

motralec

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**ESPA**  
PUMPS (UK) LTD

PRICE CATALOGUE  
**2007/08**





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**Pumps not stocked at Espa UK but available from Spain.**

Aspri 15,25  
Prisma 15, 25, 35 & 45  
Fin

Star  
Rainsub  
Raintec  
Com

Cen  
Bat  
Nor





You can buy the full range of ESPA pumps at City Irrigation Ltd

Many of the Pumps are available ex-stock with overnight delivery as an option in emergencies.

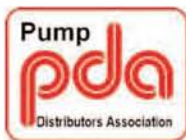
Tel: 020-8462-4630  
Fax:020-8462-3810

email:pumps@cityirrigation.co.uk

All prices shown exclude Vat and delivery



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Espa Group

CREATING THE FUTURE



# Acuaría

## Submersible pumps for open wells

07/17/27



### Applications

Domestic applications, Irrigation  
Pressurisation, Water transfer.

### Materials

#### Outer Case

Stainless steel AISI 304.

#### Impellers

Stainless steel AISI 304.

#### Diffusers

Noryl (glass loaded polymer).

#### Motor Shaft

Stainless steel AISI 420.

#### Double Mechanical Seal

Graphite and alumine

### Motor

Water cooled motor.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Single phase motor with built-in thermal protection.

### Limitations

Maximum liquid temperature: 35°C

### Equipment

Complete with 15m of power cable  
**Acuaría 07 M:** Internal capacitor.  
**Acuaría 17/27 M:** External capacitor box.  
**Acuaría MA:** Complete with level float.

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
<b>Acuaría 07 3</b>	2.8	2.0	1.2	0.6	0.6	0.37	0.5	12
<b>Acuaría 07 4</b>	3.6	2.9	1.7	0.8	0.8	0.5	0.75	12
<b>Acuaría 07.5</b>	4.1	3.3	1.9	0.95	0.95	0.75	1	12
<b>Acuaría 07 6</b>	5.0	3.6	2.0	1.1	1.1	0.9	1.2	16

Pumps with 230/400V motors on request

Impellers in stainless steel

Double mechanical seal

	A	B	DNm	Kg
<b>Acuaría 07 3</b>	491	123,6	1"	9,8
<b>Acuaría 07 4</b>	523,5	123,6	1"	11
<b>Acuaría 07 5</b>	557	123,6	1"	12
<b>Acuaría 07 6</b>	600	123,6	1"	13,2

	A	B	DNm	Kg
<b>Acuaría 17 5</b>	553	138	1"	14
<b>Acuaría 17 7</b>	646	138	1"	14,2

	A	B	DNm	Kg
<b>Acuaría 27 4</b>	552	138	1"	17
<b>Acuaría 27 6</b>	655	138	1"	17,2

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
<b>Acuaría 17 5</b>	7.4	4.5	2.6	1.6	1.5	0.9	1.25	16
<b>Acuaría 17 7</b>	10.7	6.5	3.8	2.2	2.1	1.5	2	25

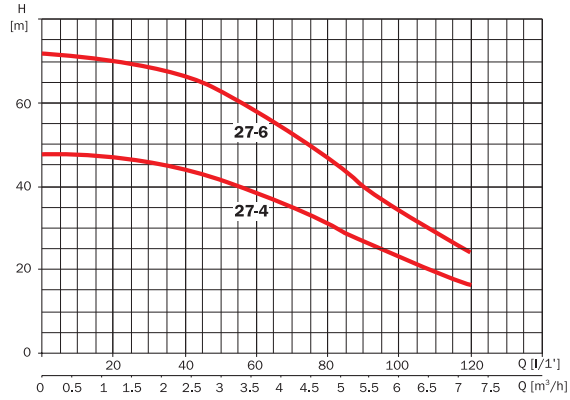
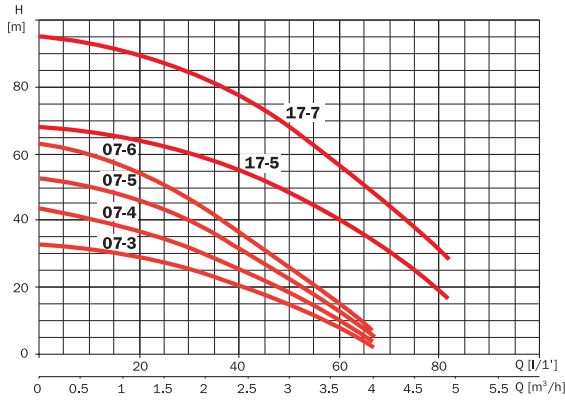
MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
<b>Acuaría 27 4</b>	7.0	4.3	2.5	1.5	1.4	0.9	1.25	16
<b>Acuaría 27 6</b>	10.8	6.6	3.8	2.2	2.1	1.5	2.0	25

Pumps with 230/400V motors on request

# Submersible pumps for open wells

# Acuaría 07/17/27

Submersible



Single phase	Price	Three phase	Price	l/1'	10	20	30	40	45	50	60	65
				m³/h	0.6	1.2	1.8	2.4	2.7	3.0	3.6	3.9
Acuaría 07 3 M	320	Acuaría 07 3 T	320	H [m]								
Acuaría 07 3 M A	345				32	29	26	21	17	15	8	4
Acuaría 07 4 M	335	Acuaría 07 4 T	335		41	36	32	26	22	19	10	5
Acuaría 07 4 M A	358				50	46	40	32	27.5	23	13	7.5
Acuaría 07 5 M	348	Acuaría 07 5 T	348		60	55	47	37	32	26	15	10
Acuaría 07 5 M A	365											
Acuaría 07 6 M	359	Acuaría 07 6 T	359									
Acuaría 07 6 M A	384											

Single phase	Price	Three phase	Price	l/1'	10	20	30	40	50	60	70	85
				m³/h	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
Acuaría 17 5 M	397	Acuaría 17 5 T	397	H [m]								
Acuaría 17 5 MA	420				67	65	62	55	48	39	29	12
Acuaría 17 7 M	430	Acuaría 17 7 T	430		94	90	86	78	69	58	45	21
Acuaría 17 7 M A	473											

Single phase	Price	Three phase	Price	l/1'	20	30	40	50	60	80	100	125
				m³/h	1.2	1.8	2.4	3.0	3.6	4.8	6.0	7.5
Acuaría 27 4 M	354	Acuaría 27 4 T	354	H [m]								
Acuaría 27 4 M A	400				44	43	41	39	38	31	24	12
Acuaría 27 6 M	420	Acuaría 27 6 T	420		68	66	64	61	57	47	36	
Acuaría 27 6 M A	440											



# Acuaría 30/40

## Submersible pumps for open wells



### Applications

Domestic applications, irrigation, pressurisation and water transfer.

### Materials

#### Outer Casing

Stainless steel AISI 304.

#### Impellers

Stainless steel AISI 304.

#### Diffusers

Noryl (glass loaded polymer)

#### Discharge Body

Cast Iron

#### Double Mechanical Seal

Graphite and alumine.

### Motor

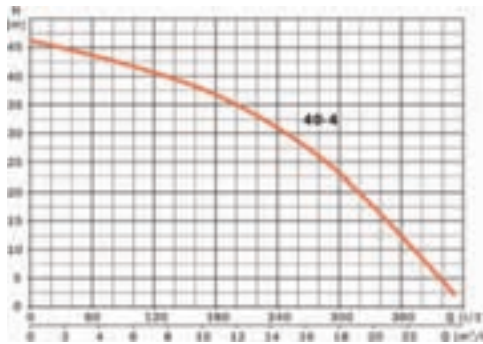
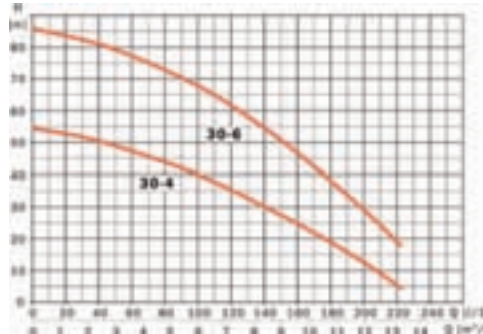
Water cooled motor.  
Class F Insulation.  
Protection IP68.  
Continuous operation.  
Single phase version complete with built-in thermal protection.

### Limitations

Maximum liquid temperature: 35°C

### Equipment

Complete with 15m of power cable.  
Capacitor box (single phase only)



	A	B	DNm	Kg
Acuaría 30 4	609	152	1 1/2"	25,5
Acuaría 30 6	658	152	1 1/2"	29,5

	A	B	DNm	Kg
Acuaría 40 4	667	152	1 1/2"	29

Impellers in stainless steel



Double mechanical seal



MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Acuaría 30 4	8,8	5,2	3	1,9	1,8	1,1	1,5	30
Acuaría 30 6	-	8,5	5	-	2,8	2,2	3	-

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Acuaría 40 4	-	8,8	5,2	-	3,1	2,2	3	-

Pumps with 230/400V motors on request

Single phase	Price	Three phase	Price	1/1'	17	33	50	83	117	150	183	217
				m³/h	1	2	3	5	7	9	11	13
Acuaría 30 4 M	517	Acuaría 30 4 T	517	H [m]	53	51	48	43	36	27,5	18	7
		Acuaría 30 6 T	575		84	82	79	72	62,5	50	37	21
		Three phase	Price	1/1'	67	100	133	167	200	267	333	400
				m³/h	4	6	8	10	12	16	20	24
		Acuaría 40 4 T	583	H [m]	43	42	40	38	35	28	17	4.5



# Monoblock submersible pumps for boreholes & open wells

## Neptun fl

### + *Floating Impellers*

### + *4" Diameter*



### Applications

---

Domestic applications, irrigation, pressurisation, water transfer, suitable for boreholes 4" and above.

### Materials

---

#### Outer Casing

Stainless steel AISI 304.

#### Floating Impellers

Noryl (glass loaded polymer)

#### Discharge Body

Stainless steel AISI 304.

#### Diffusers

Glass loaded polycarbonate

#### Motor Shaft

Stainless steel AISI 303.

#### Double Mechanical Seal

Graphite/silicon carbide and in graphite/alumina.

### Motor

---

Water cooled motor.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Single phase motor with built-in thermal protection.

### Limitations

---

Maximum liquid temperature: 35°C  
Maximum quantity of sand in suspension 100 g/m<sup>3</sup>.

### Equipment

---

Complete with pre-fitted cable tail  
Capacitor box (single phase only)  
Heat shrink joint kit (option of resin joint)  
Sacrificial anode available on request.

Floating impellers



Double mechanical seal, Graphite/Silicon carbide and in Graphite/Alumina



# Neptun fl 60/100/120

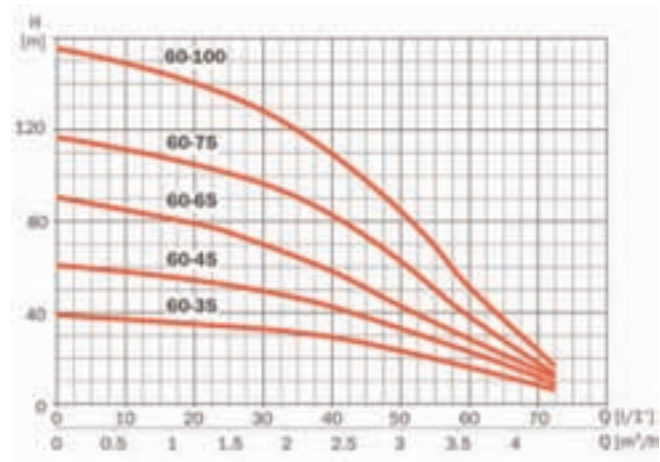
Monoblock submersible pumps  
for boreholes & open wells



	A	B	DNm	Kg
Neptun fl60 35	588,5	98	1"	12,2
Neptun fl60 45	681	98	1"	13,8
Neptun fl60 65	771	98	1"	15
Neptun fl60 75	822,5	98	1"	16
Neptun fl60 100	1137,5	98	1"	25

	A	B	DNm	Kg
Neptun fl100 60	751	98	1"	14,5
Neptun fl100 90	878,5	98	1"	17
Neptun fl100 120	1217,5	98	1"	26

	A	B	DNm	Kg
Neptun fl120 50	751	98	1"	14
Neptun fl120 60	860	98	1"	16
Neptun fl120 70	1213	98	1"	25,5



**+** Floating impellers

**+** 4" Diameter

SEE PAGE 97 FOR  
CONTROL OPTIONS



MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Neptun fl60 35	3.6	2.6	1.5	0.8	0.8	0.75	1.0	16
Neptun fl60 45	5.0	3.6	2.1	1.2	1.2	0.8	1.1	25
Neptun fl60 65	6.5	5.7	3.3	1.5	1.5	0.9	1.2	25
Neptun fl60 75	8.3	6.3	3.6	1.8	1.7	0.9	1.2	25
Neptun fl60 100	9.5	7.8	4.5	2.7	2.1	1.5	2	50

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Neptun fl100 60	4.9	3.5	2	1.1	1.1	0.8	1.1	25
Neptun fl100 90	7.8	6.4	3.7	1.7	1.7	0.9	1.2	25
Neptun fl100 120	9.8	7.9	4.6	2.3	2.3	1.5	2	50

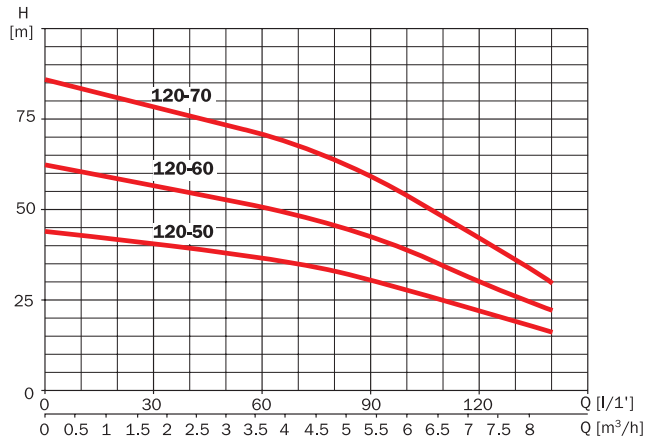
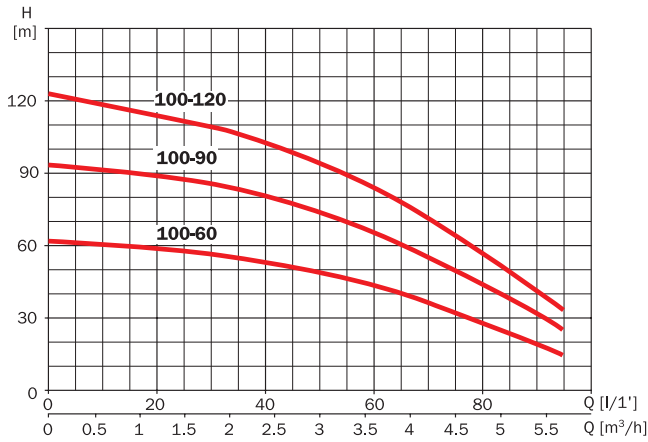
MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Neptun fl120 50	5.2	4	2.3	1.3	1.3	0.8	1.1	25
Neptun fl120 60	8.5	6.7	3.9	1.9	1.9	0.9	1.2	25
Neptun fl120 70	10.2	8.1	4.7	2.4	2.4	1.5	2	50

Pumps with 230/400V motors on request



# Monoblock submersible pumps for boreholes & open wells

# Neptun fl 60/100/120



Single phase	Price	Three phase	Price	l/1'	5	10	20	30	40	50	60	70
				m³/h	0.3	0.6	1.2	1.8	2.4	3.0	3.6	4.2
Neptun fl60 35 M	<b>341</b>	Neptun fl60 35 T	<b>341</b>	H [m]	39	38	37	34	30	26	20	10
Neptun fl60 45 M	<b>359</b>	Neptun fl60 45 T	<b>359</b>		60	59	57	51	45	35	29	15
Neptun fl60 65 M	<b>389</b>	Neptun fl60 65 T	<b>389</b>		92	90	85	79	69	55	38	19
Neptun fl60 75 M	<b>431</b>	Neptun fl60 75 T	<b>431</b>		110	107	98	88	74	59	41	21
Neptun fl60 100 M	<b>624</b>	Neptun fl60 100 T	<b>624</b>		140	136	126	116	101	79	55	30

Single phase	Price	Three phase	Price	l/1'	10	20	40	50	60	70	80	90
				m³/h	0.6	1.2	2.4	3.0	3.6	4.2	4.8	5.4
Neptun fl100 60 M	<b>352</b>	Neptun fl100 60 T	<b>352</b>	H [m]	60	59	54	50	44	38	31	22
Neptun fl100 90 M	<b>411</b>	Neptun fl100 90 T	<b>411</b>		90	88	80	75	67	57	46	33
Neptun fl100 120 M	<b>631</b>	Neptun fl100 120 T	<b>631</b>		122	117	105	98	90	78	62	47

Single phase	Price	Three phase	Price	l/1'	10	30	50	60	70	90	120	140
				m³/h	0.6	1.8	3.0	3.6	4.2	5.4	7.2	8.4
Neptun fl120 50 M	<b>360</b>	Neptun fl120 50 T	<b>360</b>	H [m]	43	40	37	35	33	29	21	15
Neptun fl120 60 M	<b>429</b>	Neptun fl120 60 T	<b>429</b>		63	59	54	52	49	43	32	24
Neptun fl120 70 M	<b>640</b>	Neptun fl120 70 T	<b>640</b>		84	79	74	71	67	60	46	34

# Saturn 4 fl

## Submersible 4" borehole pumps



### + Floating impellers



### Applications

Domestic applications, irrigation.  
Pressurisation, water transfer,  
suitable for wells 4" and above.

### Materials

#### Outer Case

Stainless steel AISI 304.

#### Discharge Body

Stainless steel AISI 304.

#### Floating Impellers

Noryl (glass loaded polymer).

#### Diffusers

Noryl (glass loaded polymer).

#### Suction Strainer

Stainless steel AISI 304.

#### Pump Support

Stainless steel AISI 304.

#### Pump Shaft

Stainless steel AISI 304.

### Motor

#### Franklin motor as standard

Class B insulation.

Protection IP68.

Continuous operation.

Complete with built-in thermal protection.

### Limitations

Maximum liquid temperature: 35°C.

Maximum quantity of sand in suspension: 100 g/m<sup>3</sup>.

### Equipment

Complete with pre-fitted cable tail

Integral non return valve

Capacitor box (single phase only)

Heat shrink joint kit (option of resin joint).



Floating impellers



Pump support and pump  
discharge in stainless steel

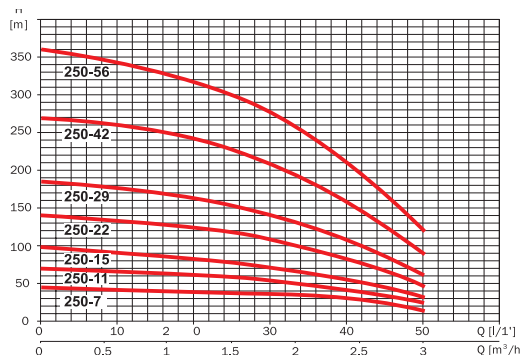


integral non return valve

# Submersible 4" borehole pumps

# Saturn 4 fl 250/350/700

## + Floating Impellers



MODEL	A		P1 (kW)		kW	HP	µF
	1~	3~	1~	3~			
	230 V	400 V					
Saturn 4 fl250 7	3.4	1.3	0.7	0.6	0.37	0.5	16
Saturn 4 fl250 11	4.3	1.7	0.9	0.9	0.55	0.75	20
Saturn 4 fl250 15	5.7	2,2	1.3	1.1	0.75	1	30
Saturn 4 fl250 22	8.6	3.2	1.9	1.6	1.1	1.5	40
Saturn 4 fl250 29	10.6	4	2.3	2.1	1.5	2	50
Saturn 4 fl250 42	15.5	5.9	3.5	3.1	2.2	3	70
Saturn 4 fl250 56	-	7.8	-	4.1	3	4	-

MODEL	A		P1 (kW)		kW	HP	µF
	1~	3~	1~	3~			
	230 V	400 V					
Saturn 4 fl350 5	3.4	1.3	0.7	0.6	0.37	0.5	16
Saturn 4 fl350 7	4.3	1.7	0.9	0.9	0.55	0.75	20
Saturn 4 fl350 10	5.7	2.2	1.3	1.1	0.75	1	30
Saturn 4 fl350 15	8.6	3.2	1.9	1.6	1.1	1.5	40
Saturn 4 fl350 20	10.6	4	2.3	2.1	1.5	2	50
Saturn 4 fl350 29	15.5	5.9	3.5	3.1	2.2	3	70
Saturn 4 fl350 40	-	7.8	-	4.1	3	4	-
Saturn 4 fl350 52	-	10	-	5.4	4	5.5	-

MODEL	A		P1 (kW)		kW	HP	µF
	1~	3~	1~	3~			
	230 V	400 V					
Saturn 4 fl700 5	5.7	2.2	1.3	1.1	0.75	1	30
Saturn 4 fl700 8	8.6	3.2	1.9	1.6	1.1	1.5	40
Saturn 4 fl700 11	10.6	4	2.3	2.1	1.5	2	50
Saturn 4 fl700 16	15.5	5.9	3.5	3.1	2.2	3	70
Saturn 4 fl700 22	-	7.8	-	4.1	3	4	-
Saturn 4 fl700 30	-	10	-	5.4	4	5.5	-
Saturn 4 fl700 40	-	13.7	-	7.5	5.5	7.5	-
Saturn 4 fl700 50	-	18.4	-	11.7	7.5	10	-

Pumps with 230/400V motors on request

SEE PAGE 98 FOR  
CONTROL OPTIONS

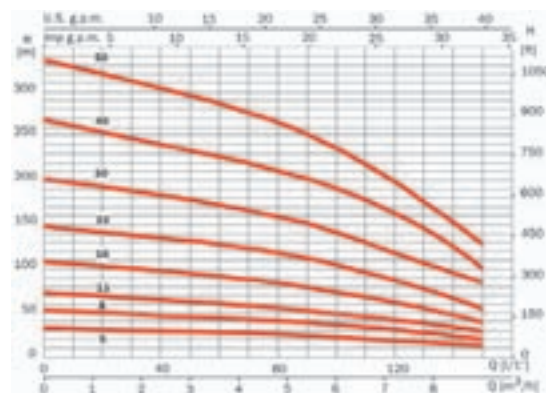
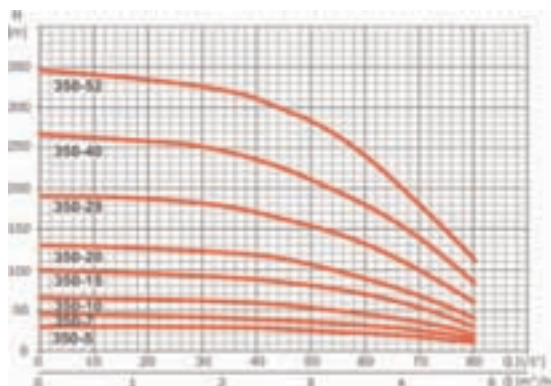


SEE PAGE 99 FOR  
POWER SUPPLY CABLE



# Saturn 4 fl 250/350/700

Submersible  
4" borehole pumps



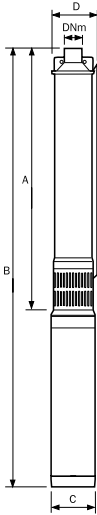
Single phase	Price	Three phase	Price	I/1'	5	10	15	20	25	30	40	50
				m³/h	0.3	0.6	0.9	1.2	1.5	1.8	2.4	3
Saturn 4 fl 250 7M	<b>403</b>	Saturn 4 fl 250 7 T	<b>387</b>	H [m]	42	41	40	39	38	37	30	15
Saturn 4 fl 250 11 M	<b>424</b>	Saturn 4 fl 250 11 T	<b>407</b>		70	69	65	60	58	55	40	25
Saturn 4 fl 250 15 M	<b>481</b>	Saturn 4 fl 250 15 T	<b>462</b>		94	90	88	81	78	70	55	31
Saturn 4 fl 250 22 M	<b>568</b>	Saturn 4 fl 250 22 T	<b>545</b>		139	135	130	124	118	110	81	50
Saturn 4 fl 250 29 M	<b>684</b>	Saturn 4 fl 250 29 T	<b>654</b>		180	175	170	162	152	142	110	60
Saturn 4 fl 250 42 M	<b>861</b>	Saturn 4 fl 250 42 T	<b>827</b>		265	260	250	240	227	210	160	90
		Saturn 4 fl 250 56 T	<b>973</b>		350	340	330	318	300	280	210	120

Single phase	Price	Three phase	Price	I/1'	10	20	30	40	50	60	70	80
				m³/h	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
Saturn 4 fl 350 5 M	<b>405</b>	Saturn 4 fl 350 5 T	<b>389</b>	H [m]	30	30	30	30	26	20	18	10
Saturn 4 fl 350 7 M	<b>416</b>	Saturn 4 fl 350 7 T	<b>395</b>		48	48	43	40	38	30	24	13
Saturn 4 fl 350 10 M	<b>442</b>	Saturn 4 fl 350 10 T	<b>424</b>		64	62	60	59	53	45	33	20
Saturn 4 fl 350 15 M	<b>515</b>	Saturn 4 fl 350 15 T	<b>494</b>		98	94	90	89	80	70	50	30
Saturn 4 fl 350 20 M	<b>594</b>	Saturn 4 fl 350 20 T	<b>570</b>		130	128	124	120	105	90	70	40
Saturn 4 fl 350 29 M	<b>754</b>	Saturn 4 fl 350 29 T	<b>724</b>		190	188	180	170	152	132	100	60
		Saturn 4 fl 350 40 T	<b>853</b>		261	259	250	235	210	180	139	88
		Saturn 4 fl 350 52 T	<b>984</b>	340	332	325	310	280	240	180	110	

Single phase	Price	Three phase	Price	I/1'	10	30	50	70	90	110	130	150
				m³/h	0.6	1.8	3	4.2	5.4	6.6	7.8	9
Saturn 4 fl 700 5 M	<b>475</b>	Saturn 4 fl 700 5 T	<b>456</b>	H [m]	31	30	29	28	24	20	18	12
Saturn 4 fl 700 8 M	<b>537</b>	Saturn 4 fl 700 8 T	<b>516</b>		51	49	46	42	40	33	28	20
Saturn 4 fl 700 11 M	<b>612</b>	Saturn 4 fl 700 11 T	<b>588</b>		70	68	62	59	52	48	39	30
Saturn 4 fl 700 16 M	<b>637</b>	Saturn 4 fl 700 16 T	<b>612</b>		106	100	95	89	80	69	55	40
		Saturn 4 fl 700 22 T	<b>834</b>		145	139	130	122	111	96	79	55
		Saturn 4 fl 700 30 T	<b>990</b>		195	188	178	166	150	130	106	85
		Saturn 4 fl 700 40 T	<b>1,130</b>		260	248	232	220	200	178	145	100
		Saturn 4 fl 700 50 T	<b>1,451</b>	328	310	295	278	252	218	175	130	

# Submersible 4" borehole pumps

# Saturn 4 fl 900/1300



	A	B	C	D	DNm	KgA	KgB
<b>Saturn 4 fl250 7</b>	293	547	95	98	1 1/4"	2.6	10.6
<b>Saturn 4 fl250 11</b>	373	657	95	98	1 1/4"	3.4	12.5
<b>Saturn 4 fl250 15</b>	453	757	95	98	1 1/4"	4.2	14.3
<b>Saturn 4 fl250 22</b>	593	942	95	98	1 1/4"	5.5	17.5
<b>Saturn 4 fl250 29</b>	733	1127	95	98	1 1/4"	6.9	20.8
<b>Saturn 4 fl250 42</b>	993	1407	95	98	1 1/4"	9.4	24.6
<b>Saturn 4 fl250 56</b>	1273	1727	95	98	1 1/4"	12.1	29.6

	A	B	C	D	DNm	KgA	KgB
<b>Saturn 4 fl700 5</b>	341	645	95	98	2"	2.9	13
<b>Saturn 4 fl700 8</b>	456	805	95	98	2"	3.9	15.9
<b>Saturn 4 fl700 11</b>	572	966	95	98	2"	4.9	18.8
<b>Saturn 4 fl700 16</b>	764	1178	95	98	2"	6.5	21.7
<b>Saturn 4 fl700 22</b>	995	1449	95	98	2"	8.5	23.7
<b>Saturn 4 fl700 30</b>	1303	1913	95	98	2"	11.1	34.6
<b>Saturn 4 fl700 40</b>	1688	2368	95	98	2"	14.4	41.2
<b>Saturn 4 fl700 50</b>	2073	2823	95	98	2"	17.7	50.4

	A	B	C	D	DNm	KgA	KgB
<b>Saturn 4 fl350 5</b>	253	507	95	98	1 1/4"	2.2	10.2
<b>Saturn 4 fl350 7</b>	293	577	95	98	1 1/4"	2.6	11.7
<b>Saturn 4 fl350 10</b>	353	657	95	98	1 1/4"	3.2	13.3
<b>Saturn 4 fl350 15</b>	453	802	95	98	1 1/4"	4.2	16.2
<b>Saturn 4 fl350 20</b>	533	927	95	98	1 1/4"	5.1	19
<b>Saturn 4 fl350 29</b>	733	1147	95	98	1 1/4"	6.9	22.1
<b>Saturn 4 fl350 40</b>	953	1407	95	98	1 1/4"	9	26.5
<b>Saturn 4 fl350 52</b>	1193	1803	95	98	1 1/4"	11.3	38.1

	A	B	C	D	DNm	KgA	KgB
<b>Saturn 4 fl900 5</b>	341	735	95	98	2"	2.9	16.8
<b>Saturn 4 fl900 7</b>	418	812	95	98	2"	3.5	17.4
<b>Saturn 4 fl900 10</b>	533	947	95	98	2"	4.5	19.7
<b>Saturn 4 fl900 14</b>	687	1141	95	98	2"	5.8	23.3
<b>Saturn 4 fl900 19</b>	880	1490	95	98	2"	7.4	30.9
<b>Saturn 4 fl900 27</b>	1188	1868	95	98	2"	10	36.8
<b>Saturn 4 fl900 36</b>	1534	2284	95	98	2"	13	45.7

	A	B	C	D	DNm	KgA	KgB
<b>Saturn 4 fl 1300 5</b>	363	757	95	98	2"	3	16.9
<b>Saturn 4 fl 1300 8</b>	491	905	95	98	2"	4.1	19.3
<b>Saturn 4 fl 1300 11</b>	620	1074	95	98	2"	5.2	22.7
<b>Saturn 4 fl 1300 15</b>	792	1402	95	98	2"	6.6	30.1
<b>Saturn 4 fl 1300 20</b>	1006	1686	95	98	2"	8.4	35.2
<b>Saturn 4 fl 1300 27</b>	1306	2056	95	98	2"	10.9	43.6

## Floating Impellers



MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 400 V	1~	3~			
<b>Saturn 4 fl900 5</b>	8.6	3.2	1.9	1.6	1.1	1.5	40
<b>Saturn 4 fl900 7</b>	10.6	4	2.3	2.1	1.5	2	50
<b>Saturn 4 fl900 10</b>	15.5	5.9	3.5	3.1	2.2	3	70
<b>Saturn 4 fl900 14</b>	-	7.8	-	4.1	3	4	-
<b>Saturn 4 fl900 19</b>	-	10	-	5.4	4	5.5	-
<b>Saturn 4 fl900 27</b>	-	13.7	-	7.5	5.5	7.5	-
<b>Saturn 4 fl900 36</b>	-	18.4	-	11.7	7.5	10	-

MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 400 V	1~	3~			
<b>Saturn 4 fl1300 5</b>	10.6	4	2.3	2.1	1.5	2	50
<b>Saturn 4 fl1300 8</b>	15.5	5.9	3.5	3.1	2.2	3	70
<b>Saturn 4 fl1300 11</b>	-	7.8	-	4.1	3	4	-
<b>Saturn 4 fl1300 15</b>	-	10	-	5.4	4	5.5	-
<b>Saturn 4 fl1300 20</b>	-	13.7	-	7.5	5.5	7.5	-
<b>Saturn 4 fl1300 27</b>	-	18.4	-	11.7	7.5	10	-

Pumps with 230/400V motors on request

SEE PAGE 97 FOR  
CONTROL OPTIONS



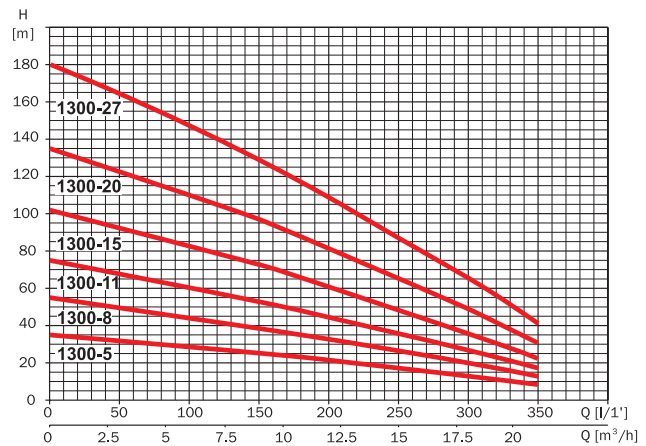
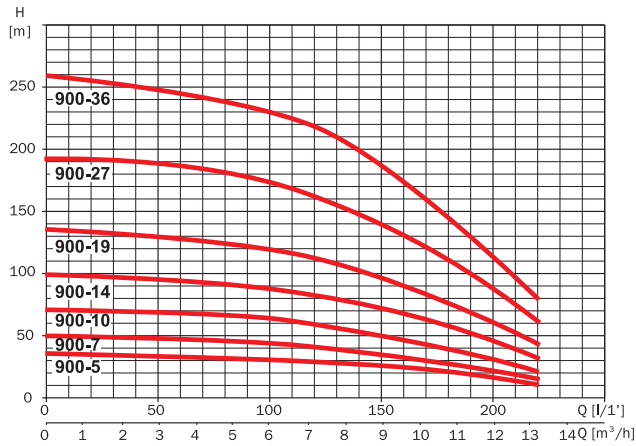
SEE PAGE 98 FOR  
POWER SUPPLY CABLE





# Saturn 4 fl 900/1300

Submersible  
4" borehole pumps



Single phase	Price	Three phase	Price	H [m]								
				10	30	60	90	120	150	180	220	
				l/1'	0.6	1.8	3.6	5.4	7.2	9	10.8	13.2
Saturn 4 fl900 5 M	<b>521</b>	Saturn 4 fl900 5 T	<b>500</b>		35	34	32	31	30	26	21	12
Saturn 4 fl900 7 M	<b>540</b>	Saturn 4 fl900 7 T	<b>518</b>		50	49	48	45	41	35	28	16
Saturn 4 fl900 10 M	<b>639</b>	Saturn 4 fl900 10 T	<b>613</b>		70	69	68	65	60	50	40	22
		Saturn 4 fl900 14 T	<b>754</b>		100	98	92	90	82	72	56	31
		Saturn 4 fl900 19 T	<b>863</b>		132	130	128	120	111	97	75	42
		Saturn 4 fl900 27 T	<b>1,037</b>		190	189	185	176	162	140	110	61
		Saturn 4 fl900 36 T	<b>1,382</b>		256	251	243	234	218	189	145	80

Single phase	Price	Three phase	Price	H [m]								
				50	100	150	200	250	300	350	400	
				l/1'	3	6	9	12	15	18	21	24
Saturn 4 fl1300 5 M	<b>582</b>	Saturn 4 fl1300 5 T	<b>550</b>		31	28	25	20	16	12	7	3
Saturn 4 fl1300 8 M	<b>668</b>	Saturn 4 fl1300 8T	<b>640</b>		49	44	38	32	25	19	12	4
		Saturn 4 fl1300 11 T	<b>875</b>		67	60	53	44	35	26	16	6
		Saturn 4 fl1300 15 T	<b>1,006</b>		92	83	72	60	48	35	22	8
		Saturn 4 fl1300 20 T	<b>1,200</b>		122	110	96	81	65	48	30	12
		Saturn 4 fl1300 27 T	<b>1,641</b>		165	147	130	108	87	65	40	15

# Submersible 6" borehole pump (Complete with motor) | Saturn 6

## Applications

Agricultural/Industrial applications.  
Pressurisation, water transfer.  
Suitable for wells 6" and above.

## Materials

### Outer Casing

Stainless steel AISI 304.

### Discharge Body

Stainless steel AISI 304.

### Impellers

Noryl (glass loaded polymer)

### Diffusers

Noryl (glass loaded polymer).

### Suction Strainer

Stainless steel AISI 304.

### Pump Support

Stainless steel AISI 304.

## Motor

4" & 6" Motors.  
Class F insulation.  
Protection IP68  
Continuous operation  
Built-in Thermal protection.

## Limitations

Maximum ambient temperature: 35°C.

## Equipment

Complete with pre-fitted cable tail; integral non-return valve; heat shrink joint kit (option of resin joint).



