

WELL AND BOREHOLE PUMPS

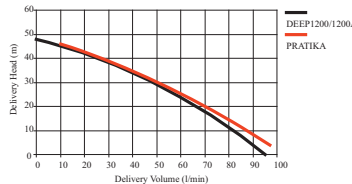
DEEP & PRATIKA – MULTISTAGE PUMPS

230v

D

MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
DEEP 1200 AUTO	10.8	400 x 150 x 150	90/45	1.1	022-832	
PRATIKA MANUAL	10.8	406 x 178 x 178	110/45	1.2	022-824	
PRATIKA AUTO	10.8	406 x 178 x 178	110/45	1.2	022-822	

The Pratika (stainless steel, 1 1/4" outlet) and Deep (plastic, 1" outlet) submersible pumps are portable and ready to use for installation in traditional wells, water deposits and collection tanks. Suitable for small scale irrigation systems. CLEAN WATER ONLY with no suspended solids or Abrasive material. Maximum submersion depth 10m. Complete with 15m of HO7 RN-F cable.



Deep 1200



Pratika Auto

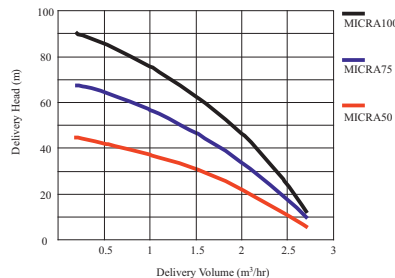
MICRA 3"

1" OUTLET 230v

E

MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
MICRA-50M	9.8	930 x 72 x 72	45/45	0.6	022-910	
MICRA-75M	11	1145 x 72 x 72	45/68	0.9	022-912	
MICRA-100M	12	1390 x 72 x 72	45/90	1.2	022-914	

Micra – complete with capacitor/thermal overload control box. 1.5 metre 4 core cable supplied from motor. For additional cable and joining kits see page 119. Stainless steel construction with Noryl impellers and diffusers. Non-return valve built into discharge head.



Micra



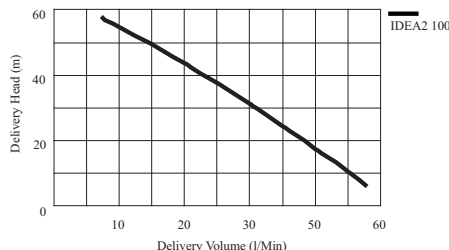
IDEA 4"

1" OUTLET

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MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
IDEA-100M 230v	11.6	385 x 95 x 95	50/55	1.15	022-816	
IDEA-100M 110v	11.6	385 x 95 x 95	50/55	1.15	022-818	

Idea 100 – 10 metre 4 core cable supplied from motor to capacitor/thermal overload control box. For additional cable and joining kits see page 117. Peripheral turbine pump. Examples of use – for clean water boosting, pressure booster sets and sprinkle irrigation.



Idea



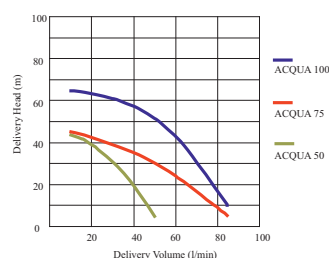
ACQUA 4"

1 1/4" OUTLET 230v

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MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
ACQUA 50M	10.5	615 x 95 x 95	50/42	0.37	022-893	
ACQUA 75M	12.5	706 x 95 x 95	80/45	0.55	022-894	
ACQUA 100M	13.6	780 x 95 x 95	85/65	0.75	022-896	

Acqua – c/w 1.5 metre 4 core cable supplied from motor. Capacitor/thermal overload control box. For additional cable and joining kits see page 119. Stainless steel motor and outer pump case. Impellers and diffusers made from Noryl. For clean water boosting, pressure booster sets and sprinkle irrigation are examples.



Acqua



WELL AND BOREHOLE PUMPS

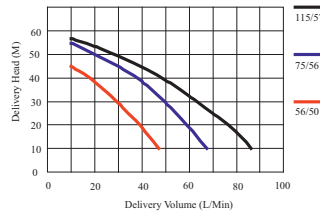
DOMINATOR 4"

1 1/4" OUTLET 230v

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MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
DOMINATOR 55/50M	8.8	549 x 98 x 98	55/50	0.65	320-0040	
DOMINATOR 75/56M	9.6	643 x 98 x 98	75/56	0.75	320-0050	
DOMINATOR 115/57	9.9	643 x 98 x 98	115/57	1.1	320-0030	

Dominator – c/w 20m 3 core cable.
Internal capacitor. Acetal resin impellers, polycarbonate diffusers. Stainless steel pump casing and suction screen.
Mechanical seal. Integrated non-return valve.
Clean water only. Max water temp 40°C.
Maximum submersion depth 20m.



