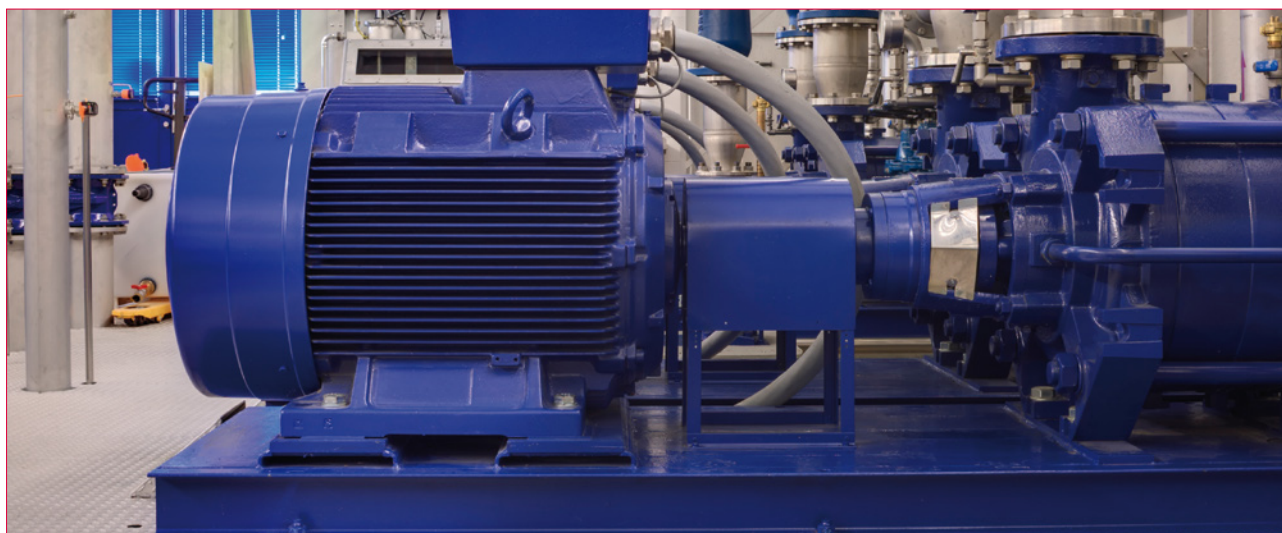




PUMPS



SINGLE AND TWIN IMPELLER CENTRIFUGAL PUMPS - NM, NMS



Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).
 NM, NMS: three-phase 230/400 V $\pm 10\%$ up to 3 kW;
 400/690 V $\pm 10\%$ from 4 to 75 kW.
 Insulation class F. Protection IP 54 (IP 55 for NMS).
 Classification scheme IE2 for three-phase motor from 0,75 kW.
 Constructed in accordance with: EN 60034-1;
 EN 60034-30.

MATERIALS		
Components	NM, NMS	B-NM, B-NMS
Pump casing Lantern bracket NM Casing cover for NMS	Cast iron GJL 200EN 1561	Bronze G-Cu Sn 10 EN 1982
Lantern bracket NMS	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
	Brass P- Cu Zn 40 Pb 2 UNI 5705 for NM 32/12-16-20, NM 40/20, B-NM 32/125-160-200, B-NM 40/200	
Shaft	AISI 303 up to 2.2 kW	Cr Ni Mo steel AISI 316
	AISI 430 from 3 kW to 75 kW	
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	

Performance $n \approx 2900$ rpm			
B-NM	NM	P2	
		kW	HP
MM CAL B-NM 32/12F	MM CAL NM 32/12FE	0,55	0,75
MM CAL B-NM 32/12D	MM CAL NM 32/12DE	0,75	1
MM CAL B-NM 32/12A	MM CAL NM 32/12AE	1,1	1,5
MM CAL B-NM 32/12S	MM CAL NM 32/12SE	1,5	2
MM CAL B-NM 32/16B	MM CAL NM 32/16BE	1,5	2
MM CAL B-NM 32/16A/A	MM CAL NM 32/16A/A	2,2	3
MM CAL B-NM 32/20D/A	MM CAL NM 32/20D/A	2,2	3
MM CAL B-NM 32/20C/A	MM CAL NM 32/20C/A	3	4
MM CAL B-NM 32/20A/A	MM CAL NM 32/20A/A	4	5,5

**COMPLETE DATASHEETS AND
TECHNICAL SPECIFICATIONS
AVAILABLE UPON REQUEST**

Performance $n \approx 2900$ rpm			
B-NM	NM	P2	
		kW	HP
MM CAL B-NM 40/12F	MM CAL NM 40/12F/A	1,1	1,5
MM CAL B-NM 40/12C	MM CAL NM 40/12C/A	1,5	2
MM CAL B-NM 40/12A/A	MM CAL NM 40/12A/B	2,2	3
MM CAL B-NM 40/16C/A	MM CAL NM 40/16C/B	2,2	3
MM CAL B-NM 40/16B/A	MM CAL NM 40/16B/B	3	4
MM CAL B-NM 40/16A/A	MM CAL NM 40/16A/B	4	5,5
MM CAL B-NM 40/20D/A	MM CAL NM 40/20D/A	4	5,5
MM CAL B-NM 40/20C/A	MM CAL NM 40/20C/A	4	5,5
MM CAL B-NM 40/200B/A	MM CAL NM 40/200B/A	5,5	7,5
	MM CAL NM 40/20AR/A	5,5	7,5
MM CAL B-NM 40/200A/A	MM CAL NM 40/20A/A	7,5	10
MM CAL B-NM 4025/C/B	MM CAL NM 40/25C/B	9,2	12,5
MM CAL B-NM 4025/B/B	MM CAL NM 40/25B/B	11	15
MM CAL B-NM 4025A/B	MM CAL NM 40/25A/B	15	20

Performance n ≈ 2900 rpm			
B-NM	NM	P2	
		kW	HP
MM CAL B-NM 50/12F/A	MM CAL NM 50/12F/B	2,2	3
MM CAL B-NM 50/12D/A	MM CAL NM 50/12D/B	3	4
MM CAL B-NM 50/12A/A	MM CAL NM 50/12A/B	4	5,5
MM CAL B-NM 50/12S/A	MM CAL NM 50/12S/B	4	5,5
MM CAL B-NM 50/160B/B	MM CAL NM 50/16B/B	5,5	7,5
MM CAL B-NM 50/160A/B	MM CAL NM 50/16A/B	7,5	10
MM CAL B-NM 50/200B/B	MM CAL NM 50/20B/B	9,2	12,5
MM CAL B-NM 50/200A/B	MM CAL NM 50/20A/B	11	15
MM CAL B-NM 50/200S/B	MM CAL NM 50/20S/B	15	20
MM CAL B-NM 5025/C/B	MM CAL NM 50/25C/B	11	15
MM CAL B-NM 5025/B/B	MM CAL NM 50/25B/B	15	20
MM CAL B-NM 5025/A/B	MM CAL NM 50/25A/B	18,5	25
MM CAL B-NM 5025/65E/A	MM CAL NM 50M/E/A	11	15
MM CAL B-NM 5025/65D/A	MM CAL NM 50M/D/A	15	20
MM CAL B-NM 5025/65C/A	MM CAL NM 50M/C/A	18,5	25

Performance n ≈ 2900 rpm			
B-NM - B-NMS	NM - NMS	P2	
		kW	HP
	MM CAL NM 65/12E/A	4	5,5
MM CAL B-NM 65/125C/A	MM CAL NM 65/12C/A	5,5	7,5
MM CAL B-NM 65/125A/A	MM CAL NM 65/12A/A	7,5	10
MM CAL B-NM 65/160E/A	MM CAL NM 65/16E/A	5,5	7,5
MM CAL B-NM 65/160D/A	MM CAL NM 65/16D/A	7,5	10
MM CAL B-NM 65/160C/A	MM CAL NM 65/16C/A	9,2	12,5
MM CAL B-NM 65/160B/A	MM CAL NM 65/16B/A	11	15
MM CAL B-NM 65/160A/A	MM CAL NM 65/16A/A	15	20
MM CAL B-NM 65/200C/A	MM CAL NM 65/20C/A	15	20
MM CAL B-NM 65/200B/A	MM CAL NM 65/20B/A	18,5	25
MM CAL B-NM 65/200A/A	MM CAL NM 65/200A/A	22	30
MM CAL B-NM 65/250C/A	MM CAL NM 65/250C/A	22	30
MM CAL B-NM 65/250B/A	MM CAL NM 65/250B/A	30	40
MM CAL B-NMS 65/250A	MM CAL NMS 65/250A	37	50

Performance n ≈ 2900 rpm			
B-NM - B-NMS	NM - NMS	P2	
		kW	HP
MM CAL B-NM 80/160E/A	MM CAL NM 80/16E/A	7,5	10
MM CAL B-NM 80/160D/A	MM CAL NM 80/16D/A	9,2	12,5
MM CAL B-NM 80/160C/A	MM CAL NM 80/16C/A	11	15
MM CAL B-NM 80/160B/A	MM CAL NM 80/16B/A	15	20
MM CAL B-NM 80/160A/A	MM CAL NM 80/16A/A	18,5	25
MM CAL B-NMS 80/200B	MM CAL NM 80/200B/A	22	30
MM CAL B-NMS 80/200A	MM CAL NM 80/200A/A	30	40
MM CAL B-NMS 80/250E	MM CAL NM 80/250E/A	22	30
MM CAL B-NMS 80/250D	MM CAL NM 80/250D/A	30	40
MM CAL B-NMS 80/250C	MM CAL NMS 80/250C	37	50
MM CAL B-NMS 80/250B	MM CAL NMS 80/250B	45	60
MM CAL B-NMS 80/250A	MM CAL NMS 80/250A	55	75
MM CAL B-NMS 100/200E	MM CAL NM 100/200E/A	18,5	25
MM CAL B-NMS 100/200D	MM CAL NM 100/200D/A	22	30
MM CAL B-NMS 100/200C	MM CAL NM 100/200C/A	30	40
MM CAL B-NMS 100/200B	MM CAL NMS 100/200B	37	50
MM CAL B-NMS 100/200A	MM CAL NMS 100/200A	45	60
MM CAL B-NMS 100/250B	MM CAL NMS 100/250B	55	75
MM CAL B-NMS 100/250A	MM CAL NMS 100/250A	75	100

- SPARE PARTS
- REPAIR KITS
- REBUILD KITS
- GASKETS/SEALS KITS
- REMAN PUMPS

AVAILABLE UPON REQUEST

When ordering please provide:

- Pump model
- Pump serial
- Part number (if known)


SWIMMING-POOL AND WHIRPOOL PUMPS - SPA

Motor

2-pole induction motor, 50 Hz ($n = 2800$ rpm).