MODEL	Price	3~	P1	Motor Type	kW	HP	Ø Ref.	l/1' m³/h																
		400 V	3~						20	50	100	133	170	200	250	280								
Saturn 6 80 5	<b>1,079</b>	5.9	3.1	4"	2.2	3	3"	H [m]	1.2	3	6	8	10.2	12	15	16.8	80	79	71	65	58	45	25	10
Saturn 6 80 6	<b>1,363</b>	7.8	4.1	4"	3	4	3"		98	96	85	80	72	58	32	12	113	110	100	90	80	65	40	14
Saturn 6 80 7	<b>1,412</b>	7.8	4.1	4"	3	4	3"		127	123	113	105	90	75	45	17	142	138	127	115	100	85	50	20
Saturn 6 80 8	<b>1,910</b>	10	5.4	4"	4	5.5	3"		193	185	173	158	136	115	63	25	240	232	215	192	168	140	80	31
Saturn 6 80 9	<b>1,996</b>	10	5.4	4"	4	5.5	3"		287	280	258	232	200	170	100	38	338	323	300	271	237	200	115	45
Saturn 6 80 12	<b>2,192</b>	13.7	7.5	4"	5.5	7.5	3"		382	370	341	310	270	224	130	53	447	433	400	363	317	260	150	61
Saturn 6 80 15	<b>2,376</b>	16	9.5	6"	7.5	10	3"		480	463	430	390	338	280	160	65	640	620	570	515	447	380	220	90
Saturn 6 80 18	<b>2,565</b>	20.7	11.5	6"	9.3	12.5	3"		720	700	640	580	503	420	240	100								
Saturn 6 80 21	<b>2,728</b>	20.7	11.5	6"	9.3	12.5	3"																	
Saturn 6 80 24	<b>2,962</b>	23.3	13.7	6"	11	15	3"																	
Saturn 6 80 28	<b>3,399</b>	31.3	18.4	6"	15	20	3"																	
Saturn 6 80 30	<b>3,663</b>	31.3	18.4	6"	15	20	3"																	
Saturn 6 80 40	<b>5,126</b>	38.5	22.7	6"	18.5	25	3"																	
Saturn 6 80 45	<b>5,692</b>	45.3	27	6"	22	30	3"																	

# Saturn 6

## 80/120/240

Submersible 6" borehole pump  
(complete with motor)

MODEL	Price	3~	P1	Motor Type	kW	HP	Ø Ref.	l/1' m³/h	H [m]							
		400 V	3~						30	80	116	150	200	240	300	350
Saturn 6 120 4	1,035	5.9	3.1	4"	2.2	3	3"		62	60	59	58	52	47	28	10
Saturn 6 120 5	1,389	7.8	4.1	4"	3	4	3"		80	78	75	73	67	60	38	12
Saturn 6 120 6	1,884	10	5.4	4"	4	5.5	3"		95	92	90	85	78	70	45	15
Saturn 6 120 7	1,996	13.7	7.5	4"	5.5	7.5	3"		110	106	105	100	92	83	52	18
Saturn 6 120 8	2,062	13.7	7.5	4"	5.5	7.5	3"		126	121	119	115	106	96	60	22
Saturn 6 120 9	2,152	13.7	7.5	4"	5.5	7.5	3"		142	139	135	130	120	108	67	27
Saturn 6 120.12	2,360	16	9.53	6"	7.5	10	3"		188	182	178	170	158	142	89	33
Saturn 6 120 15	2,625	20.7	11.5	6"	9.3	12.5	3"		235	230	222	215	199	180	110	40
Saturn 6 120 18	2,860	23.3	13.7	6"	11	15	3"		282	277	270	260	240	215	132	48
Saturn 6 120 21	3,273	31.3	18.4	6"	15	20	3"		328	322	311	300	278	250	157	58
Saturn 6 120 24	3,430	31.3	18.4	6"	15	20	3"		376	370	359	344	319	288	180	65
Saturn 6 120 30	4,019	38.5	22.7	6"	18.5	25	3"		471	461	448	430	398	360	220	80
Saturn 6 120 35	5,253	45.3	27	6"	22	30	3"		550	540	520	500	464	420	240	95
Saturn 6 120 40	5,854	57	34	6"	26	35	3"		627	617	605	585	538	480	295	105

MODEL	Price	3~	P1	Motor Type	kW	HP	Ø Ref.	l/1' m³/h	H [m]							
		400 V	3~						50	100	200	300	400	450	500	600
Saturn 6 240 2	977	4	2.1	4"	1.5	2	3"		26.3	25.5	23.5	20	16.5	13	10.5	2
Saturn 6 240 3A	1,125	5.9	3.1	4"	2.2	3	3"		39.5	38.5	35	30	25	20	16	3
Saturn 6 240 3	1,380	7.8	4.1	4"	3	4	3"		44	42	40	36	30	23	20	12
Saturn 6 240 4	1,913	10	5.4	4"	4	5.5	3"		61	59	55	50	40	35	30	15
Saturn 6 240 6	2,109	13.7	7.5	4"	5.5	7.5	3"		91	88	81	75	60	52	43	22
Saturn 6 240 8	2,267	16	9.5	6"	7.5	10	3"		121	117	107	97	80	70	60	30
Saturn 6 240 10	2,546	20.7	11.5	6"	9.3	12.5	3"		150	145	135	120	100	88	76	40
Saturn 6 240 12	2,767	23.3	13.7	6"	11	15	3"		180	174	160	144	120	108	90	47
Saturn 6 240 14	3,140	31.3	18.4	6"	15	20	3"		208	201	188	164	140	123	103	54
Saturn 6 240 16	3,256	31.3	18.4	6"	15	20	3"		239	231	216	195	160	140	119	60
Saturn 6 240 20	3,808	38.5	22.7	6"	18.5	25	3"		298	287	270	240	200	175	147	78
Saturn 6 240 24	4,334	45.3	27	6"	22	30	3"		358	345	322	290	240	210	178	95
Saturn 6 240 28	5,398	57	34	6"	26	35	3"		417	404	379	337	280	245	205	109
Saturn 6 240 32	6,009	63.5	37	6"	30	40	3"		478	462	431	382	320	283	240	120
Saturn 6 240 39	7,616	73	44	6"	37	50	3"		580	561	524	468	390	340	284	149
Saturn 6 240 44	9,399	89.5	53.3	6"	45	60	3"		658	638	593	537	440	380	323	168

# Submersible 6" borehole pump (complete with motor)

# Saturn 6 360/480

MODEL	Price	3~	P1	Motor Type	kW	HP	Ø Ref.	l/1' m³/h	H [m]							
		400 V	3~						50	150	300	450	550	650	750	800
Saturn 6 360 2	<b>1,332</b>	7.8	4.1	4"	3	4	3"	30	29,5	29	25	20	17	11	8	
Saturn 6 360 3	<b>1,842</b>	10	5.4	4"	4	5.5	3"	48	47	43	38	32	26	17	10	
Saturn 6 360 4	<b>1,955</b>	13.7	7.5	4"	5.5	7.5	3"	62	60,5	56	50	43	36	22	15	
Saturn 6 360 5	<b>2,080</b>	16	9.5	6"	7.5	10	3"	80	78	70	62	55	46	29	20	
Saturn 6 360 6	<b>2,297</b>	20.7	11.5	6"	9.3	12.5	3"	95	92	84	75	66	54	34	23	
Saturn 6 360 8	<b>2,495</b>	23.3	13.7	6"	11	15	3"	126	122	113	100	88	70	45	29	
Saturn 6 360 9	<b>2,823</b>	31.3	18.4	6"	15	20	3"	141	137	129	112	100	80	50	33	
Saturn 6 360 10	<b>2,879</b>	31.3	18.4	6"	15	20	3"	158	153	142	125	110	88	56	37	
Saturn 6 360 12	<b>3,206</b>	38.5	22.7	6"	18.5	25	3"	190	182	171	150	130	104	69	43	
Saturn 6 360 15	<b>3,601</b>	45.3	27	6"	22	30	3"	238	230	215	190	162	130	84	55	
Saturn 6 360 18	<b>4,063</b>	57	34	6"	26	35	3"	284	275	258	225	196	157	100	66	
Saturn 6 360 20	<b>4,391</b>	63.5	37	6"	30	40	3"	315	305	285	250	219	175	110	73	
Saturn 6 360 24	<b>5,588</b>	73	44	6"	37	50	3"	380	370	345	300	261	208	132	88	
Saturn 6 360 28	<b>6,538</b>	89.5	53.3	6"	45	60	3"	441	430	400	350	304	241	155	100	

MODEL	Price	3~	P1	Motor Type	kW	HP	Ø Ref.	l/1' m³/h	H [m]							
		400 V	3~						100	300	500	700	833	900	1050	1100
Saturn 6 480 2A	<b>1,784</b>	5.9	3.1	4"	2.2	3	3"	20	17,8	14,3	10	7	5	1	-	
Saturn 6 480 2	<b>1,842</b>	10	5.4	4"	4	5.5	3"	25	23	20	17	13	11	8	5	
Saturn 6 480 3	<b>1,899</b>	13.7	7.5	4"	5.5	7.5	3"	39	36	31	26	19	15	10	7	
Saturn 6 480 4	<b>2,013</b>	16	9.5	6"	7.5	10	3"	50	47	42	36	27	22	12	9	
Saturn 6 480 5	<b>2,210</b>	20.7	11.5	6"	9.3	12.5	3"	64	60	53	43	34	29	15	11	
Saturn 6 480 6	<b>2,386</b>	23.3	13.7	6"	11	15	3"	77	71	64	50	40	35	19	13	
Saturn 6 480 8	<b>2,739</b>	31.3	18.4	6"	15	20	3"	102	95	85	68	53	45	23	16	
Saturn 6 480 9	<b>2,823</b>	31.3	18.4	6"	15	20	3"	115	107	95	77	60	51	27	18	
Saturn 6 480 10	<b>3,075</b>	38.5	22.7	6"	18.5	25	3"	128	120	105	86	69	58	30	20	
Saturn 6 480 12	<b>3,418</b>	45.3	27	6"	22	30	3"	152	143	127	102	81	69	37	25	
Saturn 6 480 15	<b>3,784</b>	57	34	6"	26	35	3"	190	178	158	128	100	85	45	30	
Saturn 6 480 18	<b>4,255</b>	63.5	37	6"	30	40	3"	230	215	190	152	121	103	52	37	
Saturn 6 480 22	<b>5,412</b>	73	44	6"	37	50	3"	280	260	232	188	148	125	65	46	
Saturn 6 480 25	<b>6,329</b>	89.5	53.3	6"	45	60	3"	320	295	264	211	167	142	74	50	

# Saturn 6 SS 15

Stainless steel, submersible  
6" borehole pump  
(Wet end only)



## + Impellers and Diffusers in Stainless Steel



### Applications

Agricultural/Industrial.  
Pressurisation, water transfer.  
Suitable for wells 6" and above.

### Materials

#### Outer Casing

Stainless steel AISI 304.

#### Discharge Body

Stainless steel AISI 304.

#### Impellers

Stainless steel AISI 304.

#### Diffusers

Stainless steel AISI 304.

#### Suction Strainer

Stainless steel AISI 304.

#### Pump Support

Stainless steel AISI 304.

### Motor

SEE PAGE 20  
FOR MOTORS

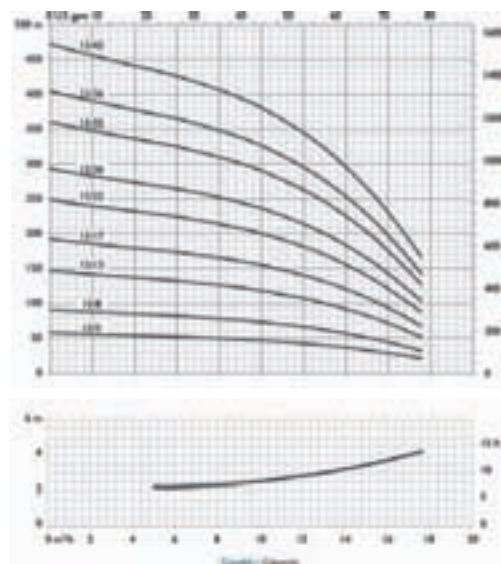
### Limitations

Maximum liquid temperature: 30°C.

### Equipment

Integral non return valve.

MODEL	Price	3~	P1	Motor Type	kW	HP
		400 V	3~			
6SS N 15/ 5.4	921	-	-	4"	2.2	3
6SS N 15/ 8.4	1,043	-	-	4"	3.7	5
6SS N 15/ 8 SD	1,021	-	-	4"	3.7	5
6SS N 15/ 13.4	1,299	-	-	6"	5.5	7.5
6SS N 15/ 13 SD	1,279	-	-	6"	5.5	7.5
6SS N 15/ 17 SD	1,492	-	-	6"	7.5	10
6SS N 15/ 22 SD	1,760	-	-	6"	9.3	12.5
6SS N 15/ 26 SD	2,029	-	-	6"	11	15
6SS N 15/ 32 SD	2,429	-	-	6"	15	20
6SS N 15/ 36 SD	2,698	-	-	6"	15	20
6SS N 15/ 42 SD	3,102	-	-	6"	18.5	25

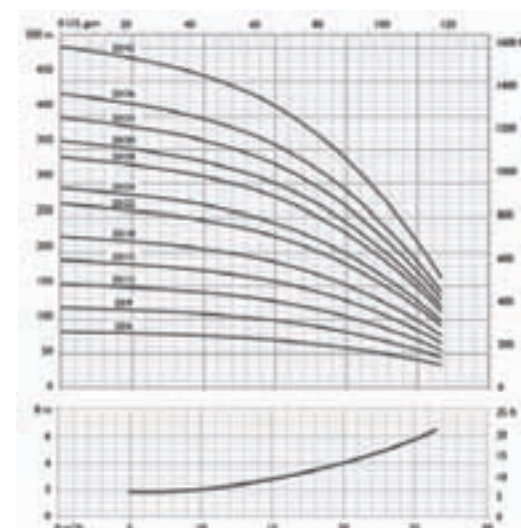




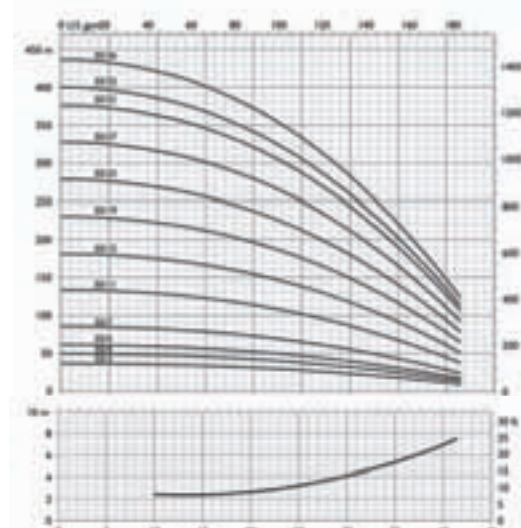
# Stainless steel submersible 6" borehole pump (Wet end only)

# Saturn 6 SS 20/30

MODEL	Price	3~	P1	Motor Type	kW	HP
		400 V	3~			
6SS N 20/ 6.4	998	-	-	4"	4	5.5
6SS N 20/ 6 SD	976	-	-	6"	4	5.5
6SS N 20/ 9.4	1,165	-	-	4"	5.5	7.5
6SS N 20/ 9 SD	1,145	-	-	6"	5.5	7.5
6SS N 20/ 12 SD	1,313	-	-	6"	7.5	10
6SS N 20/ 15 SD	1,503	-	-	6"	9.3	12.5
6SS N 20/ 18 SD	1,683	-	-	6"	11	15
6SS N 20/ 22 SD	1,974	-	-	6"	15	20
6SS N 20/ 24 SD	2,130	-	-	6"	15	20
6SS N 20/ 28 SD	2,447	-	-	6"	18.5	25
6SS N 20/ 30 SD	2,638	-	-	6"	18.5	25
6SS N 20/ 33 SD	2,894	-	-	6"	22	30
6SS N 20/ 36 SD	3,142	-	-	6"	22	30
6SS N 20/ 42 SD	3,638	-	-	6"	30	40



MODEL	Price	3~	P1	Motor Type	kW	HP
		400 V	3~			
6SS N 30/ 3.4	944	-	-	4"	3	4
6SS N 30/ 3	915	-	-	4"	3	4
6SS N 30/ 4.4	1,065	-	-	4"	4	5.5
6SS N 30/ 4 SD	1,043	-	-	6"	4	5.5
6SS N 30/ 5.4	1,222	-	-	4"	5.5	7.5
6SS N 30/ 5 SD	1,200	-	-	6"	5.5	7.5
6SS N 30/ 7 SD	1,491	-	-	6"	7.5	10
6SS N 30/ 11 SD	2,082	-	-	6"	11	15
6SS N 30/ 15 SD	2,598	-	-	6"	15	20
6SS N 30/ 19 SD	3,088	-	-	6"	18.5	25
6SS N 30/ 23 SD	3,556	-	-	6"	22	30
6SS N 30/ 27 SD	3,973	-	-	6"	30	40
6SS N 30/ 31 SD	4,391	-	-	6"	30	40
6SS N 30/ 33 SD	4,598	-	-	6"	37	50
6SS N 30/ 36 SD	4,910	-	-	6"	37	50



# Saturn 6 SS 45/60

Stainless steel submersible  
6" borehole pump  
(Wet end only)

MODEL	Price	3~	P1	Motor Type	kW	HP
		400 V	3~			
6SS N 45/ 2.4	<b>1,311</b>	-	-	4"	3	4
6SS N 45/ 2	<b>1,007</b>	-	-	6"	3	4
6SS N 45/ 3.4	<b>1,186</b>	-	-	4"	5.5	7.5
6SS N 45/ 3 SD	<b>1,164</b>	-	-	6"	5.5	7.5
6SS N 45/ 5 SD	<b>1,534</b>	-	-	6"	7.5	10
6SS N 45/ 7 SD	<b>1,902</b>	-	-	6"	11	15
6SS N 45/ 9 SD	<b>2,285</b>	-	-	6"	15	20
6SS N 45/ 10 SD	<b>2,469</b>	-	-	6"	15	20
6SS N 45/ 12 SD	<b>2,816</b>	-	-	6"	18.5	25
6SS N 45/ 15 SD	<b>3,300</b>	-	-	6"	22	30
6SS N 45/ 18 SD	<b>3,725</b>	-	-	6"	30	40
6SS N 45/ 20 SD	<b>3,966</b>	-	-	6"	30	40
6SS N 45/ 22 SD	<b>4,208</b>	-	-	6"	37	50
6SS N 45/ 24 SD	<b>4,451</b>	-	-	6"	37	50

MODEL	Price	3~	P1	Motor Type	kW	HP
		400 V	3~			
6SS N 60/ 2.4	<b>1,101</b>	-	-	4"	3.7	5
6SS N 60/ 2 SD	<b>1,078</b>	-	-	6"	3.7	5
6SS N 60/ 3.4	<b>1,284</b>	-	-	4"	5.5	7.5
6SS N 60/ 3 SD	<b>1,262</b>	-	-	6"	5.5	7.5
6SS N 60/ 5 SD	<b>1,686</b>	-	-	6"	7.5	10
6SS N 60/ 7 SD	<b>2,077</b>	-	-	6"	11	15
6SS N 60/ 9 SD	<b>2,490</b>	-	-	6"	15	20
6SS N 60/ 10 SD	<b>2,653</b>	-	-	6"	15	20
6SS N 60/ 12 SD	<b>3,020</b>	-	-	6"	18.5	25
6SS N 60/ 14 SD	<b>3,361</b>	-	-	6"	22	30
6SS N 60/ 16 SD	<b>3,680</b>	-	-	6"	30	40
6SS N 60/ 18 SD	<b>3,964</b>	-	-	6"	30	40
6SS N 60/ 20 SD	<b>4,263</b>	-	-	6"	37	50
6SS N 60/ 23 SD	<b>4,711</b>	-	-	6"	37	50

6" 8" 9" & 10" Borehole pumps  
for large diameter wells

# Pompes Guinard Batiment

## Applications

Irrigation, Pressurisation and water transfer. Suitable for wells 6" and above.

## Materials

### Pump Body

Cast iron (Bronze options).

### Impellers

Cast iron (Bronze options).

### Diffusers

Cast iron (Bronze options).

### Strainer

Stainless steel. AISI 304.

### Motor/Pump Support

Cast iron (Bronze options).

## Motor

Class F insulation.  
Protection IP 68.  
Continuous operation.

## Limitations

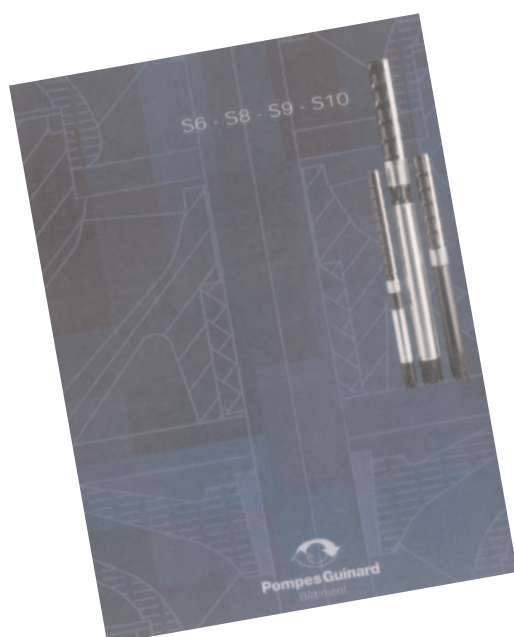
Maximum liquid temperature: 30°C.

## Equipment

Integral non return valve.  
Complete with motor cable tail.



For assistance  
in your  
selection,  
please contact  
our technical  
sales team.



# AG4 AG6

## Franklin Electric 4" and 6" motors for borehole pumps

### Description

Water cooled.  
IP 68 Protection.  
Corrosion resistant materials.  
**AG4** : Nema 4" coupling  
Class B insulation.  
**AG6** : Nema 6" coupling  
Class F insulation.

### Limitations

Suitable for vertical and horizontal use.  
(Sleeve required for horizontal use).  
Maximum ambient temperature: 30°C  
Maximum starts per hour: 20

### Equipment

**AG4 & AG6** Franklin motor supplied complete with cable tail.



4"

Single phase 230/240V	Price	kW	µF	Maximum length of cable (in m)	Cable section in mm <sup>2</sup>				
					4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10
<b>254 634 3116</b>	<b>215</b>	0.37	16	4"	120	200	320	480	810
<b>254 635 3116</b>	<b>230</b>	0.55	20		80	130	220	320	550
<b>254 636 1616</b>	<b>248</b>	0.75	30		60	100	170	250	430
<b>254 637 1616</b>	<b>285</b>	1.1	40		40	70	120	180	300
<b>254 638 1616</b>	<b>350</b>	1.5	50		30	60	90	130	230
<b>254 639 2516</b>	<b>439</b>	2.2	70		20	40	60	90	150

Motors with 230/400V on request



4"

Three phase 380/400/415V	Price	kW	µF	Maximum length of cable (in m)	Cable section in mm <sup>2</sup>				
					4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10
<b>234 561 3016</b>	<b>201</b>	0.37	-	4"	810	1350	2160	3240	5500
<b>234 562 3016</b>	<b>203</b>	0.55	-		550	920	1480	2230	3780
<b>234 563 3016</b>	<b>219</b>	0.75	-		410	680	1090	1640	2780
<b>234 524 1616</b>	<b>254</b>	1.1	-		300	500	810	1210	2060
<b>234 525 1616</b>	<b>296</b>	1.5	-		220	370	590	880	1500
<b>234 526 2516</b>	<b>366</b>	2.2	-		150	250	400	600	1030
<b>234 591 2516</b>	<b>441</b>	3	-		110	190	310	460	790
<b>234 593 3401</b>	<b>613</b>	4	-		80	140	230	340	590
<b>234 528 3401</b>	<b>680</b>	5.5	-		60	110	170	260	440

6"

Three phase 380/400/415V	Price	kW	µF	Maximum length of cable (in m)	Cable section in mm <sup>2</sup>				
					4 x 1,5	4 x 2,5	4 x 4	4 x 6	4 x 10
<b>236 610 9024</b>	<b>946</b>	4	-	6"	50	80	140	210	350
<b>236 611 9024</b>	<b>981</b>	5.5	-		40	60	100	160	270
<b>236 612 9024</b>	<b>1,037</b>	7.5	-		30	50	80	120	200
<b>236 001 9024</b>	<b>1,116</b>	9.3	-		-	40	60	90	160
<b>236 613 9024</b>	<b>1,177</b>	11	-		-	30	50	80	140
<b>236 614 9024</b>	<b>1,388</b>	15	-		-	-	40	60	100
<b>236 615 9024</b>	<b>1,514</b>	18.5	-		-	-	-	50	80
<b>236 616 9024</b>	<b>1,712</b>	22	-		-	-	-	40	70
<b>236 617 9024</b>	<b>2,221</b>	30	-		-	-	-	-	50



Cable tail to suit 4" Franklin motor	Price
1.5 m Long.	<b>23</b>
2.5 m Long.	<b>29</b>
2.5 m Long c/w Stainless steel connector.	<b>44</b>

Cable tail to suit 6" Franklin motor	Price
4 m Long 4 x 4 mm <sup>2</sup>	<b>72</b>
4 m Long 4 x 8,4 mm <sup>2</sup>	<b>111</b>



# Submersible drainage pumps

# Best



Drainage

## Applications

For draining garages, irrigation for gardens and vegetable gardens.  
Emptying of wine cellars and basements.

## Materials

### Pump Body

Stainless steel AISI 304.

### Impeller

Stainless steel AISI 304.

### Motor Casing

Stainless steel AISI 304.

### Mechanical Seal

Ceramic/carbon/NBR

### Lip Seal

NBR.

## Motor

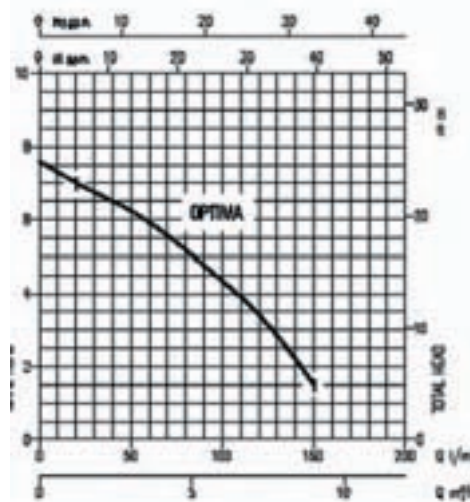
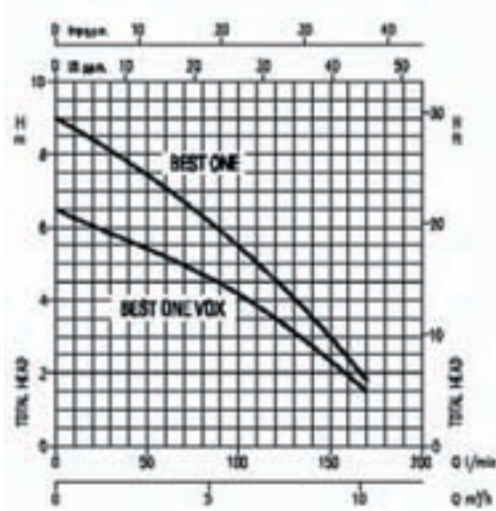
Cooling via circulation of pumped liquid.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Built-in thermal protection.

## Limitations

Maximum passage of solids: 10mm.  
Maximum immersion: 5m.  
Maximum temperature of liquid: 50°C.

## Equipment

Supplied with 10m of electrical cable.  
Integral capacitor.  
MA version c/w float switch.  
MS version c/w magnetic switch.

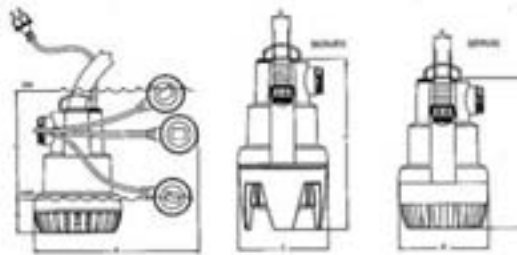
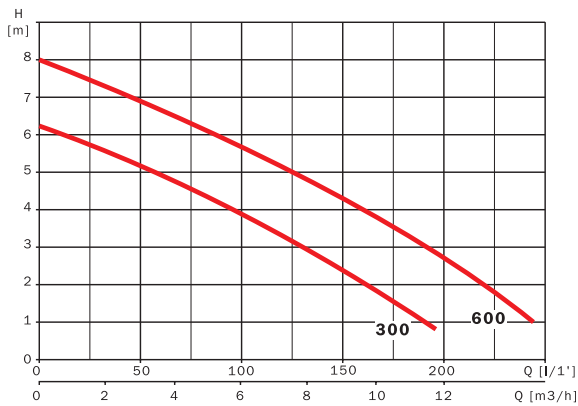


Single phase manual	Price	Single phase automatic	Price	230v	kw	HP	uf
Optima M	156	Optima MA	168	1.9	0.3	0.3	8
		Optima MS	174	1.9	0.3	0.3	8
Best One M	162	Best One MA	180	2.2	0.3	0.3	8
		Best One MS	186	2.2	0.3	0.3	8
110v manual	Price	110v automatic	Price	110v	kw	HP	uf
Best One M 110v	180	Best One MA 110v	186	4.3	0.3	0.3	
Three phase manual	Price			400v	kw	HP	
Best One T	180			0.9	0.5	0.7	



# Vigilex

## Submersible drainage pumps



	A	B	C	D	F	G	H
Vigilex 300	410	145	380	4	362	30	7.8
Vigilex 600	410	145	380	4	362	30	7.8

### Applications

For lifting of dirty water, use in septic tanks and small pumping stations.

### Materials

#### Pump Body

Glass loaded polypropylene.

#### Vortex impeller

Polymide and glass loaded polymer.

#### Motor Shaft

Ceramic.

#### Double Lip Seal

NBR.

### Motor

Cooled by pumped liquid.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Built-in thermal protection.

### Limitations

Maximum passage of solids: 24 mm.  
Maximum immersion: 9 m.  
Maximum temperature of liquid: 35°C.

### Equipment

Integral capacitor.  
Supplied with 10m of electrical cable.  
Available with or without float switch.

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Vigilex 300	3	-	-	0.7	-	0.5	0.67	10
Vigilex 600	3.4	-	-	0.8	-	0.6	0.8	10

Single phase manual	Price	Single phase automatic	Price	I/1'	25	50	75	100	125	150	190	240
				m³/h	1.5	3	4.5	6	7.5	9	11.4	14.4
Vigilex 300 M	195	Vigilex 300M A	197	H [m]	5.7	5.2	4.6	3.8	3.2	2.4	0.9	-
Vigilex 600 M	200	Vigilex 600M A	203		7.5	6.9	6.4	5.7	5	4.3	2.6	1



Stainless steel  
submersible  
drainage pumps.

# Vigila SS

Drainage

## Applications

For lifting of clean water, fountains and water falls, drainage of infiltration water.

## Materials

### Pump Body

Stainless steel AISI 304.

### Impeller

Glass loaded polycarbonate.

### Motor Casing

Stainless steel AISI 304.

### Double Mechanical Seal

Silicon carbide and alumine oxide.  
O'rings in NBR.

## Motor

Cooling via circulation of pumped liquid.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Built-in thermal protection.

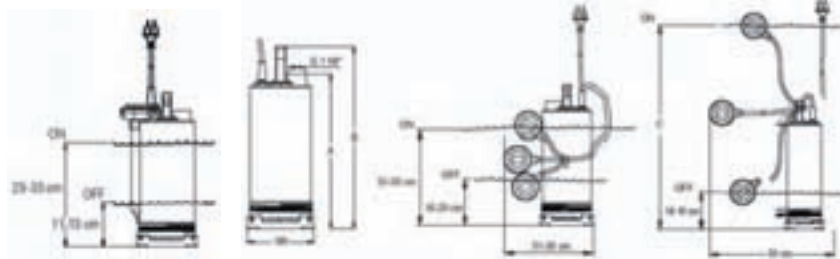
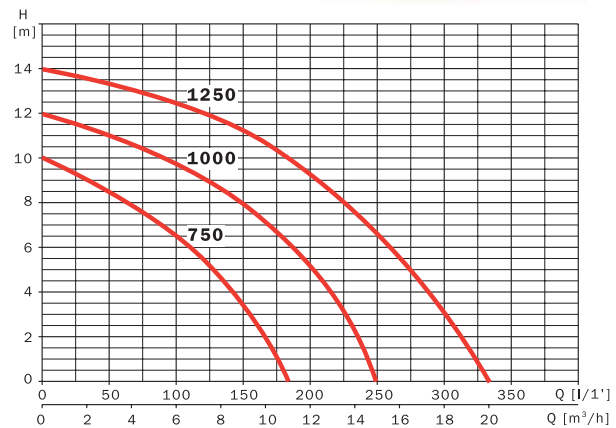
## Limitations

Maximum passage of solids: 8mm.  
Maximum immersion: 9m.  
Maximum temperature of liquid: 35°C.

## Equipment

Supplied with 10m of electrical cable.  
Integral capacitor.

**Vigila SS M A:** With float switch.



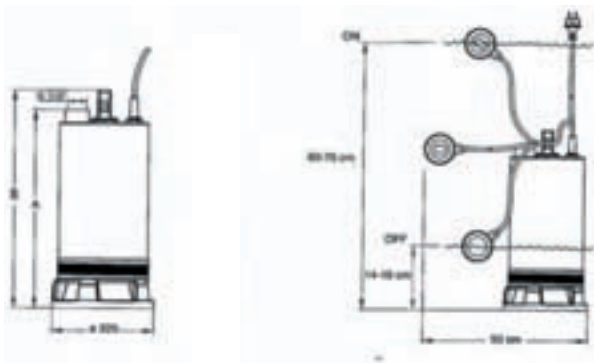
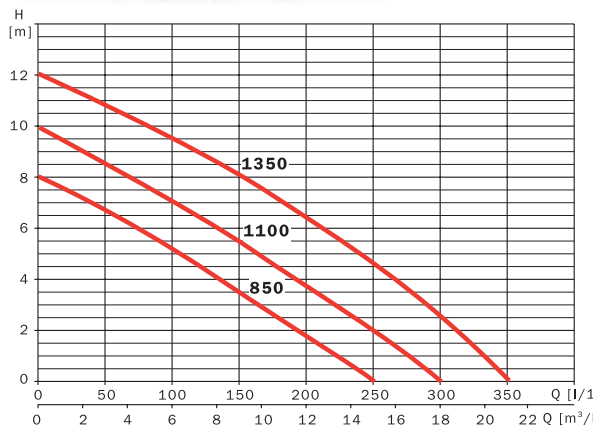
MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Vigila SS 750	2.4	-	-	0.55	-	0.25	0.33	12
Vigila SS 1000	3.5	-	-	0.8	-	0.5	0.75	12
Vigila SS 1250	5.0	-	-	1.1	-	0.9	1.2	16

	A	B	C	DNm	Kg
Vigila SS 750	380	434	50-52	1 <sup>1/4"</sup>	8.7
Vigila SS 1000	400	454	60-62	1 <sup>1/2"</sup>	9.6
Vigila SS 1250	420	474	70-72	1 <sup>3/4"</sup>	11

Single phase manual	Price	Single phase automatic	Price	l/1'	25	50	100	125	150	175	225	275
				m³/h	1.5	3	6	7.5	9.0	10.5	13.5	16.5
Vigila SS 750 M	219	Vigila SS 750 M A	234	H [m]	9.1	8.3	6.5	5.4	4.1	2.4	-	-
Vigila SS 1000 M	227	Vigila SS 1000 M A	230		11.1	10.5	9.0	8.2	7.1	6.0	2.6	-
Vigila SS 1250 M	249	Vigila SS 1250 M A	264		13.2	12.8	11.8	11.2	10.4	9.4	6.5	2.5

# Vigilex SS

## Stainless steel submersible drainage pumps



	A	B	C	DNm	Kg
Vigilex SS 850	434	478	225	1 1/2"	11.1
Vigilex SS 1100	454	498	225	1 1/2"	12
Vigilex SS 1350	474	518	225	1 1/2"	13.5

### Applications

For lifting dirty water in septic tanks and small pumping stations.

### Materials

#### Pump Body

Stainless steel AISI 304.

#### Vortex impeller

Glass loaded polycarbonate.

#### Motor Casing

Stainless steel AISI 304.

#### Double Mechanical Seal

Silicon carbide alumine oxide.

O'rings in rubber NBR.

### Motor

Cooling via circulation of pumped liquid.

Class F insulation.

Protection IP 68.

Continuous operation.

Built-in thermal protection.

### Limitations

Maximum solids handling: 35 mm.

Maximum immersion: 9 m.

Maximum temperature of liquid: 35°C.

### Equipment

Supplied with 10 m electrical cable.

Integral capacitor.

**Vigilex SS M A:** With float switch.

MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V	3~ 400 V	1~	3~			
Vigilex SS 850	2.8	-	-	0.6	-	0.37	0.5	12
Vigilex SS 1100	3.7	-	-	0.8	-	0.75	1	12
Vigilex SS 1350	4.7	-	-	1.0	-	0.9	1.2	16

Single phase manual	Price	Single phase automatic	Price	I/1'	25	50	100	150	200	250	300	320
				m³/h	1.5	3	6	9	12	15	18	19.2
Vigilex SS 850 M	247	Vigilex SS 850 M A	260	H [m]	7.4	6.3	5.1	3.4	1.6	-	-	-
Vigilex SS 1100 M	264	Vigilex SS 1100 M A	279		9.5	8.8	7.2	5.5	3.6	1.6	-	-
Vigilex SS 1350 M	284	Vigilex SS 1350 M A	299		11.1	10.5	9.2	7.7	6.2	4.2	2.2	1.2



# Stainless steel submersible grinder pumps

# Vigicor

Drainage

## Applications

Submersible grinder pumps for the drainage of sewage water with filaments in domestic applications, small purifying systems and septic tanks etc.

## Materials

### Pump Body

Stainless steel AISI 304.

### Impeller/grinder

Stainless steel AISI 304.

### Motor Casing

Stainless steel AISI 304.

### Double Mechanical Seal

Silicon carbide alumine oxide.  
O'rings in rubber NBR.

## Motor

Cooling via circulation of pumped liquid.  
Class F insulation.  
Protection IP 68.  
Continuous operation.  
Built-in thermal protection.

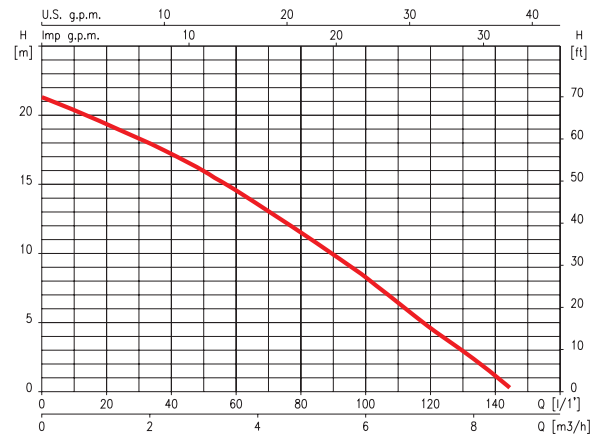
## Limitations

Maximum immersion: 9 m.  
Maximum temperature of liquid: 35°C.

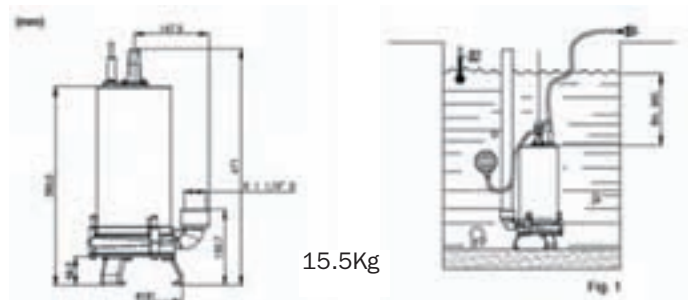
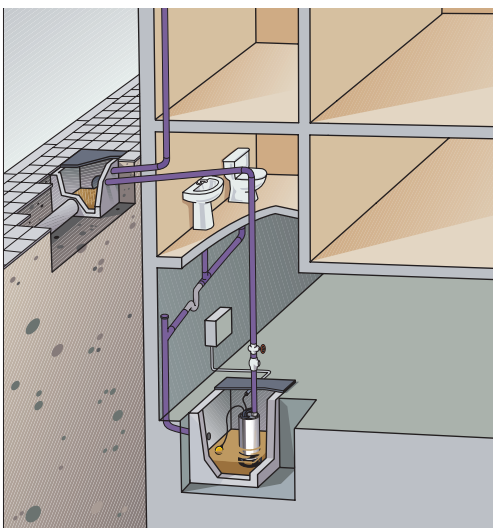
## Equipment

Supplied with 10 m electrical cable.  
Integral capacitor.

**Vigicor 150 M A:** With float switch.



MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V 400 V	1~	3~			
Vigicor 150	5.4	-	1.2	-	0.9	1.2	16



Single phase manual	Price	Single phase automatic	Price	Flow Rate (Q)								
				l/1'	10	20	40	60	80	100	120	140
Vigicor 150M	459	Vigicor 150MA	483	m³/h	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4
				H [m]	20.2	19.2	17.1	14.5	11.5	8.2	4.8	1.2

# Drain

## Submersible drainage pumps



### Applications

Drainage of dirty water with solids in suspension.

### Materials

#### Pump Body

Anti corrosion treated cast iron.

#### Impeller

Noryl (glass loaded polymer).

#### Motor Casing

Stainless steel AISI 304.

#### Carry Handle

Stainless steel AISI 304.

#### Double Mechanical Seal

Silicon Carbide /alumine.

### Motor

Class F insulation.

IP 68 Protection.

Continuous operation.

### Limitations

Maximum solids handling: 5 mm.

Maximum immersion: 8 m.

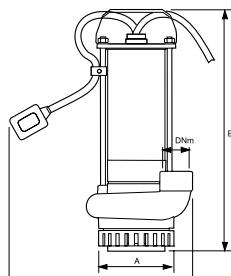
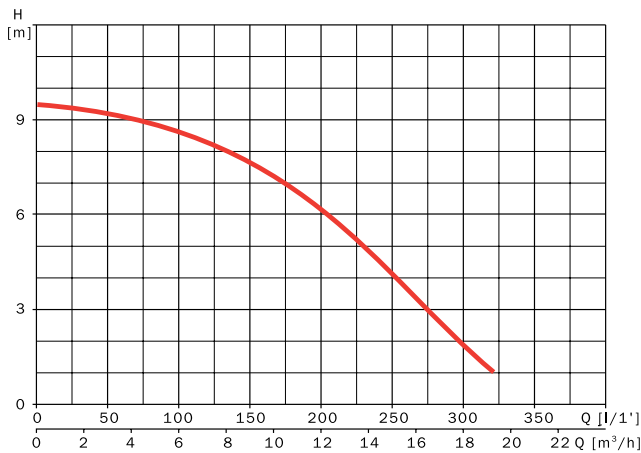
Maximum temperature of liquid: 40°C.

### Equipment

Supplied with 10m power cable.

Single phase supplied with capacitor box.

**Drain M A:** Complete with float switch.



	A	B	C	DNm	Kg
Drain 100	122	392	300	1 1/4"	10,5

MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V 400 V	1~	3~			
Drain 100	3.1	-	0.7	-	0.75	1	12

Single phase manual	Price	Single phase automatic	Price	l/1'	25	50	100	150	200	250	300	320
Drain 100 M	250	Drain 100 M A	263	m³/h	1,5	3	6	9	12	15	18	19,2
				H [m]	9,2	9,1	8,7	7,8	6	4	2	1





## Submersible drainage pumps

# Drainex

Drainage

### Applications

Drainage of dirty water and sewage, for use with septic tanks.

### Materials

#### Pump Body

Anti corrosion treated cast iron.

#### Vortex Impeller

Brass.

#### Motor Casing

Stainless steel AISI 304.

#### Carry Handle

Stainless steel AISI 304.

#### Double Mechanical Seal

Silicon carbide and alumine.



### Motor

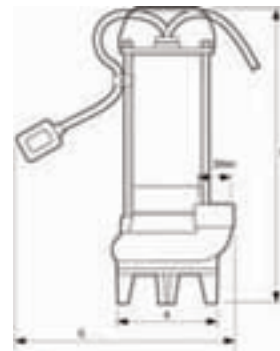
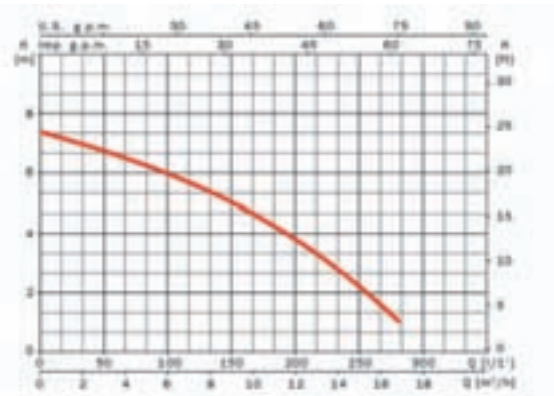
Class F insulation.  
IP 68 Protection.  
Continuous operation.

### Limitations

Maximum solids handling: 32 mm.  
Maximum immersion: 8 m.  
Maximum temperature of liquid: 40°C.

### Equipment

Supplied with 10m power cable.  
Single phase supplied with capacitor box.  
**Drainex M A:** Complete with float switch.



MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V	400 V	1~	3~			
Drainex 100	3,4	-	-	0,75	-	0,75	1	12

	A	B	C	DNm	Kg
Drainex 100	138	407	300	1 1/4"	11

Single phase	Price	l/1'	25	50	100	125	150	200	250	280
		m³/h	1.5	3	6	7.5	9.0	12	15	16.8
Drainex 100 M	256	H [m]	7	6.7	5.9	5.5	5.0	3.7	2.0	1.0
Drainex 100 M A	269									

# Drainex 200/300

## Submersible drainage pumps



### Applications

Sewage and dirty water with solids in suspension.

### Materials

#### Pump Body

Cast iron.

#### Vortex Impeller

Cast iron.

#### Detachable Pump Base

Stainless steel AISI 304.

#### Mechanical Seal

Silicon carbide and graphite.  
O-rings in NBR.

### Motor

Class F insulation.  
IP 68 Protection.  
Continuous operation.

