



※ Electric pumps for industrial use



PERFORMANCE RANGE

- Flow rate up to **90 l/min** (5.4 m³/h)
- Head up to **100 m**

INSTALLATION AND USE

High-performance peripheral pump for industrial applications.

Designed to ensure high pressure and continuous operation, especially ideal for industrial applications.

Thanks to the anti-blocking system, it guarantees reliability and long service life, even after long periods of inactivity.

Recommended for water and clean liquids, free of abrasive particles, compatible with the pump's construction materials.

APPLICATION LIMITS

- Manometric suction head up to **8 m**
- Liquid temperature between **-10 °C** up to **+90 °C**
- Ambient temperature up to **+40 °C** (+50 °C for PQ 60-61 IND)
- Maximum working pressure:
 - **6 bar** for PQ 60-61-65 IND
 - **7 bar** for PQ 80-IND
 - **10 bar** for PQ 81-90-100-200-300 IND

AVAILABLE UPON REQUEST

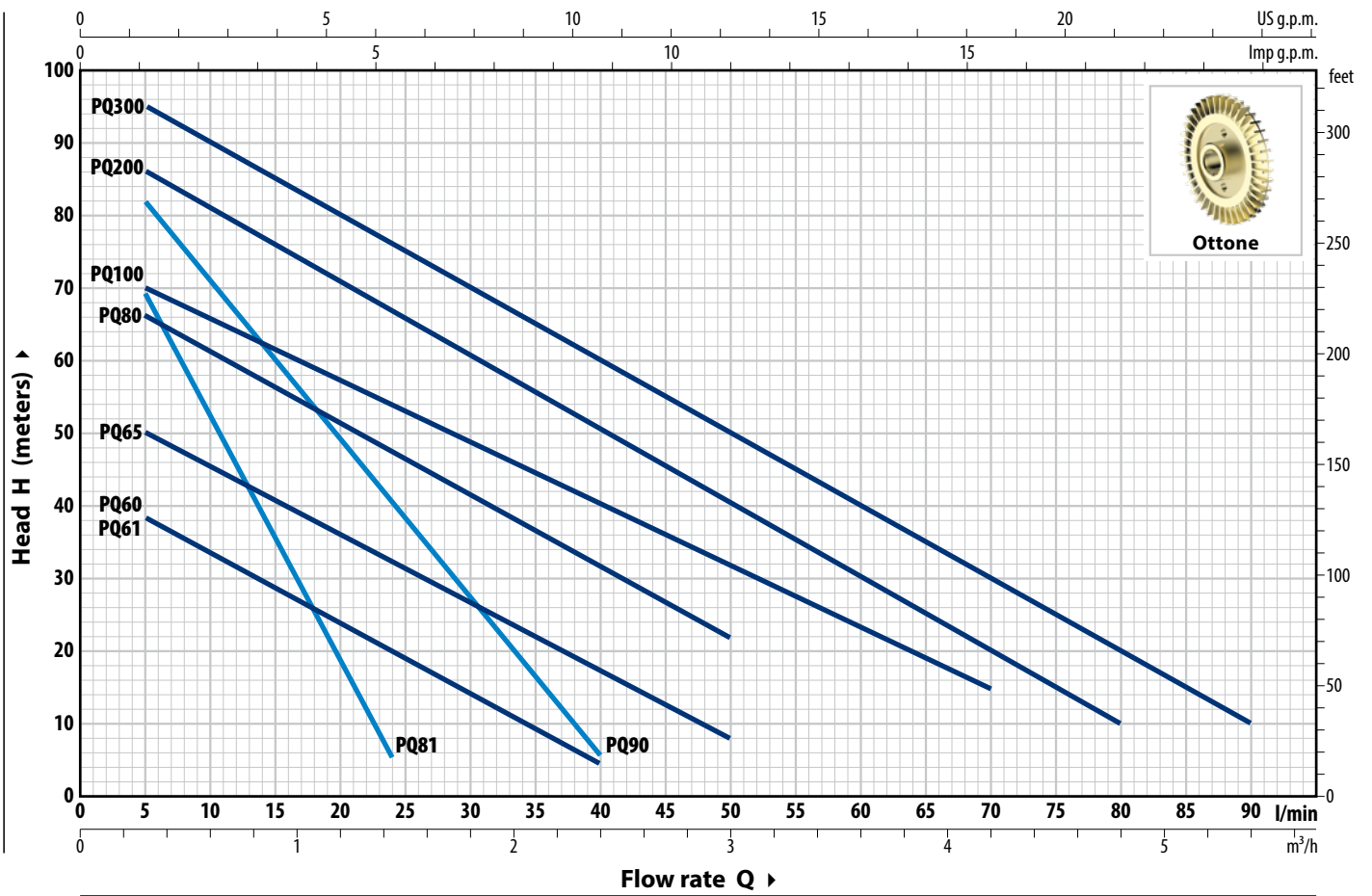
- ※ Mechanical seal options available
- ※ Protection rating IP X5 PQ 80-81-90-100-200-300 IND
- ※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Motor bracket: Patent No. IT1243605
- Registered community model No. 002146548