SPA: three-phase 230/400 V $\pm 10\%$.

SPAM: single-phase 230 V $\pm 10\%$, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP X5.

Classification scheme IE2 for three-phase motors from 0,75 kW.

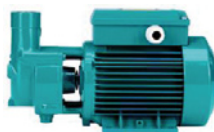
Constructed in accordance with:

EN 60034-1; EN 60034-30.

EN 60335-1, EN 60335-2-41.

MATERIALS	
Component	Material
Pump casing Union coupling Diffuser cover Impeller	ABS (Acrylonitrile-Butadiene-Styrene)
Diffuser-wall with wear-ring	Glass reinforced thermoplastic: PPO-GF30, NORYL* Cr-Ni-Mostainless steel 1.4401 EN 10088 (AISI 316)
Mechanical seal	Ceramic alumina, Carbon, FPM

Performance $n \approx 2800$ rpm		
3~	230 V (A)	400 V (A)
MM CAL SPA 11	2,8	1,6
MM CAL SPA 21/A	3	1,7
MM CAL SPA 31/A	3,7	2,2
MM CAL SPA 41	4,7	2,7


SELF-PRIMING PUMPS - CA

Motor

2-pole induction motor, 50 Hz ($n = 2900$ rpm).

CA: three-phase 230/400 V $\pm 10\%$.

CAM: single-phase 230 V $\pm 10\%$, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with:

EN 60034-1; EN 60034-30.

EN 60335-1, EN 60335-2-41.

MATERIALS		
Component	CA	B-CA
Pump casing Lantern bracket	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705	
Shaft	Chrome steel 1.4104 EN 10088 AISI 430	Cr-Ni-Mo steel 1.4401 EN 10088 AISI 316
Mechanical seal	Carbon - Ceramic - NBR	

Performance $n \approx 2800$ rpm		
3~	230 V (A)	400 V (A)
MM CAL CA 60E MM CAL B-CA 60E	1,7	1
MM CAL CA 80E MM CAL B-CA 80/A	2,8 2,3	1,6 1,3
MM CAL CA 90/A MM CAL B-CA 90/A	3	1,7
MM CAL CA 91/A MM CAL B-CA 91/A	3,7	2,2

**IMMERSION PUMPS - VAL, SC****Motor**

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

CA: three-phase 230/400 V $\pm 10\%$.

CAM: single-phase 230 V $\pm 10\%$, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with:

EN 60034-1; EN 60034-30.

EN 60335-1, EN 60335-2-41.

MATERIALS		
Component	VAL	SC
Pump casing Lower bearing housing*	Cast iron GJL 200 EN 1561	Cast iron GJL 200 EN 1561
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705for VAL 30	Brass P-Cu Zn 40 Pb 2 UNI 5705
	Cast iron GJL 200 EN 1561for VAL 65	
Shaft	Steel C 40 UNI 7231	
Bearing bush	Tecnopolymer	
Shaft sleeve	Chromate Bronze for VAL65	-

* Not existing for VAL

Performance $n \approx 2900$ rpm		
3~	230 V (A)	400 V (A)
MM CAL VAL 30/A	2,3	1,3
MM CAL VAL 65E	7,5	4,3
MM CAL VAL 65-R/A	9,15	5,3
MM CAL SC 30/A	2,3	1,3
MM CAL SC 50/A	2,3	1,3

**PERIPHERAL IMMERSION PUMPS - BVT****Motor**

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

B-VT: three-phase 230/400 V $\pm 10\%$ (220-240 / 380-415 V).

Insulation class F.

Protection IP 54.

Constructed in accordance with: EN 60034-1.

MATERIALS	
Component	Material
Pump casing	Bronze G-Cu Sn 10 EN 1982
Casing cover	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Bearing sleeve	Corrosion-resistant Cr-Mo steel
Bearing in the casing	Polymer
Screws	Cr-Ni steel 1.4301 EN 10088 (AISI 304)

Performance $n \approx 2900$ rpm		
3~	230 V (A)	400 V (A)
MM CAL VAL B-VT60/170	1,9	1,1
MM CAL VAL B-VT65/170	2,8	1,6

**Motor**

2-4-pole induction motor, 50 Hz.
Three adjustable speeds.
NC: three-phase 230V or 400 V.
NCM: single-phase 230 V.
Insulation class H.
Protection IP 43.

MATERIALS

Pump casing	Cast iron
Impeller	Stainless steel
Shaft Stainless steel	Stainless steel

Type	DN	PN	N° Poli		Pos.	P1 (W)	1 x 230V (A)	A (mm)	(Kg)
			2	4					
MM CAL NCM 40-80/220	40	6/10	✓		3 2 1	206 185 120	0,91 0,88 0,60	150	8,1
MM CAL NCM 40-85/220	40	6/10	✓		3 2 1	277 250 172	1,20 1,16 0,85	175	8,8

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	1 x 230V (A)	(Kg)
			2	4					
MM CAL NCM4 50-60/280	50	6/10		✓	3 2 1	1260 1030 740	415 300 230	1,8 1,3 1,0	24,5
MM CAL NCM 50-120/280	50	6/10	✓		3 2 1	2720 1870 1450	830 480 390	3,6 2,1 1,7	24,5

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	3 x 400V (A)	(Kg)
			2	4					
MM CAL NC 40-60/250	40	6/10		✓	3 2 1	1440 1200 660	240 160 100	0,76 0,24 0,11	17,0
MM CAL NC4 40-40/250	40	6/10	✓		3 2 1	2790 2240 1440	320 240 140	0,74 0,36 0,18	17,5
MM CAL NC 40-120/250	40	6/10	✓		3 2 1	2820 2200 1250	560 400 220	1,16 0,64 0,26	19,0

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	3 x 400V (A)	(Kg)
			2	4					
MM CAL NC4 65-30/340	65	6/10		✓	3 2 1	1430 1150 600	400 260 120	1,10 0,50 0,22	29,0
MM CAL NC4 65-60/340	65	6/10		✓	3 2 1	1370 950 450	600 360 120	1,25 0,64 0,22	29,0
MM CAL NC 65-120/340	65	6/10	✓		3 2 1	2810 2200 1250	1560 960 460	2,80 1,70 0,84	31,0

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	1 x 230V (A)	(Kg)
			2	4					
MM CAL NCM 40-60/250	40	6/10	✓		3 2 1	2690 2360 1820	285 245 225	1,20 1,18 1,15	17,5
MM CAL NCM 40-120/250	40	6/10	✓		3 2 1	2750 2100 1270	550 475 355	2,35 2,30 1,85	19,0

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	3 x 400V (A)	(Kg)
			2	4					
MM CAL NC4 80-60/360	80	10		✓	3 2 1	1350 1000 600	960 560 200	2,20 1,10 0,38	33,5
MM CAL NC 80-120/360	80	10	✓		3 2 1	2800 2160 1200	2200 1400 550	3,80 2,40 1,05	34,5

Type	DN	PN	N° Poli		Pos.	1/ min	P1 (W)	3 x 400V (A)	(Kg)
			2	4					
MM CAL NC4 50-40/280	50	6/10		✓	3 2 1	1450 1220 620	340 240 120	1,05 0,44 0,22	24,0
MM CAL NC4 50-60/280	50	6/10		✓	3 2 1	1400 1000 560	470 300 100	1,15 0,55 0,20	24,0
MM CAL NC 50-120/280	50	6/10	✓		3 2 1	2800 2330 1270	950 540 265	1,73 1,05 0,46	24,0

GIANNESCHI
pumps and blowers

ACB 61G - ACB 80 - ACB 90 SELF-PRIMING EL/PUMPS



ACB 61G



ACB 80

Bilge, chain washing, fire-fighting, intake diesel oil, water supply and all application with high air content liquids, etc.

Construction Features:

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal. HIGH QUALITY IN CERAMIC, GRAPHITE INOX

Motors:

Insulation: "F" class

Protections: "IP 22" D.C.; "IP 44/55" A.C.

Voltages: 12 - 24V D.C.; 1~230V; ~230/400V; A.C. 50Hz

EL/PUMP	INST. POWER (kW)	VOLTAGE (V)	RPM
MM GNN ACB 61 G	0.18	12 - 24 C.C. - D.C.	3200
MM GNN ACB 61RG	0.25	12 - 24 C.C. - D.C.	3400
MM GNN ACB 80	0.37	12 - 24 C.C. - D.C.	3000
MM GNN ACB 90	0.44	24 C.C. - D.C.	2800
MM GNN ACB 60	0,15	230 1~, 230/400 3~ C.A. 50Hz	2800
MM GNN ACB 80	0.37	230 1~, 230/400 3~ C.A. 50Hz	2800
MM GNN ACB 90	0.55	230 1~, 230/400 3~ C.A. 50Hz	2800

GIANNESCHI
pumps and blowers

ACB 331 - ACB 332 - ACB 431 - ACB 531 SELF-PRIMING EL/ PUMPS



ACB 431



ACB 331

Bilge, fire-fighting, chain washing, intake diesel oil, plants water supply, mixtures with high air content liquids handling, etc

Construction Features:

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal. HIGH QUALITY ON CERAMIC, GRAPHITE INOX

Motors:

Insulation: "F" class

Protections: "IP 22" for D.C. ; "IP 44/55" for A.C.