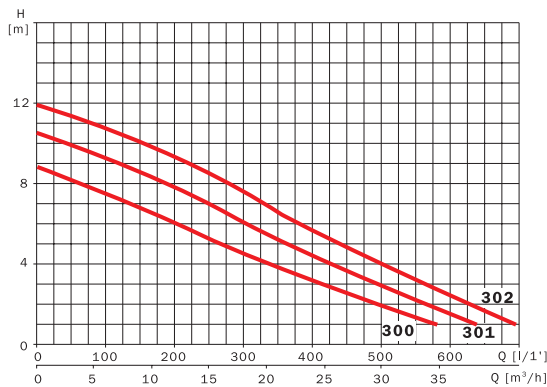
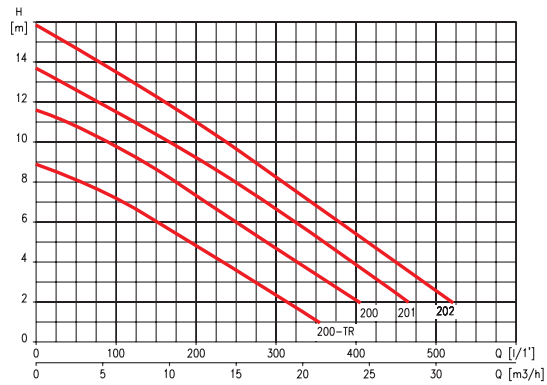
### Limitations

Maximum solids handling:  
**Drainex 200:** 45 mm.  
**Drainex 300:** 60 mm.

Maximum temperature of liquids: 40°C

### Equipment

**Drainex M A:** Complete with float switch.



MODEL	A			P1 (kW)		kW	HP	µF	Kg
	1~	3~		1~	3~				
	230 V	230 V	400 V						
<b>Drainex 200 TR</b>	3.7	2.9	1.7	0.8	0.8	0.55	0.75	16	22
<b>Drainex 200</b>	5.2	4	2.3	1.1	1.1	1.1	1.5	16	25
<b>Drainex 201</b>	6.2	4.5	2.6	1.4	1.4	1.1	1.5	16	25
<b>Drainex 202</b>	7.4	4.8	2.8	1.6	1.6	1.1	1.5	16	25

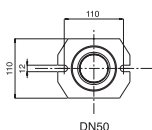
MODEL	A			P1 (kW)		kW	HP	µF	Kg
	1~	3~		1~	3~				
	230 V	230 V	400 V						
<b>Drainex 300</b>	5.5	4.2	2.4	1.2	1.2	1.1	1.5	16	28
<b>Drainex 301</b>	6.8	4.7	2.7	1.5	1.5	1.1	1.5	16	28
<b>Drainex 302</b>	7.8	5.2	3	1.8	1.8	1.1	1.5	16	28

Pumps with 230/400V motors on request

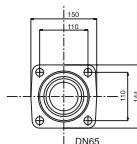
# Submersible drainage pumps

# Drainex 200/300

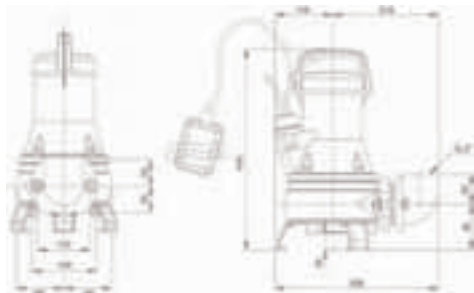
Drainage



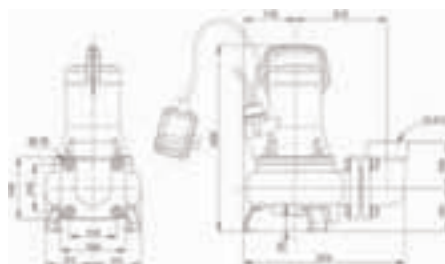
DN50



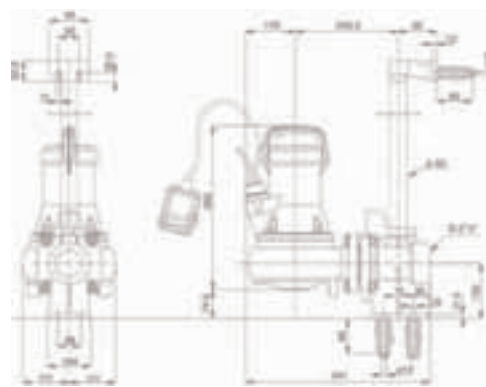
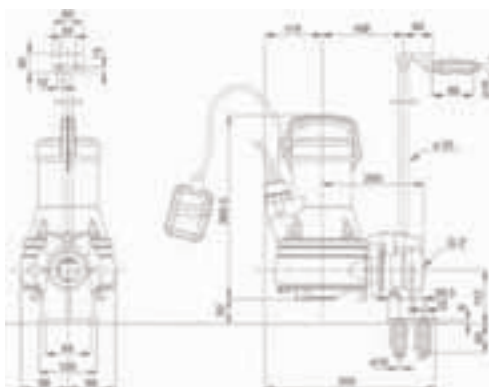
DN65



Drainex 200



Drainex 300



Single phase	Price	Three phase	Price	I/1'	50	100	150	200	300	400	450	500
				m <sup>3</sup> /h	3	6	9	12	18	24	27	30
Drainex 200 M TR	<b>519</b>	Drainex 200 T TR	<b>519</b>	H [m]	8.1	7.1	6	4.9	2.3	-	-	-
Drainex 200 MA TR	<b>544</b>				10.8	9.8	8.6	7.3	4.6	2.0	-	-
Drainex 200 M	<b>497</b>	Drainex 200 T	<b>497</b>		14.5	13.3	12.0	10.8	8.0	5.2	3.8	2.3
Drainex 200 M A	<b>523</b>				-	-	12.2	11.0	8.2	5.3	4.0	2.5
Drainex 201 M	<b>556</b>	Drainex 201 T	<b>556</b>									
Drainex 201 M A	<b>581</b>											
Drainex 202 M	<b>601</b>	Drainex 202 T	<b>601</b>									
Drainex 202 M A	<b>626</b>											

Single phase	Price	Three phase	Price	I/1'	50	100	200	300	400	500	600	650
				m <sup>3</sup> /h	3	6	12	18	24	30	36	39
Drainex 300 M	<b>593</b>	Drainex 300 T	<b>593</b>	H [m]	7.1	6.6	5.4	4.1	2.9	1.8	-	-
Drainex 300 M A	<b>617</b>				9.2	8.5	7.0	5.6	4.1	2.8	1.5	-
Drainex 301 M	<b>626</b>	Drainex 301 T	<b>626</b>		11.0	10.5	9.0	7.4	5.8	4.2	2.6	1.8
Drainex 301 M A	<b>651</b>											
Drainex 302 M	<b>671</b>	Drainex 302 T	<b>671</b>									
Drainex 302 M A	<b>696</b>											

Rapid pump removal and installation kit using single guide rail. (2" rail to be obtained by installer)			Price
Kit DR1 Drainex 200			<b>48.00</b>
Kit DR2 Drainex 300			<b>86.00</b>

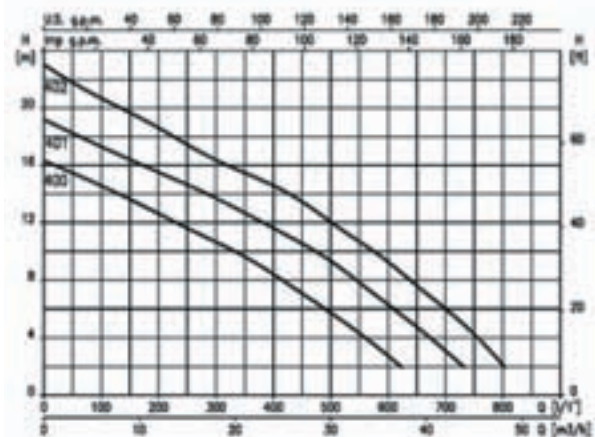
# Drainex 400/500/600

Submersible drainage  
pumps

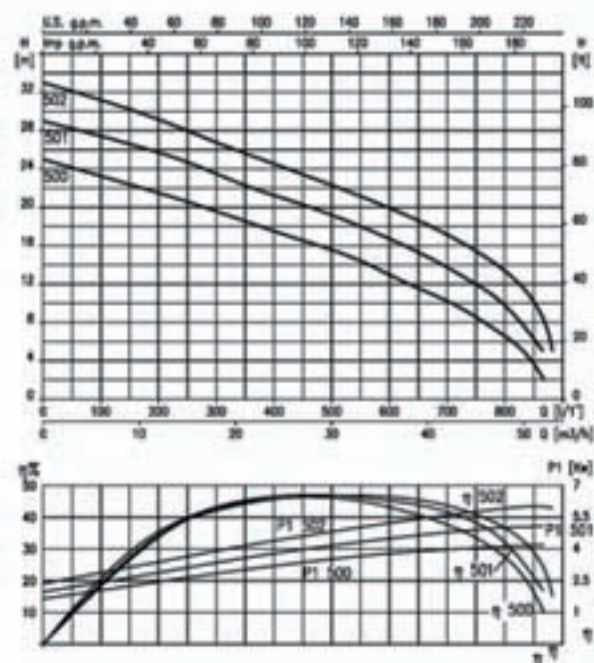


Available March/April  
2007

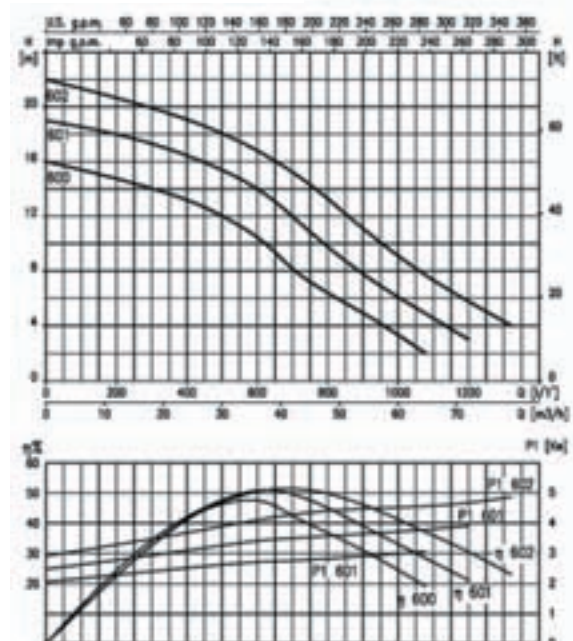
ISA DRENAGE SERIE DRAINEX 400/401/402



DRAINEX 500/501/502



DRAINEX 600/601/602





Submersible  
drainage pumps

# Drainex 400/500/600

Drainage

Model	Motor		A			P1 (kW)		Impeller mm
	kW	HP	1~	3~		1~	3~	
			230 V	230 V	400 V			
<b>Drainex 400</b>	2.6	3.5	-	-	4.1	-	1.9	115
<b>Drainex 401</b>	2.6	3.5	-	-	4.8	-	2.45	125
<b>Drainex 402</b>	2.6	3.5	-	-	5.6	-	3.1	136
<b>Drainex 500</b>	3.7	5	-	-	7.2	-	4.2	140
<b>Drainex 501</b>	3.7	5	-	-	8.3	-	5	150
<b>Drainex 502</b>	3.7	5	-	-	8.7	-	5.3	160
<b>Drainex 600</b>	3.7	5	-	-	5.7	-	3	125
<b>Drainex 601</b>	3.7	5	-	-	6.8	-	3.9	135
<b>Drainex 602</b>	3.7	5	-	-	8.1	-	4.8	145

## Applications

Sewage drainage and grey water with solids in suspension

## Materials

### Pump Body

Cast iron.

### Impeller (Vortex)

Cast iron.

### Mechanical Seal

Silicon Carbide/Silicon Carbide (wet end).  
Graphite/Alumina Oxide (motor).

## Motor

Class F insulation.  
IP 68 Protection.  
Continuous operation.

## Limitations

Maximum solids handling:  
400/500: 40mm.  
600: 65mm.  
Maximum temperature of liquids: 40°C.

## Equipment

400/500: Elbow 90° 2" + st/st foot  
Stationary adapter DN50/DN6  
600: Elbow 90° 2½" + st/st foot  
Stationary adapter DN50/DN65



**+** *Manufactured to Atex  
11<sub>2</sub>GEExD11 B T4 standard*

**+** *Standard and explosion-proof  
motor versions*

**+** *Automatic anchorage kit for  
fixed version*

**+** *Discharge connections  
400/500: DN 50  
600: DN 65/80*



# Drainbox 300

## Lifting stations for domestic applications



### Applications

Domestic: detached homes, cottages, rural properties, second homes, etc.  
Professional: Restaurants, small hotels, stores, workshops, small industries, etc.

### Innovation

**Drainbox** is the advanced, specific solution created by ESPA for the evacuation of water, from any source (foul water, faecal water, rainwater ...) in all environments; domestic or professional, rural or urban, with complicated or unfavourable drainage conditions.

**Drainbox** collects, stores, treats and drives the water to the drainage level, offering a series of truly outstanding advantages in terms of versatility, installation and performance.

**Drainbox** is based on simple and highly effective drainage technology that enables each pumping kit to be customised with the type of pump that is most suitable for the function and services to be provided.

**Drainbox** is supplied with an innovative tank, and a design that includes a series of novel technical advantages that add up to multiple services that are accumulated for the purpose of customising each installation. Customers can select the input and output pipes, ventilation pipes, emergency evacuation system, retention valve, etc.

Maximum temperature of liquid: 35°C.

		Size in mm	
		Outlets	
<b>Drainbox 300</b>			
<b>Vigilex 600 MA</b>	Complete with water level float switch	63	110
<b>VigilexSS 1100M</b>		63	110
<b>Drainex 201 M/201T</b>		63	110
<b>Draincor 180M</b>		63	110
<b>Draincor 200T</b>		63	110
<b>Drainex</b>	Coupling kit with guide rail	63	110
<b>Draincor</b>		63	110

### Legend

- M:** Single phase
- A:** Complete with floatswitch
- TP:** Vertical outlet
- LT:** Horizontal outlet
- D:** Grinder pump
- KE:** lifting removal kit.

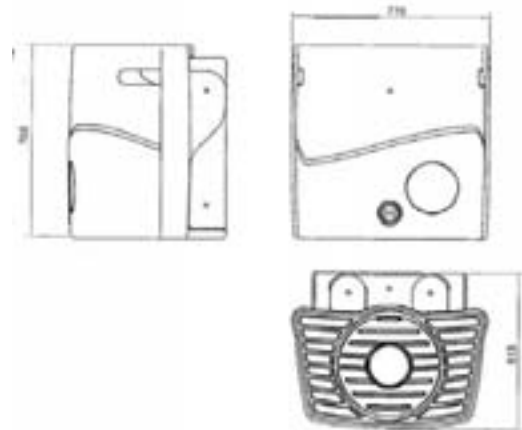
Single phase	Price	Three phase	Price	k/W	No. of pumps	Type	Tank capacity	Inlet in"
<b>Drainbox 300 800 M A TP</b>	<b>549</b>			0.5	1	Vigilex 600 M A	300 l	1¼"
<b>Drainbox 300 900 M A TP</b>	<b>714</b>			0.8	1	Vigilex SS 1100 M	300 l	1½"
<b>Drainbox 300 1200 M A TP</b>	<b>790</b>			1.1	1	Vigicor 150 M A	300 l	2"
<b>Drainbox 300 1400 M TP KE</b>	<b>1,261</b>	<b>Drainbox 300 1400 TP KE</b>	<b>1,350</b>	0.9	1	Drainex 201 M/T	300 l	1¼"
<b>Drainbox 300 1600 MD TP KE</b>	<b>1,542</b>			1.1	1	Draincor 180 M	300 l	2"
		<b>Drainbox 300 1800 D TP KE</b>	<b>1,528</b>	1.25	1	Draincor 200 T	300 l	2"

# Lifting stations for domestic applications

## Drainbox 600



Drainbox 600		Size in mm	
		Outlets	
VigilexSS 1100M	Complete with water level float switch	63	110
Vigicor 150M		63	110
Drainex 201 M/201T		63	110
Draincor 180M		63	110
Draincor 200T		63	110
Drainex	Coupling kit with guide rail	63	110
Draincor		63	110



Single phase	Price	Three phase	Price	k/W	No. of pumps	Type	Tank capacity	Inlet in"
Drainbox 600 900 M TP	<b>2,204</b>			0.8	2	Vigilex SS 1100 M	600 l	1½"
Drainbox 600 1200 M D TP	<b>2,407</b>			1.1	2	Vigicor 150 M	600 l	2"
Drainbox 600 1400 M TP KE	<b>2,650</b>	Drainbox 600 1400 TP KE	<b>2,610</b>	0.9	2	Drainex 201 M/T	600 l	1¼"
Drainbox 600 1600 M TP KE	<b>3,197</b>			1.1	2	Draincor 180 M	600 l	2"
		Drainbox 600 1800 D TP KE	<b>2,954</b>	1.25	2	Draincor 200 T	600 l	2"

# Clean

## Lifting stations for domestic applications



### Applications

Domestic lifting station for sewage and grey waters.

### Materials

The main components are made of plastic materials that are compatible with the use of sewage water. The grinding system is hardened stainless steel.

### Motor

Single phase power supply at 230 Volt 50Hz complete with a capacitor that is fully inspectionable, dry and easy to replace.

### Technical Specifications

**Clean WG** : elevation station for sewage waters. includes direct connection to the toilet, DN100 and three inlets for grey water DN40 or 32.

**Clean WGS** : as Clean WG with overflow

**Clean G** : three inlets for grey water

**Clean GS** : as Clean G, with overflow

### Dimensions

502 x 170 x 265 mm.

### Maintenance

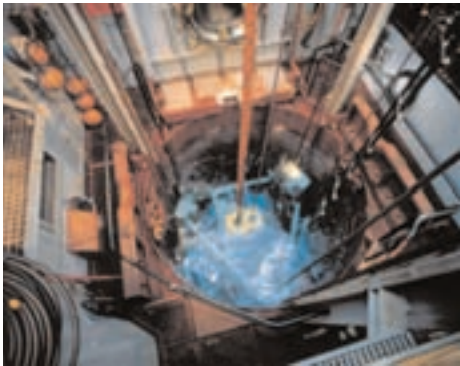
The grinder pump can be removed from the system without being in contact with the sewage water.

**See illustration below.**



Model	Price
<b>Clean WG</b>	<b>347</b>
<b>Clean WGS</b>	<b>382</b>
<b>Clean G</b>	<b>352</b>
<b>Clean GS</b>	<b>388</b>





Submersible grinder pumps

# Draincor

Drainage



## Applications

Grinder pump for sewage water with filaments.

## Materials

### Pump Body

Cast iron.

### Impeller

Cast iron.

### Grinder System

Steel F-520.

### Detachable Pump Base

Stainless steel AISI 304.

### Mechanical Seal

Silicon Carbide and graphite.  
O'rings in NBR.

## Motor

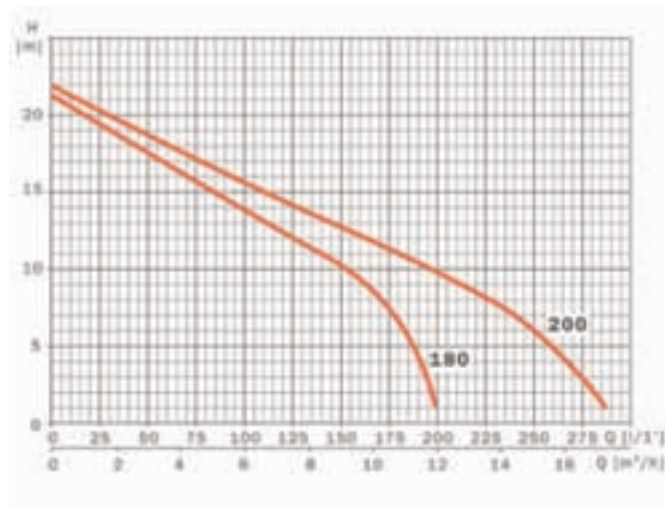
Class F insulation.  
IP 68 Protection.  
Continuous operation.  
Maximum temperature of liquid: 40°C.

## Equipment

1½" BSP Female threaded discharge elbow.  
Single phase supplied with capacitor box.  
**Draincor M A:** Complete with float switch.

## Options

Guide rail kit.



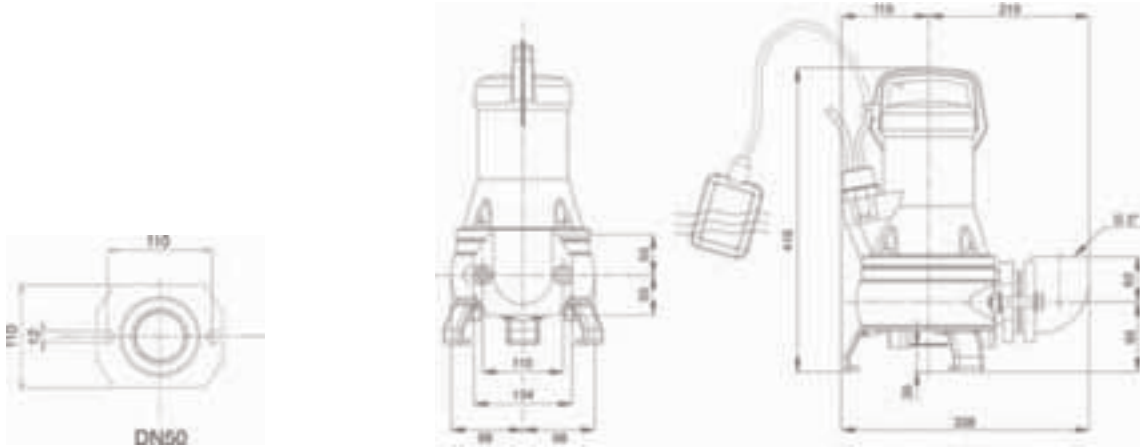
MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~		1~	3~			
		230 V	400 V					
<b>Draincor 180</b>	7.8	-	-	1.7	-	1.1	1.5	16
<b>Draincor 200</b>	-	5.2	3	-	1.8	1.25	1.7	-

Pumps with 230/400V motors on request

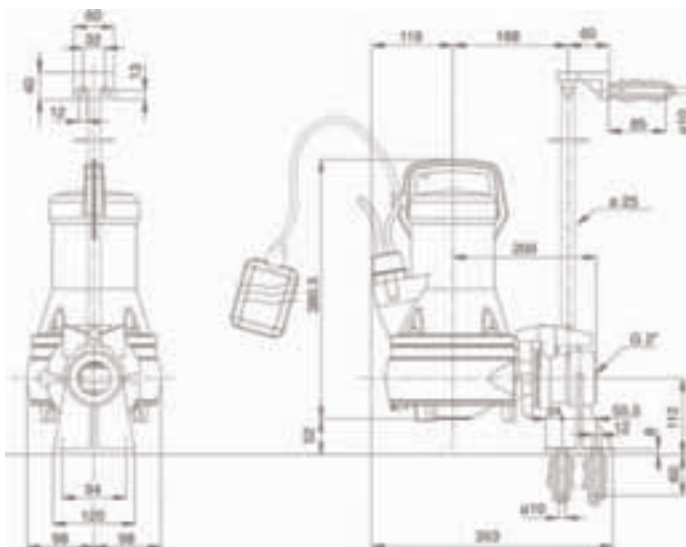


# Draincor 180/200

Submersible  
grinder pumps



Single phase	Price	Three phase	Price	I/1'	25	50	100	150	175	200	250	290
				m <sup>3</sup> /h	1.5	3	6.0	9.0	10.5	12.0	15	17.4
Draincor 180 M	<b>806</b>			H [m]	18.0	16.7	13.7	10.0	7.0	-	-	-
Draincor 180 M A	<b>830</b>				21.0	19.7	17.0	14.1	12.6	11.0	7.3	2.5
		Draincor 200 T	<b>787</b>									



Rapid pump removal and installation kit using single guide rail. (2" rail to be obtained by installer)	Kit DR1 Draincor	Price
		<b>48.00</b>





Heavy duty  
submersible  
drainage pumps

# Pompes Guinard Batiment

Drainage

Espa are able to supply drainage pumps specifically designed for lifting water from civilian drains into a sewerage lifting station or into a purification and treatment plant. For many faceted needs of this special field, in addition to single channel non clogging impeller pumps, we can also supply vortex pumps with open setback impellers. Both series achieve the highest level of reliability. while the single impeller offers better efficiency, the vortex impeller is better able to move liquids with high concentrates of dissolved gas. Apart from this there are a number of other advantages/disadvantages to be taken into account and which will also determine the decision of one type of impeller to the other in accordance with the liquid to be pumped.



Espa DCT range of submersible sewage pumps with shredders are able to raise water containing solid matter from housing estates, detached houses, camp sites , hotels, filling stations, supermarkets, farms, food preserving industries, paper mills and whenever solids in suspension must be shredded.

All pumps in this series comply with the pertinent European Directives.



**For full specification of the above pumps, or for information regarding other pumps within this range please contact our sales team.**

# Per 50/100 (PC 50)

Peripheral  
pump



## Applications

Domestic water supply, pressurisation,

## Materials

### Pump Body

Bronze.

### Impeller

Brass.

### Motor Shaft

Stainless steel. AISI 416.

### Mechanical Seal

Graphite and ceramic.

## Motor

Class F insulation.

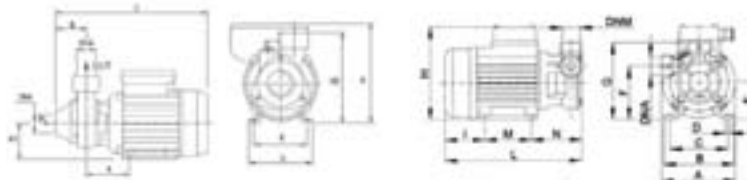
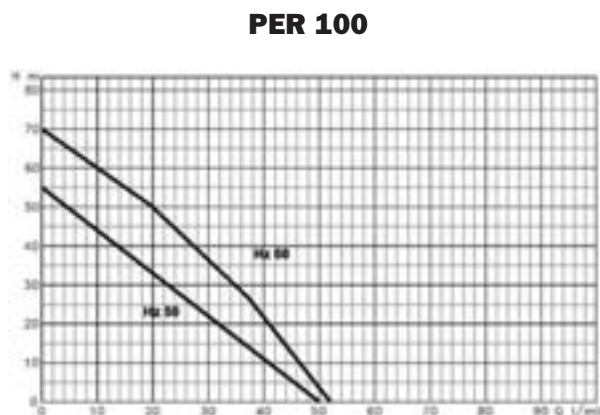
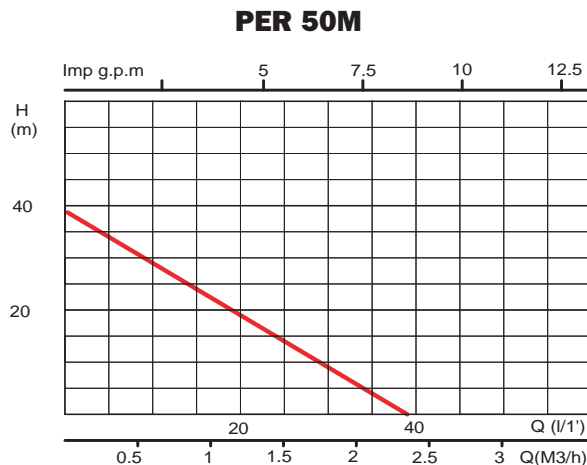
IP 44 Protection.

Continuous operation.

Single phase with built-in thermal protection.

## Limitations

Maximum temperature of liquid: 60°C.



Per 50

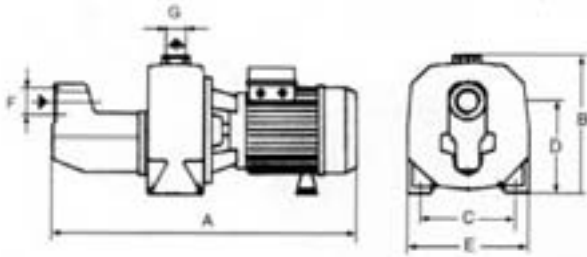
Per 100

	A	B	C	D	E	F	G	H	I	L	M	N	Dna	DNm	kg
<b>Per 50M</b>	67	20	265	125	100	155	63	143	265	145	165		1"	1"	5.7
<b>Per 100M</b>	155	135	112	12	68	107	148	169	75	273	90	108	1"	1"	9.5

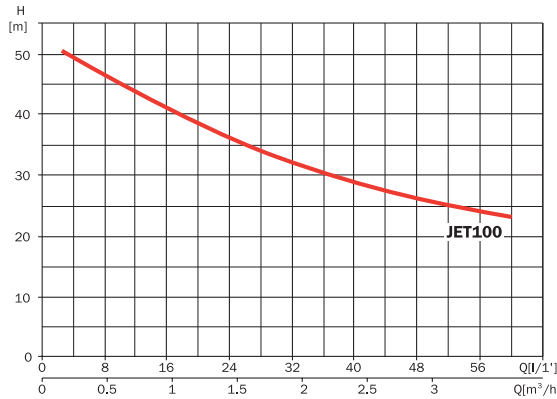
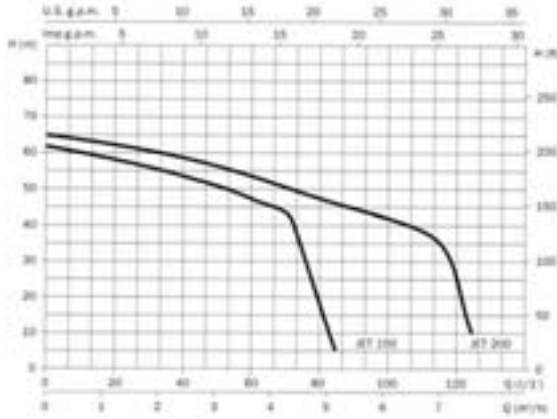
Single phase	Price	l/1'	5	10	20	30	40	A			P1 (kW)		kW	HP	µF	
								1~	3~	230 V	230 V	400 V				1~
<b>Per 50 M (PC 50)</b>	<b>152</b>	m³/h	0.3	0.6	1.2	1.8	2.9	2.1				0.49		0.37	0.5	12
<b>Per 100M (per 80)</b>	<b>195</b>	H [m]	50	44	32	21	10	3.8				1.8		1.0	1.5	18



# Self priming jet pump **Jet**

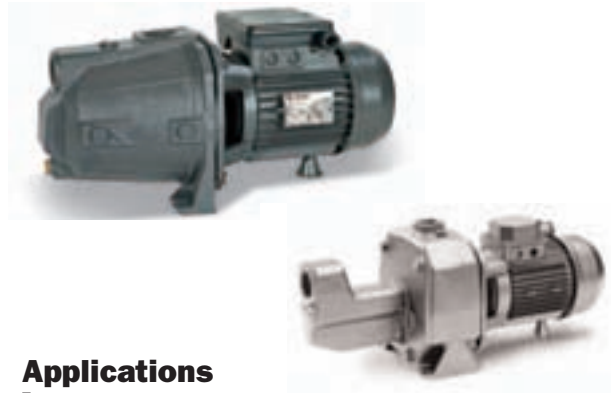


	A	B	C	D	E	G	H	DNa	DNm	Kg
Jet 100	140	180	200	152	415	122	278	1"	1"	16
Jet 200/150	177	220	250	162	560	-	-	1 1/2"	1"	28



MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V	3~ 400 V	1~	3~			
Jet 100	5.3	3.8	2.2	1.1	1.1	0.75	1	18
Jet 150	8.8	5.7	3.3	1.74	1.67	1.1	1.5	31.5
Jet 200	11.8	7.2	4.2	2.31	2.25	1.5	2.0	35

Single phase	Price	Three phase	Price	l/1'	m³/h									
					10	20	30	40	50	60	75	85	115	125
Jet 100 M	158	Jet 100 T	158	0.6	1.2	1.8	2.4	3.0	3.6	4.5	5.1	6.9	7.5	
Jet 150 M	320	Jet 150 T	320	45	39	33.5	29	26	23	-	-	-	-	
Jet 200 M	325	Jet 200 T	325	-	58	56	54	50	45	43	5	-	-	
				H [m]	-	62	60	58	56	54	49	46	37	10



## Applications

To supply clean water in domestic applications, irrigation, hydropneumatic pressure sets, and for all applications requiring a self-priming pump.

## Materials

### Pump Body and pump motor support

Cast iron.

### Impeller

Brass or Noryl (glass loaded polymer).

### Diffuser and Venturi system

Noryl reinforced with fiberglass

### Motor Shaft

Stainless steel. AISI 416.

### Mechanical Seal

Graphite and ceramic.

## Motor

Class F insulation.

IP 44 Protection.

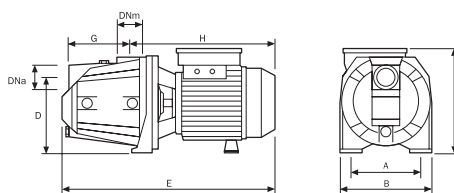
Continuous operation.

Single phase with built-in thermal protection.

## Limitations

Maximum suction lift: 9m.

Maximum temperature of liquid: 35°C.



Surface

# Alfa

## Polymer bodied self priming pump



### Applications

Domestic water supply, irrigation water transfer, pressurisation and self priming to 9m.

### Materials

#### Pump body

Polyamide (glass loaded polymer).

#### Impeller

Noryl (glass loaded polymer).

**Alfa 1250** : Stainless steel. AISI 304

#### Diffuser

Noryl (glass loaded polymer).

#### Motor shaft

Stainless steel. AISI 420.

#### Mechanical seal

Graphite and ceramic.

### Motor

Insulation class F.

Protection IP 44.

Continuous operation.

Single phase with built-in thermal protection.

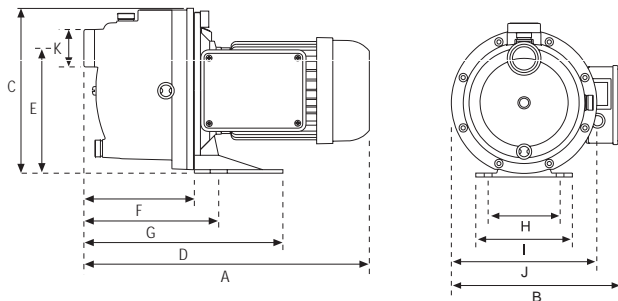
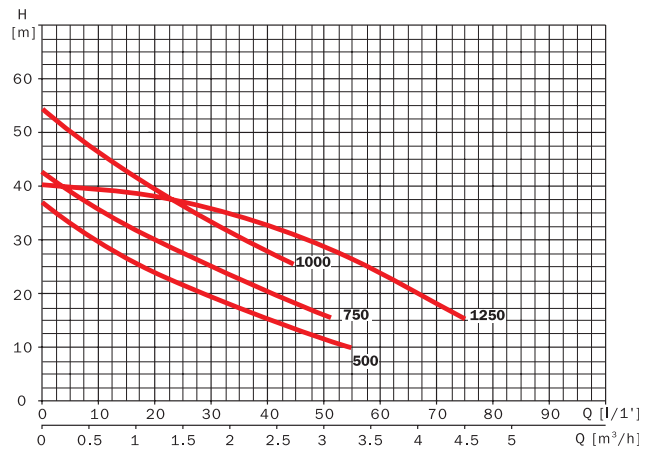
### Limitations

Maximum suction lift: 9m.

Maximum temperature of liquid: 35°C.

### Equipment

**Version SM:** Supplied with carry handle, on/off switch, and 2m of power cable (Available on request).



	A	B	C	D	E	F	G	H	I	J	K	DNa	DNm	Kg
<b>Alfa 500</b>	336	211,2	229,2	234	147	130	158,5	94	126	186	195	1"	1"	6
<b>Alfa 750</b>	336	211,5	229,2	234	147	130	158,5	94	126	186	195	1"	1"	6.8
<b>Alfa 1000</b>	358,5	220,5	229,2	234	147	130	158,5	94	126	186	195	1"	1"	9
<b>Alfa 1250</b>	385,5	222,5	229,2	261	155	157	185,5	94	126	190	195	1"	1"	10.3

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
<b>Alfa 500</b>	2.8	-	-	0.6	-	0.37	0.5	12
<b>Alfa 750</b>	3.4	-	-	0.8	-	0.5	0.75	12
<b>Alfa 1000</b>	4.8	-	-	1	-	0.75	1	16
<b>Alfa 1250</b>	4.4	-	-	1	-	0.5	0.75	16

Single phase	Price	Three phase	Price	I/1'	5	15	25	35	40	50	60	75
				m³/h	0.3	0.9	1.5	2.1	2.4	3	3.6	4.5
<b>Alfa 500 M</b>	<b>120</b>	N/A	<b>N/A</b>	H [m]	33	26	22	18	17	13	-	-
<b>Alfa 750 M</b>	<b>126</b>	N/A	<b>N/A</b>		37	32	27	23	21	17	-	-
<b>Alfa 1000 M</b>	<b>131</b>	N/A	<b>N/A</b>		47	40	34	29	27	-	-	-
<b>Alfa 1250 M</b>	<b>182</b>	N/A	<b>N/A</b>		40	38	36	35	33	28	23	15

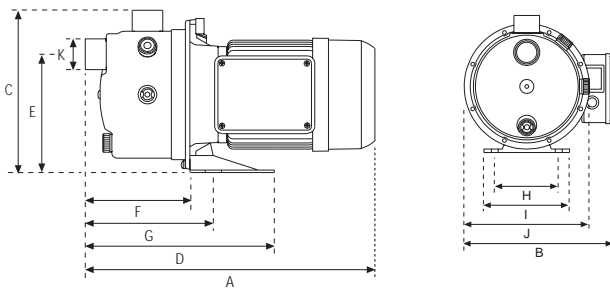
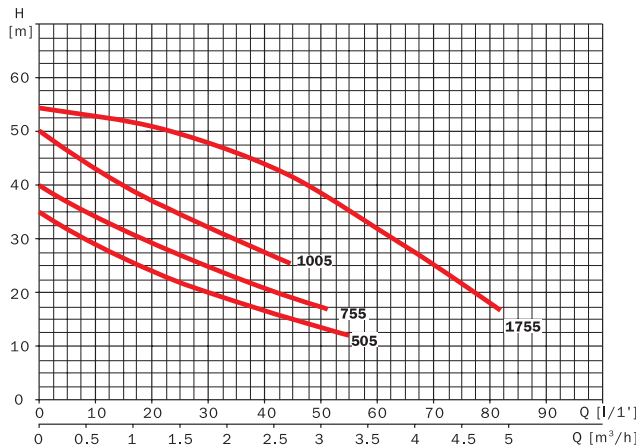




# Stainless steel self priming pumps | Delta



Surface



	A	B	C	D	E	F	G	H	I	J	K	DNa	DNm	Kg
Delta 505	336	210,5	229	234	146,5	129,5	158,5	94	126	184	195	1"	1"	6.5
Delta 755	336	210,5	229	234	146,5	129,5	158,5	94	126	184	195	1"	1"	7.2
Delta 1005	358,5	219,5	229	234	146,5	129,5	158,5	94	126	184	195	1"	1"	9.5
Delta 1755	409,5	219,5	229	285	145	181	209,5	94	126	184	195	1"	1"	11.5

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Delta 505	2.8	2.2	1.2	0.6	0.6	0.37	0.5	12
Delta 755	3.4	2.4	1.3	0.8	0.8	0.5	0.75	12
Delta 1005	4.8	3.3	1.9	1	1.0	0.75	1	16
Delta 1755	5.5	-	-	1.2	-	0.75	1	16

Pumps with 230/400V motors on request

Single phase	Price	Three phase	Price	H [m]									
				l/1'	5	15	25	35	40	50	60	75	
				m³/h	0.3	0.9	1.5	2.1	2.4	3	3.6	4.5	
Delta 505 M	142	Delta 505 T	142	H [m]	33	26	22	18	17	13	-	-	
Delta 755 M	152	Delta 755 T	152		37	32	27	23	21	17	-	-	
Delta 1005 M	156	Delta 1005 T	156		47	40	34	29	27	-	-	-	
Delta 1755 M	240				54	52	49	46	43	37	31	20	

## Applications

Domestic water supply, irrigation water transfer, pressurisation and self priming to 9m.

## Materials

### Pump Body

Stainless steel AISI 304.

### Impellers

Glass loaded Noryl.

**Delta 1755:** Stainless steel. AISI 304

### Diffuser

Glass loaded Noryl.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and ceramic.

## Motor

Class F insulation.

IP 44 Protection.

Continuous operation.

Single phase with built-in thermal protection.

## Limitations

Maximum suction lift: 9m.

Maximum temperature of liquid: 35°C.

## Equipment

**Version SM:** Supplied with carry handle on/off switch, and 2m of power cable (Available on request).





# Aspri

Self priming horizontal multistage pumps.



**+ Special self priming device**  
**9m suction**

**+ Quiet running**

## Applications

Domestic water supply, irrigation, pressurisation and water transfer.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Suction and discharge ports

Cast iron

### Impeller

Stainless steel. AISI 304.

### Diffusers

Glass loaded Noryl.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.

IP 44 Protection.

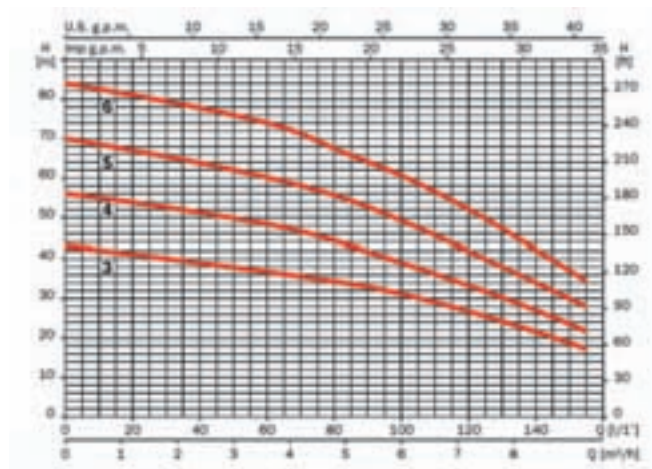
Continuous operation.

Single phase with built-in thermal protection.