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



MODEL		POWER (P ₂)		1~3~	Q	m ³ /h														
Single-phase	Three-phase	kW	HP			0	0.3	0.6	0.9	1.2	1.44	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	
						0	5	10	15	20	24	30	35	40	50	60	70	80	90	
PQm 60 - IND	PQ 60 - IND	0.30	0.40	IE2 IE3	H m	40	38	33.5	29	24	20	15	10	5						
PQm 61 - IND	PQ 61 - IND	0.30	0.40			40	38	33.5	29	24	20	15	10	5						
PQm 65 - IND	PQ 65 - IND	0.55	0.75			55	50	45.5	40.5	36	32.3	27	22	17	8					
PQm 80 - IND	PQ 80 - IND	0.75	1			70	66	61	56	51	47.4	41	36.5	31	22					
PQm 81 - IND	PQ 81 - IND	0.55	0.75			88	70	53	36	18.5	5									
PQm 90 - IND	PQ 90 - IND	0.75	1			90	82	71	60	49	40.2	27	17	5						
PQm 100 - IND	PQ 100 - IND	1.1	1.5			75	70	65	61	56	52	46	42	38	30	23	15			
PQm 200 - IND	PQ 200 - IND	1.5	2			90	86	81	76	71	66.7	60	55	50	40	30	20	10		
PQm 300 - IND	PQ 300 - IND	2.2	3			100	95	90	85	80	76	70	65	60	50	40	30	20	10	

Q = Flow rate H = Total manometric head HS = Suction height

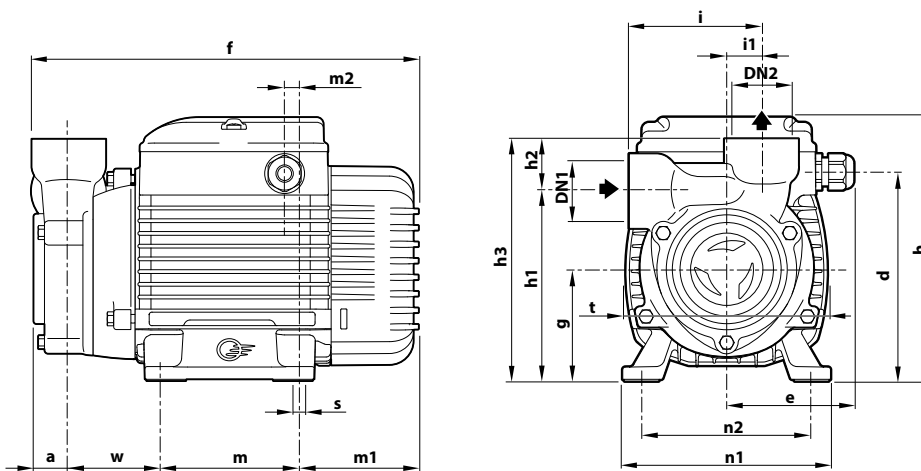
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
PQm 60 - IND	-
PQm 61 - IND	-
PQm 65 - IND	3.7 A
PQm 80 - IND	-
PQm 81 - IND	-
PQm 90 - IND	-
PQm 100 - IND	-
PQm 200 - IND	-
PQm 300 - IND	-