Voltages: 24V D.C.

230V 1~; 208/360V 230/400V 3~ A.C. 50/60Hz

EL/PUMP	INST. POWER (kW)	VOLTAGE (V)	RPM
MM GNN ACB 331/1	0.9	24 C.C.-D.C.	1500
MM GNN ACB 331/2	1.1	24 C.C.-D.C.	1500
MM GNN ACB 332	1.5	24 C.C.-D.C.	1500
MM GNN ACB 431	1.5	24 C.C.-D.C.	1500
MM GNN ACB 331/B	1.5	230 1~, 230/400 3~ C.A. 50Hz	1450
MM GNN ACB 331/A	1.8	230 1~, 230/400 3~ C.A. 60Hz	1750
MM GNN ACB 332/B	2.2	230 1~, 230/400 3~ C.A. 50Hz	1450
MM GNN ACB 431/C	3.0	230/400 3~ C.A. 50Hz	1450
MM GNN ACB 431/B	2.2	230 1~, 230/400 3~ C.A. 50Hz	1450
MM GNN ACB 431/A	3.0	230/400 3~ C.A. 60Hz	1750
MM GNN ACB 531	4	230 1~,230/400 3~ C.A. 50Hz	1450

CP SELF-PRIMING EL/PUMPS

CP 20G

CP 30G

CP 40/100

Intake diesel oil, intake liquids (sea and fresh water), grey water discharge (galley and showers), bilge, etc.

Construction Features:

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal. HIGH QUALITY IN CERAMIC, GRAPHITE INOX

Motors:

Insulation: "F" class

Protections: "IP 22" for D.C. ; "IP 44/55" for A.C.

Voltages: 12 V D.C.; 24 V D.C.;

230V 1~; 230/400 V 3~ A.C. 50Hz (60Hz on request)

- **SPARE PARTS**
- **REPAIR KITS**
- **REBUILD KITS**
- **GASKETS/SEALS KITS**
- **REMAN PUMPS**

AVAILABLE UPON REQUEST

When ordering please provide:

- **Pump model**
- **Pump serial**
- **Part number (if known)**

EL/PUMP	INST. POWER (kW)	ABSOR. (A)	VOLTAGE (V)	RPM
MM GNN CP 20/1 G	0.15	27 13	12 24 c.c. - d.c.	2600
MM GNN CP 20/2 G	0.30	32 18	24 c.c. - d.c.	2800
MM GNN CP 25/1 A	0.20	29 16	12 24 c.c. - d.c.	1900
MM GNN CP 25/2 A	0.40	24	24 c.c. - d.c.	2200
MM GNN CP 30 G	0.50	28	24 c.c. - d.c.	1500
MM GNN CP 32 A	0.60	34	24 c.c. - d.c.	2200
MM GNN CP 40	0.75	45	24 c.c. - d.c.	1500
MM GNN CP 40/160	1.5	62	24 c.c. - d.c.	1400
MM GNN CP 40/100	1.5	65	24 c.c. - d.c.	1400
MM GNN CP 20 G	0.37		230 1~ 230/400 3~ C.A. 50Hz	2800
MM GNN CP 30 G	0.37		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 30 G	0,55		230 1~ 230/400 3~ C.A. 60Hz	1750
MM GNN CP 32 A *	0.37		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 40	0.75		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 40/160	1.5		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 40/100	1.5		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 40/140	2.2		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 50/180	3.0		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 50/160	4.0		230 1~ 230/400 3~ C.A. 50Hz	1450
MM GNN CP 50/190	4.0		230 1~ 230/400 3~ C.A. 50Hz	1450

**COMPLETE DATASHEETS AND
TECHNICAL SPECIFICATIONS
AVAILABLE UPON REQUEST**

GIANNESCHI
pumps and blowers

ALTERNATING CURRENT 50HZ SELF-PRIMING EL/PUMPS



ACM BT 50HZ (C.A. – A.C.)

Bilge, fire-fighting, chain washing, intake diesel oil, plants water supply, mixtures with high air content liquids handling, etc

Construction Features:

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal.: HIGH QUALITY IN CERAMIC, GRAPHITE INOX

Motors:

Insulation: "F" class

Protections: "IP 54/55"

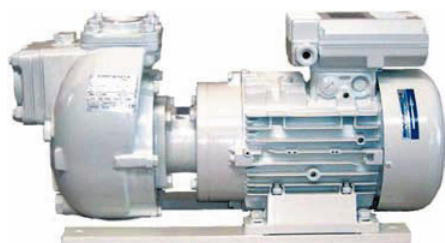
Voltages: 1~230V 50Hz

3~230/380V - 400/690V 50Hz

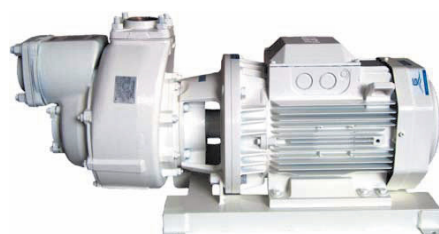
EL/PUMP	INST. POWER (kW)	RPM
MM GNN ACM 311 BT	1,1	1450
MM GNN ACM 312 BT	2,2	1450
MM GNN ACM 313 BT	3	1450
MM GNN ACM 401 BT	2,2	1450
MM GNN ACM 402 BT	4	1450
MM GNN ACM 403 BT	5,5	1450
	7,5	1450

GIANNESCHI
pumps and blowers

BMA SELF-PRIMING EL/ PUMPS



BMA 40



BMA 65/203 Z

Fire-fighting, ballast, bilge, chain washing, air conditioning system, water circulation in general, etc.

Construction Features:

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal.: HIGH QUALITY ON CERAMIC, GRAPHITE INOX

Motors:

Insulation: "F" class

Protections: "IP 22" for D.C. ; "IP 54/55" for A.C."

Voltages: 24V D.C. - 1~230V 50Hz

3~230/380V - 400/690V 50Hz

EL/PUMP	POWER (kW)	VOLTAGE (V)	RPM
MM GNN BMA 50/125	1,5	24 D.C.	3000
MM GNN BMA 50/125A	1,5	230 1~	2800
MM GNN BMA 40	3.0	230/400, 3~	2800
MM GNN BMA 50	5,5	230V 1~	2800
MM GNN BMA 50/180 S2	5,5	230/400, 3~	2800
MM GNN BMA 50/220	11	230/400, 3~	2800
MM GNN BMA 65/150	4.0	400/690, 3~	2800
MM GNN BMA 65/180 Z	11	400/690, 3~	2800
MM GNN BMA 65/190 Z	15	400/690, 3~	2800
MM GNN BMA 65/203 Z	18.5	400/690, 3~	2800

GIANNESCHI
pumps and blowers

SUB - SUBMERSIBLE EL/ PUMPS



MINI SUB



MAXI SUB-VORTEX



MAXI SUB

Bilge discharge, tank emptying, basement, pool, etc...

Construction Features:

Body pump: ABS (Minisub); PPO-FG (Maxi-Sub)

Impeller: ABS Polymer

Shaft: STAINLESS STEEL AISI 316

Mechanical seal.: HIGH QUALITY

Motors:

Insulation: "F" class

Protections: "IP 68"

EL/PUMP	POWER (kW)	ABSOR. (A)	VOLTAGE (V)
MM GNN MINISUB3700	0.16	20 – 10	12 - 24 C.C.-D.C.
MM GNN MAXISUB	0.18	12 - 24	12 - 24 C.C.-D.C 230 1~, C.A./A.C. 50Hz.
MM GNN MAXISUBVORTEX	0.18	12 - 24	12 - 24 C.C.-D.C 230 1~, C.A./A.C. 50Hz.



RULE GOLD SERIES 3700 NON-AUTOMATIC BILGE PUMP

Flow Rate: 3700 GPH, Port Size: 1-1/2"

Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps, Fuse: 25 Amp

Moisture-Tight Seals, Double Insulated Motor for Vibration-Free Operation

Code: MM JAB 502682



RULE GOLD SERIES 1500 NON-AUTOMATIC BILGE PUMP

Flow Rate: 1500 GPH, Port Size: 1-1/8"

Nominal Voltage: 12 Volt DC, Max. Current Draw: 4.8 Amps, Fuse: 10 Amp

Moisture-Tight Seals, Double Insulated Motor for Vibration-Free Operation

Code: MM JAB 502681



JABSCO 36960 SERIES DIAPHRAGM BILGE PUMP

Flow Rate: 3700 GPH, Port Size: 1-1/2"

Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps, Fuse: 25 Amp

Moisture-Tight Seals, Double Insulated Motor for Vibration-Free Operation

Code: MM JAB 500723





JABSCO 36680 SERIES DIAPHRAGM BILGE PUMP



Flow Rate: 5.5 GPM, Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 7 Amps,
Fuse: 10 Amp
Pumpgard Inlet Strainer Supplied with Pump

Code: MM JAB 500724

JABSCO 36600 SERIES DIAPHRAGM BILGE PUMP



Flow Rate: 8 GPM, Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 11 Amps,
Fuse: 15 Amp
Pumpgard Inlet Strainer Supplied with Pump

Code: MM JAB 500725

JABSCO 36600 SERIES DIAPHRAGM BILGE PUMP



Flow Rate: 8 GPM, Port Size: 3/4"
Nominal Voltage: 24 Volt DC, Max. Current Draw: 5.5 Amps,
Fuse: 8 Amp
Pumpgard Inlet Strainer Supplied with Pump