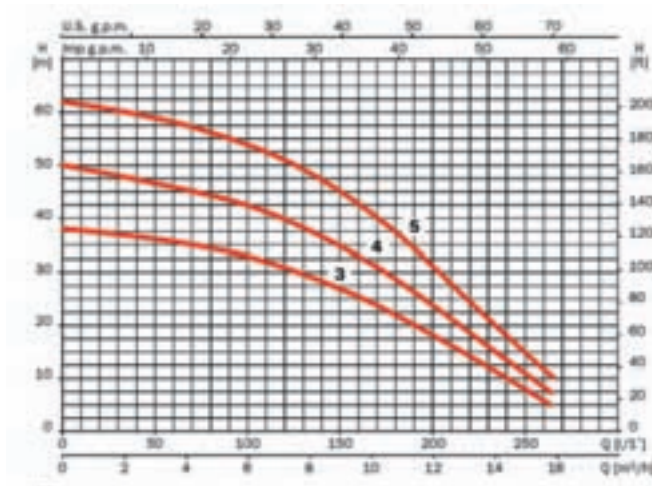
## Limitations

Maximum suction lift: 9 m.

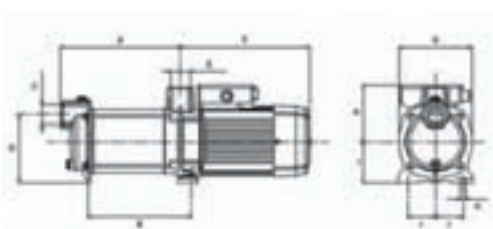
Maximum temperature of liquid: 35°C.



**35N**



**45N**



	A	B	C	D	E	F	G	H	I	J	K	Kg
<b>Aspri 35 N3</b>	221.1	187.3	1 1/4"	147	1 1/4"	281.5	158	125.3	90	60	12	18.5/18.2
<b>Aspri 35 N4</b>	246.6	211.8	1 1/4"	147	1 1/4"	281.5	158	125.3	90	60	12	20.5/18.6
<b>Aspri 35 N5</b>	271.1	236.3	1 1/4"	147	1 1/4"	281.5	158	125.3	90	60	12	23.5/20.6
<b>Aspri 35 N6</b>	295.6	260.8	1 1/4"	147	1 1/4"	281.5	158	125.3	90	60	12	23.7

	A	B	C	D	E	F	G	H	I	J	K	Kg
<b>Aspri 45 N3</b>	245.9	211.6	1 1/4"	152	1 1/4"	281.5	158	125.3	90	60	12	22.6/18.6
<b>Aspri 45 N4</b>	276.6	242.3	1 1/4"	152	1 1/4"	281.5	158	125.3	90	60	12	23.7/21.2
<b>Aspri 45 N5</b>	307.3	273	1 1/4"	152	1 1/4"	281.5	158	125.3	90	60	12	25.3

# Self priming horizontal multistage pumps

# Aspri



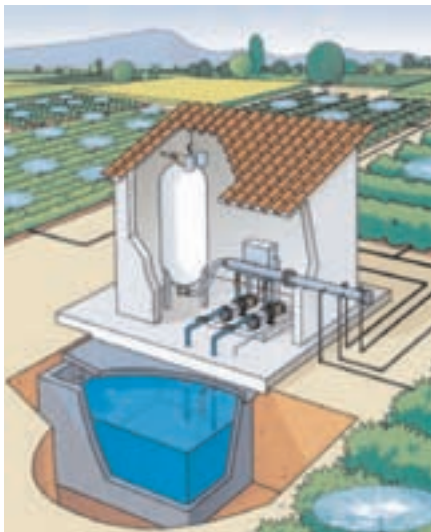
Impellers in stainless steel



Special self priming device



Surface



230 V 50 HZ	230/400 V 50 HZ	A			P1 (kW)		kW	HP	μF
		1~ 230 V	3~		1~	3~			
			230 V	400 V					
Aspri 35 N 3M	Aspri35 N 3	6.7	4.5	2.6	1.5	1.4	0.8	1	25
Aspri 35 N 4M	Aspri35 N 4	8.4	5.3	3.1	1.8	1.8	1.1	1.5	25
Aspri 35 N 5M	Aspri35 N 5	10.2	6.9	4	2.3	2.2	1.5	2	30
	Aspri35 N 6	-	8.3	4.8	-	2.7	2.2	3	-

230 V 50 HZ	230/400 V 50 HZ	A			P1 (kW)		kW	HP	μF
		1~ 230 V	3~		1~	3~			
			230 V	400 V					
Aspri 45 N 3M	Aspri45 N 3	7.9	5.2	3	1.8	1.7	1.1	1.5	25
Aspri 45 N 4M	Aspri45 N 4	10	6.9	4	2.2	2.2	1.5	2	30
	Aspri45 N 5	-	8.6	5	-	2.8	2	3	-

## + Stainless steel impellers

Single phase	Price	Three phase	Price	L/1'	20	40	60	80	100	120	140	150
				m³/h	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.0
Aspri 35 3 MN	295	Aspri 35 3 N	295	H [m]	41	39	36	34	31	27	22	18
Aspri 35 4 MN	308	Aspri 35 4 N	308		54	51	48	44	39	33	27	23
Aspri 35 5 MN	338	Aspri 35 5 N	338		68	64	60	55	49	41	34	30
		Aspri 35 6 N	340		81	78	74	67	60	52	42	37

## + High performance

Single phase	Price	Three phase	Price	L/1'	25	50	75	100	125	150	200	250
				m³/h	1.5	3.0	4.5	6.0	7.5	9.0	12	15
Aspri 45 3 MN	580	Aspri 45 3 N	580	H [m]	37	36	35	33	30	27	18	8
Aspri 45 4 MN	640	Aspri 45 4 N	640		48	47	45	42	39	36	24	11
		Aspri 45 5 N	680		61	59	56	54	50	45	31	15

### Applications

Clean water domestic applications, water transfer, pressure boosting, irrigation and many other applications.

### Features

#### Tecno

Quiet running stainless steel multistage wet end, suitable for domestic applications, irrigation and booster sets.

#### Tecnoself

As Tecno, with the added advantage of being able to self prime and lift a maximum of 9 meters.



### Materials

#### Pump Body

Stainless steel. AISI 304.

#### Impellers

Stainless steel. AISI 304.

#### Diffusers

Glass loaded Noryl.

#### Motor Shaft

Stainless steel. AISI 420.

#### Mechanical Seal

Graphite and stéatite.

### Motor

Class F insulation.

IP 44 Protection.

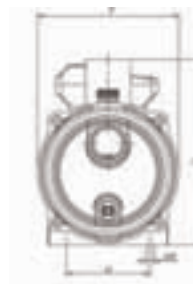
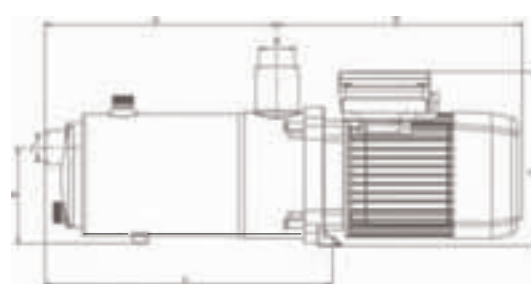
Continuous operation.

Built-in thermal protection.

### Limitations

Maximum temperature of liquid: 35°C.

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Tecno 05 2	1.2			0.25		0.11	0.15	6
Tecno 05 3	1.6			0.35		0.19	0.25	6
Tecno 05 4	2			0.45		0.19	0.25	6
Tecno 15 2	2	1.9	1.1	0.45	0.5	0.24	0.33	12
Tecno 15 3	2.8	2.1	1.2	0.6	0.6	0.37	0.5	12
Tecno 15 4	3.5	2.9	1.7	0.8	0.8	0.5	0.75	12
Tecno 15 5	4.1	3.1	1.8	1.0	1.0	0.66	0.9	12
Tecno 25 2	4.3	2.9	1.7	0.9	0.85	0.55	0.75	16
Tecno 25 3	5.5	3.5	2	1.2	1.0	0.75	1.0	16
Tecno 25 4	6.8	4.3	2.5	1.5	1.4	0.92	1.25	16
Tecno 25 5	8.2	5.2	3	1.8	1.7	1.1	1.5	25



MODEL	DIMENSIONS AND WEIGHTS											
	A	B	C	D	E	F	G	H	I	J	K	KG
Tecno 05 2	80	136	157.5	94	176.3	174	123.8	225	9	1"	1"	5.2
Tecno 05 3	80	136	157.5	94	194.2	174	141.7	225	9	1"	1"	6.2
Tecno 05 4	80	136	157.5	94	211.5	174	159	225	9	1"	1"	6.3
Tecno 15 2	174.1	107.5	234.7	181.5	232.5	196.3	148.5	88	9	1"	1"	6.5
Tecno 15 3	197.4	107.5	258	181.5	232.5	196.3	148.5	88	9	1"	1"	7.2
Tecno 15 4	220.7	107.5	281.3	181.5	232.5	196.3	148.5	88	9	1"	1"	9.5
Tecno 15 5	244	107.5	304.6	181.5	232.5	196.3	148.5	88	9	1"	1"	11
Tecno 25 2	183.4	107.5	244.9	267	190.5	148.5	196.3	88	9	1"	1"	6.5
Tecno 25 3	210	107.5	271.5	267	190.5	148.5	196.3	88	9	1"	1"	7.2
Tecno 25 4	236.6	107.5	298.1	267	190.5	148.5	196.3	88	9	1"	1"	9.5
Tecno 25 5	263.2	107.5	324.7	288.5	190.5	148.5	196.3	88	9	1"	1"	11

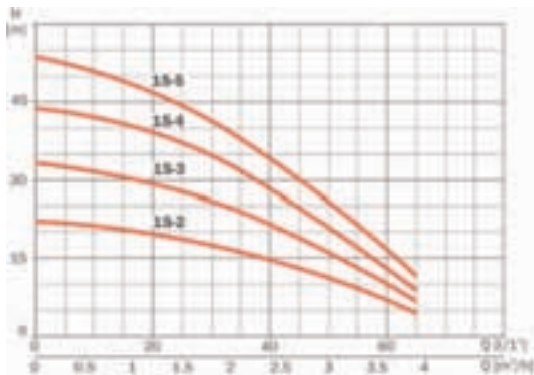
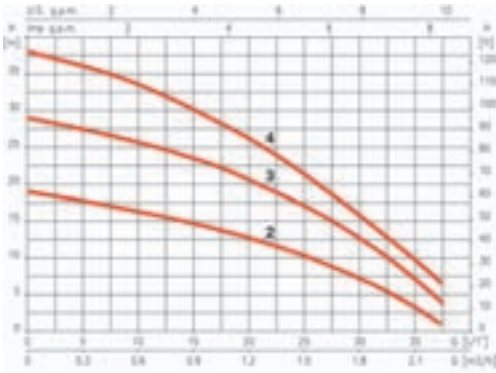


# Stainless steel horizontal multistage pumps

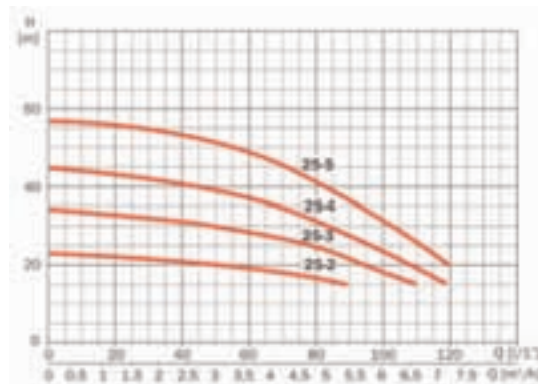
# Tecno



Surface



**+** *Stainless steel impellers*



Single phase	Price	Three phase N/A
Tecno 05 2M	<b>133</b>	
Tecno 05 3M	<b>142</b>	
Tecno 05 4M	<b>150</b>	

**+** *WRAS Listing Applied 2007*

**+** *Special self-priming device, 9m suction on Tecnoself*

Single phase	Price	Three phase	Price
Tecno 15 2M	<b>165</b>	Tecno 15 2T	<b>165</b>
Tecno 15 3M	<b>176</b>	Tecno 15 3T	<b>176</b>
Tecno 15 4M	<b>187</b>	Tecno 15 4T	<b>187</b>
Tecno 15 5M	<b>200</b>	Tecno 15 5T	<b>200</b>

Single phase	Price	Three phase	Price
Tecno 25 2M	<b>200</b>	Tecno 25 2T	<b>200</b>
Tecno 25 3M	<b>217</b>	Tecno 25 3T	<b>217</b>
Tecno 25 4M	<b>232</b>	Tecno 25 4T	<b>232</b>
Tecno 25 5M	<b>275</b>	Tecno 25 5T	<b>275</b>

Single phase	Price	Three phase	Price
Tecnoself 15 2M	<b>179</b>	Tecnoself 15 2T	<b>179</b>
Tecnoself 15 3M	<b>191</b>	Tecnoself 15 3T	<b>191</b>
Tecnoself 15 4M	<b>201</b>	Tecnoself 15 4T	<b>201</b>
Tecnoself 15 5M	<b>215</b>	Tecnoself 15 5T	<b>215</b>

Single phase	Price	Three phase	Price
Tecnoself 25 2M	<b>217</b>	Tecnoself 25 2T	<b>217</b>
Tecnoself 25 3M	<b>236</b>	Tecnoself 25 3T	<b>236</b>
Tecnoself 25 4M	<b>249</b>	Tecnoself 25 4T	<b>249</b>
Tecnoself 25 5M	<b>295</b>	Tecnoself 25 5T	<b>295</b>



# Tecnotimer

Programmable stainless steel pumps for irrigation



## Applications

Supply of water at pressure and programmed sprinklers irrigation per areas.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Impellers

Stainless steel. AISI 304.

### Diffusers

Glass loaded Noryl.

### Motor Shaft

Stainless steel. AISI 304

### Mechanical Seal

Graphite and steatite.

## Motor

Class F insulation.  
IP 55 Protection.  
Continuous operation.  
Built-in thermal protection.

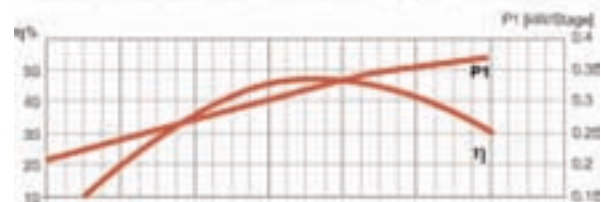
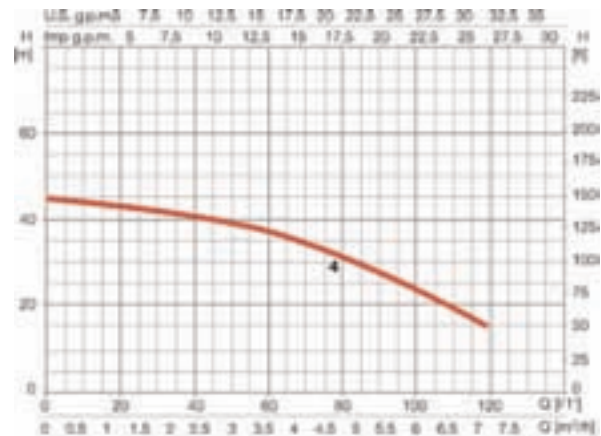
## Limitations

Maximum suction lift: 9 m.  
Maximum temperature of liquid: 35°C.

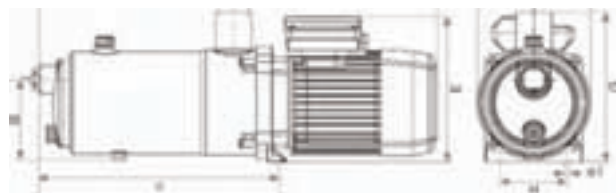
**+** *Dry running protection*

**+** *Self priming device  
9m Suction*

**+** *4 outlets for programmed  
irrigation*



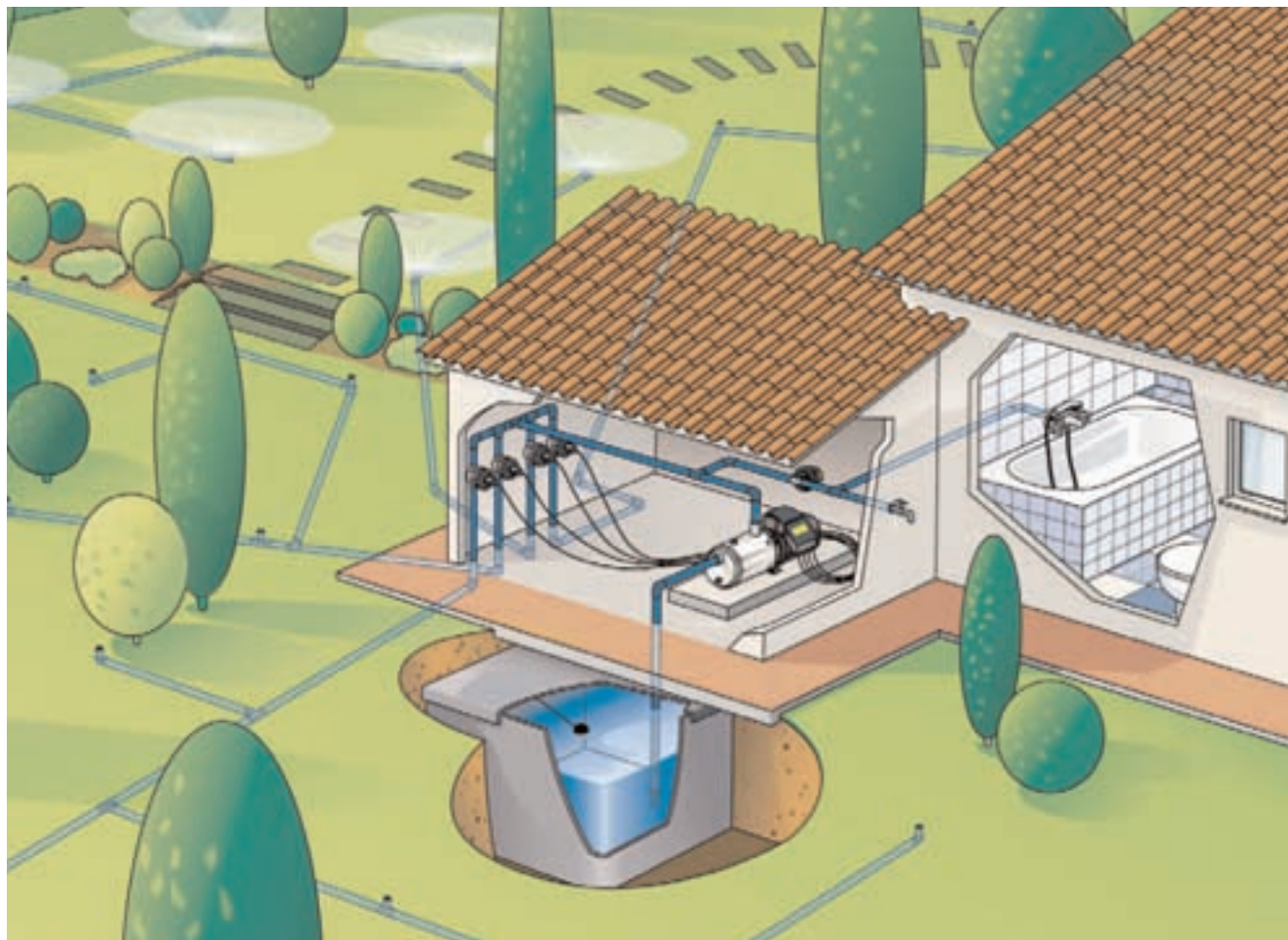
	A	B	C	D	E	F	G	H	I	J	K	Kg
Tecnotimer 25 4 M	236.6	107.5	298.1	267	190.5	148.5	196.3	88	9	1"	1 1/4"	12.7



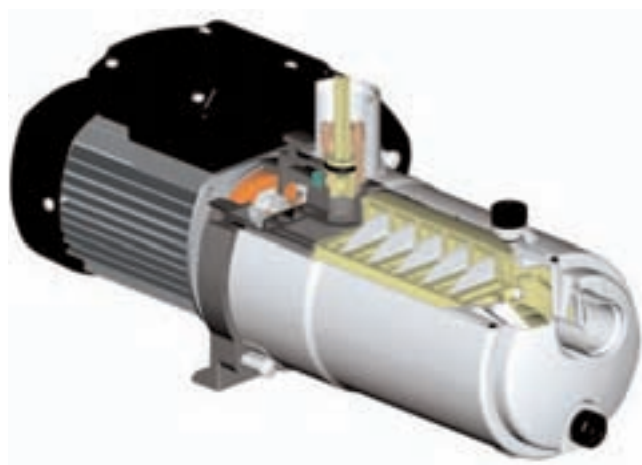


Programmable stainless steel pumps for irrigation

# Tecnotimer



Surface



Single phase	Price	230V 50 Hz	kW	HP	l/min m³/h	15 0.9	30 1.8	45 2.7	60 3.6	75 4.5	90 5.4	105 6.3	120 7.2
<b>Tecnotimer 25 4M</b>	<b>356</b>	1.5	0.92	1.25		44	42	40	37	33	28	22	15

# Matrix

Completely stainless steel horizontal multistage pumps



**+** *Stainless steel impeller and casing in AISI 304*

**+** *WRAS Listing Applied 2007*

## Applications

Clean water domestic applications, water transfer, pressure boosting, irrigation and many other applications.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Suction and discharge ports

Stainless steel. AISI 304.

### Impellers

Stainless steel. AISI 304.

### Diffusers

Stainless steel. AISI 304.

### Motor Shaft

Stainless steel. AISI 304

### Mechanical Seal

Ceramic/carbon/EPDM.

## Motor

Class F insulation.

IP 55 Protection.

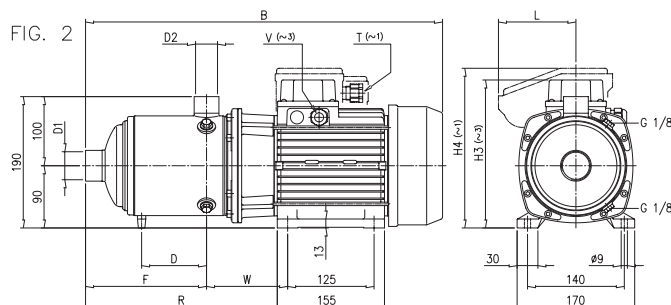
Continuous operation.

Single phase with built-in thermal protection.

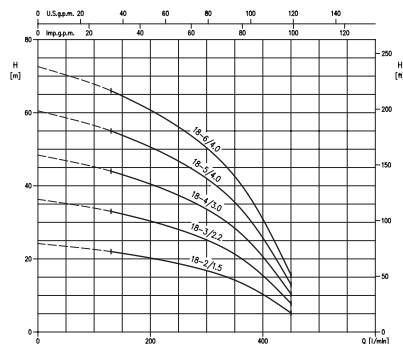
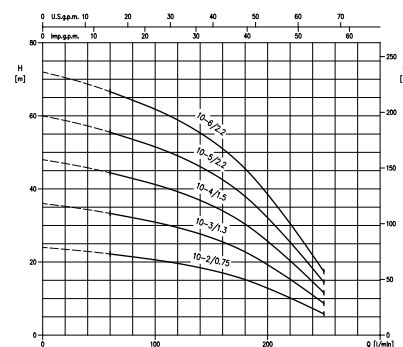
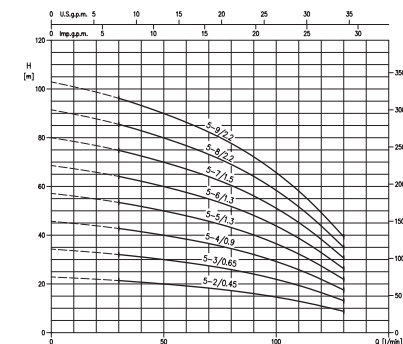
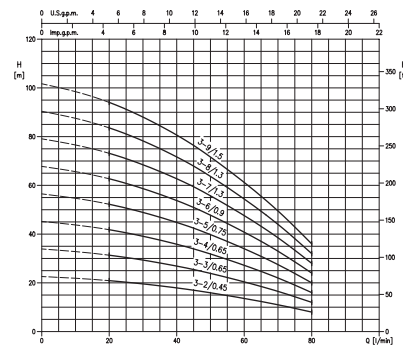
## Limitations

Maximum temperature of liquid: 110°C.

Maximum chlorine content: 500ppm.

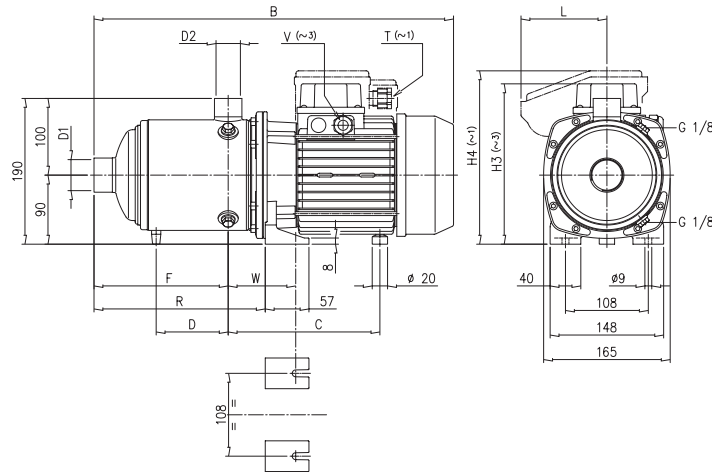


Matrix 3, 5, 10 and 18 Fig 2



# Completely stainless steel horizontal multistage pumps

# Matrix



Matrix 3, 5, 10 and 18  
Fig 2

Surface

Single phase	Price	Three phase	Price	Kw	HP	D1	D2	B	C	D	F	H3	H4	L	R
Matrix 3-2/0.45M	250	Matrix 3-2/0.45T	250	0.45	0.60	1"	1"	360	171		103	192	200	84	151.5
Matrix 3-3/0.65M	260	Matrix 3-3/0.65T	260	0.65	0.90	1"	1"	360	171		103	192	200	84	151.5
Matrix 3-4/0.65M	279	Matrix 3-4/0.65T	279	0.65	0.90	1"	1"	384	171		127	192	200	84	175.5
Matrix 3-5/0.75M	303	Matrix 3-5/0.75T	303	0.75	1.00	1"	1"	408	171		151	192	200	84	199.5
Matrix 3-6/0.9M	332	Matrix 3-6/0.9T	332	0.90	1.20	1"	1"	432	171		175	192	219	106	223.5
Matrix 3-7/1.3M	428	Matrix 3-7/1.3T	428	1.30	1.80	1"	1"	493	199	198	199	209	226	112	247.5
Matrix 3-8/1.3M	447	Matrix 3-8/1.3T	447	1.30	1.80	1"	1"	517	223	198	223	209	226	112	271.5
Matrix 3-9/1.5M	476	Matrix 3-9/1.5T	476	1.50	2.00	1"	1"	541	247	198	247	209	226	112	295.5

Single phase	Price	Three phase	Price	Kw	HP	D1	D2	B	C	D	F	H3	H4	L	R
Matrix 5-2/0.45M	255	Matrix 5-2/0.45T	255	0.45	0.60	1 1/4"	1"	360	171		103	192	200	84	151.5
Matrix 5-3/0.65M	264	Matrix 5-3/0.65T	264	0.65	0.90	1 1/4"	1"	360	171		103	192	200	84	151.5
Matrix 5-4/0.9M	293	Matrix 5-4/0.9T	293	0.90	1.20	1 1/4"	1"	384	171		127	192	219	106	175.5
Matrix 5-5/1.3M	351	Matrix 5-5/1.3T	351	1.30	1.80	1 1/4"	1"	445	198		151	209	226	112	199.5
Matrix 5-6/1.3M	384	Matrix 5-6/1.3T	384	1.30	1.80	1 1/4"	1"	469	198		175	209	226	112	223.5
Matrix 5-7/1.5M	437	Matrix 5-7/1.5T	437	1.50	2.00	1 1/4"	1"	493	198	118	199	209	226	112	247.5
Matrix 5-8/2.2M	509	Matrix 5-8/2.2T	509	2.20	3.00	1 1/4"	1"	530	198	142	223	209	231	112	271.5
Matrix 5-9/2.2M	528	Matrix 5-9/2.2T	528	2.20	3.00	1 1/4"	1"	554	198	166	247	209	231	112	295.5

Single phase	Price	Three phase	Price	Kw	HP	D1	D2	B	C	D	F	H3	H4	L	R
Matrix 10-2/0.75M	283	Matrix 10-2/0.75T	283	0.75	1.00	1 1/2"	1 1/4"	379	175		118	192	200	84	170.5
Matrix 10-3/1.3M	332	Matrix 10-3/1.3T	332	1.30	1.80	1 1/2"	1 1/4"	416	202		118	209	226	112	170.5
Matrix 10-4/1.5M	365	Matrix 10-4/1.5T	365	1.50	2.00	1 1/2"	1 1/4"	446	202		148	209	226	112	200.5
Matrix 10-5/2.2M	442	Matrix 10-5/2.2T	442	2.20	3.00	1 1/2"	1 1/4"	489	202		178	209	231	112	230.5
Matrix 10-6/2.2M	509	Matrix 10-6/2.2T	509	2.20	3.00	1 1/2"	1 1/4"	519	202	126	208	209	231	112	260.5

Single phase	Price	Three phase	Price	Kw	HP	D1	D2	B	C	D	F	H3	H4	L	R
Matrix 18-2/1.3M	394	Matrix 18-2/1.3T	394	1.30	1.80	2"	1 1/2"	442	205		141	209	226	112	196.5
Matrix 18-3/2.2M	461	Matrix 18-3/2.2T	461	2.20	3.00	2"	1 1/2"	490	205		141	209	231	112	205.5
		Matrix 18-4/1.3T	509	3.00	4.00	2"	1 1/2"	527			178.5	214			288
		Matrix 18-5/3.8T	672	3.80	5.20	2"	1 1/2"	600		130.5	216	214			325.5
		Matrix 18-6/3.8T	720	3.80	5.20	2"	1 1/2"	637		168	253.5	214			363



# Multinox

## Stainless steel vertical multistage pumps



- + Stainless steel**
- + High performance**
- + WRAS Listing Applied 2007**



### Applications

Pressurisation, irrigation, industrial use and drinking water supply.

### Materials

#### Pump Body

Stainless steel. AISI 304.

#### Suction and Discharge Ports

Stainless steel. AISI 304.

#### Impellers

Stainless steel. AISI 304.

#### Diffusers

Glass loaded polycarbonate.

#### Motor Shaft

Stainless steel. AISI 303.

#### Mechanical Seal

Graphite and alumine up to 90m  
Graphite and silicon carbide from 90m.

### Motor

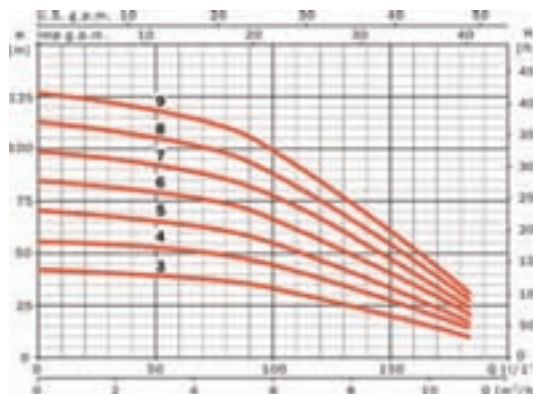
Class F insulation.  
IP 44 Protection.  
Continuous operation.

### Limitations

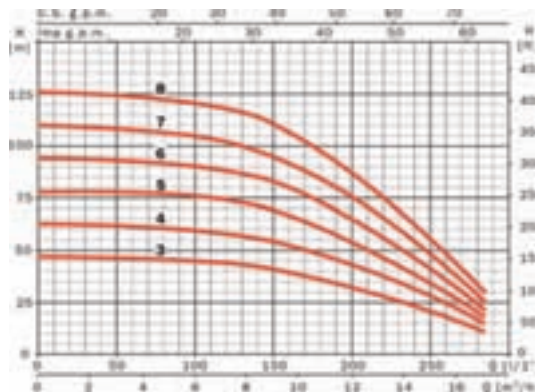
Maximum temperature of liquid: 35°C.

### Equipment

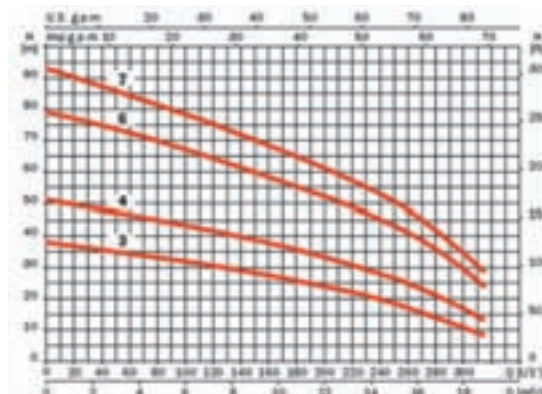
Supplied with counter flanges  
DIN 2558.



35



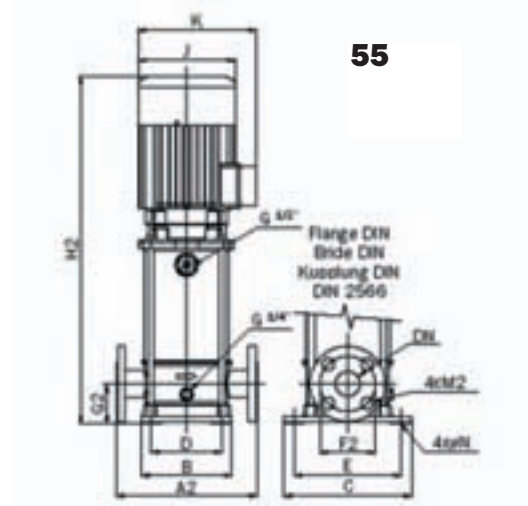
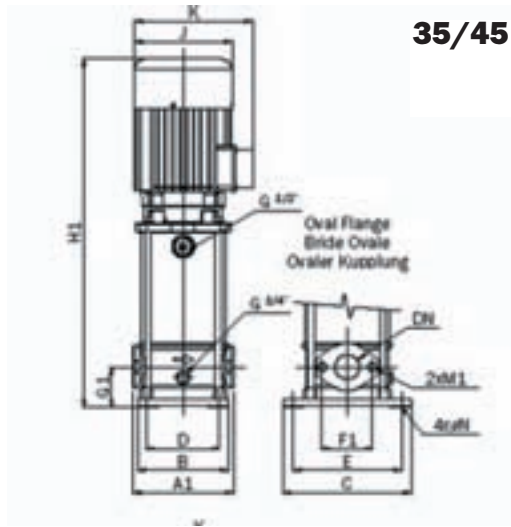
45



55

# Stainless steel multistage pump

# Multinox



Surface

	A1	A2	B	C	D	E	F1	F2	G1	G2	H1	H2	J	K	DN	M1	M2	ØN	Motor	Kg
<b>Multinox 35 3</b>	200		180	255	130	215	100		80		531		156	200	40	M12x30		13	IEC 80	26.9
<b>Multinox 35 3M</b>	200		180	255	130	215	100		80		531		156	230	40	M12x30		13	IEC 80	28.8
<b>Multinox 35 4</b>	200		180	255	130	215	100		80		556		156	200	40	M12x30		13	IEC 80	29.3
<b>Multinox 35 4M</b>	200		180	255	130	215	100		80		598		176	250	40	M12x30		13	IEC 90	33.2
<b>Multinox 35 5</b>	200		180	255	130	215	100		80		623		176	215	40	M12x30		13	IEC 90	33.6
<b>Multinox 35 6</b>	200		180	255	130	215	100		80		647		176	215	40	M12x30		13	IEC 90	36.4
<b>Multinox 35 7</b>		280	180	255	130	215		110		80		672	176	215	40		M16x60	13	IEC 90	37.2
<b>Multinox 35 8</b>		280	180	255	130	215		110		80		726	194	235	40		M16x60	13	IEC 100	41.8
<b>Multinox 35 9</b>		280	180	255	130	215		110		80		751	194	235	40		M16x60	13	IEC 100	45.4
<b>Multinox 35 10</b>		280	180	255	130	215		110		80		775	194	235	40		M16x60	13	IEC 100	46.2

	A1	A2	B	C	D	E	F1	F2	G1	G2	H1	H2	J	K	DN	M1	M2	ØN	Motor	Kg
<b>Multinox 45 3</b>	200		180	255	130	215	100		80		550		156	200	40	M12x35		13	IEC 80	29
<b>Multinox 45 3M</b>	200		180	255	130	215	100		80		550		156	230	40	M12x35		13	IEC 80	29
<b>Multinox 45 4</b>	200		180	255	130	215	100		80		623		176	215	40	M12x35		13	IEC 90	33.4
<b>Multinox 45 4M</b>	200		180	255	130	215	100		80		623		176	250	40	M12x35		13	IEC 90	33.4
<b>Multinox 45 5</b>	200		180	255	130	215	100		80		654		176	215	40	M12x35		13	IEC 90	34.6
<b>Multinox 45 6</b>	200		180	255	130	215	100		80		715		194	235	40	M12x35		13	IEC 100	39.2
<b>Multinox 45 7</b>		280	180	255	130	215		110		80		746	194	235	40		M16x50	13	IEC 100	45.3
<b>Multinox 45 8</b>		280	180	255	130	215		110		80		793	218	255	40		M16x50	13	IEC 112	57.5
<b>Multinox 45 9</b>		280	180	255	130	215		110		80		824	218	255	40		M16x50	13	IEC 112	58.5
<b>Multinox 45 10</b>		280	180	255	130	215		110		80		855	218	255	40		M16x50	13	IEC 112	60.5

	A2	B	C	D	E	F2	G2	H2	J	K	DN	M2	ØN	Motor	Kg
<b>Multinox 55 3</b>	300	180	255	130	215	125	90	586	156	200	60.3	M16x60	13	IEC 80	32
<b>Multinox 55 3M</b>	300	180	255	130	215	125	90	628	176	250	60.3	M16x60	13	IEC 90	36
<b>Multinox 55 4</b>	300	180	255	130	215	125	90	668	176	215	60.3	M16x60	13	IEC 90	37
<b>Multinox 55 5</b>	300	180	255	130	215	125	90	737	194	235	60.3	M16x60	13	IEC 100	43
<b>Multinox 55 6</b>	300	180	255	130	215	125	90	776	194	235	60.3	M16x60	13	IEC 100	48
<b>Multinox 55 7</b>	300	180	255	130	215	125	90	815	194	235	60.3	M16x60	13	IEC 100	52
<b>Multinox 55 8</b>	300	180	255	130	215	125	90	872	194	235	60.3	M16x60	13	IEC 112	63
<b>Multinox 55 9</b>	300	180	255	130	215	125	90	911	218	255	60.3	M16x60	13	IEC 112	64



# Multinox

## Stainless steel multistage pump

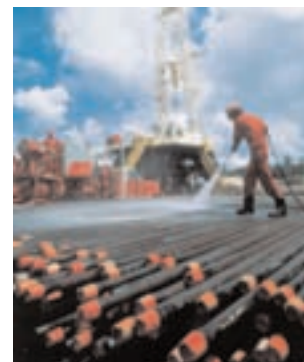
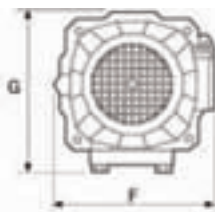
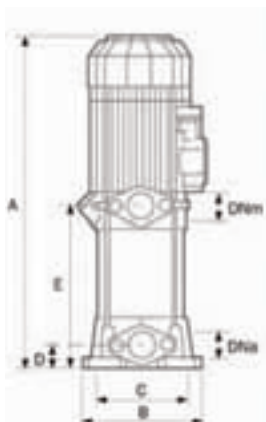
Single phase	Price	Three phase	Price	A			P1 (kW)		kW	HP	μF	l/1'	m³/h	10	30	50	80	100	130	150	170
				1~	3~		1~	3~						0.6	1.8	3	4.8	6	7.8	9	10.2
				230 V	230 V	400 V	1~	3~													
Multinox 35 3M	439	Multinox 35 3T	439	7	4.5	2.6	1.5	1.4	1.1	1.5	25		42	40	38	33	29	23	18	13	
Multinox 35 4M	466	Multinox 35 4T	466	9	3.7	3.7	2	1.8	1.5	2	40		56	54	50	45	40	31	25	17	
		Multinox 35 5T	474		8	4.6		2.4	2	3			70	66	63	57	53	43	35	25	
		Multinox 35 6T	534		8	4.6		2.7	2	3			83	80	76	68	61	49	40	28	
		Multinox 35 7T	542		8.6	5		3	2	3			97	93	88	80	72	57	46	33	
		Multinox 35 8T	569		11.2	6.5		3.8	3	4			112	106	101	92	85	69	57	43	
		Multinox 35 9T	598		14.5	8.4		4.3	4	5.5			125	120	115	105	95	77	63	47	
		Multinox 35 10T	619		15.4	8.9		4.6	4	5.5			138	132	126	115	104	85	69	53	

Single phase	Price	Three phase	Price	A			P1 (kW)		kW	HP	μF	l/1'	m³/h	10	40	80	120	160	200	240	270
				1~	3~		1~	3~						0.6	2.4	4.8	7.2	9.6	12	14.4	16.2
				230 V	230 V	400 V	1~	3~													
Multinox 45 3M	455	Multinox 45 3T	455	8.4	6.4	3.7	1.9	1.9	1.1	1.5	25		38	36	33	29	24	17	10	4	
Multinox 45 4M	509	Multinox 45 4T	509	10.5	8.1	4.1	2.4	2.4	1.5	2	40		50	48	45	40	33	24	15	7	
		Multinox 45 5T	540		8.1	4.1		2.8	2	3			62	60	56	50	41	30	20	11	
		Multinox 45 6T	561		11.2	6.5		3.7	2	4			77	75	70	63	52	39	25	15	
		Multinox 45 7T	588		14.5	8.4		4.3	4	5.5			91	88	85	77	65	50	35	21	
		Multinox 45 8T	720		15	8.7		5.1	5	7.5			106	103	99	92	77	60	41	26	
		Multinox 45 9T	735		16.3	9.4		5.6	5	7.5			116	113	109	100	86	68	47	31	
		Multinox 45 10T	764		18	10.4		6.2	5	7.5			129	125	120	111	97	78	57	39	

Single phase	Price	Three phase	Price	A			P1 (kW)		kW	HP	μF	l/1'	m³/h	10	50	100	150	200	250	300	350
				1~	3~		1~	3~						1.2	3	6	9	12	15	18	21
				230 V	230 V	400 V	1~	3~													
Multinox 55 3M	528	Multinox 55 3T	528	9.8	7	4.1	2.2	2.2	1.5	2	40		38	36	33	30	25	20	14	6	
		Multinox 55 4T	563		8	4.6		2.7	2.2	3			53	50	46	41	36	30	21	10	
		Multinox 55 5T	600		11.3	6.5		3.6	3	4			67	64	59	53	46	39	23	15	
		Multinox 55 6T	660		12.5	7.2		4.1	3	4			79	75	69	62	55	46	28	17	
		Multinox 55 7T	704		15.4	8.9		4.9	4	5.5			94	90	82	75	66	56	41	21	
		Multinox 55 8T	819		17	9.8		5.8	5.5	7.5			110	105	96	82	78	67	50	28	
		Multinox 55 9T	859		18.2	10.5		6.2	5.5	7.5			120	114	104	95	85	74	56	31	

# Vertical multistage pumps

# Multi 20/35N/55



Surface

## Applications

Pressurisation, irrigation and industrial use.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Suction and Discharge Ports

Cast iron.

