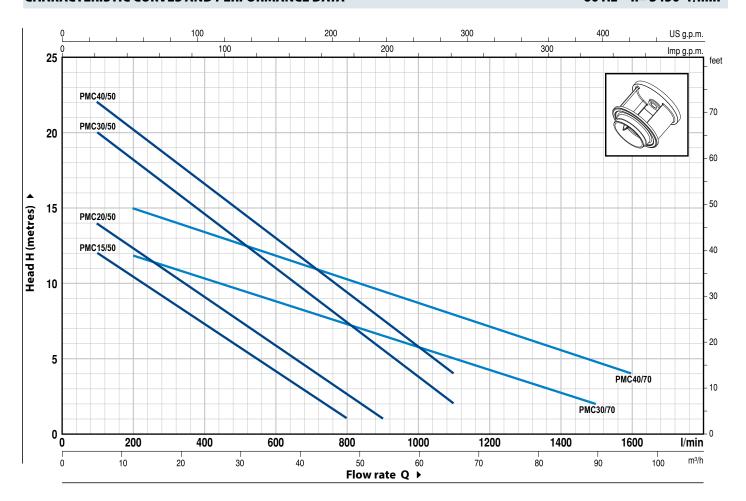
- PMCm 30/50 - HP 3 - PMC 15-20-30-40/50 - HP 1.5-2-3-4

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



CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 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 //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		14	12	10.5	9	7.5	5.5	4	2.5	1						
PMCm 20/50	PMC 20/50	1.5	2		16	14	12.5	10.5	9	7.5	6	4.5	2.5	1					
PMCm 30/50	PMC 30/50	2.2	3		22	20	18	16.5	14.5	13	11	9.5	7.5	5.5	4	2			
_	PMC 40/50	3	4	H metres	24	22	20	18.5	16.5	15	13	11	9.5	7.5	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 App. A.

PMC "DOUBLE-CHANNEL"

POS	S. CONSTRUCTION CHARAC	TERISTICS
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 carbide	Silicon carbide	NBR

11 BEARINGS

6304 ZZ - C3 / 6304 ZZ - C3

POS. CONSTRUCTION CHARACTERISTICS

12 CAPACITOR

Pump	Capacitance
Single-phase	(220 V)
PMCm 15/50	31.5 μF 450 VL
PMCm 20/50	50 μF 450 VL
PMCm 30/50-70	60 μF 450 VL

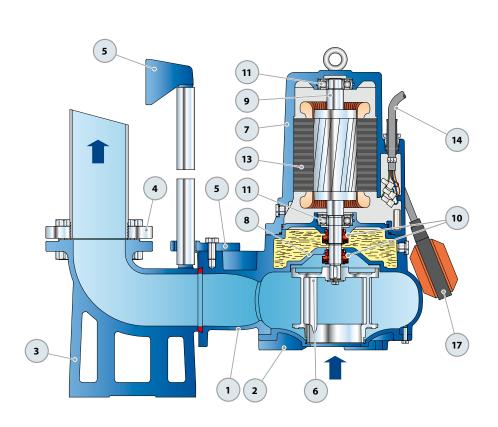
13 ELECTRIC MOTOR

PMCm 15-20: single-phase 220 V - 60 Hz with thermal overload protector built-in to the winding.

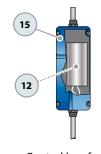
- **PMCm 30**: single-phase 220 V 60 Hz with motor protector built-in to the winding to be connected to the control box
- **PMC**: three-phase 380 V 60 Hz with motor protector builtin to the winding to be connected to the control box

	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

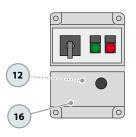


Standard features



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

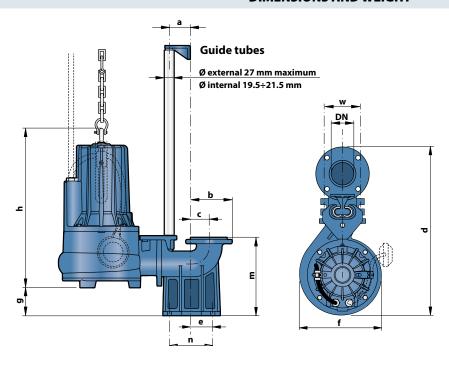
Standard features



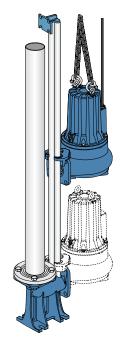
Control box for PMCm 30 (HP 3.0) (only for single-phase versions)



DIMENSIONS AND WEIGHT



Typical installation



МС	DDEL	PORT	solids					D	IMENS	SIONS	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	62	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	2"	Ø 70		150	70		0.5	260		472/458	255	420	440	62.6	59.3
_	PMC 40/70	3″	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	220 V
PMCm 15/50	9.5 A
PMCm 20/50	12.5 A
PMCm 30/50	18.0 A
PMCm 30/70	18.0 A

MODEL	VO	LTAGE (three-ph	ase)
Three-phase	220 V	380 V	440 V
PMC 15/50	7.6 A	4.3 A	3.7 A
PMC 20/50	8.9 A	5.2 A	4.5 A
PMC 30/50	12.0 A	7.0 A	5.2 A
PMC 40/50	15.2 A	8.8 A	7.0 A
PMC 30/70	11.3 A	6.5 A	5.1 A
PMC 40/70	15.8 A	9.2 A	7.0 A

PALLETIZATION

N	MODEL	GROUPAGE / CONTAINER							
		n°	11 (kg					
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				