Dominator 4"

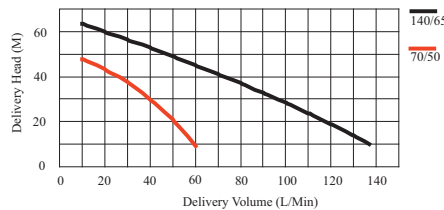
DOMINATOR 5"

1 1/4" OUTLET 230v

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MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
DOMINATOR 70/50 MAN	14	470 x 132 x 132	70/50	0.95	319-1000	
DOMINATOR 70/50 AUTO	14	470 x 132 x 132	70/50	0.95	319-1010	
DOMINATOR 140/65 MAN	16	550 x 132 x 132	140/65	1.7	319-1060	
DOMINATOR 140/65 AUTO	16	550 x 132 x 132	140/65	1.7	319-1070	

Dominator – c/w 20m 3 core cable.
Internal capacitor.
Stainless steel pump casing, suction screen, impellers and diffusers.
Mechanical seal. Integrated non-return valve.
Clean water only. Max water temp 40°C.
Maximum submersion depth 20m.



Dominator 5"

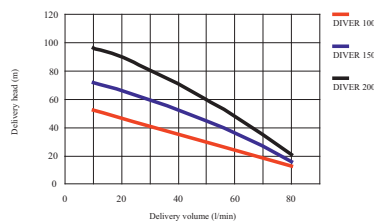
DIVER 5"

1 1/4" OUTLET 230v

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MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
DIVER 100M 230v	13	409 x 127 x 127	80/48	1.1	022-810	
DIVER 150M 230v	13	550 x 127 x 127	90/70	1.6	022-812	
DIVER 200M 230v	16	648 x 127 x 127	90/90	2.3	022-808	
DIVER 200T 415v	16	648 x 127 x 127	90/90	2.7	022-806	

Diver and diver HF – c/w 10m 4 core cable.
Capacitor and thermal overload box.
Stainless steel motor and outer case.
Impellers and diffusers made from Noryl.
Mechanical seal. Clean water only.



Diver Series

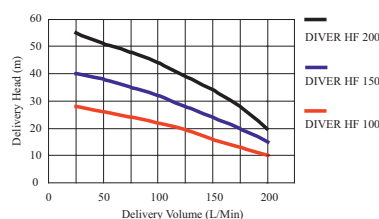
DIVER 5" HIGH FLOW

1 1/4" OUTLET 230v

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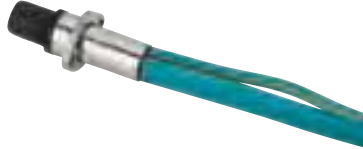
MODEL	Kg	H x W x L mm	LM/HM	kW	CODE	PRICE
DIVER HF 100M	13	459 x 127 x 127	280/28	1.2	022-900	
DIVER HF 150M	14	521 x 127 x 127	280/40	1.6	022-902	
DIVER HF 200M	17	604 x 127 x 127	280/55	2.2	022-904	

Diver and diver HF – c/w 10m 4 core cable.
Capacitor and thermal overload box.
Stainless steel motor and outer case.
Impellers and diffusers made from Noryl.
Mechanical seal. Clean water only.
Built for high flow, with low pressure.



4" BOREHOLE MOTORS 230v & 415v

4" borehole motors are supplied with a flying lead from the motor to allow for the joining and connection of the required cable. Stainless steel AISI 304 stator shell. Water lubricated rotor. Shaft/rotor made from high grade stainless steel.



CONNECTOR CABLE

All the 4" borehole motors are supplied with a four core watertight removable cable. Ideal for assembly/disassembly of the motor or pump part.

4" SUBMERSIBLE CANNED TYPE MOTOR



Top and bottom brackets made from cast iron with nickel plating treatment with a cover made from stainless steel AISI 304 for a full stainless steel appearance.

Ensure that the well or installation is clean.
Maximum sand content must not exceed 40 gr/m³.