### Impellers

Stainless steel. AISI 304.

### Diffusers

Glass loaded polycarbonate.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.

IP 44 Protection.

Continuous operation.

Single phase version up to 2HP

Built-in thermal protection

## Limitations

Maximum temperature of liquid:

35°C

## Equipment

Supplied with oval counter flanges

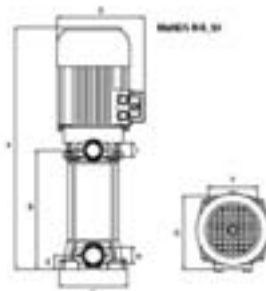
DIN 2558.



Stainless steel impellers

20

	A	B	C	D	E	F	G	DNa	DNm	Kg
Multi 20 3	398	170	125	42	182	180	204	1 1/4"	1 1/4"	14
Multi 20 4	422	170	125	42	205	180	204	1 1/4"	1 1/4"	15
Multi 20 5	441	170	125	42	225	180	204	1 1/4"	1 1/4"	16



35/55

	A	B	C	D	E	F	G	H	I	Kg
Multi 35 N 3	487	201.5	184	203	37	133	201	1 1/2"	1 1/4"	20.2/20
Multi 35 N 4	511.5	226	184	203	37	133	201	1 1/2"	1 1/4"	22.4/20.4
Multi 35 N 5	536	250.5	184	203	37	133	201	1 1/2"	1 1/4"	25.1/22.7
Multi 35 N 6	561	275	184	203	37	133	201	1 1/2"	1 1/4"	25.7
Multi 35 N 8	657.5	323	184	233	37	133	201	1 1/2"	1 1/4"	32.6
Multi 35 N 10	707.5	373	184	233	37	133	201	1 1/2"	1 1/4"	39.4

	A	B	C	D	E	F	G	H	I	Kg
Multi 55 3 N	531	245	184	203	37	133	201	1 1/2"	1 1/4"	23.3
Multi 55 3M N	571	285	184	203	37	133	201	1 1/2"	1 1/4"	25.7
Multi 55 4 N	571	285	184	203	37	133	201	1 1/2"	1 1/4"	26.6
Multi 55 6 N	696	362	184	203	37	133	201	1 1/2"	1 1/4"	35.4
Multi 55 7 N	736	402	184	203	37	133	201	1 1/2"	1 1/4"	39.7

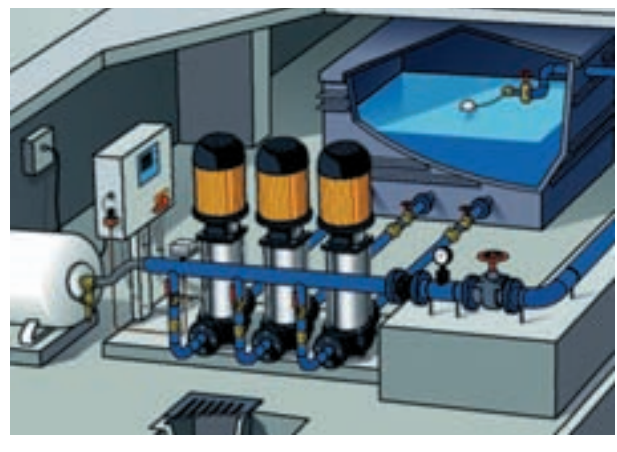
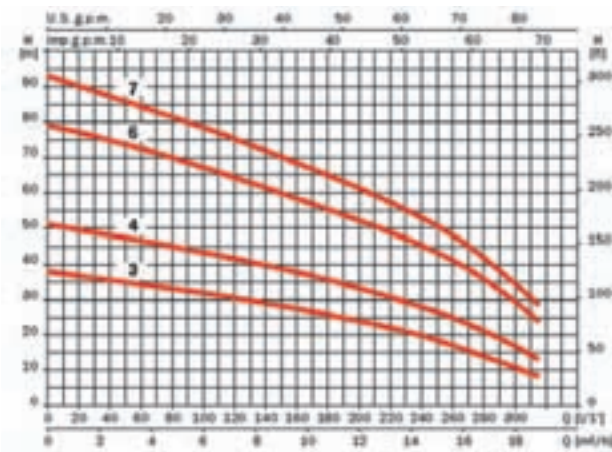
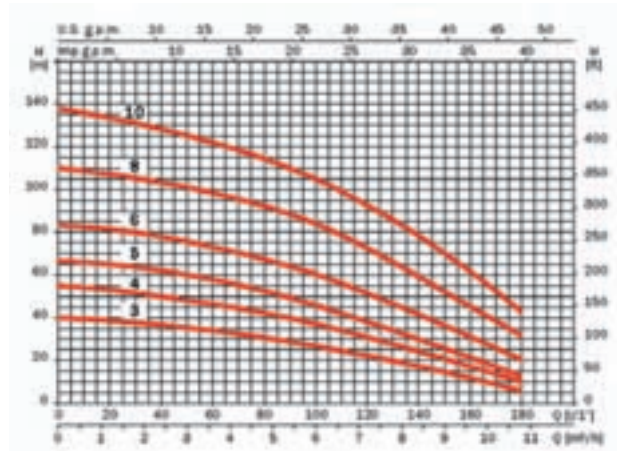
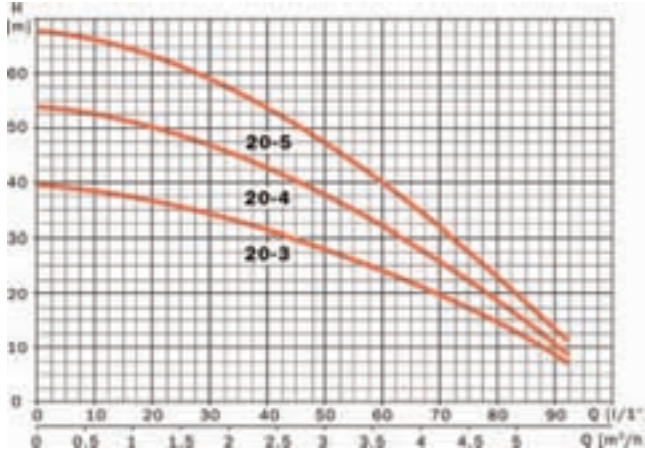
MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~		1~	3~			
		230 V	400 V					
Multi 20 3	4.5	3.2	1.9	1	0.9	0.55	0.75	16
Multi 20 4	5.8	3.9	2.3	1.2	1.1	0.75	1	16
Multi 20 5	6.4	4.2	2.5	1.4	1.3	0.9	1.25	16

230 V 50 HZ	230/400 V 50 Hz	A			P1 (kW)		kW	HP	µF
		1~ 230 V	3~		1~	3~			
			230 V	400 V					
Multi 35 N 3M	Multi 35 N 3	6.7	4.5	2.6	1.5	1.4	0.75	1	25
Multi 35 N 4M	Multi 35 N 4	8.4	5.3	3.1	1.8	1.8	1.1	1.5	25
Multi 35 N 5M	Multi 35 N 5	10.2	6.9	4	2.3	2.2	1.5	2	30
	Multi 35 N 6		8.3	4.8		2.7	2	3	
	Multi 35 N 8		11.9	6.5		3.6	3	4	
	Multi 35 N 10		15.4	8.9		4.9	4	5.5	

230 V 50 HZ	230/400 V 50 Hz	A			P1 (kW)		kW	HP	µF
		1~ 230 V	3~		1~	3~			
			230 V	400 V					
Multi 55 3M N	Multi 55 3 N	9.6	6.6	3.8	2.1	2.1	1.5	2	30
	Multi 55 4 N		8.3	4.8		2.8	2	3	
	Multi 55 6 N		12.1	7		4.2	3	4	
	Multi 55 7 N		15.6	9		4.9	4	5.5	

# Multi 20/35N/55

## Vertical multistage pumps



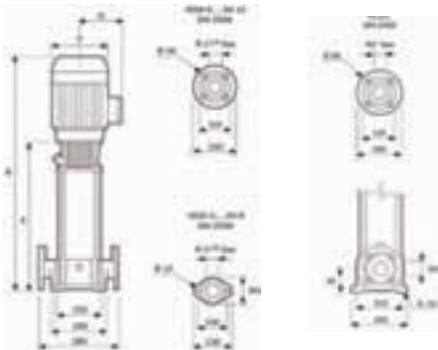
Single phase	Price	Three phase	Price	1/1'	8	17	25	33	42	58	75	92
				m³/h	0.5	1	1.5	2	2.5	3.5	4.5	5.5
Multi 20 3 M	<b>334</b>	Multi 20 3 T	<b>334</b>	H [m]	38.2	38	35.7	33.5	31	25	17	7.2
Multi 20 4 M	<b>356</b>	Multi 20 4 T	<b>356</b>		52.7	51	48.2	45.8	42	33	22	9
Multi 20 5 M	<b>381</b>	Multi 20 5 T	<b>381</b>		66.5	64	61.2	57.5	52.5	41	27	12

Single phase	Price	Three phase	Price	1/1'	17	33	50	75	100	125	150	175
				m³/h	1	2	3	4.5	6	7.5	9	10.5
Multi 35 3 MN	<b>340</b>	Multi 35 3 N	<b>340</b>		39	37.5	35.5	31.5	27	21	15	7
Multi 35 4 MN	<b>411</b>	Multi 35 4 N	<b>411</b>		54	51	48	44	37	29.5	21	11.8
Multi 35 5 MN	<b>497</b>	Multi 35 5 N	<b>497</b>		65.4	63.5	60	54.5	46	36	26.2	15
		Multi 35 6 N	<b>523</b>		82	79.5	76	69	61	49	36.7	23
		Multi 35 8 N	<b>635</b>		108	105	101	93	85	70	53	35
		Multi 35 10 N	<b>782</b>		134	130	125	117	105	90	70	47

Single phase	Price	Three phase	Price	1/1'	20	50	75	100	150	200	250	300
				m³/h	1.2	3	4.5	6	9	12	15	18
Multi 55 3 MN	<b>483</b>	Multi 55 3 N	<b>483</b>		37	35	33	31	28	24	18	10
		Multi 55 4 N	<b>555</b>		50	47	45	43	39	33	26	16
		Multi 55 6 N	<b>650</b>		77	73	70	66	60	52	43	29
		Multi 55 7 N	<b>818</b>		90	86	82	78	70	60	50	35

# In-line vertical multistage pumps

# Press-Line VE



	A	B	C	D	KgB	KgA
VE94 4	412	647	156	122	31	17
VE94 5	450	700	176	127	34	20
VE94 6	486	738	176	127	35	21
VE94 7	525	800	176	127	37	22
VE94 8	563	838	176	127	38	23
VE94 9	629	937	194	138	50	29,4
VE94 10	666	974	194	138	51	30,4
VE94 11	703	1010	194	138	52	31,4
VE94 12	742	1048	194	138	56	32,3
VE94 13	780	1086	194	138	57	33,3
VE94 14	816	1134	220	146	66	36

	A	B	C	D	KgB	KgA
VE121 2	470	714	175	140	58,4	37,8
VE121 3	522	825	195	155	64,9	39,2
VE121 4	574	875	195	155	81,7	42,6
VE121 5	626	974	220	182	83,4	44,3
VE121 6	678	1028	220	182	85,5	45,8
VE121 7	730	1110	220	182	94,2	47,3
VE121 8	782	1152	220	182	95,8	48,9
VE121 9	834	1318	320	245	102,7	50,4
VE121 10	886	1370	320	245	104,2	51,9

## Applications

Pressurisation, irrigation, water transfer and industrial use.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Suction and Discharge Ports

Cast iron.

### Impellers

Stainless steel. AISI 304.

### Diffusers

Glass loaded Noryl.

### Pump Shaft

Stainless steel. AISI 304.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Motor to following standards.

Type V18 for VE94.

Type V1 for VE121.

Class F insulation.

IP 54 Protection.

Continuous operation.

## Limitations

Maximum temperature of liquid: 35°C.

## Equipment

Supplied with counter flanges and gaskets.

Surface

MODEL	A				P1 (kW)		kW	HP	µF
	1~	3~			1~	3~			
	230 V	230 V	400 V	692 V					
VE94 4	7.0	5.0	2.8	-	1.5	1.6	1.1	1.5	35
VE94 5	8.6	6.0	3.5	-	2	2	1.5	2	40
VE94 6	11.0	6.7	3.9	-	2.4	2.3	1.5	2	40
VE94 7	15.0	7.7	4.5	-	-	2.7	2.2	3	-
VE94 8	16.5	8.9	5.2	-	-	3	2.2	3	-
VE94 9	18.5	11.0	6.5	-	-	3.6	3	4	-
VE94 10	20.0	11.7	6.8	-	-	3.9	3	4	-
VE94 11	20.0	12.4	7.2	-	-	4.4	3	4	-
VE94 12	-	14.3	8.3	4.8	-	4.8	4	5.5	-
VE94 13	-	14.8	8.6	5.0	-	5	4	5.5	-
VE94 14	-	16.3	9.4	5.4	-	5.5	5.5	7.5	-

MODEL	A				P1 (kW)		kW	HP	µF
	1~	3~			1~	3~			
	230 V	230 V	400 V	692 V					
VE121 2	-	10.4	6.0	-	-	3.4	3	4	-
VE121 3	-	14.3	8.3	-	-	4.8	4	5.5	-
VE121 4	-	19.0	11	-	-	6.5	5.5	7.5	-
VE121 5	-	23.5	13.6	-	-	8.2	5.5	7.5	-
VE121 6	-	27.3	15.8	-	-	9.7	7.5	10	-
VE121 7	-	32.0	18.5	-	-	11.3	9.2	12.5	-
VE121 8	-	40.0	23.1	-	-	13.8	11	15	-
VE121 9	-	40.5	23.5	-	-	14.3	15	20	-
VE121 10	-	41.5	24	-	-	15	15	20	-

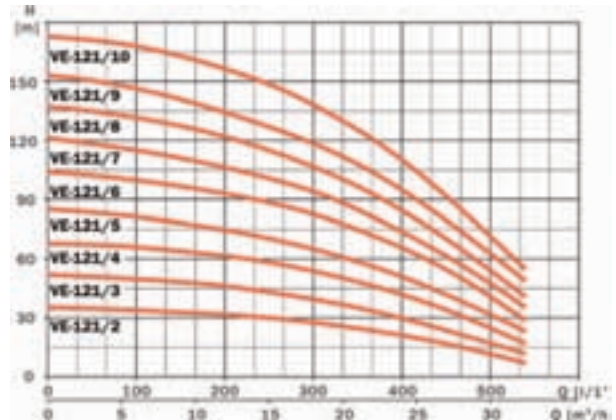
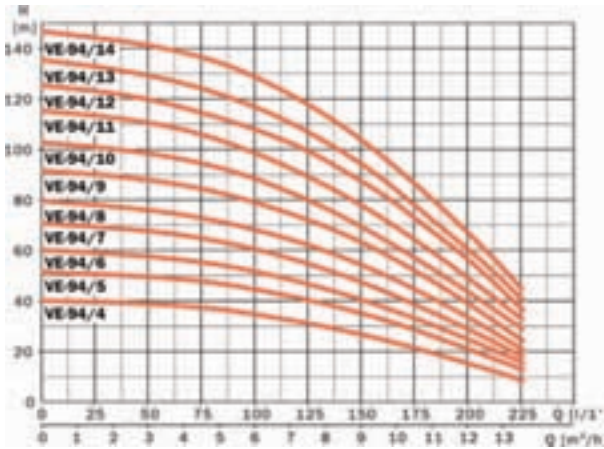


# Press-Line VE

## In-line vertical multistage pumps



Impellers in Stainless steel



Single phase	Price	Three phase	Price	l/1'	25	50	100	125	150	175	200	225
				m³/h	1.5	3	6	7.5	9	10.5	12	13.5
VE94 4 M	<b>687</b>	VE94 4 T	<b>687</b>	H [m]	37	36	34	29	24	19	13	6
VE94 5 M	<b>731</b>	VE94 5 T	<b>731</b>		47	46	41	37	32	25	18	9
VE94 6 M	<b>805</b>	VE94 6 T	<b>805</b>		56	55	49	44	38	31	22	13
VE94 7 M	<b>823</b>	VE94 7 T	<b>823</b>		67	65	57	52	45	36	27	16
VE94 8 M	<b>979</b>	VE94 8 T	<b>979</b>		75	73	63	56	49	40	30	18
VE94 9 M	<b>1,083</b>	VE94 9 T	<b>1,083</b>		83	81	71	63	54	43	32	20
VE94 10 M	<b>1,129</b>	VE94 10 T	<b>1,129</b>		93	91	81	72	62	50	36	22
VE94 11 M	<b>1,166</b>	VE94 11 T	<b>1,166</b>		105	102	91	82	70	56	42	26
		VE94 12 T	<b>1,200</b>		115	111	100	91	79	64	48	29
		VE94 13 T	<b>1,247</b>		123	120	107	97	85	68	51	32
		VE94 14 T	<b>1,404</b>		132	129	118	109	95	77	57	35

Single phase	Price	Three phase	Price	l/1'	50	100	150	200	250	300	400	500
				m³/h	3	6	9	12	15	18	24	30
N/A		VE121 2 T	<b>821</b>	H [m]	35	33	32	31	30	28	20	10
N/A		VE121 3 T	<b>896</b>		51	50	49	47	45	41	30	18
N/A		VE121 4 T	<b>1,240</b>		67	65	62	60	57	52	40	22
N/A		VE121 5 T	<b>1,364</b>		82	80	76	74	70	65	50	30
N/A		VE121 6 T	<b>1,438</b>		103	100	98	92	86	80	65	40
N/A		VE121 7 T	<b>1,483</b>		119	116	112	109	102	95	75	48
N/A		VE121 8 T	<b>1,622</b>		137	135	130	126	120	110	88	55
N/A		VE121 9 T	<b>1,928</b>		150	149	145	140	130	122	100	63
N/A		VE121 10 T	<b>1,957</b>		170	169	164	160	150	140	112	72





# DIN Standard end suction pumps (DIN 24255)

# EN 32

## Applications

Water transfer, irrigation, industrial and pressurisation, with no solids in suspension.

## Materials

### Pump Body

Cast iron GG20.

### Impeller

Cast iron GG20.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and ceramic

## Motor

Class F insulation.  
IP 44 Protection.  
Continuous operation.

**+ Temperature range**  
**-10°C to +90°C**



**+ DIN Standard (DIN 24255)**

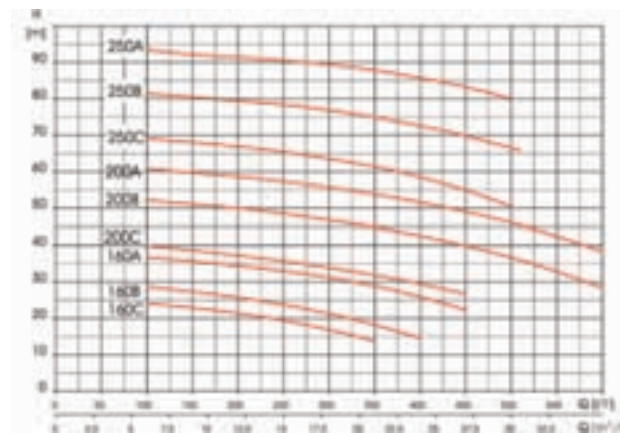
# 32

## Limitations

Maximum pressure: 10 bar.  
Maximum ambient temperature: 40°C.  
Liquid temperature: -10°C -+90°C.

## Equipment

Supplied with counter flanges and gaskets.



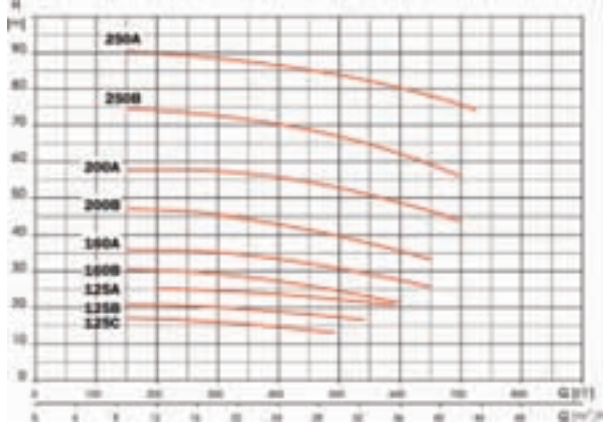
MODEL	Price	3~			P1	kW	HP	l/1'	100 150 200 250 300 350 400 450							
		230 V	400 V	692 V					3~	6	9	12	15	18	21	24
EN32 160 C	407	6.9	4	-	2.3	1.5	2	H [m]	24,1	23	21,5	19,6	17,2	14,1	-	-
EN32 160 B	442	9	5.2	-	2.9	2.2	3		28,5	27,3	25,7	23,8	21,4	18,5	14,8	-
EN32 160 A	472	12.2	7.1	-	4.1	3	4		36,4	35,4	34,2	32,8	31,1	28,8	26	22,3
EN32 200 C	596	16.2	9.4	-	5.4	4	5.5		40	38,8	37,5	36	34,2	32,2	30	27
EN32 200 B	712	-	14.2	8.2	8.7	5.5	7.5		52	51	50	48,5	46,8	45	42,7	40,1
EN32 200 A	806	-	16.5	9.5	9.8	7.5	10		60,5	59,5	58,5	57,2	55,5	53,7	51,5	49
EN32 250 C	953	-	20.1	11.6	11.5	9.2	12.5		69	68	67	65,5	63,5	61,5	58,5	55
EN32 250 B	1,011	-	24.2	14	14.2	11	15		81,5	80,5	79,5	78,5	77	75	72,6	70
EN32 250 A	1,428	-	30.1	17.4	17.1	15	20		93,5	92	91,5	90,5	89,5	88	85,7	83,5

Surface

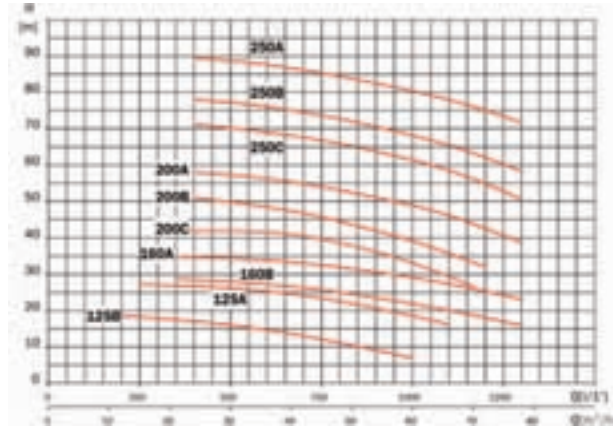
# EN 40/50

## DIN Standard end suction pumps (DIN 24255)

### 40



### 50



MODEL	Price	3~			P1	kW	HP	l/1'	H								
		230 V	400 V	692 V					3~	m³/h	150	200	250	300	400	500	600
									9	12	15	18	24	30	36	42	
EN40 125 C	408	6.9	4	-	2.2	1.5	2	H [m]	17.5	17.3	16.9	16.4	15.1	13.3	-	-	
EN40 125 B	443	9	5.2	-	2.9	2.2	3		21.3	21.2	21	20.6	19.4	17.9	-	-	
EN40 125 A	474	12.2	7.1	-	3.9	3	4		25.9	25.8	25.6	25.4	24.4	22.9	21.1	-	
EN40 160 B	532	12.8	7.4	-	4.4	3	4		30.1	30	29.6	29	27.1	24.4	21	-	
EN40 160 A	553	17	9.9	-	5.6	4	5.5		35.6	35.5	35.3	35	33.2	30.6	27.3	-	
EN40 200 B	725	-	13.2	7.6	8.2	5.5	7.5		47	46.8	46.4	45.6	43.2	39.9	35.8	-	
EN40 200 A	818	-	16.8	9.7	10.8	7.5	10		58	57.9	57.8	57.6	56	53	48.9	43.9	
EN40 250 B	1,032	-	24.2	14	15.7	11	15		74.6	74.2	73.5	72.7	70.4	67.2	62.5	56	
EN40 250 A	1,383	-	32	18.5	21.2	15	20		90.4	89.8	89.3	88.5	86.6	84	80.5	76	

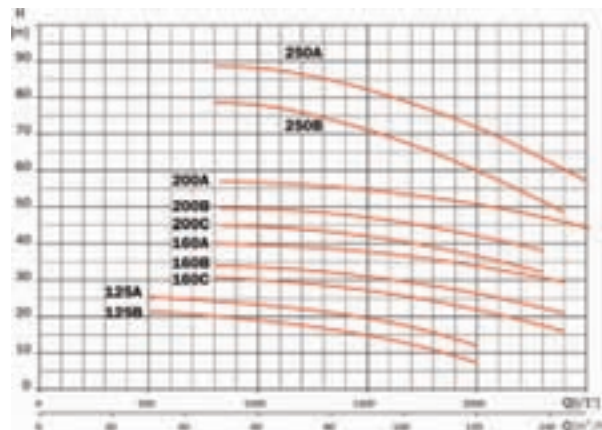
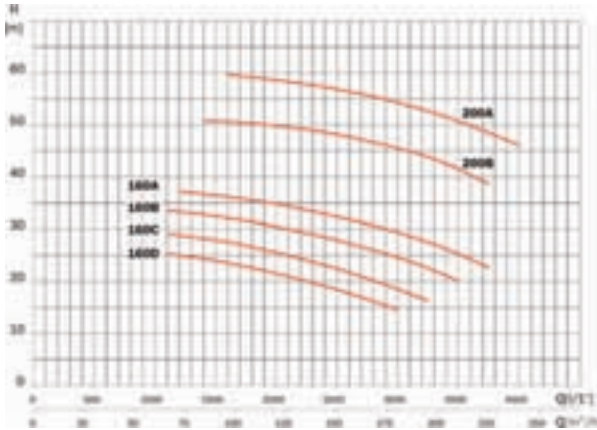
MODEL	Price	3~			P1	kW	HP	l/1'	H								
		230 V	400 V	692 V					3~	m³/h	400	500	600	700	800	1000	1100
									24	30	36	42	48	60	66	72	
EN50 125 B	531	12.2	7.4	-	3.4	3	4	H [m]	16.6	15.6	14.3	12.8	11	7	-	-	
EN50 125 A	552	17	9.9	-	5.6	4	5.5		25.8	25.2	24.4	23.3	21.9	18	15.7	-	
EN50 160 B	705	-	11.6	6.7	6.7	5.5	7.5		30.3	29.8	29	28	26.7	23.3	21.3	19.1	
EN50 160 A	801	-	15.8	9.1	9.2	7.5	10		36.9	36.6	36.1	35.1	34	31	29.1	26.9	
EN50 200 C	935	-	18.5	10.7	10.6	9.2	12.5		45.7	44.5	42.9	40.2	38.5	33	29	24.5	
EN50 200 B	992	-	21	12	12.4	11	15		51	50	48.5	46.8	44.7	39.5	35.9	32	
EN50 200 A	1,363	-	27	15.6	15.3	15	20		58.1	57.5	56.4	55	53.2	49	46.3	42.8	
EN50 250 C	1,459	-	32.5	18.7	21.5	15	20		71	70.3	69	67.6	66	61.5	58.6	55	
EN50 250 B	1,531	-	41.5	24	24.5	18.5	25		78	77.4	76.1	74.5	72.8	68.2	65.5	62.2	
EN50 250 A	1,935	-	51.5	29.7	28.7	22	30	89.5	88.8	87.7	86.1	84.5	80.5	78	75.2		

# DIN Standard end suction pumps (DIN 24255)

# EN 65/80

## 65

## 80



Surface

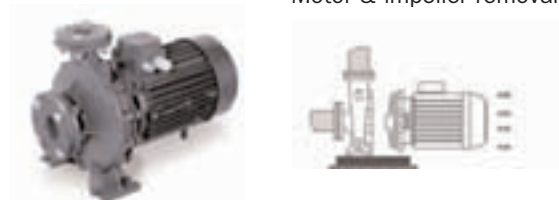
MODEL	Price	3~			P1	kW	HP	l/1'	H [m]							
		230 V	400 V	692 V					3~	800	1000	1200	1400	1600	1800	2000
EN65 125 B	822	-	13.2	7.6	7.1	5.5	7.5	m³/h	20.1	18.8	17.5	15.7	13.6	10.9	7.1	-
EN65 125 A	885	-	16.8	9.7	9.3	7.5	10		24.2	23.2	22	20.4	18.4	15.7	11.7	-
EN65 160 C	1,025	-	19.5	11.2	12.9	9.2	12.5		31.1	30.5	29.6	28.3	26.6	24.6	22.1	19.3
EN65 160 B	1,087	-	22.5	13	13.8	11	15		34.4	34	33.3	32.1	30.6	28.8	26.7	24.1
EN65 160 A	1,354	-	30	17.3	17.6	15	20		40.6	40.2	39.7	38.9	37.7	36.2	34.3	32.2
EN65 200 C	1,455	-	32.5	18.7	20.8	15	20		44.6	44.5	43.7	42.3	40.5	38	35.3	32
EN65 200 B	1,608	-	41.5	24	24	18.5	25		49.4	49.3	48.5	47.3	45.5	43.5	41	38
EN65 200 A	1,693	-	51.5	29.7	31.5	22	30		56.6	56.5	55.7	54.7	53.3	51.6	49.6	47.1
EN65 250 B	3,736	-	63.5	36.7	38	30	40		78.6	78.5	76	73	69.3	65	60	54.5
EN65 250 A	3,999	-	74.5	43	44.4	37	50		88.6	88.5	86.5	84	80.5	76.5	72	66.5

MODEL	Price	3~			P1	kW	HP	l/1'	H [m]							
		230 V	400 V	692 V					3~	1100	1200	1400	1800	2200	2600	3000
EN80 160 D	1,148	-	20.8	12	12.2	11	15	m³/h	25.6	25.3	24.7	22.9	20.6	17.9	14.6	-
EN80 160 C	1,615	-	25.8	15	14.9	15	20		29.6	29.3	28.7	27	24.7	22	18.7	-
EN80 160 B	1,770	-	35	20.2	19	18.5	25		34.1	33.9	33.4	32	30	27.7	25	20.3
EN80 160 A	1,873	-	42	24.2	23	22	30		-	37.9	37.3	36.2	34.5	32.4	29.9	25.8
EN80 200 B	3,741	-	63.5	36.7	39.4	30	40		-	-	50.8	50.3	49.3	47.7	45.5	41.6
EN80 200 A	4,007	-	74.5	43	46.7	37	50		-	-	-	59.2	58	56.4	54.3	50.8

Possible positions for installation



Motor & impeller removal



# Kit 02/05

## Automatic pump control

### Applications

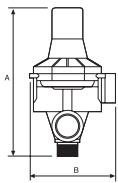
Compact pressurisation equipment which, when fitted onto a suitable pump, automatically supplies water on demand. Also available with dry run protection, pressure gauge and diaphragm.

### Avantages

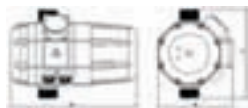
Compact design eliminating the need for pressure vessels, separate pressure switches, non return valves, pressure gauges and dry run protection devices.

### Features

- Pressure gauge.
- Fully automatic electronic control.
- Reset button.
- Built-in non return valve.



	A	B	Kg
Kit 02	240	135	1,4



	A	B	C	Kg
Kit05	214	127	154	1,4



Kit02/3



Kit05

Single phase	Price
Kit 02/3	81
Kit 02/4	81
Kit 05	88

TECHNICAL FEATURES			
Model	Kit 05	Kit 02/3	Kit02/4
<b>Voltage</b>	230 V	230 V	230 V
<b>Maximum Amperage</b>	10 A	10 A	10 A
<b>Hz</b>	50/60 Hz	50/60 Hz	50/60 Hz
<b>Protection</b>	IP 55	IP 55	IP 55
<b>Maximum pressure</b>	10 Bar	7.5 Bar	7.5 Bar
<b>Maximum static pressure</b>	1.5 Bar	1.0 Bar	1.0 Bar
<b>Starting pressure</b>	1.5 - 2.5 Bar adjustable	1.5 Bar	2.4 Bar
<b>Stopping pressure</b>	Maximum pressure of the pump		
<b>Differential pressure</b>	≥ 0.5 Bar	≥ 0.7 Bar	≥ 0.7 Bar
<b>Maximum flow</b>	10 m <sup>3</sup> /h	8 m <sup>3</sup> /h	8 m <sup>3</sup> /h
<b>Maximum building height</b>	2mtrs under starting pressure of pump	12 mtrs	20 mtrs
<b>Maximum temperature</b>	60°C	60°C	60°C
<b>Ø Inlet connection</b>	1" male	1" male	1" male
<b>Ø Outlet connection</b>	1" male	1" female	1" female

# Kit Press

## Buffer vessel

### Applications

To prevent water hammer in pressurised systems with minor leaks.



Kit Press 1/4"

Kit Press	Price
Kit Press 1"	37
Kit Press 1/4"	38



Automatic operation  
complete with dry  
running protection

# Tecnopres

## Applications

To supply water at pressure in domestic applications.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Impeller

Stainless steel. AISI 304.

### Diffusers

Glass loaded Noryl.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.

IP 44 Protection.

Continuous operation.

Single phase with built-in thermal protection.

## Limitations

Tecnopres 25 cut in pressure 2.3 bar

Tecnopres 15 4 cut in pressure 1.8 bar.

Tecnopres 15 5 cut in pressure 2.3 bar.

Maximum temperature of liquid: 35°C.

**+** *Self priming device  
maximum 9m lift*



**+** *Stainless steel  
impellers*

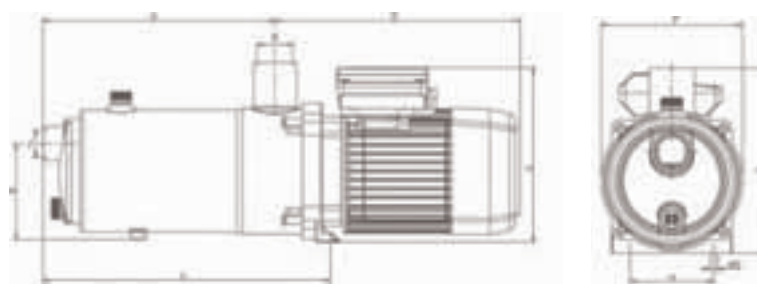


**+** *Dry running protection*

**+** *Automatic operation*

**+** *Quiet running*

**+** *WRAS Listing Applied 2007*



MODEL	DIMENSIONS AND WEIGHTS											
	A	B	C	D	E	F	G	H	I	J	K	KG
Tecnopres 15 4	220.7	107.5	281.5	181.5	232.5	196.3	148.5	88	9	1"	1 1/4"	9.5
Tecnopres 15 5	244	107.5	304.6	181.5	232.5	196.3	148.5	88	9	1"	1 1/4"	11

MODEL	DIMENSIONS AND WEIGHTS											
	A	B	C	D	E	F	G	H	I	J	K	KG
Tecnopres 25 4	236.6	107.5	298.1	267	190.5	148.5	196.3	88	9	1"	1 1/4"	9.5
Tecnopres 25 5	263.2	107.53	324.7	288.5	190.5	148.5	196.3	88	9	1"	1 1/4"	11

MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V		1~				
Tecnopres 15 4	3.5		0.8		0.5	0.75	12
Tecnopres 15 5	4.1		1		0.66	0.9	12

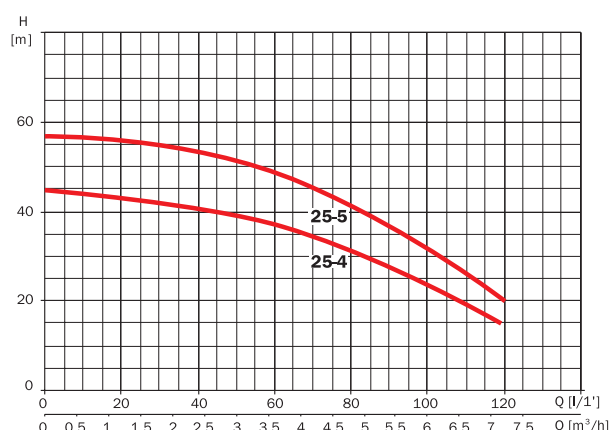
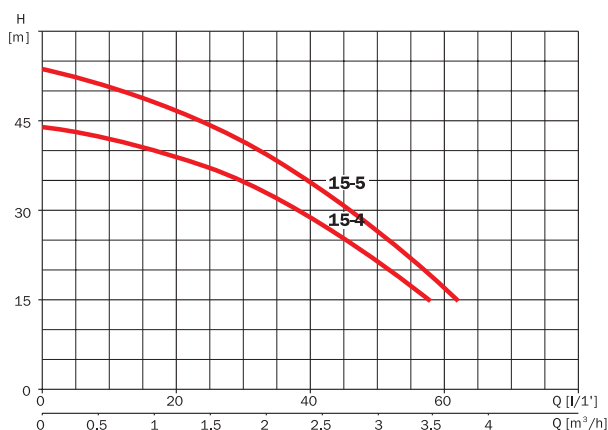
MODEL	A		P1 (kW)		kW	HP	µF
	1~ 230 V		1~				
Tecnopres 25 4	6.8		1.5		0.92	1.25	16
Tecnopres 25 5	7.4		1.8		1.1	1.5	25

Pressure



# Tecnopres

Automatic operation complete with dry running protection



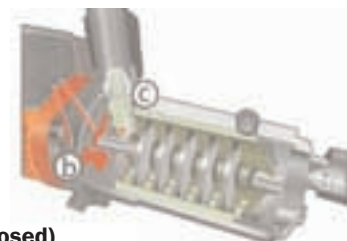
## Functions



### Water Demand (tap open)

When a tap opens or there is a demand for water, the discharge pipework (a) has a drop in pressure and a signal is sent to control the pump via point (b)

The Tecnopres starts and the check valve confirms the ON mode (c)



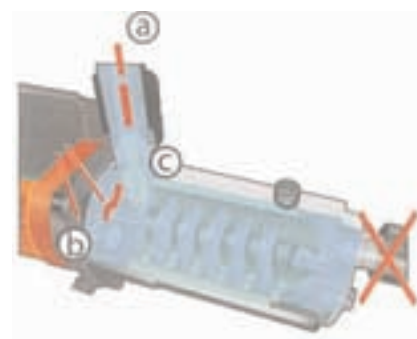
### No demand (tap closed)

When the tap closes, or demand stops the pressure in the system rises (a) The electronic device senses this (b) and the pump stops (c)

When the tap opens again the cycle starts over.

## Dry running protection

Tap opens, or there is a demand for water. The Tecnopres discharge empties (a) and the pressure drops inside the Tecnopres sending an electronic signal via (b) The Tecnopres starts but due to no flow, the check valve does not move (c) and the pump start is not confirmed preventing the pump from running dry.



Single phase	Price	Three phase	Price	l/1'	10	20	30	35	40	45	50	60
				m³/h	0.6	1.2	1.8	2.1	2.4	2.7	3	3.6
Tecnopres 15.4M	281	N/A		H	42	39	35	32	28	25	21	-
Tecnopres 15.5M	296	N/A		[m]	51	47	41.5	38	34	30	26	17

Single phase	Price	Three phase	Price	l/1'	15	30	45	60	75	90	105	120
				m³/h	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2
Tecnopres 25.4M	333	N/A		H	44	42	40	37	33	28	22	15
Tecnopres 25.5M	380	N/A		[m]	56	55	53	49	43	37	29	20

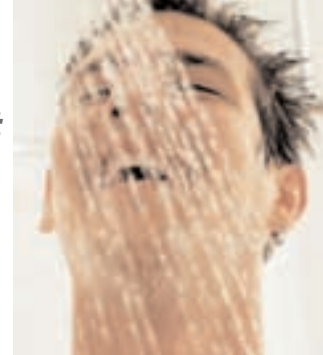
Constant pressure for domestic applications without fluctuations plus electrical saving

# Tecnoplus



**+ Maximum comfort at low cost**

**+ Easy to install**



**+ WRAS Listing Applied 2007**

## Applications

Horizontal multistage centrifugal pump with electronic regulation ESD (Espa Speed Driver) and speed control with pressure sensor included; built-in with dry running protection. No maintenance required and without water hammer in the installation.