MODEL	VOLTAGE	
Three-phase	230 V - Δ	400 V - 人
PQ 60 - IND	-	-
PQ 61 - IND	-	-
PQ 65 - IND	2.9 A	1.7 A
PQ 80 - IND	-	-
PQ 81 - IND	-	-
PQ 90 - IND	-	-
PQ 100 - IND	-	-
PQ 200 - IND	-	-
PQ 300 - IND	-	-

DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm																				kg	
Single-phase	Three-phase	DN1	DN2	a	d	e	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~	
PQm 60 - IND	PQ 60 - IND	1"	1"	22	119	76	224	63	152	101	30	131	76	20	80	69	85	120	100	117	53	7	4.9	4.9	
PQm 61 - IND	PQ 61 - IND	1/2"	1/2"	21.5	119	76	224	63	152	101	30	131	76	20	80	69	85	120	100	117	53	7	4.9	4.9	
PQm 65 - IND	PQ 65 - IND	1"	1"	21	139	78	253	71	180*	121	30	138	83	20	90	80	21	134	112	142	62	7	6.8	6.2	
PQ 80 - IND	PQ 80 - IND	1/2"	1/2"	21	139	78	253	71	180*	121	30	138	83	20	90	80	21	134	112	142	62	7	9.9	9.9	
PQ 81 - IND	PQ 81 - IND	1/2"	1/2"	16	119	76	226	63	152	119	22	141	71	15	80	69	85	120	100	117	61	7	7.0	7.0	
PQm 90 - IND	PQ 90 - IND	3/4"	3/4"	22	139	78	254	71	180*	126	29	155	84	19	90	80	21	134	112	142	62	7	10.1	10.1	
PQm 100 - IND	PQ 100 - IND	1"	1"	23	158	91	311	80	206	140	28	168	88	20	100	93	11.5	151	125	155	95	9	14.3	14.3	
PQm 200 - IND	PQ 200 - IND	1"	1"	23	158	91	311	80	206	140	28	168	88	20	100	113	11.5	151	125	155	95	9	15.4	15.4	
PQm 300 - IND	PQ 300 - IND	1"	1"	23	158	91	331	80	206	140	28	168	88	20	100	113	11.5	151	125	155	95	9	18.2	18.2	

(*) h=199 mm for single-phase 110 V versions

PALLET CAPACITY

MODEL		NO. OF PUMPS
Single-phase	Three-phase	n. of pumps
PQm 60 - IND	PQ 60 - IND	-
PQm 61 - IND	PQ 61 - IND	-
PQm 65 - IND	PQ 65 - IND	160
PQm 80 - IND	PQ 80 - IND	-
PQm 81 - IND	PQ 81 - IND	-
PQm 90 - IND	PQ 90 - IND	-
PQm 100 - IND	PQ 100 - IND	-
PQm 200 - IND	PQ 200 - IND	-
PQm 300 - IND	PQ 300 - IND	-

CONSTRUCTION FEATURES

- | | |
|------------------------|---|
| 1 Pump body | Cast iron with steel insert, incorporating ISO 228/1 threaded ports |
| 2 Motor bracket | Aluminum with brass cover and front scraping anti-locking function (patented) |
| 3 Impeller | Brass, radial peripheral vane type |

4 Mechanical seal	Pump	Seal	Shaft	Materials
	PQ 60-61-65	ST1-12	Ø 12 mm	Silicon carbide / Graphite / NBR
	PQ 80-81-90			
	PQ 100-200-300	FN-14	Ø 14 mm	Graphite / Ceramic / NBR

- | | |
|----------------------|---------------------------------|
| 5 Motor shaft | Stainless steel AISI 431 |
|----------------------|---------------------------------|

- 6 Electric motor**
- PQm:** single-phase 230 V - 50 Hz with winding integrated thermal motor protection.
PQ: three-phase 230/400 V - 50 Hz.
- ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
 class **IE2** for single-phase models
 class **IE3** for three-phase models
- Continuous running duty **S1**
 - Insulation: class F
 - Protection rating: IP X4