Code: MM JAB 506380

FLOJET 4125 SERIES BILGE PUMP



Flow Rate: 5 GPM, Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.5 Amps,
Fuse: 15 Amp
Self-Priming, Capable of Running Dry without Damage

Code: MM JAB 500662

RULE 1000 NON-AUTOMATIC BILGE PUMP



Flow Rate: 1000 GPH, Port Size: 1-1/8"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 2.9 Amps,
Fuse: 5 Amp
Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500684

RULE 1100 NON-AUTOMATIC BILGE PUMP



Flow Rate: 1100 GPH, Port Size: 1-1/8"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 3.3 Amps,
Fuse: 6 Amp
Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500683

RULE 2000 NON-AUTOMATIC BILGE PUMP



low Rate: 2000 GPH, Port Size: 1-1/8"
Nominal Voltage: 24 Volt DC, Draw: 4 Amps, Fuse: 7.5 Amp
Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 501673

RULE 2000 NON-AUTOMATIC BILGE PUMP



Flow Rate: 2000 GPH, Port Size: 1-1/8"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.4 Amps,
Fuse: 15 Amp
Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500680



RULE GOLD SERIES 2000 NON-AUTOMATIC BILGE PUMP



Flow Rate: 2000 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.4 Amps,
 Fuse: 15 amp
 Moisture-Tight Seals, Double Insulated Motor for Vibration-Free
 Operation

Code: MM JAB 500679

RULE 3700 NON-AUTOMATIC BILGE PUMP



Flow Rate: 3700 GPH, Port Size: 1-1/2"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps,
 Fuse: 25 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500678

RULE 2000 NON-AUTOMATIC BILGE PUMP



Flow Rate: 2000 GPH, Port Size: 1-1/8"
 Nominal Voltage: 32 Volt DC, Max. Current Draw: 3.1 Amps,
 Fuse: 6 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 501262

RULE 4000 NON-AUTOMATIC BILGE PUMP



Flow Rate: 4000 GPH, Port Size: 2"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps,
 Fuse: 25 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500676

RULE 1500 NON-AUTOMATIC BILGE PUMP



Flow Rate: 1500 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 4.8 Amps,
 Fuse: 10 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500681

RULE 800 NON-AUTOMATIC BILGE PUMP



Flow Rate: 800 GPH, Port Size: 3/4"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 2.8 Amps,
 Fuse: 5 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500685

RULE 500 NON-AUTOMATIC BILGE PUMP



Flow Rate: 500 GPH, Port Size: 3/4"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 1.9 Amps,
 Fuse: 2.5 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500686

RULE 500 NON-AUTOMATIC BILGE PUMP



Flow Rate: 500 GPH, Port Size: 3/4"
 Nominal Voltage: 24 Volt DC, Max. Current Draw: 0.9 Amps,
 Fuse: 1.5 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500687



RULE 360 NON-AUTOMATIC BILGE PUMP



Flow Rate: 360 GPH, Port Size: 3/4"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 2.1 Amps,
 Fuse: 2.5 Amp
 Pump Activated by Separate Float Switch (Not Included)

Code: MM JAB 500690

RULE 500 ELECTRONIC AUTOMATIC BILGE PUMP - 12 VOLT



Flow Rate: 500 GPH, Port Size: 3/4"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 1.9 Amps,
 Fuse: 2.5 Amp
 Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500688

RULE-MATE 1500 AUTOMATED BILGE PUMP



Flow Rate: 1500 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 4.8 Amps,
 Fuse: 10 Amp
 Pump and Electronic Water Sensing Device in a Single, Compact Housing

Code: MM JAB 502557

RULE-MATE 2000 AUTOMATED BILGE PUMP



Flow Rate: 2000 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.4 Amps,
 Fuse: 15 Amp
 Pump and Electronic Water Sensing Device in a Single, Compact Housing

Code: MM JAB 502558

RULE 1100 ELECTRONIC AUTOMATIC BILGE PUMP



Flow Rate: 1100 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 3.3 Amps,
 Fuse: 5 Amp
 Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500682

RULE 1800 ELECTRONIC AUTOMATIC BILGE PUMP



Flow Rate: 1800 GPH, Port Size: 1-1/8"
 Nominal Voltage: 110 Volt AC, Power Consumption: 100 Watts
 Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500649

RULE 2000 ELECTRONIC AUTOMATIC BILGE PUMP



Flow Rate: 2000 GPH, Port Size: 1-1/8"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.4 Amps,
 Fuse: 15 Amp
 Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500674

RULE 3700 ELECTRONIC AUTOMATIC BILGE PUMP



Flow Rate: 3700 GPH, Port Size: 1-1/2"
 Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps,
 Fuse: 25 Amp
 Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500673



RULE-MATE 500 AUTOMATED BILGE PUMP



Flow Rate: 500 GPH, Port Size: 3/4" No Float Switch Required
Specify Voltage, Max. Current Draw: 2 Amps @ 12 Volt DC
Pump and Electronic Water Sensing Device in a Single, Compact Housing

Code: MM JAB 501517

RULE-MATE 1100 AUTOMATED BILGE PUMP



Flow Rate: 1100 GPH, Port Size: 1-1/8"
Specify Voltage, Max. Current Draw: 3.4 Amps @ 12 Volt DC
Pump and Electronic Water Sensing Device in a Single, Compact Housing

Code: MM JAB 501519

JABSCO UTILITY HAND PUMP



Flow Rate: 15 Strokes per Gallon, Port Size: 1/2" Hose Connection
Power: Manual, Includes 5'- 1/2" Hose
Applications Include Bilge Pumping, Oil Draining, Diesel Fuel Transfer

Code: MM JAB 501415

FLOJET 4105 SERIES CIRCULATION / FEEDER PUMP



Flow Rate: 3.3 GPM, 10 PSI Max., Port Size: 3/4"
Nominal Voltage: 12 Volts DC, Max. Current Draw: 3.6 Amps,
Fuse: 10 Amp
General-Purpose Pump Suitable for Diesel Transfer

Code: MM JAB 500668

RULE-MATE 750 AUTOMATED BILGE PUMP



Flow Rate: 750 GPH, Port Size: 3/4"
Specify Voltage, Max. Current Draw: 2.7 Amps @ 12 Volt DC
Pump and Electronic Water Sensing Device in a Single, Compact Housing

Code: MM JAB 501518

RULE 4000 ELECTRONIC AUTOMATIC BILGE PUMP



Flow Rate: 4000 GPH, Port Size: 1-1/2"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps,
Fuse: 25 Amp
Pump Automatically Checks for Water Every 2-1/2 Minutes

Code: MM JAB 500672

RULE GENERAL PURPOSE CENTRIFUGAL PUMP



Flow Rate: 3800 GPH, Port Size: 1-1/2"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 15.5 Amps,
Fuse: 25 Amp
Designed for Use as Washdown Pump or to Circulate Water to Livewell Tanks

Code: MM JAB 500677

FLOJET 4125 SERIES DIAPHRAGM PUMP



Flow Rate: 5.0 GPM, 10 PSI Max., Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 8.5 Amps,
Fuse: 15 Amp
Bait Tank, Diesel Transfer and General-Purpose Pump, Includes Inlet Strainer

Code: MM JAB 500669



JABSCO WATER PUPPY BRONZE PUMP



Flow Rate: 6.3 GPM, Port Size: 1/2" FPT, 1" Hose
Nominal Voltage: 12 Volts DC, Max. Current Draw: 8 Amps,
Fuse: 15 Amp
Designed for Bilge, Livewell, Washdown and General Pumping
Requirements

Code: MM JAB 502560

JABSCO LIGHT DUTY VANE PUMP



Flow Rate: 6 GPM, Port Size: 1/2" or 1"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 8 Amps, Fuse:
15 Amp
Self-Priming, Ideal for Diesel Fuel Transfer

Code: MM JAB 500551

RULE IL500 PLUS PORTABLE PUMP KIT



Flow Rate: 500 GPH, 14 PSI Max., Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 6 Amps
Kit Includes Pump, 13' Hose, Spray Nozzle and 12 Volt DC Battery
Clips

Code: MM JAB 506388

WHALE UNIVERSAL FRESHWATER PRESSURE PUMP



Flow Rate: 4.75 GPM, 45 PSI Max., Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Fuse: 12 Amp
Includes Inlet Strainer, 4-Diaphragm Design Ensures Consistent
Flow

Code: MM JAB 501282

JABSCO COMMERCIAL CIRCULATION PUMP



Flow Rate: 2.7 GPM, Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 1.2 Amps,
Fuse: 2 Amp
Magnetic Drive Hot Water Circulation Pump

Code: MM JAB 502387

JABSCO BALLAST PUPPY WAKEBOARD TOWBOAT BALLAST PUMP



Flow Rate: 11 GPM, Port Size: 1/2" FPT, 1" Hose
Nominal Voltage: 12 Volt DC, Max. Current Draw: 11.5 Amps,
Fuse: 20 Amp
Designed to Pump Water Into and Out of Wakeboard Liquid
Ballast Tanks

Code: MM JAB 501058

JABSCO PAR-MAX 3.5 SHOWER DRAIN / GENERAL PURPOSE PUMP



Flow Rate: 3.5 GPM, Port Size: 3/4"
Nominal Voltage: 12 Volt DC, Max. Current Draw: 9 Amps, Fuse:
15 Amp
Serves (3) or More Outlets with Exceptional Flow & Consistent
Water Pressure

Code: MM JAB 506377

RULE CHARGE N' FLOW PORTABLE AND RECHARGEABLE PUMP KIT



Flow Rate: 280 GPH, Pumps up to
100 Gallons per Charge
Nominal Voltage: 12 Volt DC with
Rechargeable Battery
Versatile, Compact Pump with
Multiple Power Options