## Materials

### Pump Body

Stainless steel. AISI 304.

### Suction and discharge ports

Stainless steel. AISI 304.

### Impeller

Stainless steel. AISI 304.

### Diffusers

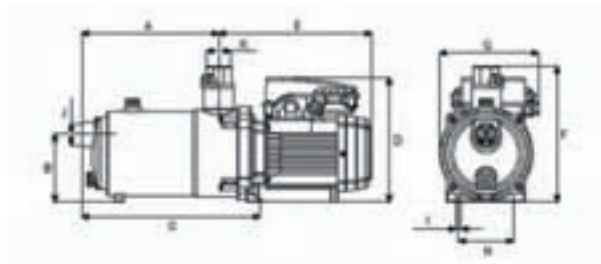
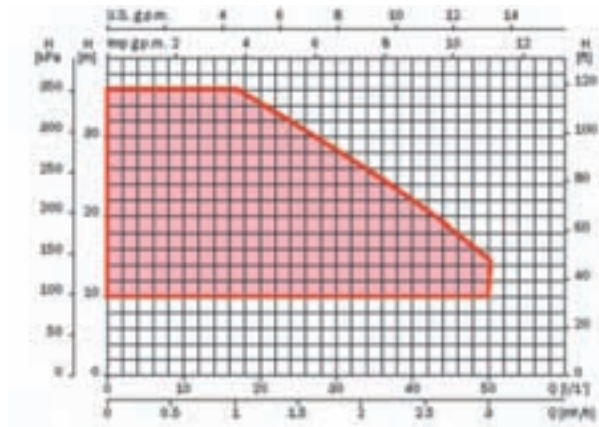
Glass loaded polycarbonate.

### Mechanical Seal

Graphite and ceramic.

## Motor

Class F insulation.  
IP 55 Protection.  
Continuous operation.  
Built-in thermal protection inside windings.



## Limitations

Maximum temperature of liquid: 35°C.

## Equipment

Complete with two metres of H07 RNF cable.  
Display with push button to increase or decrease the working pressure (1.5 – 3.5 Bar).

	A	B	C	D	E	F	G	H	I	J	K	Kg
Tecnoplus 15 4M	219	107	285	197	244	210	158	88	9	1"	1"	10,5

Single phase	Price	A			P1 (kW)		kW	HP	µF									
		1~ 230 V	3~		1~	3~				I/1'	5	10	15	25	30	35	45	50
			230 V	400 V														
Tecnoplus 15 4M	362	3.6			0.75		0.55	0.75	12	Max	36	36	36	32	28	25.5	18.5	15
										Min	10	10	10	10	10	10	10	10

Pressure

# Sub-Tank

## Automatic boosting package



**+** For pump curves and electrical details, see pages 2 & 3



### Applications

To restore system pressure, when the mains supply is insufficient a pump may be used, however, to comply with water authority byelaws a break tank must be incorporated, as the pump is precluded from direct connection to the mains water supply

The ESPA Sub-tank system has been designed to solve this problem. A fully automatic unit, the Sub-tank has an Acuaría stainless steel submersible pump incorporated into the break tank giving space saving advantages in small plant rooms or roof spaces. (see pages 2 & 3 for details of pump) Control is provided by a constant pressure device, with built in pressure gauge (see page 60 for details of control device) Electronics prevent starting without water. LED's display On line, Pump operating and Fault.

Installation is straight forward with only three connections required.

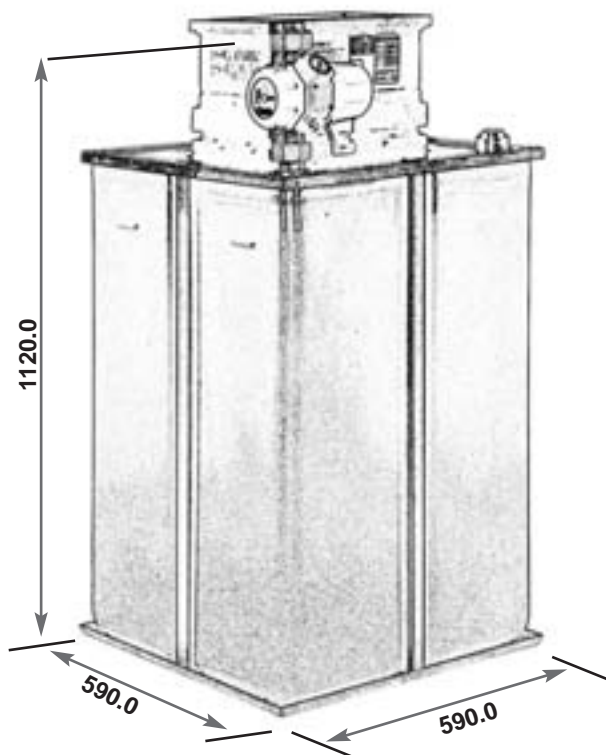
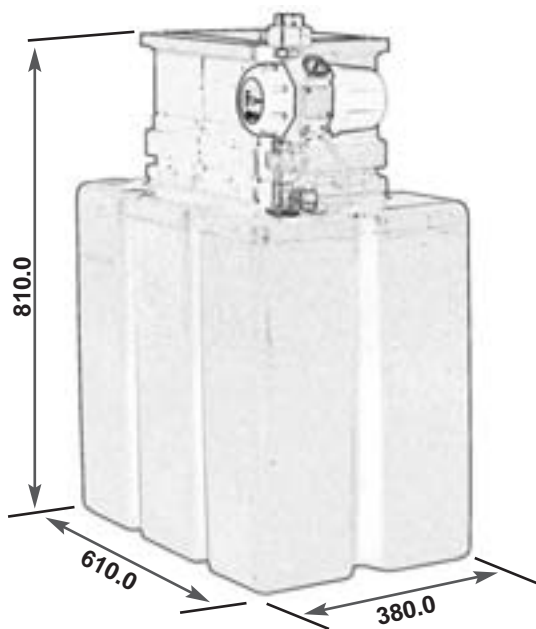
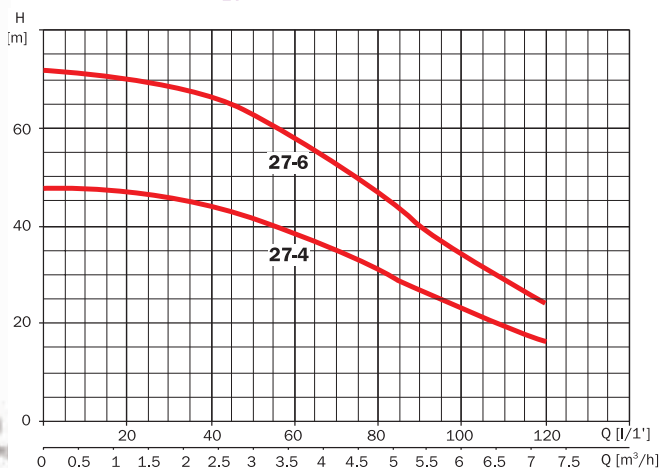
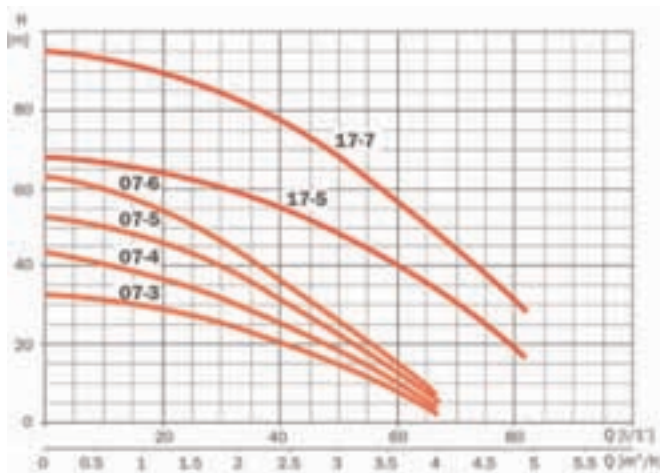
- +** LED indicators display line voltage, pump operation and Failure.
- +** Does not require any maintenance or pre-charge.
- +** Adjustable start pressure:- 1.5 - 2.5 Bars
- +** 95 Ltr or 227 Ltr Actual capacity high density polyethylene break tank (BS4213). WRAS approved.
- +** Byelaws 30 top tank fitted with 1/2" ball valve complying with (byelaw 11) type "A" air gap, protecting incoming mains supply from class 1 and class 5 designated risk of contamination (byelaws 25).
- +** Kit 05 Pressure stat starts and stops pump automatically and supplies water at a constant pressure.
- +** Pressure switch with vessel options available, please add £30.

- +** Maximum temperature 35°C.
- +** WRAS Listing Applied 2007

Single phase	Price
ST07.3/100	842
ST07.4/240	1,172
ST07.5/240	1,188
ST07.6/240	1,203
ST17.5/240	1,262
ST17.7/240	1,305
ST27.4/240	1,224
ST27.6/240	1,247
Extra 240 ltr tank	318
Extra 240 ltr tank c/w chamber kit	453

# Automatic boosting package

# Sub-Tank



Pressure



1" Discharge connections on all units

MODEL	A		P1 (kW)		kW	HP	μF
	1~	3~	1~	3~			
	230 V	400 V					
<b>Acuaría 07 3</b>	2.8	1.2	0.6	0.6	0.37	0.5	12
<b>Acuaría 07 4</b>	3.6	1.7	0.80	0.80	0.5	0.75	12
<b>Acuaría 07.5</b>	4.1	1.9	0.95	0.95	0.75	1	12
<b>Acuaría 07 6</b>	5.0	2.0	1.1	1.1	0.9	1.2	16
<b>Acuaría 17.5</b>	7.4	2.6	1.6	1.5	0.9	1.25	16
<b>Acuaría 17.7</b>	10.7	3.8	2.2	2.1	1.5	2.0	25
<b>Acuaría 27.4</b>	7.0	2.5	1.5	1.4	0.9	1.25	16
<b>Acuaría 27.6</b>	10.8	3.8	2.2	2.1	1.5	2.0	25



# Sub-Tank

## Variable speed booster package



- + 227 Ltr actual capacity high density polyethylene break tank (BS4213). WRAS approved.**
- + Byelaws 30 top tank fitted with 1/2" ball valve complying with (Byelaws 11) type "A" air gap, protecting incoming mains supply from a class 5 designated risk of contamination (Byelaws 25).**
- + Inverter starts and stops pump automatically and supplies water at a constant pressure.**
- + Prevents starting in the absence of water and avoids water hammer.**
- + Inverter displays rotation, frequency and system pressure.**

### Applications

To restore system pressure when the mains supply is insufficient, a pump may be used. However, to comply with water authority byelaws a break tank must be incorporated, as the pump is precluded from direct connection to the mains water supply

The ESPA Sub-tank system has been designed to solve this problem. A fully automatic unit, the Sub-tank has a stainless steel submersible pump incorporated into the break tank giving space-saving advantages in small plant rooms.

An in-line inverter with built-in pressure transducer provides control. Electronics prevent starting without water. Digital displays show On line, Pump operating and Fault.

Installation is straightforward with only three connections required.

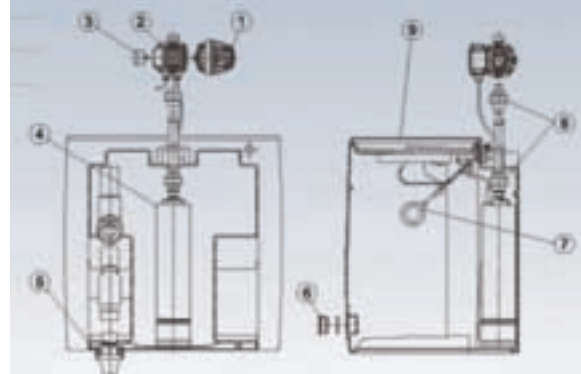
MODEL	Length	Width	Height	Kg
ST07/240.I	590	590	1400	43 Dry

- + Adjustable start pressure: 0.8 – 9.0 Bar.**
- + Maximum temperature 35°C.**
- + For pump curves and electrical details see pages 2 & 3.**
- + The pressure vessel requires a pre-charge with air (0.3 – 0.5 Bar). This charge should be checked and adjusted every six months.**

Single phase	Price
ST07.4/240.I	1,733
ST07.5/240.I	1,750
ST07.6/240.I	1,768
ST17.5/240.I	1,836
ST17.7/240.I	1,898
ST27.4/240.I	1,795
ST27.6/240.I	1,839
Extra 240 ltr tank	318
Extra 240 ltr tank c/w chamber kit	453

# Compact automatic set for storing and supplying pressurised water

# Aquabox



Pressure

## Applications

Aquabox had been designed for European countries to adapt to many different sites and situations, and is the perfect solution for all users who wish to avoid or are unable to allow shortages or cuts in their water supply.

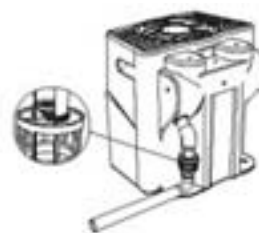
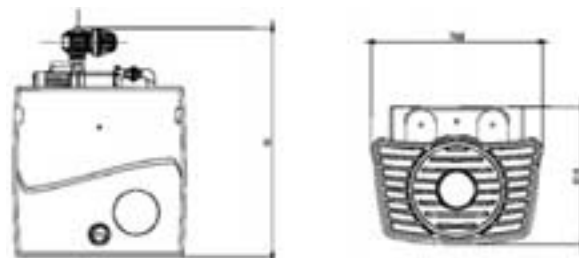
ESPA Aquabox consists of totally automatic pressure equipment with dry running protection which, in conjunction with a reserve tank, pressurises any facility in which the pressure/flow of the public network is insufficient. This equipment is suitable for both commercial and domestic use, and complies with all the applicable European standards.

Aquabox is usually installed for the purpose of pressurising facilities or homes, and can also be installed when the pressure and/or flow of the potable water supply network is insufficient.

Aquabox comprises a storage tank with a potable water inlet that is controlled by a mechanical valve, a discharge outlet, a submersible or surface-operating pump, an automatic pressurising kit and a small expansion vessel.

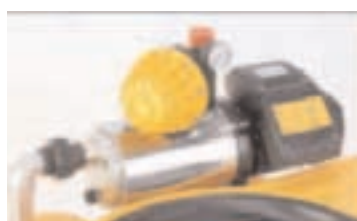
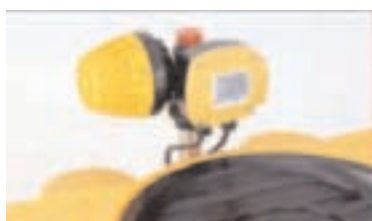
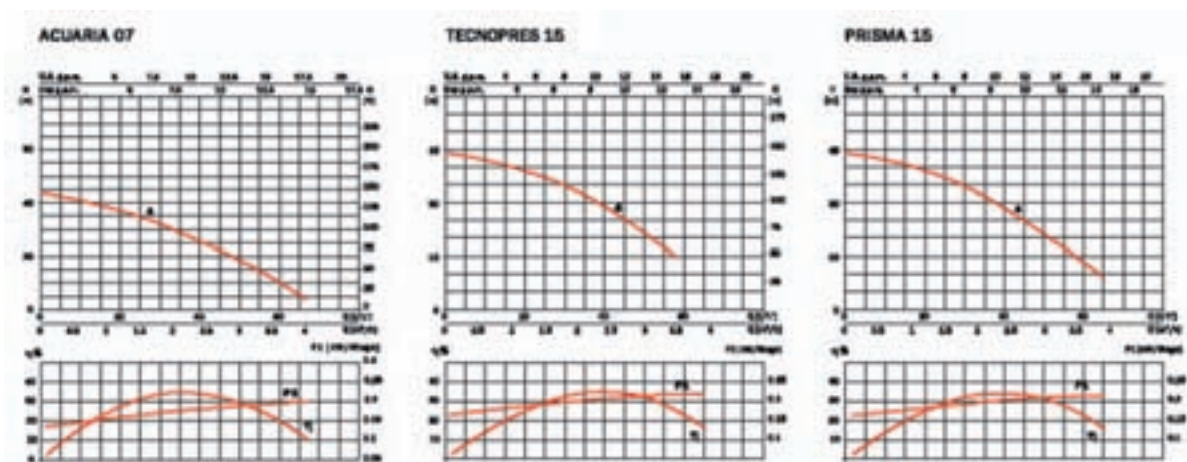
The tank has an overflow outlet which helps to prevent the potable water from the public water supply becoming polluted in the event of refluxes and in compliance with the EN 1717 European quality standard.

Dimensions and weights				
AQUABOX Models with Pump	Weights table		Capacity (litres)	Maximum height H (m)
	Weight when empty (kg)	Weight when full of water (kg)		
Acoustic	34,5	205	150	3,30
Tecnopres	30,5	200	150	3,06
Pilona	34,5	200	150	3,20



# Aquabox

Compact automatic set for storing and supplying pressurised water



Single phase	Price	Kw	Type	Tank capacity	Inlet	Outlet	DBA
Aquabox 300 AC 07 3M	755	0.37	Acuaría 07 3M	180 Ltrs	1"	1"	53/59
Aquabox 300 AC 07 4M	768	0.55	Acuaría 07 4M	180 Ltrs	1"	1"	53/59
Aquabox 300 AC 07 5M	824	0.75	Acuaría 07 5M	180 Ltrs	1"	1"	53/59
Aquabox 300 PR 15 4M	737	0.55	Prisma 15 4M	180 Ltrs	1"	1"	61/62
Aquabox 300 TP 15 4M	882	0.55	Tecnopres 15 4M	180 Ltrs	1"	1"	53/59
Aquabox 300 TP 15 5M	904	0.66	Tecnopres 15 5M	180 Ltrs	1"	1"	53/59

# Domestic boosting and pressurisation



## Applications

Automatic supply of water whilst maintaining constant system pressure.

## Configuration

These domestic booster pump sets can be built in various configurations using different types of pumps, vessels and control devices.

For assistance in your selection please contact our technical sales team.



Pressure

Single phase	Code for set using Pressure vessel	Code for set using Pressure stat	Price	kW	HP	Size of vessel	Position of vessel
PER 50M	P50/03	P50/05	236	0.37	0.5	3 Ltr or kit	Vertical
Delta 505 M	D505/08	D505/05	252	0.37	0.5	8 ltr or kit	Vertical
Delta 505 M	D505/24		291	0.37	0.5	24 ltr	Horizontal
Delta 755 M	D755/08	D755/05	259	0.5	0.75	8 ltr or kit	Vertical
Delta 755 M	D755/24		297	0.5	0.75	24 ltr	Horizontal
Delta 1005M	D1005/08	D1005/05	263	0.75	1.0	8 ltr or kit	Vertical
Delta 1005M	D1005/24		300	0.75	1.0	24 ltr	Horizontal
Delta 1755M	D1755/08	D1755/05	330	0.75	1.0	8 ltr or kit	Vertical
Delta 1755 M	D1755/24		365	0.75	1.0	24 ltr	Horizontal
Tecno 25.3 M	T25.3/18	T25.3/05	316	0.75	1.0	18 ltr or kit	Vertical
Tecno 25.3 M	T25.3/24		352	0.75	1.0	24 ltr	Horizontal
Tecno 25.4M	T25.4/18	T25.4/05	328	0.9	1.25	18 ltr or kit	Vertical
Tecno 25.4 M	T25.4/24		362	0.92	1.25	24 ltr	Horizontal
Tecno 25.5 M	T25.5/18	T25.5/05	360	1.1	1.5	18 ltr or kit	Vertical
Tecno 25.5 M	T25.5/24		395	1.1	1.5	24 ltr	Horizontal
Aspri 35.3 M	C35.3/24		539	1.1	1.5	24 ltr	Horizontal
Aspri 35.3 M		C35.3/05	507	1.1	1.5	kit	Vertical
Aspri 35.4M	C35.4/24		567	1.5	2.0	24 ltr	Horizontal
Aspri 35.4M		C35.4/05	537	1.5	2.0	kit	Vertical



# ESC

## Pressurisation units



### Applications

ESPA Pressurisation equipment automatically controls the pressure in a sealed system, delivering water at a pre-determined pressure.

Once the system has been filled the unit will take over and maintain the optimum system conditions.

Should a loss of water occur in the system, for any reason, the built-in pressure sensor will detect the drop in pressure and automatically start the pump restoring the system to the original cold fill pressure.

These units are available in single or duty/standby configurations, If the duty pump should fail the standby pump will automatically take over the duty function (on all twin pump units).

All ESC units incorporate dry run protection. If the supply tank should run dry the pump will automatically stop, preventing serious damage.

The ESC units with a vessel are a package set all mounted on a chassis.

Model	Voltage	FLC each pump	Kw	Outlet size	CPF max	Price
ES1000	230v 1/50Hz	2.1 Amps	0.37	15mm	2.8 Bar	<b>631</b>
ESC1000	230v 1/50Hz	2.1 Amps	0.37	15mm	2.8 Bar	<b>748</b>
ESC1000IC	230v 1/50Hz	2.1 Amps	0.37	15mm	2.8 Bar	<b>1,182</b>
ESC1000IC.60	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,573</b>
ESC1000IC.100	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,618</b>
ESC1000IC.150	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,682</b>
ESC1000IC.200	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,726</b>
ESC1000IC.300	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,094</b>
ESC1000IC.500	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,347</b>
ESC2000	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,124</b>
ESC2000IC	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,552</b>
ESC2000IC.60	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,940</b>
ESC2000IC.100	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>1,989</b>
ESC2000IC.150	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,052</b>
ESC2000IC.200	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,097</b>
ESC2000IC.300	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,466</b>
ESC2000IC.500	230v 1/50Hz	2.1 Amps	0.37	22mm	2.8 Bar	<b>2,719</b>
ZHLPS2	High/low pressure switch kit					<b>99</b>

#### Dimensions

Model	Length	Width	Height
ES1000	600	550	450
ESC1000	468	300	770
ESC2000	468	300	770

# Pressurisation units with LED display

# ESPRES

## Features

- Set point and differential can be adjusted with an accuracy of 0.1 bar. (user set)
- High Pressure and Low Pressure alarms can be set with an accuracy of 0.1 bar. Alarm relay and onboard buzzer. Auto rest. (user set)
- Dry run protection with auto reset (Low level switch)
- Flood protection – maximum pump run timer can be set in increments of 10 minutes up to 990 minutes and 0 to disable function. Alarm relay and onboard buzzer. Manual reset (user set)
- Single or dual pump, configurable in the parameters
- Auto changeover on dual pump setting
- Pump current monitoring. If a fault (excess current) is detected it will isolate the pump and sound alarm. On dual pump versions it will automatically activate the second pump until the process is complete
- Continuous pressure displayed on screen
- Hours run of each pump
- Log of number of alarms
- Alarm messages displayed on screen
- Internal buzzer with mute and reset
- Activation delay to stop false starts
- Common alarm volt-free or powered output. Switchable between N/O or N/C
- 8 amp relays for pumps and alarm
- RS485 output for communication to BMS or with external modules which will enable communication via

LON protocols, etc. (modules optional extra)

- 3 digit high visibility LED display
- Simple cassette-style case with screw terminals at rear
- IP68 fascia
- Intelligent overrun on pump to prevent repetitive starts and guarantee set point is achieved
- 60-day pulse of pump to prevent seizing and flush pump
- Switched input for bag rupture device
- Keypad lock function to prevent tampering

- Safe low voltage user interface
- CE and EMC approved
- Proven reliable technology

## Dimensions

Model	Length	Width	Height
ESPRES 1000	600	550	770
ESPRES 2000	468	300	770

Model	Voltage	FLC each pump	Kw	Outlet	CPF max	Price
ESPRES 1000	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,027
ESPRES 2000	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,160
ESPRES 1000.60	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,365
ESPRES 1000.100	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,405
ESPRES 1000.150	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,460
ESPRES 1000.200	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,498
ESPRES 1000.300	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,817
ESPRES 1000.H	230v 1ph/50Hz	3.8 Amps	1.00	15mm	5.0 Bar	1,200
ESPRES 2000.60	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,496
ESPRES 2000.100	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,538
ESPRES 2000.150	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,593
ESPRES 2000.200	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,632
ESPRES 2000.300	230v 1ph/50Hz	2.1 Amps	0.37	15mm	3.5 Bar	1,951
ESPRES 2000.H	230v 1ph/50Hz	3.8 Amps	1.00	15mm	5.0 Bar	1,307

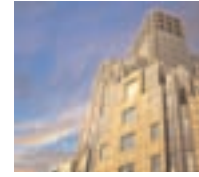
H = for sets with higher cold fill pressure of 5.0 Bar.



Pressure

# Booster sets

## Standard booster sets Fixed speed



**Pressure switch controlled Booster series. Fully automatic units, for commercial and domestic applications.**

ESPA-packaged booster sets are designed to provide an efficient solution to water boosting applications where existing supplies are unreliable, or insufficient to meet the demands of commerce and industry.

ESPA Hydro Pneumatic boosters are built with the traditional principals of pressure switch control, whilst at the same time embracing the best in modern materials and production techniques.

Due to their compact design, ESPA boosters offer a small footprint in relation to performance. Installation is straightforward, with site work usually limited to connecting the pipework and the provision of a suitable electrical supply.

### Materials

- Stainless steel suction and discharge manifolds.

- WRAS approved pump on SV. Tecno late 2006.



- Steel chassis finished in black epoxy powder coating.
- Stainless steel ball valves on each pump, providing individual isolation if necessary.
- Anti-vibration mounts as standard.
- Plastic enclosure panel IP55, incorporating the following:
  - Door interlocked isolator
  - Hand/Off/Auto switch for each pump
  - Minimum run timer for each pump
  - Pressure switch control providing Duty Standby or Duty Assist
  - Alternate pump start relay
  - Auxiliary input for low/high level switch
  - Volt-free contacts for BMS output.
- Full documentation is provided with each booster.
- **Free-standing pressure vessel (supplied loose, price to be added from page 96).**

Single phase	Price	Three phase	Price	Vessel size	Type of pump	Flow in m <sup>3</sup> /h	Pressure in Bar	Suction	Discharge	Kw
<b>2TEC15.3M</b>	<b>1,756</b>	<b>2TEC15.3T</b>	<b>1,756</b>	60 ltrs	Tecno 15.3	3.50	3.00	2"BSPM	2"BSPM	0.37
<b>2TEC15.4M</b>	<b>1,786</b>	<b>2TEC15.4T</b>	<b>1,786</b>	60 ltrs	Tecno 15.4	3.50	4.00	2"BSPM	2"BSPM	0.55
<b>2TEC15.5M</b>	<b>1,811</b>	<b>2TEC15.5T</b>	<b>1,811</b>	60 ltrs	Tecno 15.5	3.50	5.00	2"BSPM	2"BSPM	0.66
<b>2TEC25.3M</b>	<b>1,840</b>	<b>2TEC25.3T</b>	<b>1,840</b>	60 ltrs	Tecno 25.3	6.50	3.00	2"BSPM	2"BSPM	0.75
<b>2TEC25.4M</b>	<b>1,913</b>	<b>2TEC25.4T</b>	<b>1,913</b>	60 ltrs	Tecno 25.4	6.50	4.00	2"BSPM	2"BSPM	0.92
<b>2TEC25.5M</b>	<b>1,985</b>	<b>2TEC25.5T</b>	<b>1,985</b>	60 ltrs	Tecno 25.5	6.50	5.00	2"BSPM	2"BSPM	1.1
<b>2SV803M</b>	<b>4,295</b>	<b>2SV803T</b>	<b>4,295</b>	200 ltrs	SV803	13.00	4.00	3"BSPM	3"BSPM	1.5
		<b>2SV804T</b>	<b>4,401</b>	200 ltrs	SV804	13.00	5.50	3"BSPM	3"BSPM	2.2
		<b>2SV806T</b>	<b>5,122</b>	200 ltrs	SV806	13.00	8.00	3"BSPM	3"BSPM	3.0
		<b>2SV1603T</b>	<b>4,752</b>	300 ltrs	SV1603	23.00	5.00	3"BSPM	3"BSPM	3.0
		<b>2SV1604T</b>	<b>5,187</b>	300 ltrs	SV1604	23.00	7.00	3"BSPM	3"BSPM	4.0
		<b>2SV1605T</b>	<b>6,170</b>	300 ltrs	SV1605	23.00	8.50	3"BSPM	3"BSPM	5.5

Cabinet enclosed  
variable speed

# Booster sets

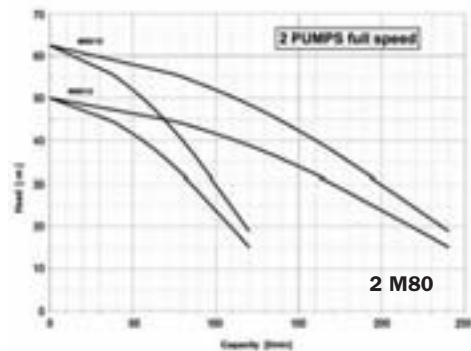
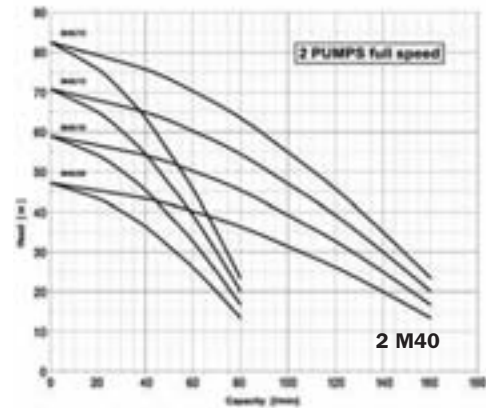
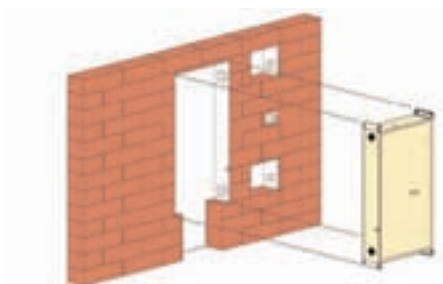


## Applications

Domestic water supply.  
Horticultural irrigation.  
Small industrial water supply system.  
Pumping water to increase pressure in general.

## Description

2 x Submersible single phase pumps.  
Single phase inverter with pressure transducer.  
Quiet operation – 54dB for 1 pump at full speed, 61 dB for both at full speed.  
Steel cabinet, with pipe connections on left or right.  
Can be wall or floor mounted.  
Compact size – only 700mm W x 1320mm H x 200mm D.  
Simple to install and commission.  
Maximum flow = 240 lts/min, maximum pressure = 80 mts.  
Installation: Embedding on wall or to floor (through support feet).  
Connections: 1½" bsp suction and discharge.  
Standard: Machinery directive 98/37/EEC.



Pressure

- + Quiet operation**
- + Energy-saving design**
- + Compact size**
- + Wall or floor mounting**

Model	Price	Kw each pump	FLC each pump
2CBE M40/08 R	3,080	0.60	4.3
2CBE M40/10 R	3,094	0.75	5.7
2CBE M40/12 R	3,113	0.90	6.8
2CBE M40/15 R	3,120	1.10	7.3
2CBE M80/12 R	3,091	0.90	6.4
2CBE M80/15 R	3,111	1.10	7.5
2CBE M40/08 L	3,080	0.60	4.3
2CBE M40/10 L	3,094	0.75	5.7
2CBE M40/12 L	3,113	0.90	6.8
2CBE M40/15 L	3,120	1.10	7.3
2CBE M80/12 L	3,091	0.90	6.4
2CBE M80/15 L	3,111	1.10	7.5

R = Connections on the right and L = Connections on the left.  
The above prices are each net.



# Booster sets

Low cost  
variable speed

## Applications

Fully automatic variable speed units, for commercial and domestic applications.

ESPA In-Line Inverter booster sets are designed to provide an efficient solution to water boosting applications where existing supplies are unreliable or insufficient to meet the demands of commerce and industry.

ESPA variable speed booster sets embrace the best in modern control techniques, whilst holding true to the traditional principles of quality engineering.

Due to the compact design ESPA booster sets offer a small footprint in relation to performance. Installation is straightforward, with site work usually limited to connecting site pipe work and the provision of a suitable electrical supply.

## Features

- \* Stainless steel suction and discharge manifolds AISI 304
- \* Steel chassis finished in black epoxy coating
- \* WRAS approved nickel plated brass ball valves on each pump providing individual isolation if necessary
- \* Anti-vibration mounts as standard.
- \* 18 Ltr Pressure vessel
- \* On/Off isolator and MCBs
- \* In-line inverter which comprises:
  - An inverter
  - A pressure sensor (constant pressure)
  - A flow sensor (dry run protection)
- \* Full documentation is provided with each booster set.
- \* Built and tested at our North Essex factory
- \* WRAS approved pumps if specified

## ESPA In-Line inverter advantages

- \* An innovative system that can be used with a variation of pump types including multistage and single stage



- \* Saves energy, silent running, compact, and can extend the life of the pump
- \* Designed to vary the frequency (Hz) of the pump in order to keep the hydraulic system at a constant pressure
- \* Interface is user friendly, allowing easy use to calibrate pressure set points, view error messages, and setting
- \* Works directly on the hydraulic manifold and installed on the discharge pipeline of the booster set.

Single phase	Price	Three phase	Price	Type of pump	Suction	Discharge
2TEC15.4M.DIW/18	2,442	2TEC15.4.DIW/18	3,628	Tecno 15.4	2" BSPM	2" BSPM
2TEC15.5M.DIW/18	2,663	2TEC15.5.DIW/18	3,819	Tecno 15.5	2" BSPM	2" BSPM
2TEC25.4M.DIW/18	2,524	2TEC25.4.DIW/18	3,711	Tecno 25.4	2" BSPM	2" BSPM
2TEC25.5M.DIW/18	2,995	2TEC25.5.DIW/18	3,791	Tecno 25.5	2" BSPM	2" BSPM

## Bespoke package booster sets

# Booster sets

### Applications

ESPA Inverter booster sets are designed to provide an efficient solution to water boosting applications where existing supplies are unreliable or insufficient to meet the demands of commerce and industry.

ESPA variable speed booster sets embrace the best in modern control techniques, whilst holding true to the traditional principles of quality engineering.

Due to the compact design ESPA booster sets offer a small footprint in relation to performance. Installation is straightforward, with site work usually limited to connecting site pipe work and the provision of a suitable electrical supply.

### Features

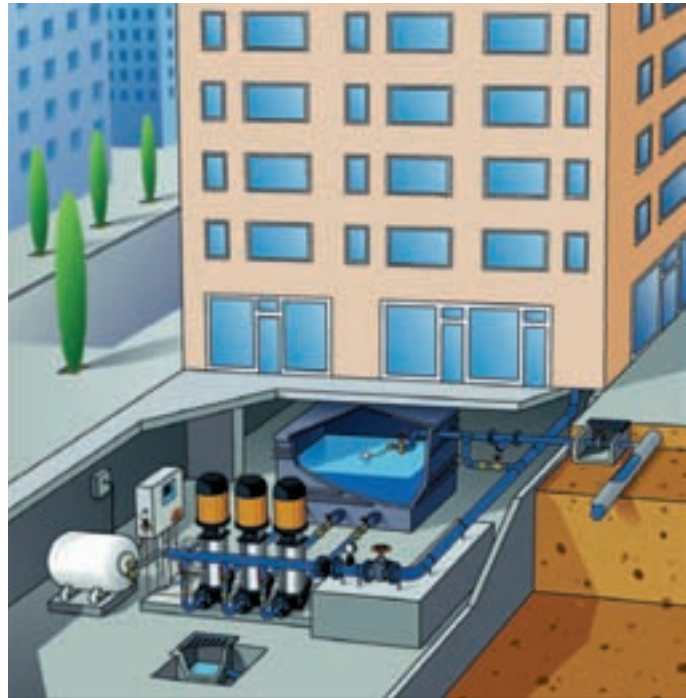
- \* Stainless steel suction and discharge manifolds AISI 304 – Copper optional
- \* Steel chassis finished in black epoxy coating
- \* WRAS approved nickel plated brass ball valves on each pump providing individual isolation if necessary
- \* Anti-vibration mounts as standard.
- \* Steel enclosed panel IP54, incorporating the following features:
  - One or more Danfos inverter(s) (depending on control choice)
  - Door interlocked isolator
  - Pump controller via transducer
  - Hand/Off/Auto parameter for each pump
  - Duty pump alteration by software control
  - Auxiliary input for low water via probe in suction manifold
  - Volt-free contacts for BMS output
- \* Full documentation is provided with each booster set.
- \* Built and tested at our North Essex factory

### Optional panel Extras

- \* Tank Selector Switch
- \* Anti Condensation Heater in panel or on pumps
- \* GPS modem (GPS sim card by others)
- \* WRAS approved pumps if specified

### ESPA Control Panel advantages

- \* Major feature – Every time power to the booster set is interrupted, on resumption of power the controller cycles through a “filling system” programme. This eliminates pipe work failure due to hydraulic shock
- \* Can control up to six frequency controlled pumps directly via inverter “data bus”
- \* Jockey pumps can be two off and variable speed as well as fixed speed operation



Pressure



- \* On a large pump system – has a “standard anti-cavitation programme” to stop damage occurring to pumps on large multi-pump sets
- \* Pump alternation can be time of day/week OR on hours run. Total flexibility
- \* Password protection.

# Booster sets

## Bespoke package booster sets



### **Fixed speed booster sets**

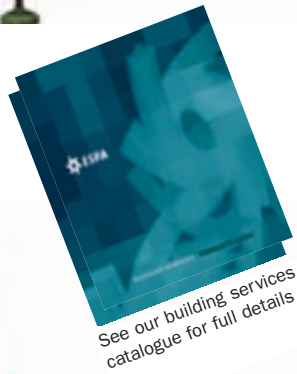
Transducer controlled booster series. Fully automatic units for commercial and domestic applications.

Espa fixed speed boosters can be built to customer specification providing automatic control of multiple single and three phase pumps, in either Duty/Standby, Duty/assist and Duty/Assist/Standby.

### **Firetech booster sets**

Fire hose reel and wet riser systems. Fully automatic units for front line defence in commercial and large domestic premises.

Espa firetech booster sets are designed to provide a front line capability against fire outbreaks of fire.



Local Water Authorities increasingly prohibit the use of mains water for fire fighting installations. The Espa Firetech systems have been designed to solve this problem, complying with the requirements of BS5306-1 1976, they are built with the traditional principals of pressure switch activation; whilst at the same time embrace the best in modern materials, production techniques.

Pressure and flow requirements will depend on the size of the hose reels and height of buildings. Espa Firetech boosters can meet all flow demands with pressures up to 15 Bars.

**Full specification available on request.**



# Pumps for circulation of above ground swimming pools

## Basic



### Applications

Recirculation of small portable pools and aquariums.

### Materials

#### Pump Body

Glass loaded polypropylene.

#### Impeller

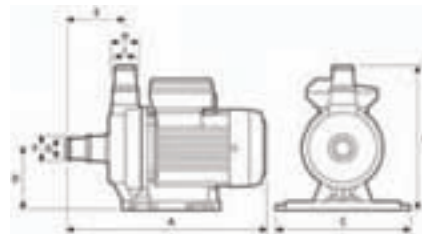
Glass loaded Noryl.

#### Motor Shaft

Stainless steel. AISI 420.

#### Mechanical Seal

Graphite and alumine.



	A	B	C	D	E	F	G	H	I	Kg
Basic	305	219	204	94	90	38	32	38	32	4.5

### Motor

Classe F insulation.  
IP 55 Protection.  
Continuous operation.  
Built-in thermal protection.

### Equipment

Suction and discharge tails to suit  
32 - 38 mm diameter flexible pipes.



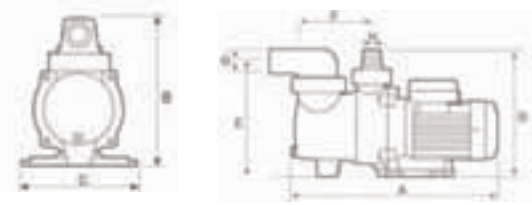
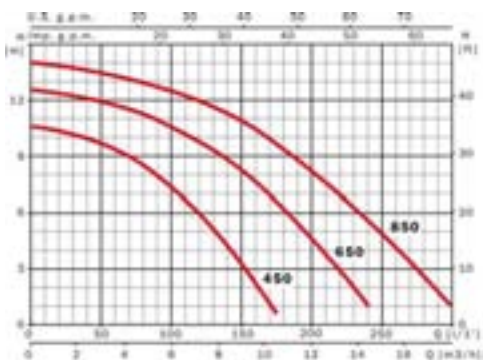
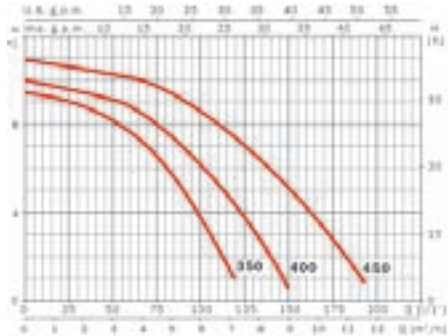
Single phase	Price	A			P1 (kW)		kW	HP	μF	Flow [m³/h]	Manometric head [m]							
		1~ 230 V	3~ 230 V   400 V		1~	3~					2	2,5	3	3,5	4	4,5	5	5,5
Basic	167	1.4	-	-	0.24	-	0.15	0.2	6	5.8	5	4.3	3.5	3.2	2.5	1.6	0.8	

Reversed Table

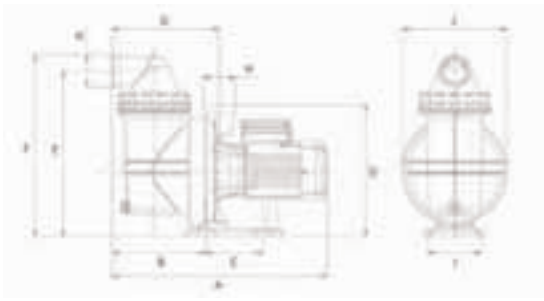


# Niper

Pumps for circulation and filtration of above ground swimming pools



	A	B	C	D	E	F	G	H	Kg
Niper1 350	405	262	204	250	231	158	38	38	5.1
Niper2 400	405	262	204	250	231	158	38	38	5.1
Niper2 450	415	262	204	250	231	158	38	38	5.8



**+** *Sea water*

**+** *Quiet running*

### Applications

Recycling of water from small portable swimming pools.