Carbon graphite bushes, thrust bearings with hardened stainless steel pads. For the different sizes of motors and the loading of the pumps there are different thrust bearing loading systems.



THRUST BEARING SYSTEM 2000N-3000N SERIES

2000N from 0.37kw to 1.1kw
3000N from 1.5kw to 2.2kw

THRUST BEARING SYSTEM 6000N SERIES

from 3.0kw to 7.5kw



WELL AND BOREHOLE PUMPS

4" BOREHOLE MOTORS 230v & 415v

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4" Borehole motors are supplied with a flying lead from the motor to allow for the joining and connection of the required cable.

Please see page 119 for cable selection chart, cables and joining kits.

If you require capacitor/overload protection please see below & page 26.

Standard nema mounting and shafts CCW rotation.

MODEL	kW	VOLT	UF SIZE	FLC	CODE	PRICE
4" MOTOR	0.37	230	16	3.3	023-310	
4" MOTOR	0.55	230	20	4.6	023-320	
4" MOTOR	0.75	230	25	6.2	023-330	
4" MOTOR	1.1	230	35	8.6	023-340	
4" MOTOR	1.5	230	40	11	023-350	
4" MOTOR	2.2	230	60	18	023-352	
4" MOTOR	0.37	415	N/A	1.3	023-315	
4" MOTOR	0.55	415	N/A	1.5	023-325	
4" MOTOR	0.75	415	N/A	2.0	023-335	
4" MOTOR	1.1	415	N/A	2.9	023-345	
4" MOTOR	1.5	415	N/A	3.8	023-355	
4" MOTOR	2.2	415	N/A	5.5	023-360	
4" MOTOR	3	415	N/A	7.6	023-362	
4" MOTOR	4	415	N/A	9.8	023-364	
4" MOTOR	5.5	415	N/A	13.0	023-366	
4" MOTOR	7.5	415	N/A	15.5	023-368	



CAPACITOR/OVERLOAD BOXES

4" BOREHOLE MOTORS 230v

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kW	VOLT	CAPACITOR	OVER LOAD	WITH LOW LEVEL CONTROL	CODE	PRICE
0.37	230	16	4	NO	023-530	
0.55	230	20	5	NO	023-532	
0.75	230	25	7	NO	023-534	
1.1	230	35	9	NO	023-536	
1.5	230	40	12	NO	023-538	
2.2	230	60	18	NO	023-542	

For three phase 415v and single phase 230v control panels with built in capacitors, overload and optional low level protection see page 26.



GUARDIAN CONTROLS

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Guardian gives dry run protection without probes in the well – the control box replaces the standard control box and monitors motor power factor. It trips out and retries at 20, 45, & 90 minute intervals to see if water level has recovered – if not it turns the power off to protect the motor. Replaces existing control box and can be wired to pressure switches "etc".

kW	VOLT	CAPACITOR	OVER LOAD	MODEL	CODE	PRICE
0.37-2.2	230	TO SUIT*	1-18A	GUARDIAN ME	023-568	
0.37-2.2	415	N/A	1-9A	GUARDIAN 1E	023-564	
3-7.5	415	N/A	10-20A	GUARDIAN 2E	023-566	