Code: MM JAB 501410



RULE POOL COVER DRAIN PUMP WITH LEAF PROTECTOR



110 V

Flow Rate: 1800 GPH, Port Size: Garden Hose
Nominal Voltage: 110 Volt AC, Power Consumption: 100 Watts
Includes 24 ft. Cord

Code: MM JAB 501411

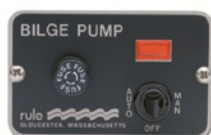
RULE AQUACHARGE PORTABLE WATER PUMP KIT



Flow Rate: Up to 50 Gallons in Less than 10 Minutes, Port Size: Garden Hose
Nominal Voltage: 12 Volt DC or 100 Volt AC
Kit Includes Pump, 8' Hose, Battery and AC / DC Charging Station

Code: MM JAB 502619

RULE 3-WAY LIGHTED PANEL SWITCH



3-Position Toggle Switch (Automatic / Off / Manual) with Indicator Light
Specify Voltage, Max. Current Draw: 20 Amps @ 12 Volt DC
Controls Any Bilge Pump Equipped with an Automatic Float Switch

Code: MM JAB 501497

RULE 3-WAY LIGHTED ROCKER PANEL SWITCH



3-Position Rocker Switch (Automatic / Off / Manual) with Indicator Light
Nominal Voltage: 24 Volt DC, Max. Current Draw: 10 Amps
Controls Any Bilge Pump Equipped with an Automatic Float Switch

Code: MM JAB 502677

JABSCO COMMERCIAL DUTY WATER PUPPY BRONZE PUMP



Flow Rate: 8 GPM, Port Size: 1/2" FPT, 1" Hose Barb
Nominal Voltage: 12 Volt DC, Max. Current Draw: 11.5 Amps, Fuse: 20 Amp
Applications Include Bilge Pumping, Livewell Circulation and Washdowns

Code: MM JAB 506395

JABSCO HIGH PRESSURE CENTRIFUGAL CYCLONE PUMP



24 V

Flow Rate: 21 GPM, Port Size: 3/4"
Nominal Voltage: 24 Volt DC, Max. Current Draw: 10.5 Amps, Fuse: 15 Amp
Circulation Applications Include Hot Water Systems, Bait Tank Installations

Code: MM JAB 506420

RULE 3-WAY LIGHTED ROCKER PANEL SWITCH



3-Position Rocker Switch (Automatic / Off / Manual) with Indicator Light
Nominal Voltage: 12 Volt DC, Max. Current Draw: 20 Amps
Controls Any Bilge Pump Equipped with an Automatic Float Switch

Code: MM JAB 502676

RULE 3-WAY PANEL SWITCH



3-Position Toggle Switch (Automatic / Off / Manual)
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 20 Amps
Dimensions: 2" H x 2-1/4" W

Code: MM JAB 502678



RULE 2-WAY PANEL SWITCH



Simple 2-Position Toggle Switch (On / Off)
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 20 Amps
Dimensions: 2" H x 2-1/4" W

Code: MM JAB 502679

RULE HIGH WATER BILGE ALARM - 33ALA



Rule-A-Matic Plus Automatic Float Switch with In-Dash Gauge
Nominal Voltage: 12 Volt DC, Max. Current Draw: 20 Amps
In-Dash Gauge Features Visual and 85 dB Audible Alarms

Code: MM JAB 500054

RULE SUPERSWITCH FLOAT SWITCH - 37A



Mercury-Free Automatic Float Switch
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 20 Amps
Heavy Duty Float Switch Converts Any Pump to Automatic Operation

Code: MM JAB 500052

RULE SUPERSWITCH FLOAT SWITCH - 37FA



Mercury-Free Automatic Float Switch with Inline Fuse Holder
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 20 Amps
Heavy Duty Float Switch Converts Any Pump to Automatic Operation

Code: MM JAB 500053

RULE-A-MATIC PLUS FLOAT SWITCH - 40A



Mercury-Free Automatic Float Switch with Integrated Cover
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 20 Amps
Detachable Mounting Base for Easy Installation, Inspection and Cleaning

Code: MM JAB 500055

RULE-A-MATIC FLOAT SWITCH - 35A



Mercury-Free Automatic Float Switch
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 14 Amps
Detachable Mounting Base for Easy Installation, Inspection and Cleaning

Code: MM JAB 500050

RULE-A-MATIC FLOAT SWITCH - 35FA



Mercury-Free Automatic Float Switch with Inline Fuse Holder
Nominal Voltage: 12 / 24 / 32 Volt DC, Max. Current Draw: 14 Amps
Detachable Mounting Base for Easy Installation, Inspection and Cleaning

Code: MM JAB 500051

**FOR BILGE
MAINTENANCE
CHEMICALS**

**PLEASE GO TO
SECTION 27**

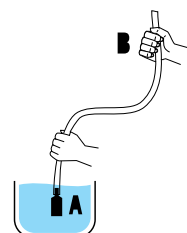


SUCTION HAND PUMP

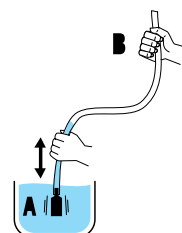


Length 160cm

Code	Diameter (mm)
MM LZS 70002	19
MM LZS 70003	25

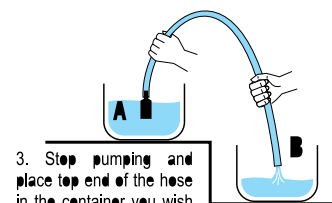


1. Place the bottom end A of the hosepipe into the tank with the liquid that you wish to pump out and hold the top end B of the hosepipe upright



2. Shake the bottom end of the hose vigorously up and down until the liquid rises in the hose, continue pumping until the liquid passes balance level

ATTENTION: Make sure that the empty container is placed below the level of the container you wish to empty



3. Stop pumping and place top end of the hose in the container you wish to fill and the liquid will flow automatically

SUITABLE FOR PETROL - DIESEL - WATER



ORCA AUTO 1300 ELECTRIC BILGE PUMP



Integrated Electronics

Fully potted IC built in intelligent control.

Microprocessor electronics sealed for protection against water ingress.

Fully Protected

Robust housing made from fuel resistant ABS.

Easy Install

25mm (1") 28mm (1 1/8") stepped connection ports to suit your installation.

Efficiency

Large surface area ensures maximum area exposed to bilge water

Code	MM WHA BE1482	MM WHA BE1484
Nominal Voltage	12 V d.c.	24 V d.c.
Open Flow Rate @13.6 V d.c.	1300 US GPH (82 l/min)	1300 US GPH (82 l/min)
Flow rate at 1m (3ft) head	1100 GPH (65 l/min)	1100 GPH (65 l/min)
Current Draw	5 Amps	2.5 Amps
Recommended Automotive Fuse Size	7 Amp	5 Amp
Weight	0.9 kg (2lbs)	
Hose Connection	Stepped ports 1" and 1 1/8"	
Wire Size	16 AWG x 1m (3ft)	
Maximum Discharge Head	4.5m (14.8ft)	
Overall Height	129mm (5.1")	
Overall Width	168mm (6.6")	
Overall depth	121mm (4.8")	
Materials	Pump Body- ABS, Seals: Nitrile®, Impeller: Acetal	



BILGE IC ELECTRIC BILGE PUMP



Simple Installation

Integrated non return valve.

Strainer IC

with IC electronics built in.

Sensor Switch

Non return valve strainer pump.

Fully Protected Pump

with integrated electronics - intelligent control

Secure Mounting

Securing strap - Ensures pump remains in place in marine conditions.

3 feet design

- Only 3 screws to fit

Ease of Installation

Head rotates 360° to suit your installation

Easy clean strainer

Code	MM WHA SI8284	MM WHA SI8484
Voltage	12 V d.c.	24 V d.c.
Voltage Range	10 V to 13.6 V d.c.	21.6 V to 27.2 V d.c.
Recommended Automotive Fuse Size	10 Amp	5 Amp
Minimum wire size	1.5 mm2 (16 AWG)	
Cable Length	4m (12ft)	
Current Profile	Soft start / stop	
Weight	2.6kg (6.5 lbs)	
Current draw on Standby	Low power 0.01 Amps supply	
Maximum Suction Lift	3m (10ft)	
Maximum Discharge Head	3m (10ft)	
Lift/head Combined	4m (12ft)	
Hose Connections	Gulper® IC - Barbed connections, 3/4" (19mm) or 1" (25mm) Strainer IC - 3/4" (19mm)	
Port Orientation	Horizontal (Easily changed to vertical)	
Connectors	IP68, Waterproof Quick Connect 7 way (directly onto Gulper® IC)	
Materials	Pump Head: Glass-filled Nylon, Valves - Nitrile®, Diaphragm: Santoprene®	
Materials in contact with fluid	Glass-filled Nylon, Nitrile®, Santoprene®	
Service Kits	AK2050 - Replacement Pump Head (available separately)	



ORCA ELECTRIC BILGE RANGE



Efficiency

Large surface area ensures maximum area exposed to bilge water.

Robust housing

Fuel resistant ABSS.

Easy maintenance

Easy access to motor cartridge and filter.

Easy release cover

Simply press both buttons and pull to release.

Versatile installation

Choose from multiple wire location options.