### Materials

#### Pump Body

Glass loaded Polypropylene.

#### Impeller

Glass loaded Noryl.

#### Diffuser

Glass loaded Polypropylene.

#### Motor Shaft

Stainless steel. AISI 420.

#### Mechanical Seal

Graphite and alumine.

### Motor

Class F insulation.  
IP 55 Protection.  
Continuous operation.

### Equipment

38mm Hose tail connections for flexible hoses.

	A	B	C	D	E	F	G	H	I	J	Kg
Niper3 450	473.3	190.5	115	264.5	333.5	366.4	217.3	2 <sup>3/4"</sup>	108	212	7.4
Niper3 650	473.3	190.5	115	264.5	333.5	366.4	217.3	2 <sup>3/4"</sup>	108	212	7.7
Niper3 850	473.3	190.5	115	264.5	333.5	366.4	217.3	2 <sup>3/4"</sup>	108	212	8.4

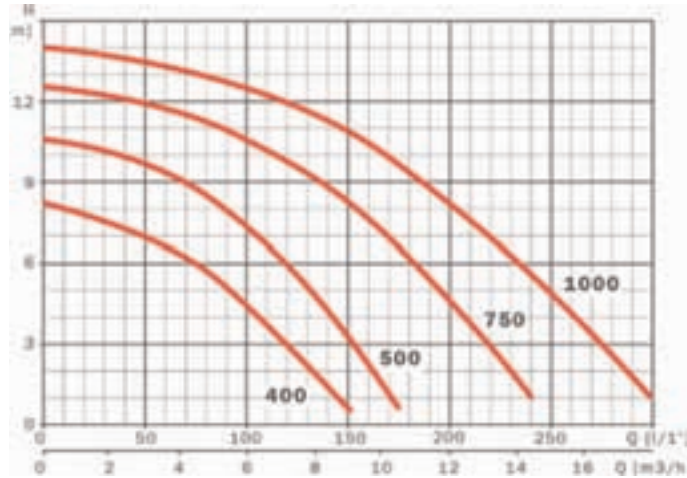
Single phase	Price	A			P1 (kW)		kW	HP	µF	Manometric head [m]							
		1~ 230 V	3~		1~	3~				2	4	5	6	7	8	9	10
			230 V	400 V													
Niper1 350 M	177	1.34	-	-	0.27	-	0.18	0.25	6	6.8	6	5.5	5	4	3.3	1.7	-
Niper2 400 M	229	1.53	-	-	0.32	-	0.18	0.25	6	9.5	8.5	7.8	7	6.2	5.5	4.2	2.4
Niper2 450 M	234	1.97	-	-	0.43	-	0.25	0.33	12	12	10	9.5	8.5	8	7	5.7	3.8
Niper3 450 M	366	2	-	-	0.45	-	0.25	0.33	12	10	9	8.5	7	6	4	3	0.5
Niper3 650 M	372	2.8	-	-	0.65	-	0.37	0.5	12	12	11.5	11	10.5	9.5	9	8	7
Niper3 850 M	382	3.8	-	-	0.85	-	0.75	1	12	13.8	13	12.8	12.5	12	11.5	11	10

Reversed Table



# Self priming filtration pumps for above ground swimming pools

# Iris



## Applications

Recycling and filtration of small and medium size swimming pools.

## Materials

### Pump Body

Glass loaded polypropylene.

### Impeller

Glass loaded Noryl.

### Diffuser

Glass loaded polypropylene.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

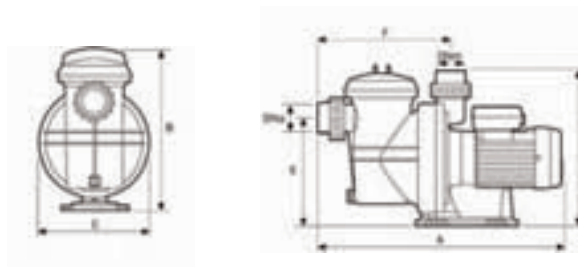
Class F insulation.

IP 55 Protection.

Continuous operation.

With built-in thermal protection.

MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~		1~	3~			
		230 V	400 V					
Iris 400	1.4	-	-	0.3	-	0.18	0.25	6
Iris 500	2	1.9	1.1	0.45	0.45	0.25	0.33	12
Iris 750	2.8	2.1	1.2	0.65	0.65	0.37	0.5	12
Iris 1000	3.8	2.9	1.7	0.85	0.8	0.75	1	12



	A	B	C	D	E	F	DNa	DNm	Kg
Iris 400	475	311.5	212	301	210	257	50	50	7.1
Iris 500	475	311.5	212	301	210	257	50	50	7.4
Iris 750	475	311.5	212	301	210	257	50	50	7.7
Iris 1000	475	311.5	212	301	210	257	50	50	8.4

## Limitations

Maximum suction lift 4 m.

## Equipment

Supplied with suction and discharge unions in metric or imperial.



**+ Quiet running**

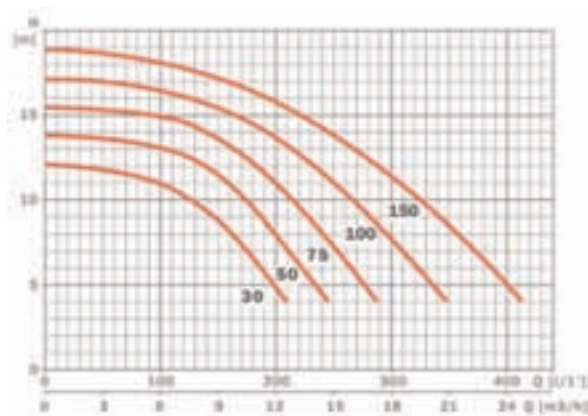
**+ Sea water**

Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]								
					1.5	3	4.5	6	9	12	15	17.4	
Iris 400 M	243			7.7	7.7	6.9	6.0	4.5	0.6				
Iris 500 M	262	Iris 500 T	262		10.2	9.7	8.6	7.2	3.2				
Iris 750 M	273	Iris 750 T	273		12.3	11.9	11.3	10.5	8.1	4.6			
Iris 1000 M	283	Iris 1000 T	283		13.8	13.3	13	12.5	10.8	8.1	4.8	1.8	

Reversed Table

# Silen

Self priming pumps for circulation and filtration of swimming pools



## Applications

Recycling and filtration of medium and large swimming pools.

## Materials

### Pre-filter capacity

0.9 Litres

### Pump Body

Glass loaded polypropylene.

### Impeller

Glass loaded Noryl.

### Diffuser

Glass loaded polypropylene.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.

IP 55 Protection.

Continuous operation.

Single phase with built-in thermal protection.

## Limitations

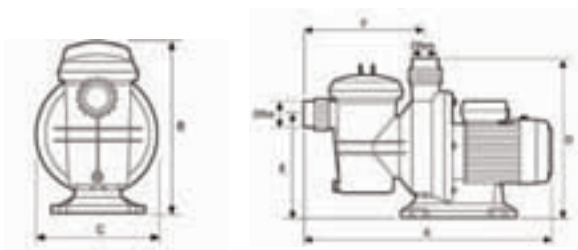
Maximum suction lift 4m.



## Equipment

Supplied with suction and discharge unions in metric or imperial.

MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V 400 V		1~	3~			
<b>Silen 30</b>	3	2.5	1.4	0.7	0.7	0.25	0.33	16
<b>Silen 50</b>	3.7	2.6	1.5	0.8	0.9	0.37	0.5	16
<b>Silen 75</b>	5.5	3.8	2.2	1.2	1.3	0.55	0.75	16
<b>Silen 100</b>	6.2	4.3	2.5	1.4	1.5	0.75	1	16
<b>Silen 150</b>	7.1	4.8	2.8	1.5	1.5	1.1	1.5	25



	A	B	C	D	E	F	DNa	DNm	Kg
<b>Silen 30</b>	532	330	238	345	240	257	50	50	8.4
<b>Silen 50</b>	532	330	238	345	240	257	50	50	9.4
<b>Silen 75</b>	532	330	238	345	240	257	50	50	10.7
<b>Silen 100</b>	532	330	238	345	240	257	50	50	11.4
<b>Silen 150</b>	532	330	238	345	240	257	50	50	12.1

**+** Sea water

**+** Quiet running

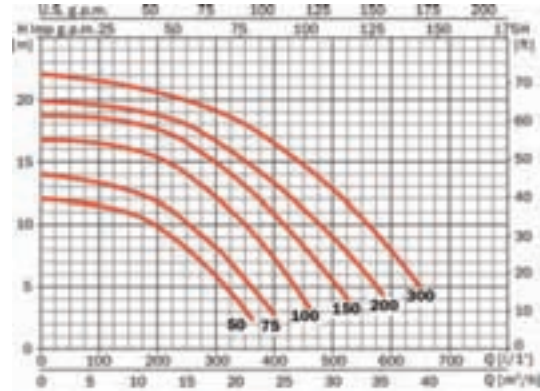
Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]								
					4	6	8	9	10	11	12	14	
<b>Silen 30 M</b>	<b>292</b>	<b>Silen 30 T</b>	<b>292</b>	12.5	11	10	9	7.5	6	3	-		
<b>Silen 50 M</b>	<b>293</b>	<b>Silen 50 T</b>	<b>293</b>	15	13.5	12	11	10	9	8	-		
<b>Silen 75 M</b>	<b>303</b>	<b>Silen 75 T</b>	<b>303</b>	17	16	14.5	14	12.5	12	11	7.5		
<b>Silen 100 M</b>	<b>311</b>	<b>Silen 100 T</b>	<b>311</b>	21	19.5	18	17	16.5	15	14.5	12		
<b>Silen 150 M</b>	<b>358</b>	<b>Silen 150 T</b>	<b>358</b>	25	23	21	20.5	19.5	18.5	17	14.5		

Reversed Table



# Self priming pumps for circulation and filtration of swimming pools

## Silen 2



**+** Quiet running

### Applications

Recycling and filtration of medium and large swimming pools.

### Materials

**Pre-filter capacity**

1.9 Litres

**Pump Body**

Glass loaded polypropylene.

**Impeller**

Glass loaded Noryl.

**Diffuser**

Glass loaded polypropylene.

**Motor Shaft**

Stainless steel. AISI 420.

**Mechanical Seal**

Graphite and alumine.

### Motor

Class F insulation.

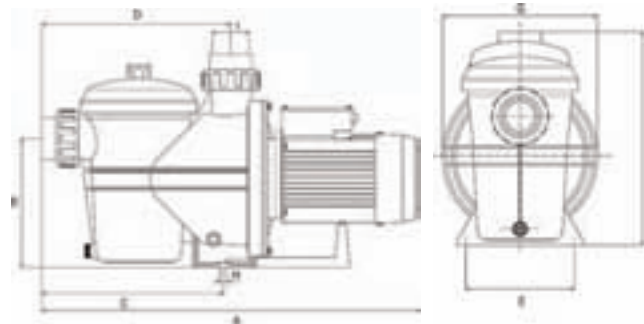
IP 55 Protection.

Continuous operation.

Single phase with built-in thermal protection.



MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230V	230V	3~ 400V	1~	3~			
<b>Silen2 50</b>	4.1	3.5	2.0	0.9	0.9	0.55	0.75	25
<b>Silen2 75</b>	4.5	3.8	2.2	1.0	1.0	0.55	0.75	25
<b>Silen2 100</b>	7	4.8	2.8	1.5	1.6	0.92	1.25	25
<b>Silen2 150</b>	8.5	5.3	3.1	1.9	1.9	1.1	1.5	25
<b>Silen2 200</b>	9.7	6.5	3.8	2.2	2.2	1.5	2.0	30
<b>Silen2 300</b>	12.5	8.6	5	2.8	2.6	2.2	3.0	60



### Limitations

Maximum suction lift 4m.

**+** Sea water

### Equipment

Supplied with suction and discharge unions in metric or imperial.

	A	B	C	D	E	F	G	H	I	KG
<b>Silen2 50</b>	665.5	222	314.5	327	118	368	268	13mm	63mm	13
<b>Silen2 75</b>	665.5	222	341.5	327	118	368	268	13mm	63mm	14
<b>Silen2 100</b>	665.5	222	341.5	327	118	368	268	13mm	63mm	15
<b>Silen2 150</b>	665.5	222	341.5	327	118	368	268	13mm	63mm	18
<b>Silen2 200</b>	665.5	222	341.5	327	118	368	268	13mm	63mm	21
<b>Silen2 300</b>	651.5	222	341.5	327	118	368	268	13mm	63mm	23



Single phase	Price	Three phase	Price
<b>Silen2 50M</b>	<b>324</b>	<b>Silen2 50T</b>	<b>324</b>
<b>Silen2 75M</b>	<b>327</b>	<b>Silen2 75T</b>	<b>327</b>
<b>Silen2 100M</b>	<b>336</b>	<b>Silen2 100T</b>	<b>336</b>
<b>Silen2 150M</b>	<b>367</b>	<b>Silen2 150T</b>	<b>367</b>
<b>Silen2 200M</b>	<b>400</b>	<b>Silen2 200T</b>	<b>400</b>
<b>Silen2 300M</b>	<b>452</b>	<b>Silen2 300T</b>	<b>452</b>



# Tifon 1

Self priming pumps for circulation and filtration of swimming pools



**+** Sea water

## Applications

Recycling and filtration of large swimming pools.

## Materials

### Prefilter Capacity

1.9 litres

### Pump Body

Glass loaded polypropylene.

### Impeller

Glass loaded Noryl.

### Diffuser

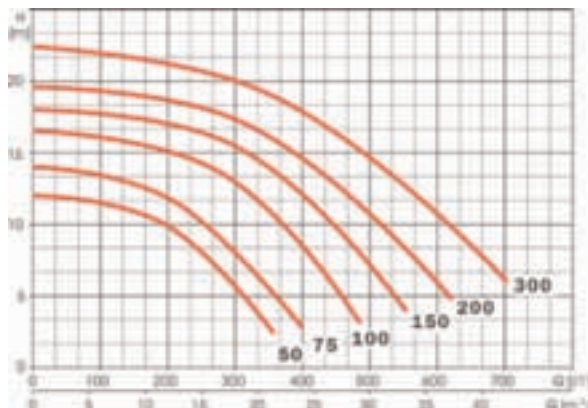
Glass loaded polypropylene.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

Graphite and alumine.



MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V 400 V		1~	3~			
Tifon1 50	4.1	3.2	1.9	0.9	0.9	0.37	0.5	25
Tifon1 75	4.8	3.4	2	1	1	0.55	0.75	25
Tifon1 100	6.5	4.4	2.6	1.5	1.4	0.75	1	25
Tifon1 150	7.5	4.9	2.9	1.7	1.7	1.1	1.5	25
Tifon1 200	8.9	6.1	3.6	2	1.9	1.5	2	30
Tifon1 300	12.5	7	4.2	2.8	2.4	2.2	3	60

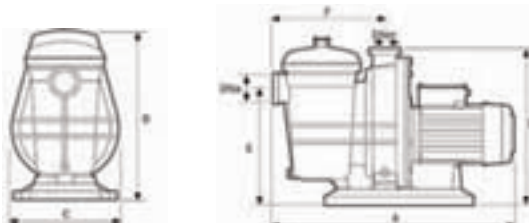
## Motor

Class F insulation.

IP 55 Protection.

Continuous operation.

Single phase with built-in thermal protection.



## Limitations

Maximum suction lift 4 m.

## Equipment

c/w suction and discharge unions in metric or imperial.

	A	B	C	D	E	F	DNa	DNm	Kg
Tifon1 50	600	429	268	397	295	284	63	63	13
Tifon1 75	600	429	268	397	295	284	63	63	14
Tifon1 100	600	429	268	397	295	284	63	63	15
Tifon1 150	600	429	268	397	295	284	63	63	18
Tifon1 200	600	429	268	397	295	284	63	63	21
Tifon1 300	600	429	268	397	295	284	63	63	23

Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]								
					6	8	10	12	14	16	18	20	
Tifon1 50 M	411	Tifon1 50 T	411	18	15	12	3	-	-	-	-	-	-
Tifon1 75 M	414	Tifon1 75 T	414	21	18	15	12	-	-	-	-	-	-
Tifon1 100 M	424	Tifon1 100 T	424	27	24	22	18	15	9	-	-	-	-
Tifon1 150 M	462	Tifon1 150 T	462	32	29	25	22	20	17	11	-	-	-
Tifon1 200 M	603	Tifon1 200 T	603	36	31	29	26	23	20	15	-	-	-
Tifon1 300 M	692	Tifon1 300 T	692	42	36	33	31	29	25	21	15	-	-

Reversed Table

# High pressure pumps for pools

# Pool M



## Applications

Operation with swimming pool cleaners, sea water, chlorinated water, demineralized water and ozonic water.

## Materials

### Pump Body

Glass loaded polymer.

### Impeller

Luranyl glass loaded polymer.

### Diffuser

Noryl, Glass loaded polymer.

### Motor Shaft

Inox. AISI 420.

### Mechanical Seal

Graphite and alumine.

### Motor Housing

Aluminium L-2521, windings impregnated with polyester resin.

## Motor

Class F insulation.

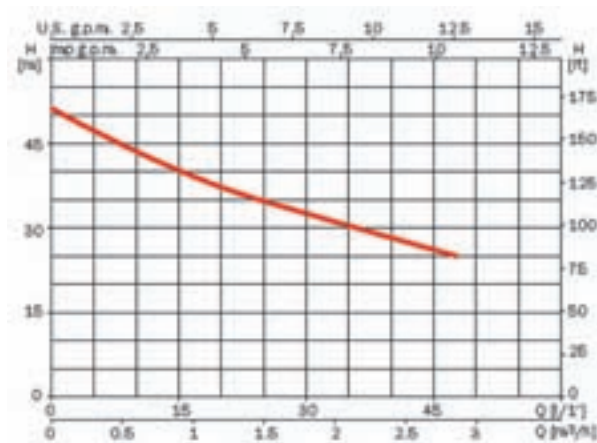
IP 55 Protection.

Continuous operation.

Single phase with built-in thermal protection.

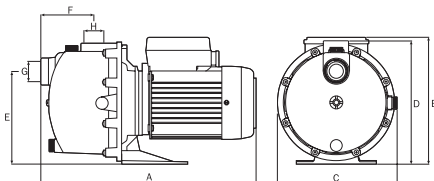
**+** *Sea water*

**+** *Low noise levels*



	A	B	C	D	E	F	DNa	DNm	Kg
Pool M	343	201.5	190	196	147	84.7	1"	1"	8.2

MODEL	A			P1 (kW)		kW	HP	µF
	1~	3~		1~	3~			
	230 V	230 V	400 V					
Pool M	5	3.3	1.9	1.1	1	0.97	1	16



Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]							
					10	20	25	30	35	40	45	50
					Pool M	238	Pool T	238	-	-	2.9	2.1

Reversed Table

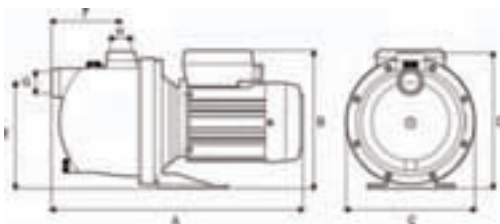
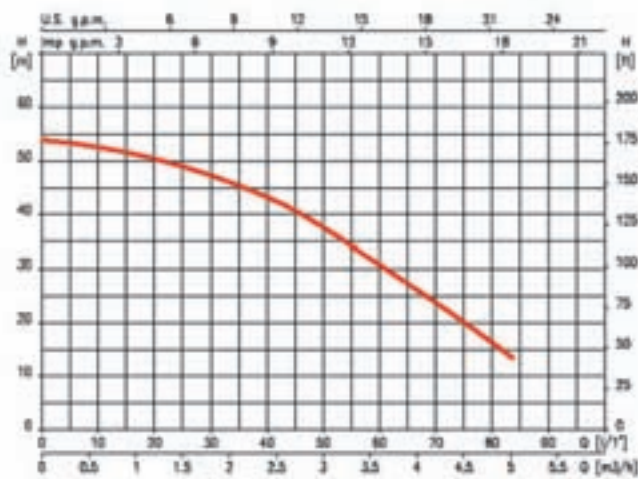
# Multipool Plus

High pressure pumps for pools



**+** Sea water

**+** Low noise levels



Pressure gauge with rotating glass.

## Applications

Operation with swimming pool cleaners, sea water, chlorinated water, demineralized water and ozonic water.

## Materials

### Pump Body

Glass loaded polymer (Noryl).

### Impeller

Stainless steel. AISI 316.

### Diffuser

Glass loaded polymer (Noryl).

### Motor Shaft

Stainless steel. AISI 316.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.  
IP 55 Protection.  
Continuous operation.  
Single phase with built-in thermal protection.

## Equipment

Flow regulator valve and pressure gauge with rotating glass and position signal.

	A	B	C	D	E	DNa	DNm	Kg
<b>Multipool Plus</b>	415	247.5	190	155	105	1"	1"	10.1

Single phase	Price	Three phase	Price	A		P1 (kW)		kW	HP	µF	1/1'								
				1~	3~	1~	3~				10	20	30	40	50	60	70	80	
				230 V	400 V	1~	3~				0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	
<b>Multipool Plus M</b>	<b>254</b>	<b>Multipool Plus T</b>	<b>254</b>	5.8	2.3	1.3	1.2	0.75	1	16		53	51	47	43	37	32	24	17

Automatic high pressure pumps for pools

# Multipool Tronic



## Applications

Operation with swimming pool cleaners, sea water, chlorinated water, demineralized water and ozonic water.

## Materials

### Pump Body

Glass loaded polymer (Noryl).

### Impeller

Stainless steel. AISI 316.

### Diffuser

Glass loaded polymer (Noryl).

### Motor Shaft

Stainless steel. AISI 316.

### Mechanical Seal

Graphite and alumine.

## Motor

Class F insulation.

IP 55 Protection.

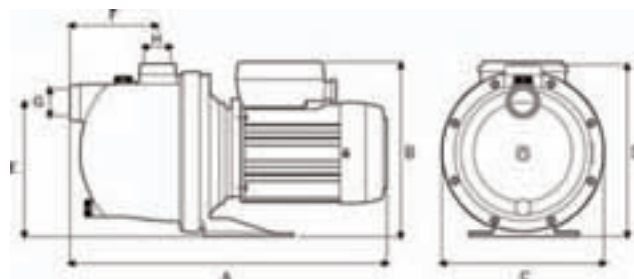
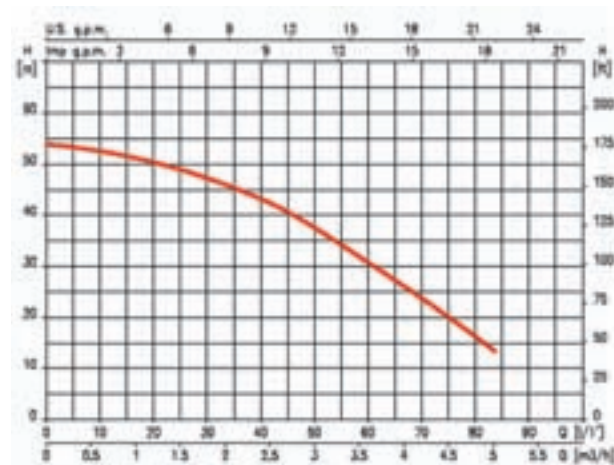
Continuous operation.

Single phase with built-in thermal protection.

## Equipment

Electronic programmer which controls automatic operation of the pump.

Flow regulator valve and pressure gauge with rotating glass and position signal.



	A	B	C	D	E	F	G	H	Kg
<b>Multipool Tronic</b>	370	203.5	190	201	155	103	1"	1"	10.1

230 V 50 Hz	A		P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V / 400 V	1~	3~			
<b>Multipool Tronic M</b>	6		1.3		0.5	0.75	16

		1/1'	10	20	30	40	50	60	70	80
<b>Single phase</b>	<b>Price</b>	m³/h	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
<b>Multipool Tronic</b>	<b>363</b>		53	51	47	43	37	32	24	17



# Multipool Tronic

Automatic high pressure pumps for pools



# Counter current pumps for swimming pools

# Nadorself (pump only)



## Applications

To swim against the current in public or private swimming pools.

## Materials

### Pump Body

Glass loaded polypropylene.

### Impeller

Glass loaded Noryl.

### Diffuser

Glass loaded polypropylene.

### Motor Shaft

Stainless steel. AISI 420.

### Mechanical Seal

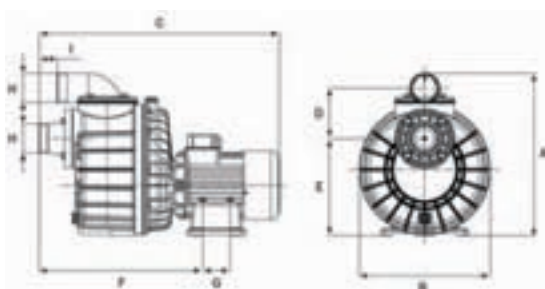
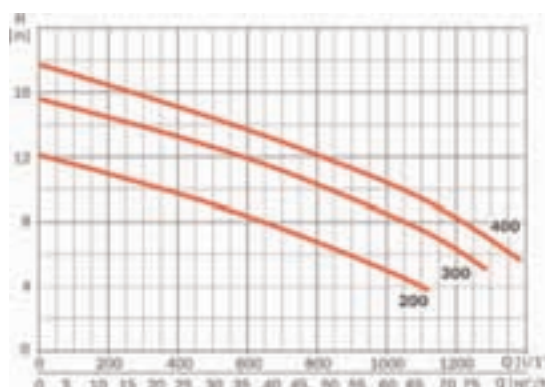
Graphite and alumine.

## Motor

Class F insulation.  
IP 55 Protection.  
Continuous operation.

## Limitations

Self priming up to 4 m



	A	B	C	D	E	F	G	H	I	Kg
<b>Nadorself 200</b>	416	335	625	130	248.5	418.5	70	2 <sup>1/2</sup> "	46.5	25.1/23.1
<b>Nadorself 300</b>	416	335	625	130	248.5	418.5	70	2 <sup>1/2</sup> "	46.5	26.1/23.1
<b>Nadorself 400</b>	416	335	625	130	248.5	418.5	70	2 <sup>1/2</sup> "	46.5	28

MODEL	A			P1 (kW)		kW	HP	µF
	1~ 230 V	3~ 230 V 400 V		1~	3~			
<b>Nadorself 200</b>	10.2	6.7	4	2.2	2.2	1.5	2	40
<b>Nadorself 300</b>	13.4	8.6	5	3	3	2.3	3	60
<b>Nadorself 400</b>	-	11.8	6	-	3.4	3	4	

<b>Unions (2<sup>1/2</sup>" f x 75mm f)</b>	<b>Price</b>
<b>Suction/Discharge</b>	<b>45</b>

Two unions to convert from threaded connection to 75mm solvent fit.

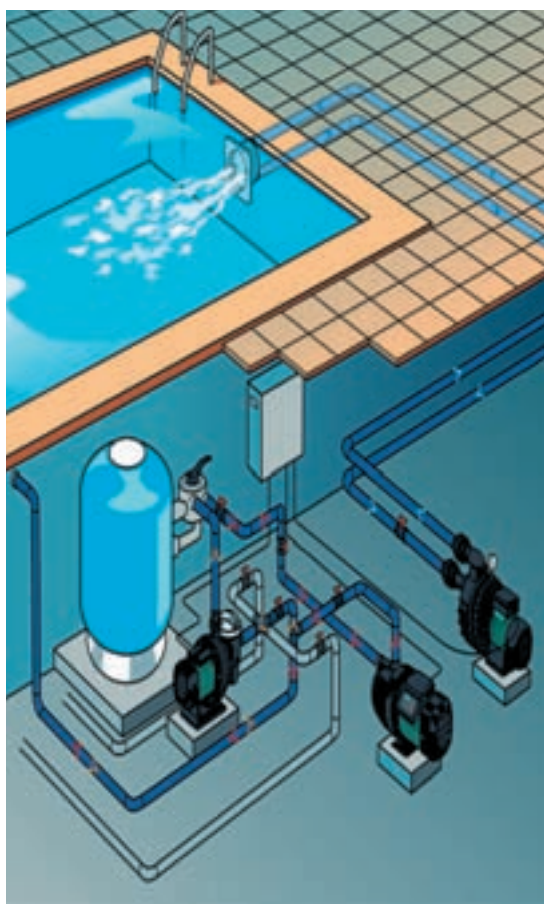
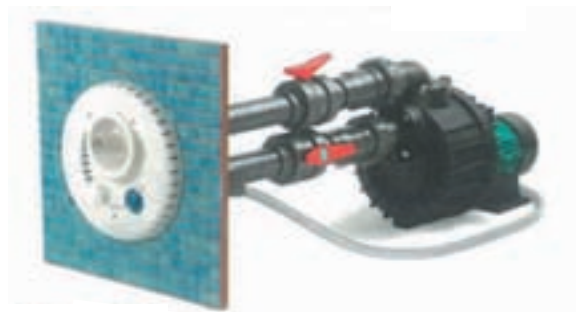
Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]								
					4	6	8	10	12	14	16	17	
<b>Nadorself 200 M</b>	<b>730</b>	<b>Nadorself 200 T</b>	<b>730</b>	67	54	39	22	3	-	-	-	-	-
<b>Nadorself 300 M</b>	<b>792</b>	<b>Nadorself 300 T</b>	<b>792</b>	-	73	63	50	35	15	-	-	-	-
		<b>Nadorself 400 T</b>	<b>813</b>	-	82	72	63	50	33	15	1	-	-

Reversed Table

# Nadorself (Pump c/w jet kit)

Counter current pumps for swimming pools

- +** *Self priming  
4 metres*
- +** *Remote installation  
possible*
- +** *Sea water*



## Applications

The Nadorself pump accompanied by the jet kit creates an adjustable current to swim against in private and public pools.

## Complete kit comprises:

### Nadorself Pump

See page 87 for specification.

### Jet Assembly (circular or rectangular)

Wall mounted unit comprises of one directional jet, one pneumatic on/off switch and one air control.

### Universal Adaptors

Adaptors plates are supplied to suit various types of pools.

### Control Device

Circuit breaker complete with pneumatic switch.  
Single and three phase.  
Maximum distance from pump 25m.

### Pneumatic Hose

10m of 4mm hose for on/off pneumatic switch.

### Air Tube

1.5m of 19mm tube for air supply to the jet.

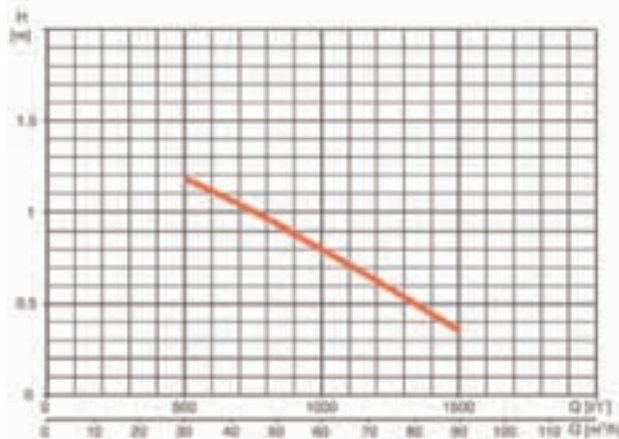


Single phase	Price	Three phase	Price	Flow [m³/h]	Manometric head [m]								
					4	6	8	10	12	14	16	17	
Nadorself 200 M	<b>1,513</b>	Nadorself 200 T	<b>1,513</b>	67	54	39	22	3	-	-	-	-	-
Nadorself 300 M	<b>1,576</b>	Nadorself 300 T	<b>1,576</b>	-	73	63	50	35	15	-	-	-	-
Unions	<b>45</b>	Nadorself 400 T	<b>1,596</b>	-	82	72	63	50	33	15	1	-	-

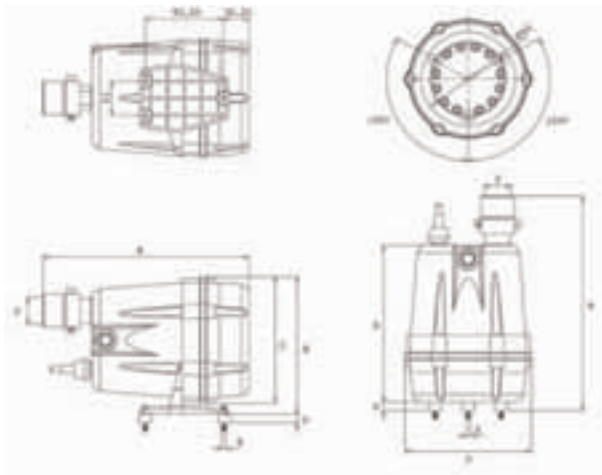




# Air blower | Vento



MODEL	A	P1 (kW)	
	1~ 230 V	1~	3~
Vento 600	2.7	600	-
Vento 600 IN	2.7	600	-
Vento 600 RE	4	900	-
Vento 600 IR	4	900	-



## Applications

Air blower for whirlpool baths.

## Materials

- Body**  
Polypropylene.
- Impeller**  
Aluminium.
- Diffuser**  
Polyamide.
- Seals**  
O'rings in NBR.

## Motor

Class B insulation.  
IP X5 Protection.  
Continuous operation.  
Further protection to be undertaken by installer.

## Features

- Vento :** Vertically mounted.
- Vento H :** Horizontally mounted.
- Vento IN :** On/off Pneumatic switch
- Vento RE :** With 300 W heater.
- Vento IR :** With pneumatic switch On/off and 300 W heater.

	A	B	C	D	E	DNm	Kg
Vento	187	255	151	10	M5	32/40	2
Vento H	164	245	151	10	M5	32/40	2

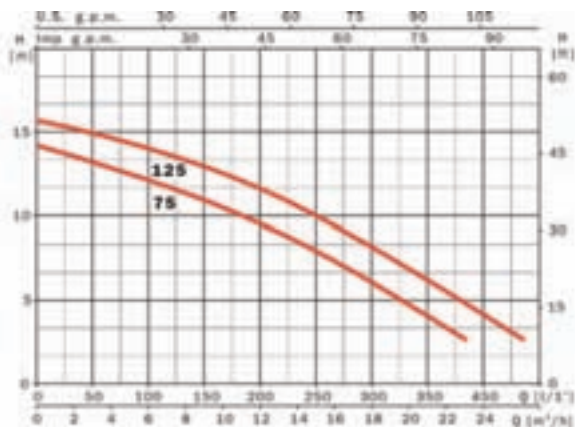
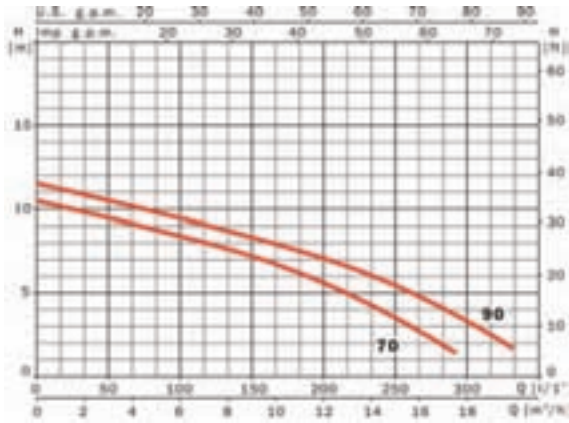
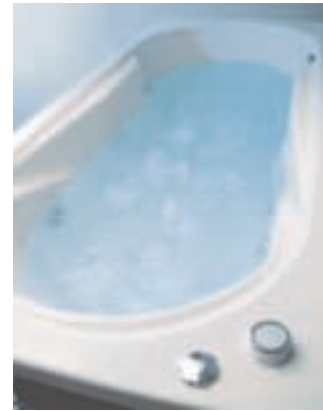
Single phase Vertical	Price	Single phase Horizontal	Price	Flow [m³/h]	Manometric head [m]							
					0.4	0.5	0.6	0.7	0.8	0.9	1	1.2
Vento 600	133	Vento 600 H	133	90	80	70	66	60	52	45	30	
Vento 600 IN	158	Vento 600 IN H	158	90	80	70	66	60	52	45	30	
Vento 600 RE	176	Vento 600 RE H	176	90	80	70	66	60	52	45	30	
Vento 600 IR	201	Vento 600 IR H	201	90	80	70	66	60	52	45	30	

Reversed Table



# Tiper 0

## Hydromassage pumps



### Applications

For use with hydromassage systems.

### Materials

**Pump Body**

Polypropylene

**Impeller**

Noryl

**Motor Housing**

Aluminium L-2521

**Mechanical Seal**

Graphite and Aluminium Oxide.

### Motor

Insulation resistance 3750 V.

Class F Insulation.

Protection IP 55.

Continuous operation.

Built-in thermal protection.

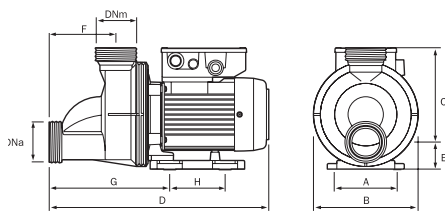
### Equipment

Complete with suction and discharge connections, metric or imperial.

### Options

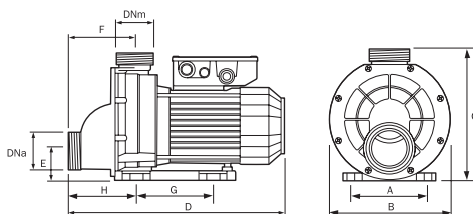
On/off switch rear connection and level sensors via pneumatic or electrical devices.

Variable speed MV version also available.



Single phase	Price	A		P1 (kW)		kW	HP	µF
		1~ 230 V	3~	1~	3~			
<b>Tiper 0 70 M</b>	<b>200</b>	2.9	0.64	-	0.37	0.5	12	
<b>Tiper 0 90 M</b>	<b>208</b>	3.7	0.85	-	0.75	1.0	12	

	A	B	C	D	E	F	G	H	DNa	DNm	Kg
<b>Tiper0 70</b>	100	102	154.5	312	47	88	130	74	2 <sup>1/4</sup> "	2 <sup>1/4</sup> "	3.9
<b>Tiper0 90</b>	100	101	154.5	312	47	88	130	74	2 <sup>1/4</sup> "	2 <sup>1/4</sup> "	4.4



Single phase	Price	A		P1 (kW)		kW	HP	µF
		1~ 230 V	3~	1~	3~			
<b>Tiper 2 75 M</b>	<b>248</b>	5.3	1.2	-	0.55	0.75	16	
<b>Tiper 2 125 M</b>	<b>271</b>	5.6	1.5	-	0.9	1.25	16	

	A	B	C	D	E	F	G	H	DNa	DNm	Kg
<b>Tiper2 75</b>	124	187	215	378	50	120	120	130	2 <sup>1/4</sup> "	2 <sup>1/4</sup> "	8,3
<b>Tiper2 125</b>	124	187	215	378	50	120	120	130	2 <sup>1/4</sup> "	2 <sup>1/4</sup> "	9,4

# Hydromassage pumps

# Tiper 15



## Applications

For use with hydromassage systems.

## Materials

### Pump Body

Polypropylene

### Impeller

Noryl

### Motor Housing

Aluminium L-2521

### Mechanical Seal

Graphite and Aluminium Oxide.

### Pump foot

Polypropylene with a brass insert, threaded M10

## Motor

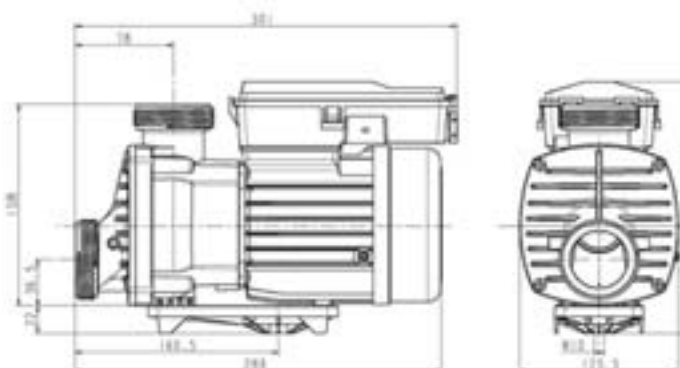
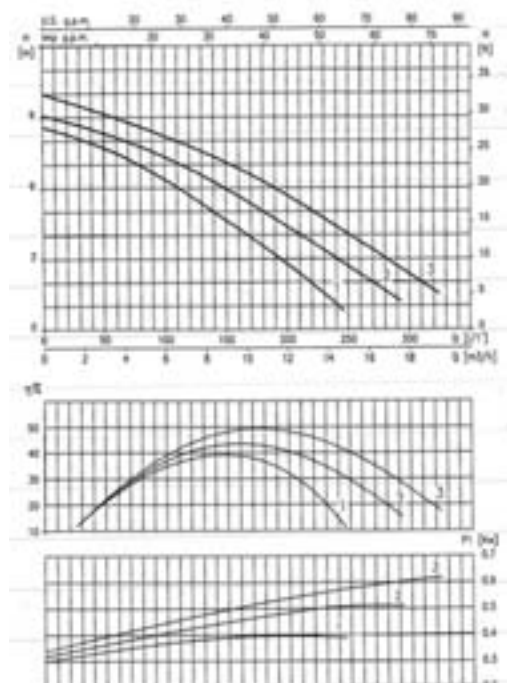
Insulation resistance 3750 V.  
Class F Insulation.  
Protection IP 55.  
Continuous operation.  
Built-in thermal protection.

## Equipment

Complete with suction and discharge connections, metric or imperial.

## Options

On/off switch rear connection and level sensors via pneumatic or electrical devices.  
Variable speed MV version also available.