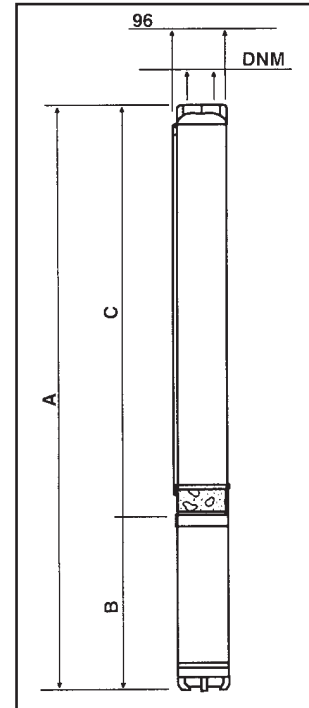
*For capacitors see page 118



SCM 4 PLUS MULTISTAGE BOREHOLE CARTRIDGES

TABLE FOR CALCULATING PUMP LENGTH

MODEL	A Total Length mm	B Motor Length mm	C Pump Length mm	DNM	Total Weight Kg.	
SCM 4 PLUS 40/57 M	576	242	334	1 1/4"	11.8	
SCM 4 PLUS 40/57 T	557	223	334		10.8	
SCM 4 PLUS 40/90 M	717	271	446		14.0	
SCM 4 PLUS 40/90 T	688	242	446		12.7	
SCM 4 PLUS 40/120 M	857	299	558		16.1	
SCM 4 PLUS 40/120 T	829	271	558		14.9	
SCM 4 PLUS 40/185 M	1109	327	782		19.2	
SCM 4 PLUS 40/185 T	1081	299	782		17.9	
SCM 4 PLUS 40/240 M	1339	356	983		22.2	
SCM 4 PLUS 40/240 T	1310	327	983		20.8	
SCM 4 PLUS 55/50 M	509	242	267		1 1/4"	11.3
SCM 4 PLUS 55/50 T	490	223	267			10.3
SCM 4 PLUS 55/80 M	628	271	357			13.1
SCM 4 PLUS 55/80 T	599	242	357			11.8
SCM 4 PLUS 55/105 M	700	299	401			14.9
SCM 4 PLUS 55/105 T	672	271	401			13.7
SCM 4 PLUS 55/160 M	862	327	535			17.3
SCM 4 PLUS 55/160 T	834	299	535			16.0
SCM 4 PLUS 55/200 M	1026	356	670			19.8
SCM 4 PLUS 55/200 T	997	327	670			18.4
SCM 4 PLUS 55/300 T	1317	356	961	22.3		
SCM 4 PLUS 75/40 M	545	242	303	1 1/4"		11.2
SCM 4 PLUS 75/40 T	526	223	303			10.2
SCM 4 PLUS 75/56 M	631	271	360			12.9
SCM 4 PLUS 75/56 T	602	242	360		11.6	
SCM 4 PLUS 75/75 M	744	299	445		14.8	
SCM 4 PLUS 75/75 T	716	271	445		13.6	
SCM 4 PLUS 75/110 M	915	327	588		17.1	
SCM 4 PLUS 75/110 T	887	299	588		15.8	
SCM 4 PLUS 75/140 M	1058	356	702		19.4	
SCM 4 PLUS 75/140 T	1029	327	702		18.0	
SCM 4 PLUS 75/210 T	1372	356	1016		21.5	
SCM 4 PLUS 115/30 M	488	242	246		1 1/4"	11.0
SCM 4 PLUS 115/30 T	469	223	246			10.0
SCM 4 PLUS 115/50 M	602	271	331			12.8
SCM 4 PLUS 115/50 T	573	242	331	11.5		
SCM 4 PLUS 115/65 M	687	299	388	14.4		
SCM 4 PLUS 115/65 T	659	271	388	13.2		
SCM 4 PLUS 115/95 M	829	327	502	16.6		
SCM 4 PLUS 115/95 T	801	299	502	15.3		
SCM 4 PLUS 115/122 M	973	356	617	18.8		
SCM 4 PLUS 115/122 T	944	327	617	17.4		
SCM 4 PLUS 115/185 T	1202	356	846	20.8		
SCM 4 PLUS 115/245 T	1525	423	1102	25.0		
SCM 4 PLUS 150/42 M	652	299	353	2"		14.0
SCM 4 PLUS 150/42 T	624	271	353			12.8
SCM 4 PLUS 150/64 M	790	327	463		16.1	
SCM 4 PLUS 150/64 T	762	299	463		14.8	
SCM 4 PLUS 150/84 M	929	356	573		18.3	
SCM 4 PLUS 150/84 T	900	327	573		16.9	
SCM 4 PLUS 150/120 T	1141	356	786		20.1	
SCM 4 PLUS 150/170 T	1466	423	1043		24.2	
SCM 4 PLUS 150/200 T	1816	590	1226		33.1	
SCM 4 PLUS 150/300 T	2407	704	1703		42.3	
SCM 4 PLUS 250/53 M	951	356	595		2"	18.0
SCM 4 PLUS 250/53 T	922	327	595			15.6
SCM 4 PLUS 250/78 T	1186	356	830			18.0
SCM 4 PLUS 250/100 T	1550	514	1036			23.9
SCM 4 PLUS 250/127 T	1833	590	1243	29.6		
SCM 4 PLUS 250/185 T	2462	704	1758	42.6		
SCM 4 HF 400/30 M	914	384	530	2"	21.5	
SCM 4 HF 400/30 T	857	327	530		19.0	
SCM 4 HF 400/50	1036	356	680		21.5	
SCM 4 HF 400/80	1664	584	1080		33.0	
SCM 4 HF 400/100	2258	698	1560		39.4	