Simple plumbing

500 models - 19 mm (¾") ports

950, 1300 models - 25mm (1") or 28.5mm (1 1/8") stepped port connections

2000 models - 28.5mm (1 1/8")

3000 models - (32mm) (1 1/4")

Model	500 US GPH	950 US GPH	1300 US GPH	1300 US GPH	2000 US GPH		3000 US GPH	
Code	MM WHA BE0500	MM WHA BE0950	MM WHA BE1450	MM WHA BE1454	MM WHA BE2002	MM WHA BE2004	MM WHA BE3002	MM WHA BE3004
Open Flow Rate @13.6 V d.c.	500 GPH (32 l/min)	950 GPH (59 l/min)	1300 GPH (82 l/min)		2000 US GPH (126 l/min)		3000 US GPH (189 l/min)	
Flow Rate at 1m (3ft) head	450 GPH (28 l/min)	850 GPH (53 l/min)	1100 GPH (69 l/min)		1650 US GPH (104 l/min)		2700 US GPH (170 l/min)	
Nominal Voltage	12 V d.c.				12 V d.c.	24 V d.c.	12 V d.c.	24 V d.c.
Current Draw	1.5 amps	3.5 amps	5.0 amps	2.5 amps	10 amps	5.0 amps	18 amps	9 amps
Recommended Automotive Fuse	2.0 Amp	5.0 Amp	7.0 Amp	5.0 Amp	15 Amp	8 Amp	27 Amp	13 Amp
Hose Connection	3/4" (19mm)	1"/1 1/8" (25/28.5mm)	1"/1 1/8" (25/28.5mm)		1 1/8" (28.5mm)		1 1/4" (32mm)	
Wire Size	1.5mm2 (16 AWG)							
Materials	Pump Body- ABS, Seals: Nitrile®, Impeller: Acetal							
Maximum Discharge Head	3 m (9.8ft)	3.5m (11.5ft)	4.5m (14.8ft)		4 m (13 ft)		4.6 m (15ft)	
Overall Height	83mm (3.3")	109mm (4.3")	129mm (5.1")		165mm (6.5")		195mm (7.7")	
Overall Width	102mm (4")	135mm (5.3")	168mm (6.6")		144mm (5.7")		166mm (6.5")	
Overall Depth	78.5mm (3.1")Ø	103mm (4.1")Ø	121mm (4.8")Ø		120.5mm (4.74")Ø		132mm (5.1")Ø	



GULPER® 320 ELECTRIC BILGE PUMP



Ezi-clamp

Twist and single screw to secure.

Securing strap

- Ensures pump remains in place in harsh marine conditions.

Secure

Three feet design
- only 3 screws required

Reliability

Double outlet valves for continuous flow

Simple plumbing

- Barbed connections for either 19 mm (¾") or 25mm (1") hose size

Straight forward installation

- Multi directional head rotates 360° for convenient installation

Easy maintenance

- Non choke valves, no filter to block or clean

Code	MM WHA BP2052 (includes 3/4" strainer)	MM WHA BP2054 (includes 3/4" strainer)
Voltage	12 V d.c.	24 V d.c.
Hose Connections	3/4" (19mm) + 1" (25mm)	
Recommended Fuse Size	10 Amp Automotive	5 Amp Automotive
Minimum Wire Size	1.5 mm2 (16 AWG)	
Weight	1.6 kg (3.5 lbs)	
Materials	Pump Head: Glass-filled Nylon, Valves and Diaphragm: Santoprene®	
Accessories	SB3422 (19mm) strainer (multi-directional port) Service Kit: AK2050 - replacement pump head	
Maximum Suction Lift	3m (10ft)	
Maximum Discharge Head	3m (10ft)	
Maximum Discharge Head and Suction Lift Combined	4m (13.5ft)	



FRESH IC ELECTRIC FRESHWATER GALLEY PUMP



Robust

Industry Approved IP65 Pump

Fully Protected

Integrated electronics
intelligent control monitors
and responds to variations in
the whole system

Easy Install

- Quick Connect inlet and outlet ports
- Feet rotate to suit existing installations

Easy Maintenance

Easily maintained clear lid for inspection. Prevents debris from entering the pump

Code	MM WHA FW5082	MM WHA FW5084
Voltage	12 V d.c.	24 V d.c.
Open flow rate/minute	13ltrs (3.4 US gals)	
Ingress Protection Rating	IP65	
Recommended Automotive Fuse Size	12 Amp	6 Amp
Minimum Wire Size	2.5 mm2 (13 AWG)	
Weight	2.95kg (6.6lbs)	
Static System Pressure	2.5 bar (36 psi)	
Maximum Running Pressure	4.4 bar (62psi)	
Hose Connections	Whale Quick Connect 15mm female. For 1/2" (13mm) flexible hose use WX1584 (supplied with retail kit)	
Materials	Pump Body: Glass-filled Polypropylene Motor Casing: Powder-coated Steel Feet, diaphragm & valves: Monoprene®, Santoprene® Seals: Nitrile®, Fasteners: Stainless Steel	
Materials in Contact with fluid	Glass-filled polypropylene, Monoprene®, Nitrile®, Stainless Steel, Santoprene®	
Service Kits	AK1319 - Replacement strainer (available separately)	



UNIVERSAL ELECTRIC FRESHWATER GALLEY PUMP



Reliable performance
High spec motor

Extra protected electrics
Built in wiring and pressure switch

Straight forward installation
Connects directly to Whale Quick Connect 15mm Pipework. Fittings also included to easily connect to 3/8" or 1/2" hose

Smooth constant flow
4 diaphragm design provides consistent flow

Easy maintenance
Strainer with clear lid for inspection prevents debris from entering the pump

Easy inspection
Clear strainer

Model	8 ltrs (2.2 US gals)		12 ltrs (3.2 US gals)				18 ltrs (4.75 US gals)	
Code	MM WHA UF0812	MM WHA UF0815	MM WHA UF1212	MM WHA UF1214	MM WHA UF1215	MM WHA UF1225	MM WHA UF1815	MM WHA UF1825
Open Flow Rate per Minute	8 ltrs (2.2 US gals)		12 ltrs (3.2 US gals)				18 ltrs (4.75 US gals)	
Voltage	12 V d.c.					24 V d.c.	12 V d.c.	24 V d.c.
Recommended Fuse Size	5 amp			8 amp		4 amp	12 amp	8 amp
Weight	2.4 kg (5.3 lbs)						2.9 kg (6.4 lbs)	
Hose Connections	Whale Quick Connect 15 mm Female For 1/2" Flexible Hose Use WX1584 (supplied with pump) For 3/8" Flexible Hose Use WU1215 + WU1280 (not supplied with pump)						3/4" Male Threaded Connections	
Connection to Quick Connect 15 mm Plumbing	NO ADAPTOR REQUIRED For Other Systems - Contact Whale						For Whale Quick Connect 15 mm Use WX1542 (not supplied with pump)	
Additional Fittings	1/2" BSP Male Adaptors WX1587 x 2 (supplied with pump) 1/2" Flexible Hose Adaptors WX1584 x 2 (supplied with pump)						3/4" Flexible Hose Adaptors x 2 (supplied with pump)	
Minimum Wire Size	2.5 mm2 (13 AWG)							
Cut Out Pressure	1 bar (15 psi)	3 bar (45 psi)	1 bar (15 psi)	2 bar (30 psi)	3 bar (45 psi)			
Materials	Pump Body: Glass-filled Polypropylene, Motor Casing: Aluminium, Power-coated Steel Diaphragm, Valves, Feet: Monprene®, Seals: Nitrile®, Fasteners: Stainless Steel							
Materials in Contact With Fluid	Glass-filled Polypropylene, Monprene®, Nitrile®, Stainless Steel							
Service Kits	AK1316 - Replacement Head AK1317 - Microswitch AK1319 - Replacement Strainer							
Maximum Suction Lift	3 m (10 ft)							
Maximum Discharge Head	10 m (33 ft)	30 m (98 ft)	10 m (33 ft)	20 m (66 ft)	30 m (98 ft)			

AVAILABLE UPON REQUEST:

- PUMPS (COMPLETE)
- SPARE PARTS
- REPAIR KITS

for





GREY IC ELECTRIC GREY WASTE PUMP



Secure fit

New wrap around mounting feature

IC built in intelligent Control microprocessor electronics sealed for protection against water ingress

Pre-wired with waterproof electronic connectors prevents damage from capillary action and electrolysis

Head rotates 360° to suit your installation

Non choke valves

No filter to block or clean

Two Way Manifold

handles waste from multiple drains

Code	MM WHA WM8284	MM WHA WM8484
Voltage	12 V d.c.	24 V d.c.
Voltage Range	10 to 13.6 V d.c.	21.6 V d.c. to 27.2 V d.c.
Current profile	Soft stop/ start	
Recommended fuse Size (Automotive)	10 Amp	5 Amp
Minimum Wire Size	1.5mm (16 AWG)	
Weight	1.6 kg (3.5 lbs)	
Maximum Suction Lift	3m (10ft)	
Maximum Discharge Head	3 m (10 ft)	
Maximum Discharge head and Suction life combined	4m (12 ft)	
Hose connections	barbed connections 3/4" (19mm) and 1" (25mm)	
Materials	Pump head- Glass-filled Nylon, Valves, and Diaphragm - Santoprene®, clamp ring Acetal, Feet - EPDM, Gear wheel- Delrin®, fasteners Stainless Steel	
Materials in contact with fluid	Glass-filled Nylon, Santoprene®, Stainless Steel	
Service Kit (available Separately)	AK2050- Replacement Pump Head IC	
Accessories	none required	



GULPER® 320 ELECTRIC GREY WASTE PUMP



Ezi-clamp

Twist and single screw to secure.

Securing strap

- Ensures pump remains in place in harsh marine conditions.