Single phase	Price	1ph 230v A	P1 (kW)	kW	HP	uF
<b>Tiper 15 1M</b>	<b>175</b>	1.70	0.36	0.18	0.25	6
<b>Tiper 15 2M</b>	<b>180</b>	2.30	0.50	0.37	0.50	10
<b>Tiper 15 3M</b>	<b>195</b>	3.00	0.70	0.55	0.75	12

# Wiper O | Hydromassage pumps



## Applications

For use with hydromassage systems and swimming pool filtration

## Materials

### Pump Body

Glass loaded polypropylene

### Impeller

Glass loaded noryl.

### Shaft

Stainless steel AISI 316.

### Mechanical Seal

Graphite and alumine.

## Motor

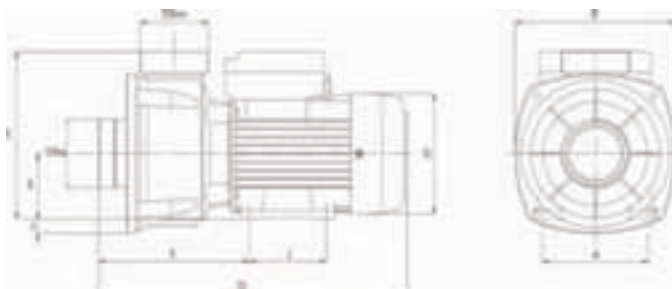
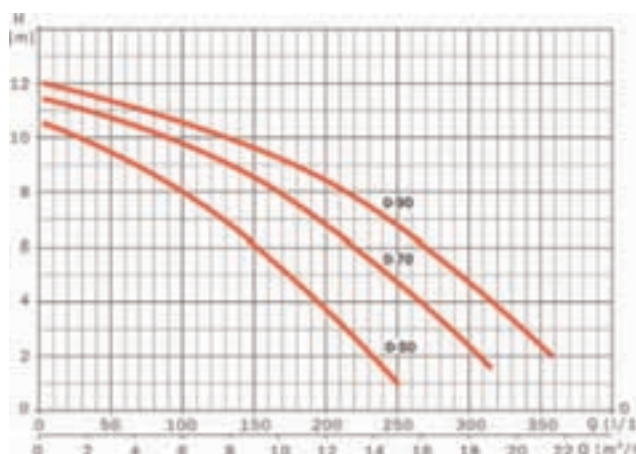
Insulation resistance 3750 V.  
Class F Insulation.  
Protection IP 55.  
Continuous operation.  
Built-in thermal protection.

## Equipment

Complete with suction and discharge connections, metric or imperial.

## Options

On/off switch and level sensors via pneumatic or electrical devices.



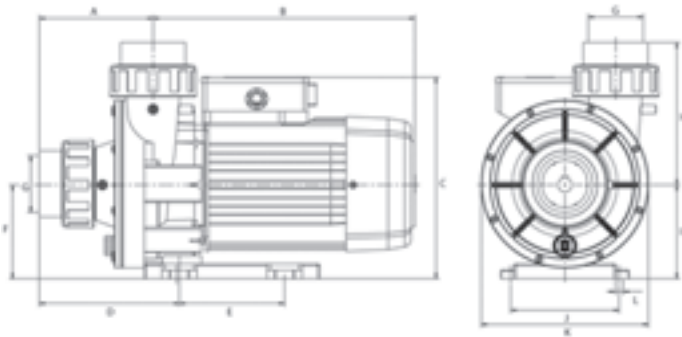
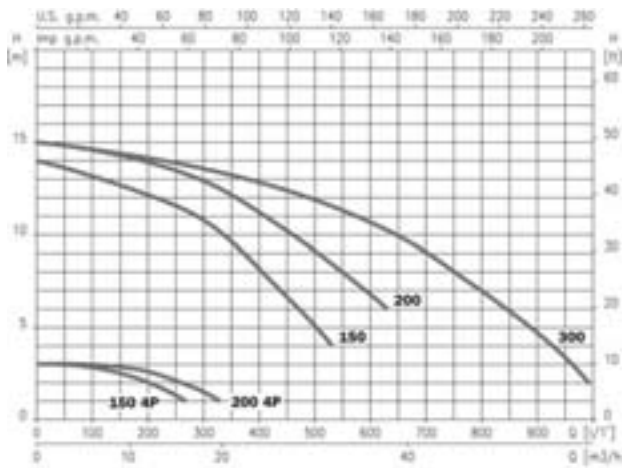
	A	B	C	D	E	F	G	I	J	DNa	DNm	Kg
Wiper0 50	102	154.5	162	295.5	63	144.5	116	74	15	2 1/4"	2 1/4"	5.7
Wiper0 70	102	154.5	162	295.5	63	144.5	116	74	15	2 1/4"	2 1/4"	6
Wiper0 90	102	154.5	162	295.5	63	144.5	116	74	15	2 1/4"	2 1/4"	6.8
Wiper0 4M	102	154.5	162	295.5	63	144.5	116	74	15	2 1/4"	2 1/4"	5

Single phase	Price	A			P1 (kW)		kW	HP	µF	Flow [m³/h]	Manometric head [m]										
		1~ 230 V	3~ 230 V 400 V		1~	3~					3	4	6	8	9	10	11	12			
Wiper0 50 M	192	2.3	-	-	0.50	-	0.24	0.33	12	12.5	11.5	9	6	4	1.5	-	-				
Wiper0 70 M	200	2.9	-	-	0.64	-	0.37	0.50	12		17	16	13	10	8	5	2	-			
Wiper0 90 M	208	3.7	-	-	0.85	-	0.74	1.0	12		20	19.5	16.5	12.5	11	8	4	0.5			
Wiper0 4 M	200	0.6	-	-	0.13	-	0.06	0.08	6		9	8	5.5	4.5	1						
											0.5	1	1.5	2	2.5						
											Manometric head [m]										

Reversed Table

# Hydromassage pumps

# Wiper 3



	A	B	C	D	E	F	G	H	I	J	K	L	M	Kg
Wiper3 150M	130	298.7	230	160	120	108	63	162	108	124	191	9	29	14.3
Wiper3 150M	130	298.7	230	160	120	108	63	162	108	124	191	9	29	17
Wiper3 200M	130	298.7	230	160	120	108	63	162	108	124	191	9	29	17
Wiper3 300M	130	298.7	230	160	120	108	63	162	108	124	191	9	29	18.8

230 V 50 hz	230/400 V 50 hz	Price	A			P1 (kW)		kW	HP	µF	l/1'								
			1~ 230 V	3~		1~	3~				3.0	6.0	12	18	24	30	36	54	
				230 V	230 V														400 V
Wiper3 150M	2P Wiper3 150	372	6.4	5	2.9	1.4	1.2	1.1	1.5	25	13.3	13	12.1	10.8	8.2	5			
	4P	441	1.4	-	-	0.35	-	0.18	0.25	16	3	2.8	2						
Wiper3 200M	2P Wiper3 200	429	8.8	6.6	3.8	2	1.8	1.5	2	40	14.8	14.5	13.9	12.9	11.1	9.1	6.8		
	4P	498	1.7	-	-	0.4	-	0.18	0.25	16	3	2.8	2.6	1.5					
Wiper3 300M	Wiper3 300	555	11	7.1	4.1	2.5	2.4	2	3	60	14.8	14.5	14.1	13.5	12.8	11.9	10.7	4.7	

## Applications

For use with domestic and commercial spa's.

## Materials

### Pump Body

Glass loaded polypropylene

### Impeller

Glass loaded noryl.

### Shaft

Stainless steel AISI 420.

### Mechanical Seal

Graphite and alumine.

## Motor

Insulation resistance 3750 V.

Class F Insulation.

Protection IP 55.

Continuous operation.

Built-in thermal protection.

## Equipment

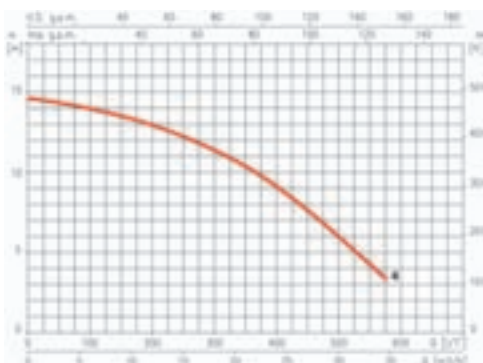
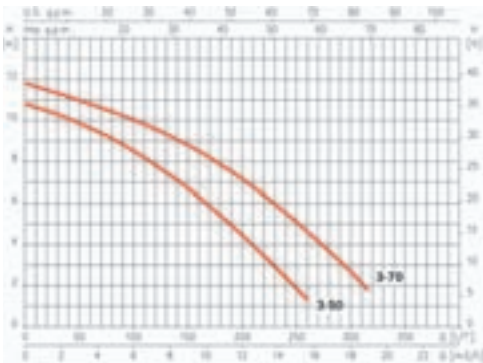
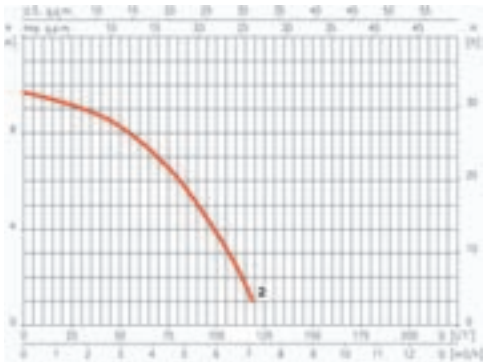
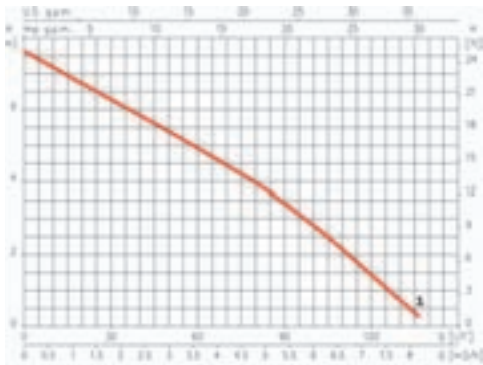
Complete with suction and discharge connections.

## Options

On/off switch and level sensors via pneumatic or electrical devices.



# Piscis | Sea water pumps



## Applications

For recycling of water in aquariums, fish hatcheries and sea water pools. Also resistant to fish excrement.

## Materials

- Pump Body**  
Glass loaded polypropylene
- Impeller**  
Glass loaded noryl.
- Shaft**  
Stainless steel AISI 420.
- Mechanical Seal**  
Graphite and alumine.

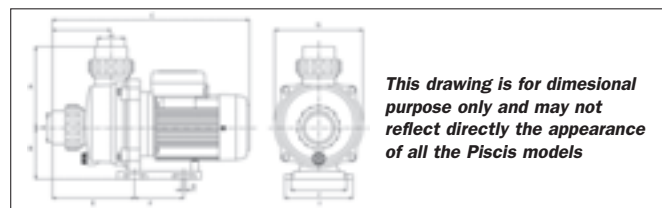
## Motor

- Class F Insulation.
- Protection IP 55.
- Continuous operation.
- Built-in thermal protection.



## Equipment

Complete with suction and discharge unions.



	A	B	C	D	E	F	G	H	I	J	Kg
<b>Piscis 1M</b>	125	94	305	8	115.5	90	124	38	122	100	6
<b>Piscis 2M</b>	145	92	352	8	147	92	158	50	122	100	6
<b>Piscis 3 50M</b>	134.5	83.5	337	8	156	113	154.5	50	120	100	12
<b>Piscis 3 70M</b>	134.5	83.5	337	8	156	113	154.5	50	120	100	12
<b>Piscis 4</b>	162	108	428.7	9	160	130	191	50	-	124	14.3

Single phase	Price	A			P1 (kW)		kW	HP	µF	Flow [m³/h]	Manometric head [m]							
		1~ 230 V	3~ 230 V 400 V		1~	3~					3	4	5	7	8	9	10	11
<b>Piscis 1M</b>	<b>179</b>	1.0	-	-	0.22	-	0.08	0.12	6	Flow [m³/h]	4.2	3.0	1.5				-	-
<b>Piscis 2M</b>	<b>198</b>	1.3	-	-	0.27	-	0.15	0.20	6		6.75	6.0	5.5	3.2	2.0	0.5		-
<b>Piscis 3 50M</b>	<b>206</b>	2.4	-	-	0.50	-	0.37	0.50	10		12	10.7	10	7.0	5.2	3.2	0.8	
<b>Piscis 3 70M</b>	<b>214</b>	3.3	-	-	0.64	-	0.50	0.75	10		15	14	13	9.7	8.0	6.0	3.8	1.0
<b>Piscis 4M</b>	<b>316</b>	6.3	-	-	1.4	-	1.1	1.5	25		35	33	31	28	26	24	22	20

Reversed Table

**Applications**

Accumulation of pressurised water for all hydraulic domestic, agricultural and industrial applications.

**Benefits**

WRAS approval for drinking water useage, CE Marked,  
The EPDM variable geometry replaceable membrane provides longer life by eleminating membrane stress throughout normal operational cycles.  
A schrader valve is fitted to each vessel to provide air pressure adjustment for individual applications.

**Limitations**

Temperature range: 10°C. to +100°C.  
AV003 - AH024 MAX PRESSURE 8 BAR  
AV060 - AV500 MAX PRESSURE 10 BAR  
16 Bar vessels available on request on AV008 - AV300



Vessels

**+ STAINLESS STEEL OPTIONS**

**+ STAINLESS STEEL FLANGE OPTIONS**

**+ REMOVABLE MEMBRANE**

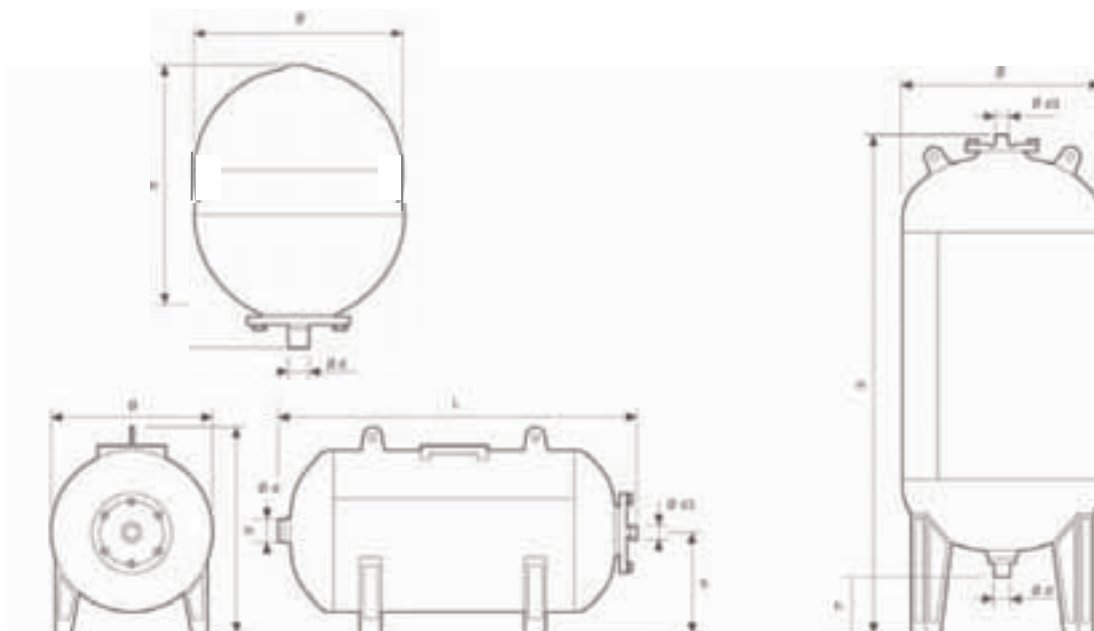
**+ WRAS APPROVED**

Replacement EPDM membranes	Code	Price
60/100 Ltr	ZMC100	<b>71</b>
150 Ltr	ZMC150	<b>108</b>
200 Ltr	ZMC200	<b>120</b>
300/500/700 Ltr	ZMC500	<b>227</b>
1000/1500 Ltr	ZMC500/1000	<b>681</b>
2000 Ltr (Butyl)	ZMC2000	<b>2,663</b>

Stainless steel bottom flanges	Code	Price
3/4" mgas (16-18-24)	ZMCS520	<b>17</b>
1" mgas (35-100)	ZMCS525	<b>18</b>
1 1/4" mgas (200-500)	ZMCS532	<b>70</b>
2 1/2" mgas (1000-1500)	ZMCS565	<b>488</b>

# AV AH

## Pressure vessels



### CE PRESSURE VESSELS WITH WRAS APPROVAL

	Price	Code	Capacity litres	Max Press bars	Ø mm	L mm	H mm	h mm	Ød	Ød1	Weight Kg
<b>HORIZONTAL VESSELS</b>											
24 Ltr	<b>26</b>	AH024	24	8	260	485			1"	-	6
60 Ltr	<b>100</b>	AH060	60	10	380	720			1"	-	13
100 Ltr	<b>164</b>	AH100	100	10	460	780			1"	-	21
200 Ltr	<b>270</b>	AH200	200	10	590	940			1 1/4"	3/4"	31
300 Ltr	<b>334</b>	AH300	300	10	650	1150			1 1/4"	3/4"	49
<b>VERTICAL VESSELS</b>											
3 Ltr	<b>17</b>	AV003	3	8	170	-	240		3/4"	-	2
8 Ltr	<b>18</b>	AV008	8	8	220	-	305		3/4"	-	3
18 Ltr	<b>22</b>	AV018	18	8	260	-	375		3/4"	-	5
50 Ltr	<b>70</b>	AV050	50	10	380	-	720		1"	-	
60 Ltr	<b>98</b>	AV060	60	10	380	-	830		1"	-	13
80 Ltr	<b>128</b>	AV080	80	10	460	-	760		1"	-	
100 Ltr	<b>153</b>	AV100	100	10	460	-	880		1"	-	20
150 Ltr	<b>216</b>	AV150	150	10	510	-	1030		1 1/4"	3/4"	28
200 Ltr	<b>259</b>	AV200	200	10	590	-	1070		1 1/4"	3/4"	31
300 Ltr	<b>331</b>	AV300	300	10	650	-	1250		1 1/4"	3/4"	49
500 Ltr	<b>531</b>	AV500	500	10	750	-	1600		1 1/4"	3/4"	91
750 Ltr	<b>937</b>	AV750	750	10	800	-	1820		2"	3/4"	157
1000 Ltr	<b>1,764</b>	AV1000	1000	10	800	-	2130		2 1/2"	3/4"	187
2000 Ltr	<b>5,016</b>	AV2000	2000	10	1100	-	2550		2 1/2"	3/4"	301

## Controls/Starters

## Accessories



Capacitor Box <small>(2, 3 overload and reset button)</small>	Price
ST037ES 16µF	42
ST055ES 20µF	42
ST075ES 30µF	42
ST0110ES 40µF	44
ST0150ES 50µF	57
ST0220ES 70µF	69



Capacitor Box	Price
ZCC1. 12µF	20
ZCC1. 16µF	20
ZCC1. 25µF	22
ZCC1. 30µF	22
ZCC1. 50µF	44



### Compact 13 Mini

IP54 Control device offering level control via 2 probes, for submersible single phase pumps up to 13 Amps.

	Price
Compact 13 Mini	170



### Compact 13

IP54 Control device offering level control via probes, for single and three phase pumps up to 13 Amps.

Single phase units are supplied complete with capacitor

	Price
Compact13	253
Compact13. 16	253
Compact13 . 20	253
Compact13 . 25	253
Compact13 . 30	253
Compact13 . 35	253
Compact13 . 40	253
Compact13 . 50	253



### Compact 16

IP54 Control device offering level control via probes, for single and three phase pumps up to 16 Amps. Single phase units are supplied complete with capacitor

	Price
Compact 16	347



### Protec E

Dry running protection for single and three phase pumps without the use of probes. This device monitors the power factor of the motor. Once dry running has been detected the control panel will try to restart the pump at 20, 45, and 90 minute intervals. If there is still no water the power is turned off to protect the motor and will require manual reset.

	Price
Protec ME (0.5-2HP, 1PH)	263
Protec 1E (0.5-4HP, 3PH)	275
Protec 2E (5.5-10HP, 3PH)	368



### Probes

For water level detection.

	Price
Level probe	6.00
Cable H07RNF 1x1.5mm <sup>2</sup>	2.50



# Controlvar

## In-Line Inverter

The Controlvar is an innovative system that can be used with a variation of pump types including multistage, single stage, surface and submersible pumps.

The Controlvar is energy-saving, silent running, compact, and can extend the life of the pump.

The Controlvar has been designed to vary the frequency (Hz) of the pump in order to keep the hydraulic system at a constant pressure. When the flow increases, the speed of the motor increases to maintain a constant pressure.

The interface is user-friendly, allowing easy use to calibrate pressure set points, view error messages and settings.

The Controlvar comprises an inverter, a pressure sensor and a flow sensor. These items are built into a unique box that is compact, therefore allowing easy installation.



The Controlvar works directly on the hydraulic manifold and must be installed on the discharge pipeline of the booster set or pump.

Model	CV 1-B4	CV 1-B8	CV 2-B4	CV 2-D9	CV 4-D7	CV 4-D9
<b>Power supply</b>	230V single phase				400V three phase	
<b>Pump motor type</b>	230V single phase		400V three phase			
<b>Max current</b>	4.3A	8.5A	4.5A	9.3A	7.5A	13.3A
<b>Motor power (approx)</b>	0.55kw	1.1kw	1.1kw	2.2kw	3kw	5.5kw
<b>Max water temp</b>	50			45		
<b>Max water pressure</b>	8 Bar	10				
<b>Set pressure range</b>	1 – 3.6 Bar	1 – 6 Bar	1 – 9 Bar			
<b>Inlet</b>	1¼" BSP M					
<b>Outlet</b>	1½" BSP F					
<b>Protection</b>	IP55					
<b>Volt-free contacts</b>	N/A			2 (Fault and pump running)		
<b>Set point</b>	1			2		
<b>Digital input</b>	N/A			1. Float switch		
				2. 2nd set point		
				3. Enable		
<b>Connectivity</b>	N/A			RS 485		
<b>Status protections</b>	1. Dry running			1. Dry running		
	2. Over current			2. Over current		
	3. Over temperature			3. Over temperature		
				4. Supply voltage out of range		
<b>Price</b>	<b>339</b>	<b>396</b>	<b>383</b>	<b>546</b>	<b>994</b>	<b>1,215</b>

## RAS Engine pumps

# Special Products



12Kg

### Applications

To be used in areas where there is no electrical supply.  
Irrigation, water supply from a well, water tanks, swimming pools, boosting and water drainage.

### Materials

#### Pump Body

Aluminium.

#### Impeller

Aluminium.

#### Mechanical seal

Integrated.

#### Motor Shaft

Stainless steel. AISI 420.

#### Ignition system

Manual.

#### Carburettor

Floating type.

### Limitations

Clean water. Self priming up to 7m.



24Kg



29Kg

Model	Premier 100 GP 10	Premier 30000/2 GP 50	Premier 50000/3 GP 50
Maximum head	25m	23m	20m
Maximum flow	200 l/m	520 l/m	860 l/m
Suction discharge	37.5mm	50mm	80mm
Suction lift	7m		
Body material	Aluminium		
Power	2.5 HP	5.5 HP	
Capacity	97.7cc	163cc	
Fuel	Unleaded		
Fuel tank capacity	1.3 l	3.6 l	
Oil tank capacity	0.3 l	0.6 l	
Package dimensions (mm)	400 x 270 x 360	550 x 430 x 390	550 x 430 x 470
Price	<b>242</b>	<b>261</b>	<b>281</b>

# Special products

## Rain/Grey water recovery systems



Rain water is free of charge and around 50% of our daily requirement falls directly onto our roofs. By installing a rainwater recovery system you could reduce your water consumption as much as 75% per site.

Espa can supply a complete rain recovery system from submersible or surface-mounted pumps (suitable for potable water) to holding tanks and automatic controls. Espa rainwater recovery systems are built to your specification and supplied ready for installation to domestic and commercial properties.



## Rainleader Comfort

The Rainleader Comfort integrated system is a compact unit which integrates both brain and heart: a completely automated ERMS electronic control which supervises, controls and manages the whole system. A Tecnoself 15 4V pump is integrated, with a constant pressure system. It is designed for one and two-family homes. Rainleader Comfort brings together the highest specifications in hydraulic and electronic technology, offering unbeatable standards of control and safety. It measures the water level in the tank by a submerged pressure transducer. It supplies drinking water in the case of lack of rainwater through a tank integrated in the module. It communicates the pumping pressure and the level of rainwater constantly through messages on the LCD display. The system can be customised to suit the needs of each individual user with adjustable programme parameters. It comes with computer software for maintenance and control. The first time it is put into operation, it automatically runs a priming system.



installation kit, plus an anti-vibration device.

### Technical characteristics

Height: 860 mm  
Diameter: 410 mm  
Suction conduit: 1" G  
Emergency overflow: DN 50  
Drinking water: 3/4" G  
Empty weight: 34.5 kg  
Loaded weight: 53.5 kg

### Operation

Mains voltage: 230 V  
Transmission control voltage: 24 VDC  
Drinking water intake flow: 6 m<sup>3</sup>/h at 2 bar mains pressure  
Condenser: 230 V 12  $\mu$ F  
Absorbed power: P1 0.85 kW  
RPM: 2,900 min<sup>-1</sup>

### Materials

Stainless steel housing  
Plastic cover  
Brass inversion valve  
Pump housing and impellers in AISI 304 stainless steel  
Graphite-ceramic mechanical shut-off device.

**For hydraulic and technical characteristics of the pump, see page 45.**

### Main advantages

Integrated pump and electronic control system.  
Tank level indicator.  
RS232 connection for control and maintenance from your PC.  
Totally programmable.  
Can be switched to manual operation.  
Quick to install (Plug & Pump) and easy to maintain.  
Includes flexible mesh, ball valve, fine filter and wall

Rain/Grey water  
recovery systems

## Special products



## Tecnomat Inox and Tecnoplus

The system consists of two basic parts: a central unit (Tacomat Inox) which automatically controls drinking water and supplies it to domestic equipment which uses rainwater; and a pump responsible for pumping the collected water to its respective destination (Tecnoplus).

The ideal equipment for one or two-family homes.

Tacomat Inox is the intelligent hub of the rainwater management system. Its ERMS control unit manages and directs the whole equipment, guaranteeing a consistently optimal operation.

Tecnoplus is the heart of the system, pumping water to all the service points. Automatic, silent and robust, with constant pressure and an energy-saving system, the housing and pumps come in AISI 304 stainless steel and it has a graphite-ceramic shut-off mechanism which maximises its resistance.

The motor can operate continuously. It has electronic controls which can automatically start and stop the pump.

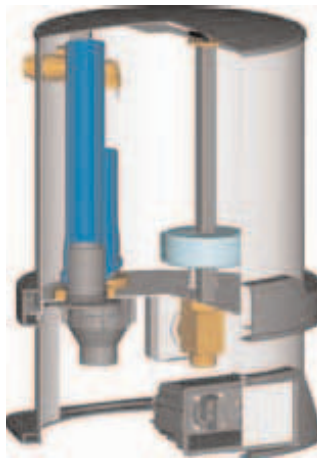
### Main advantages

A compact module for collecting and pumping rainwater.

Quick to install (Plug & Pump) and easy to maintain.

Can be switched to manual operation.

Has a free-drainage system in compliance with



current legislation.

### Technical features

Height: 550 mm  
Diameter: 410 mm  
Suction conduit: 1" G  
Emergency overflow: DN 50  
Drinking water: 3/4" G  
Empty weight: 11.6 kg  
Loaded weight: 30.6 kg

### Operation

Mains voltage: 230 V  
Transmission control voltage: 24 VDC  
Intake flow of drinking water: 6 m<sup>3</sup>/h at 2 bar mains pressure

### Materials

Stainless steel housing  
Plastic cover  
Brass valves.

**See page 63 for hydraulic and technical characteristics of the pump.**

**Underground tanks for both systems by others.**



# Special products

## Rain/Grey water recovery systems

	Tacomat Inox + Tecnoplus	Rainleader Comfort
ERMS integrated in module	•	•
ERMS integrated in pump		
EN1717, DIN 1989	•	•
Constant pressure equipment	•	•
Pump integrated in module		•
Analogical outlets		•
Control of rain water level in tank	•	•
Control of intake of mains water to tank	•	•
Motorized valve for control of mains water	•	•
Manual operation (100% mains water)	•	•
Managing water tank level by level switch	•	
Managing water tank level by pressure sensor		•
Reading pumping pressure on the LCD		•
Reading water level in the tank on the LCD		•
RS232 connection		•
Adjustable programme parameters		•
Computer software for maintenance and control		•
Automatic priming system (for initial start-up)		•
Pump protection against dry running	•	•
Renewal of drinking water in the tank		•

### Standards

ESPA has extensive experience and a vocation for industrial innovation, and develops its products in line with the following standards:  
 DIN 1989-1 > Systems for using rainwater  
 DIN 1988-4 > Technical regulations on drinking water installations  
 UNE EN 1717 > Protection against pollution of drinking water in water systems and general requirements for devices to prevent backflow contamination.

**For information on permits and regulations for use, we recommend you contact your local council or the competent body in your region.**

Single phase	Price	230v	kW	HP	uF
Rainleader Comfort	<b>1,813</b>	3.5	0.55	0.75	12
Tacomat Inox + Tecnoplus 15.4	<b>860</b>	3.6	0.55	0.75	12

## Accessories



	Price
Filter (0.55mm) (DN100)	<b>310</b>



	Price
Deflector	<b>49</b>



	Price
U Trap	<b>91</b>



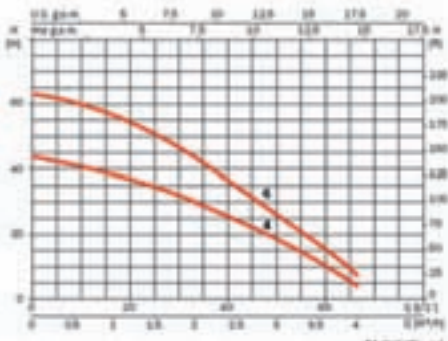
	Price
Ground level gutter filter	<b>25</b>



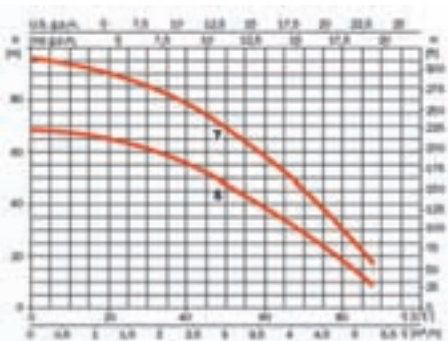
	Price
Quickstop ball valve	<b>37</b>

Rainsub

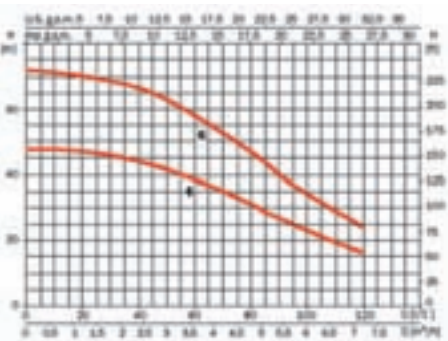
# Special products



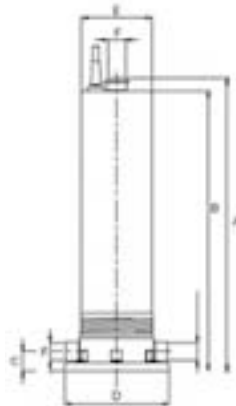
Rainsub 07



Rainsub 17



Rainsub 27



## Applications

To work in installations for rain water recovery. Equipped with two inlets, one for rainwater and the other for drinking water.

## Materials

### Outer case

Stainless steel AISI 304

### Impellers

Stainless steel AISI 304

### Diffusers

Noryl (glass loaded polymer)

### Motor shaft

Stainless steel AISI 420

### Double mechanical seal

Graphite and alumine

## Motor

Water cooled motor  
Class F insulation  
Protection IP 68  
Continuous operation  
Single phase motor with built-in thermal protection

## Limitations

Maximum liquid temperature: 35°C

## Equipment

Complete with 15m of power cable.

	A	B	C	D	E	F	Kg
Rainsub 07 6	591.5	-	37.5	180.5	134	1"	13.7
Rainsub 17 5	527.5	550.5	37.5	197.5	134	1"	19.7
Rainsub 27 6	633	656	37.5	197.5	134	1"	24

	A	P1 (kW)			kW	HP	µF	l/1'										
		1~ 230 V	3~ 230 V 400 V						1~	3~	10	20	30	40	45	50	60	65
			1~	3~														
Rainsub 07.6M	359	5.0	3.6	2.0	1.1	1	0.9	1.2	16		60	55	47	37	32	26	15	10
	A	P1 (kW)			kW	HP	µF	l/1'										
		1~ 230 V	3~ 230 V 400 V						1~	3~	10	20	30	40	50	60	70	85
			1~	3~														
Rainsub 17.5M	479	7.4	4.5	2.6	1.6	1.5	0.92	1.25	16		67	65	62	55	48	39	29	12
	A	P1 (kW)			kW	HP	µF	l/1'										
		1~ 230 V	3~ 230 V 400 V						1~	3~	20	30	40	50	60	80	100	125
			1~	3~														
Rainsub 27.6M	529	10.8	6.6	3.8	2.2	2.1	1.6	2.2	25		68	66	64	61	57	47	36	20

Special Products

# Special products

## Raintec



### Applications

Installations for rain water recovery, quiet booster sets

### Materials

#### Outer case

Stainless steel AISI 304

#### Impellers

Stainless steel AISI 304

#### Diffusers

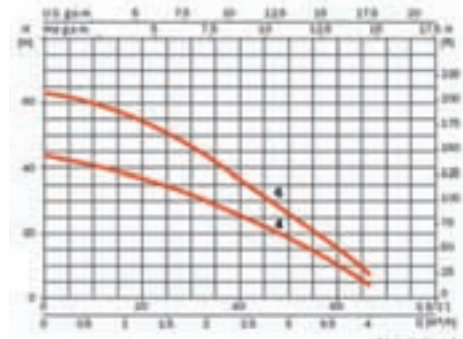
Noryl (glass loaded polymer)

#### Motor shaft

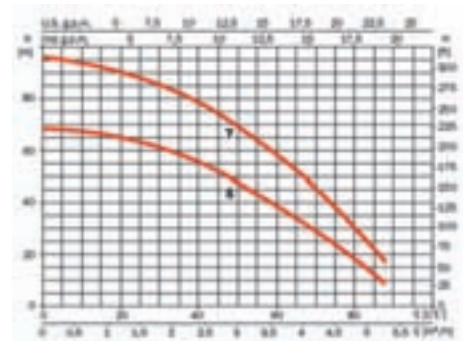
Stainless steel AISI 420

#### Double mechanical seal

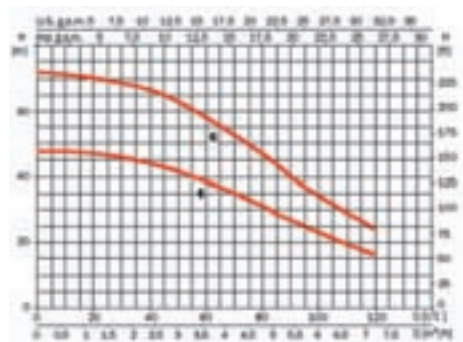
Graphite and alumine



Raintec 07



Raintec 17



Raintec 27

### Motor

Water cooled motor  
Class F insulation  
Protection IP 68  
Continuous operation  
Single phase motor with built-in thermal protection

### Limitations

Maximum liquid temperature: 35°C

### Equipment

Complete with 15m of power cable.

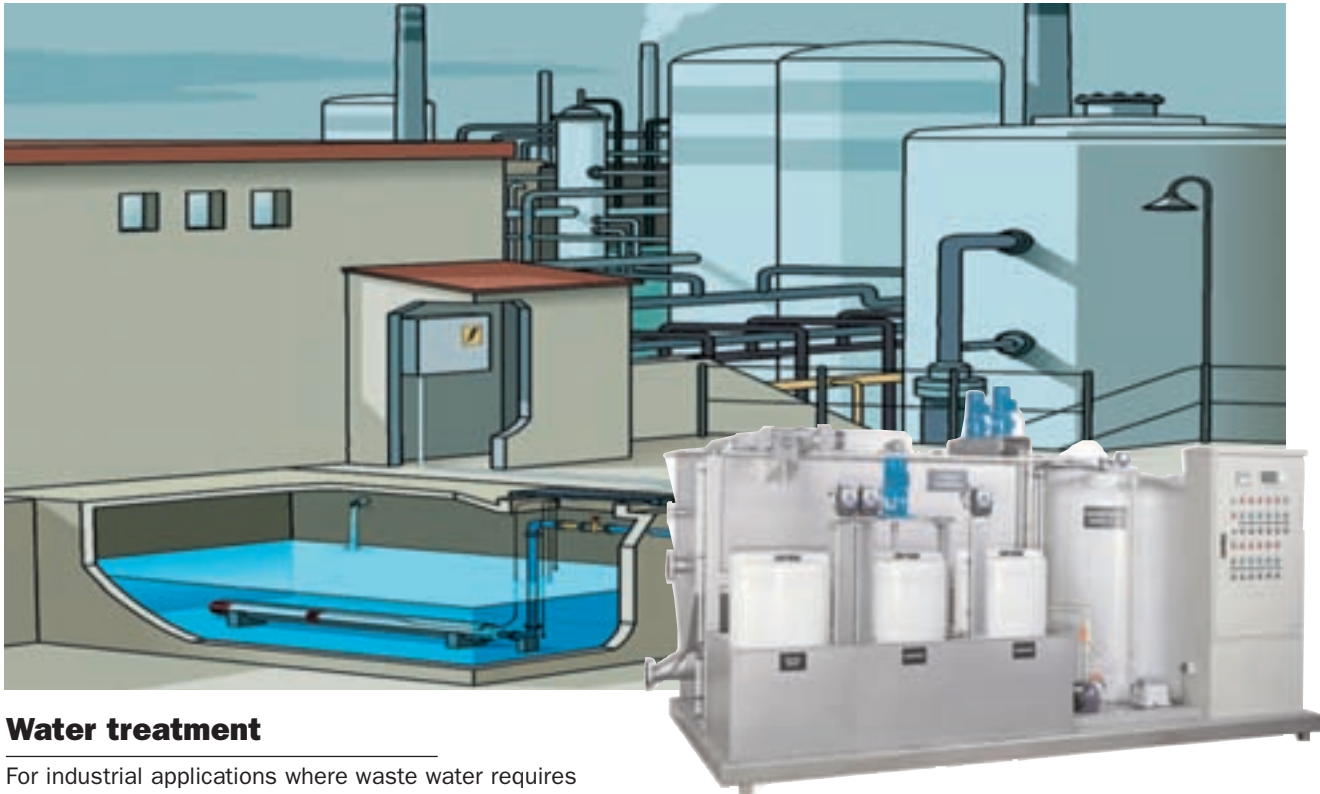
	A	B	C	D	E	F	Kg
Raintec 07 4	527	404	39	183	119.5	1"	11.5
Raintec 07 6	603.5	580.5	39	183	119.5	1"	13.7

	A	B	C	D	E	F	Kg
Raintec 17 5	527.5	550.5	37.5	197.5	134	1"	19.7
Raintec 17 7	619.5	642.5	37.5	197.5	134	1"	24

	A	B	C	D	E	F	Kg
Raintec 27 4	527.5	550.5	37.5	197.5	134	1"	19.7
Raintec 27 6	619.5	642.5	37.5	197.5	134	1"	24

Single phase	Price	A			P1 (kW)		kW	HP	μF	l/1'									
		1~ 230 V	3~ 230 V 400 V		1~	3~					10	20	30	40	45	50	54	60	
Raintec 07.6M	303	5.0	3.6	2.0	1.1	1	0.9	1.2	16	m³/h	0.6	1.2	1.8	2.4	2.7	3.0	3.24	3.6	15
		A			P1 (kW)		kW	HP	μF	l/1'									
		1~ 230 V	3~ 230 V 400 V		1~	3~					10	20	30	40	50	60	70	83	
Raintec 17.5M	347	7.4	4.5	2.6	1.6	1.5	0.92	1.25	16	m³/h	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.98	15
Raintec 17.7M	385	10.7	6.5	3.8	2.2	2.1	1.6	2.2	25	m³/h	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.98	25
		A			P1 (kW)		kW	HP	μF	l/1'									
		1~ 230 V	3~ 230 V 400 V		1~	3~					20	40	50	60	80	100	115	125	
Raintec 27.6M	395	10.8	6.6	3.8	2.2	2.1	1.6	2.2	25	m³/h	1.2	2.4	3.0	3.6	4.8	6	6.9	7.5	20





### **Water treatment**

For industrial applications where waste water requires treatment to comply with local authority regulations regarding disposal to sewer.

A wide range of models enable operation with treatment flow rates from 1 to 25 m<sup>3</sup>/h or higher, depending on the characteristics of the waste material to be treated.

Easy to assemble, the Depcom FQ series have been designed so that all the customer needs to arrange is connection to the water inlet and outlet and electrical connection to the control panel.

### **Bio Series: Compact scrubbing units for biological treatment of urban waste water**

The Depcom Bio Series consists of one single pre-fabricated module which comprises the built-in oxidation (aerobic biological reactor) and decanting (effluent clarification) enclosures, prior to disposal of the treated water.

Offering compact solutions in the field of secondary treatments, with capacities from 0.75 to 150 m<sup>3</sup>/day for medium pollutant load urban waste waters corresponding to a range equivalent to 5 to 1000 inhabitants.

The biological treatment works by total oxidation process which guarantees the total absence of odours in the installation. and it meets the maximum scrubbing performance figures required by directive 91/271/EEC.