Secure

Three feet design - only 3 screws required

Reliability

Double outlet valves for continuous flow

Simple plumbing

- Barbed connections for either 19 mm (3/4") or 25mm (1") hose size

Straight forward installation

- Multi directional head rotates 360° for convenient installation

Easy maintenance

- Non choke valves, no filter to block or clean

Code	MM WHA BP2052	MM WHA BP2054
Voltage	12 V d.c.	24 V d.c.
Hose Connections	3/4" (19mm) + 1" (25mm)	
Recommended Fuse Size	10 Amp Automotive	5 Amp Automotive
Minimum Wire Size	1.5 mm2 (16 AWG)	
Weight	1.6 kg (3.5 lbs)	
Materials	Pump Head: Glass-filled Nylon, Valves and Diaphragm: Santoprene®	
Accessories	Service Kit: AK2050 - replacement pump head	
Maximum Suction Lift	3m (10ft)	
Maximum Discharge Head	3m (10ft)	
Maximum Discharge Head and Suction Lift Combined	4m (13.5ft)	

TOILETS



EVAC CLASSIC TOILET - WALL MODEL



Materials

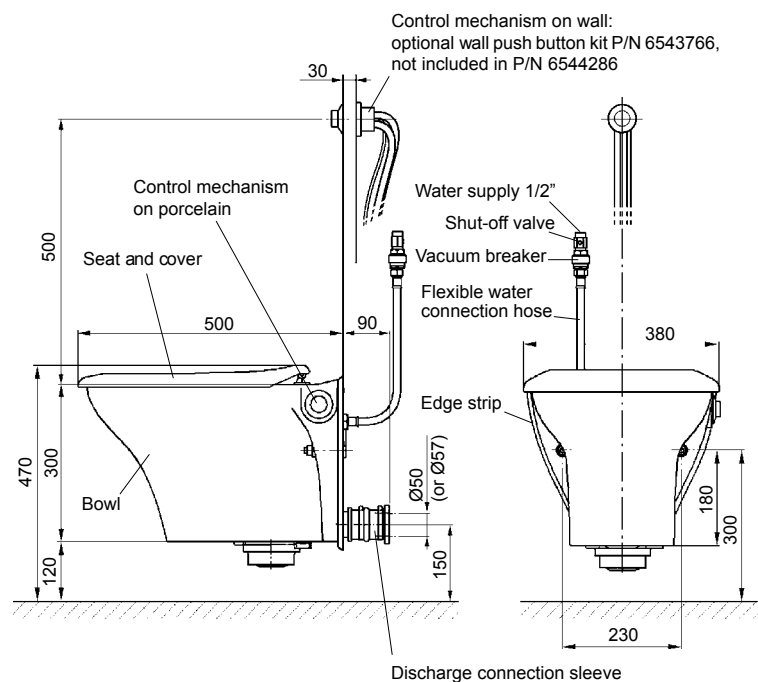
Bowl: White vitreous china
 Seat: PP
 Cover: PP
 Control mechanism: ABS, POM
 Discharge valve; plastic parts: POM, PP, rubber parts: NR, EPDM

Operating data

Water pressure: 300 ... 1000kPa
 Operating vacuum: -30 ... -50kPa
 Water consumption: $\sim 1.2 \pm 0.15$ litres/flush (water pressure: 400kPa, vacuum: -40kPa)
 Air consumption: $\sim 60 \pm 10$ litres/flush (normal atmospheric air)

Connections

Water supply: 1/2" MPT, flexible hose
 Discharge: Bushing for sleeve coupling (O.D. 48 - 52mm) with two hose calmps and for rubber connector (55 - 60mm pipe) with two hose clamps.



Code	Product
MM EVA 6544286	EVAC CLASSIC TOILET, WALL MODEL, WHITE (CONTROL MECHANISM ON PORCELAIN)
MM EVA 6543766	WALL PUSH BUTTON KIT (OPTIONAL)

SPARE PARTS AND REPLACEMENT ITEMS AVAILABLE UPON REQUEST



EVAC 910 - WALL MODEL



Materials

Bowl: White vitreous china**

Seat; *Prestige and Prestige Soft Closing:

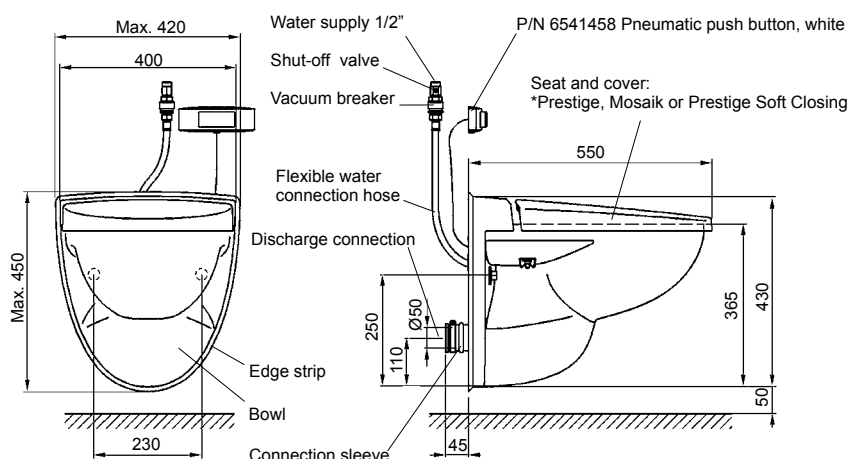
UF-S**, Mosaik: PP**

Cover; *Prestige and Prestige Soft Closing:

UF-S**, Mosaik: PP**

Pneumatic push button: White plastic, ABS

Discharge valve; plastic parts: PP, rubber parts: NR



* Prestige seat and cover fulfill ANSI Z124.5 - 1997 [Plastic Toilet (Water closet) Seats] requirements.

** See available colours in document 002003-7

Operating data

Water pressure: 3 - 10 bar

Operating vacuum: -0.3 ... - 0.6 bar

Water consumption: ~1.2 ±0.15 litres/flush

(water pressure: 4 bar, vacuum: -0.4 bar)

Air consumption: ~60 ±10 litres/flush (normal atmospheric air)

Connections

Water supply: 1/2\" MPT, flexible hose

Discharge: Discharge connection Ø50, connection sleeve includes two hose clamps to O.D. 48 - 52mm pipes

Code	Product
MM EVA 6543418	EVAC 910, WALL MODEL, PRESTIGE SILENT, WHITE
MM EVA 6543419	EVAC 910, WALL MODEL, MOSAIK, WHITE
MM EVA 6547226	EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING, WHITE



EVAC 910 - WALL MODEL USPH



Materials

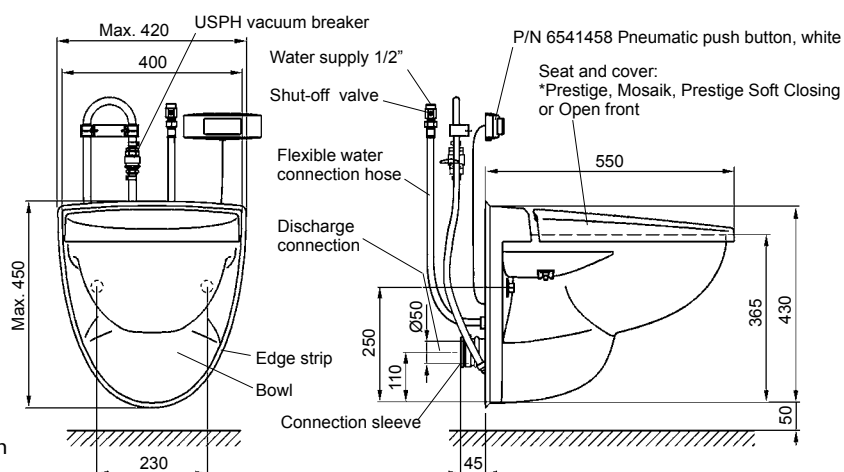
Bowl: White vitreous china**

Seat; *Prestige, Prestige Soft Closing and Open front: UF-S**, Mosaik: PP**

Cover; *Prestige, Prestige Soft Closing and Open Front: UF-S**, Mosaik: PP**

Pneumatic push button: White plastic, ABS

Discharge valve; plastic parts: PP, rubber parts: NR



* Prestige seat and cover fulfill ANSI Z124.5 - 1997 [Plastic Toilet (Water closet) Seats] requirements.

** See available colours on document 002003-7.

Operating data

Water pressure: 3 - 10 bar

Operating vacuum: -0.3 ... - 0.6 bar

Water consumption: ~1.2 ±0.15 litres/flush (water pressure: 4

bar, vacuum: -0.4 bar)

Air consumption: ~ 60 ±10 litres/flush (normal atmospheric air)

Connections

Water supply with USPH: 1/2\" MPT, flexible hose

Discharge: Discharge connection Ø50, connection sleeve includes two hose clamps to O.D. 48 - 52mm pipes

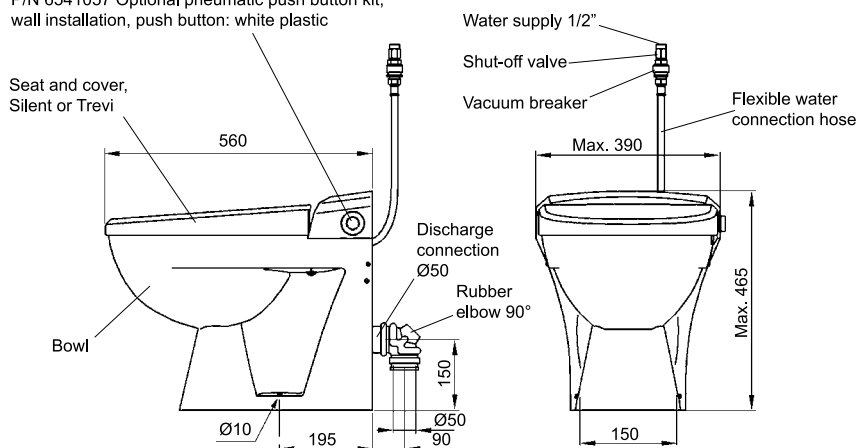
Code	Product
MM EVA 6543420	EVAC 910, WALL MODEL USPH, PRESTIGE SILENT, WHITE
MM EVA 6543421	EVAC 910, WALL MODEL USPH, MOSAIK, WHITE
MM EVA 6544766	EVAC 910, WALL MODEL USPH, OPEN FRONT, WHITE
MM EVA 6547227	EVAC 910, WALL MODEL USPH, PRESTIGE SOFT CLOSING



EVAC 910 - FLOOR MODEL



P/N 6544996 Pneumatic push button
P/N 6541057 Optional pneumatic push button kit,
wall installation, push button: white plastic



* See available colours in document 002003-7

Materials

Bowl: White vitreous china *
Seat; Silent: PP*, Trevi: PP
Cover; Silent: PP*, Trevi: PP
Pneumatic push button: Plastic
Discharge valve: Plastic parts: PP, rubber parts: NR

Operating data

Water pressure: 3 ...10 bar
Operating vacuum: -0.3 ... -0.5 bar
Water consumption: ~1.2 ±0.15 litres/flush
(water pressure: 4 bar, vacuum: -0.4 bar)
Air consumption: ~ 60 ±10 litres/flush (normal atmospheric air)

Connections

Water supply: 1/2" MPT, flexible hose
Discharge: Rubber elbow 90°, two hose clamps are included in the rubber elbow 90° to O.D. 48 - 52mm pipe.

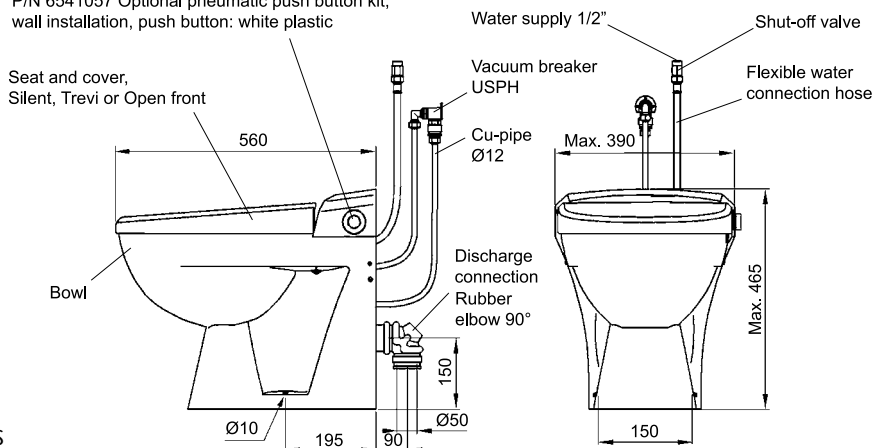
Code	Product
MM EVA 6545825	EVAC 910, FLOOR MODEL, SILENT (EVACINHUSH), WHITE
MM EVA 6545826	EVAC 910, FLOOR MODEL, TREVI, WHITE



EVAC 910 - FLOOR MODEL USPH



P/N 6544996 Pneumatic push button
P/N 6541057 Optional pneumatic push button kit,
wall installation, push button: white plastic



* See available colours on document 002003-7

Materials

Bowl: White vitreous china*
Seat; Silent: PP*, Trevi: PP, Open front: UF-S
Cover; Silent: PP*, Trevi: PP, Open front: UF-S
Pneumatic push button: Plastic
Discharge valve: Plastic parts: PP, rubber parts: NR

Operating data

Water pressure: 3 ... 10 bar
Operating vacuum: -0.3 ... -0.50 bar
Water consumption: 1.2 ±0.15 litres/flush
(water pressure: 4 bar, vacuum: -0.4 bar)
Air consumption: 60 ±10 litres/flush (normal atmospheric air)

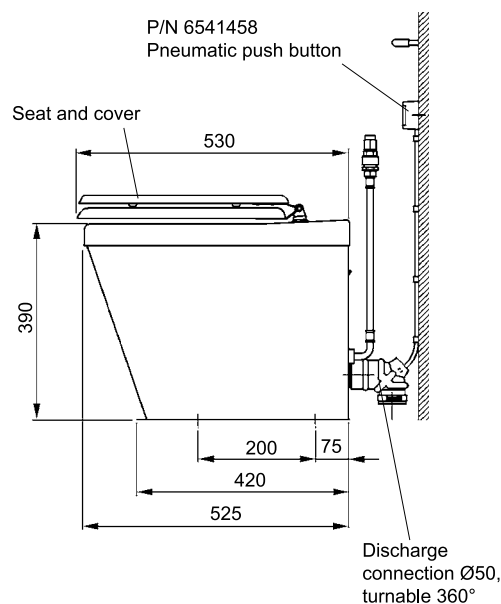
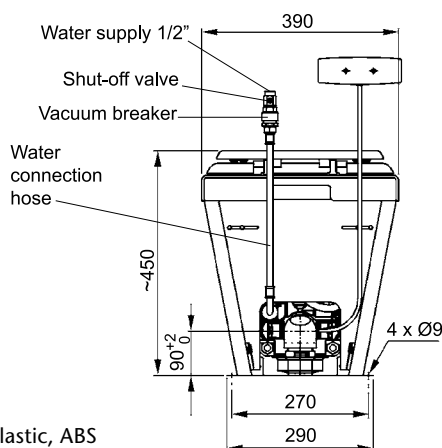
Connections

Water supply: 1/2" MPT, flexible hose
Discharge: Rubber elbow 90°, two hose clamps are included in the rubber elbow 90° to O.D. 48-52mm pipe.

Code	Product
MM EVA 6545827	EVAC 910, FLOOR MODEL USPH, SILENT (EVACINHUSH), WHITE
MM EVA 6545828	EVAC 910, FLOOR MODEL USPH, TREVI, WHITE
MM EVA 6545829	EVAC 910, FLOOR MODEL USPH, OPEN FRONT, WHITE



EVAC 910 - STAINLESS STEEL



Materials

Bowl: Stainless steel EN 1.4404

Seat: UF-S

Cover: UF-S

Pneumatic push button: White plastic, ABS

Operating data

Water pressure: 200 ...1000kPa

Operating vacuum: -30 ... -50kPa

Water consumption: 1.2 ±0.15 litres/flush, (water pressure: 400kPa, vacuum: -40kPa)

Air consumption: 60 ±10 litres/flush (normal atmospheric air)

Connections

Water supply: 1/2" MPT

Discharge: 90o rubber elbow to pipe size 48...52mm O.D.



CHARM WALL MOUNTED TOILET



Charm by Jets™ is a wall mounted vacuum toilet in a simple, contemporary design. It features nozzle flushing with no inside edge, making it very easy to keep clean.

- Low water consumption
- Reliable operation
- VPC controller removes easily for service

Detailed specs:

- External dimensions*: 355 x 520 x 370 mm (W x L x H)
- Bowl material: Vitreous china
- Bowl net weight: 19 kg
- Total weight: 22,5 kg
- Water connection: BSP 1/2" male ball valve
- Discharge outlet: 50 mm external diameter

* Allow for a deviation of +/- 2% in vitreous china products

Operating data:

- Flushing time: adjustable (5 seconds)
- Discharge time: adjustable (2 seconds)
- Water pressure: 2-7 bar (200-700 kPa)
- Operating vacuum: 30-50%
- Water consumption: adjustable (1,2 litres)
- Air consumption: adjustable (approx. 60 litres at 50% vacuum)

**JETS™ 50M**

Jets™ 50M is a floor mounted vacuum toilet in a modern design. It can be supplied with a vacuum operated or electronically operated mechanism.

- Low water consumption
- Reliable operation

Detailed specs:

- External dimensions*: 385 x 590 x 465 mm (W x L x H)
- Bowl material: Vitreous china
- Bowl net weight: 19,5 kg
- Total weight: 24 kg
- Water connection: BSP 1/2" male ball valve
- Discharge outlet: 50 mm external diameter

* Allow for a deviation of +/- 2% in vitreous china products

Operating data:

- Flushing time: adjustable (5 seconds)
- Discharge time: adjustable (2 seconds)
- Water pressure: 2-7 bar (200-700 kPa)
- Operating vacuum: 30-55%
- Water consumption: adjustable (1,2 litres)
- Air consumption: adjustable (appr. 60 litres at 50% vacuum)

**JETS™ 59M**

Jets™ 59M is a wall mounted vacuum toilet in a modern design. It can be supplied with a vacuum operated or electronically operated mechanism.

- Low water consumption
- Reliable operation

Detailed specs:

- External dimensions*: 388 x 542 x 415 mm (W x L x H)
- Bowl material: Vitreous china
- Bowl net weight: 18 kg
- Total weight: 21 kg
- Water connection: BSP 1/2" male ball valve
- Discharge outlet: 50 mm external diameter

* Allow for a deviation of +/- 2% in vitreous china products

Operating data:

- Flushing time: adjustable (5 seconds)
- Discharge time: adjustable (2 seconds)
- Water pressure: 2-7 bar (200-700 kPa)
- Operating vacuum: 30-55%
- Water consumption: adjustable (1,2 litres)
- Air consumption: adjustable (appr. 60 litres at 50% vacuum)

**JETS™ 610**

Jets™ 610 is a floor mounted stainless steel toilet for demanding applications. It can be supplied with a vacuum operated or electronically operated mechanism.

- Low water consumption
- Reliable operation
- Stainless steel

Detailed specs:

- External dimensions: 365 x 665 x 400 mm (W x L x H)
- Bowl material: Stainless steel
- Bowl net weight: 14 kg
- Total weight: 19 kg
- Water connection: BSP 1/2" male ball valve
- Discharge outlet: 50 mm external diameter

Operating data:

- Flushing time: adjustable (5 seconds)
- Discharge time: adjustable (2 seconds)
- Water pressure: 2-7 bar (200-700 kPa)
- Operating vacuum: 30-50%
- Water consumption: adjustable (1,2 litres)
- Air consumption: adjustable (appr. 60 litres at 50% vacuum)