SCM 4 PLUS CARTRIDGE SHOWN WITH MOTOR

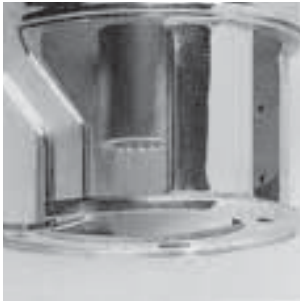
SCM 4 PLUS MULTISTAGE BOREHOLE CARTRIDGES

4" MULTISTAGE CENTRIFUGAL BOREHOLE CARTRIDGES

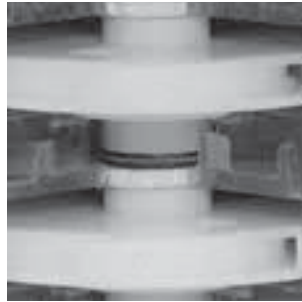
The SCM 4 PLUS submersible cartridges consist of a multistage pumping unit. Especially suitable for pumping from deep 4" (100mm) Ø wells.

DESIGN FEATURES

Delivery connection, suction flange, pump casing, non return valve in AISI 304 stainless steel
Shaft in AISI 303 stainless steel
Acetal resin impellers
Polycarbonate diffusers with ceramic insert at the point of wear
Polycarbonate diffuser caps with stainless steel insert
Thrust ring inserted in every stage



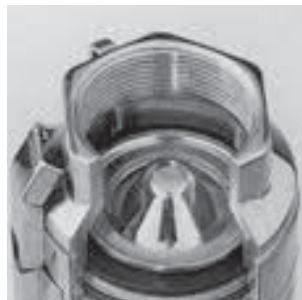
Motor bracket and suction point in microcast AISI 304 stainless steel rigidly welded to the outer stainless steel liner. Stainless steel suction grid.



Floating impeller with suction point shim made of stainless steel, moulded on to the diffuser cover. Carbon thrust bearing inserted between the hub of the impeller and the ceramic running surface.



Shaft guide bearing made with a self-lubricating closed bush in molybdenum bisulphide polyamide and stainless steel shaft with ceramic insert at the point of wear.



Delivery connection point in microcast AISI 304 stainless steel with an internal tapered double profile with a stainless steel non return valve and a double slot for safety cable.

TYPES OF LIQUID

Clean water non aggressive, non explosive and free of solids

Maximum liquid temperature 30°C

APPLICATIONS INCLUDE

Pumping from drilled wells

Automatic systems for garden irrigation

Surface irrigation for agricultural use

Pumping and supply of stored deposits or of booster autoclaves for civil and industrial systems



SCM 4 PLUS CARTRIDGE

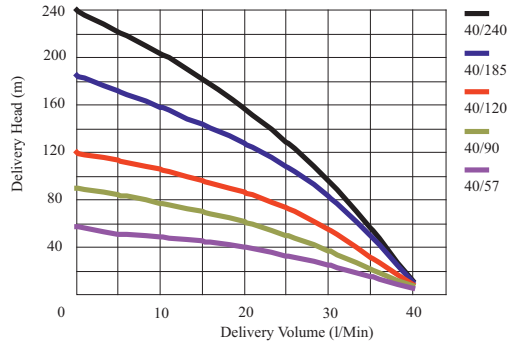
WELL AND BOREHOLE PUMPS

SCM 4 PLUS BOREHOLE CARTRIDGES

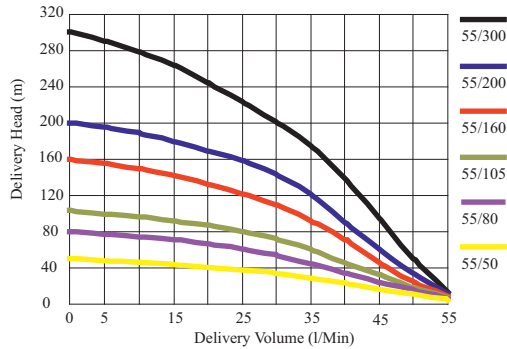
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Select required cartridge, note the kw required then choose a motor, 230v or 415v from page 111. If you require capacitor/overload protection please see pages 26 & 111. Standard nema mounting, rotation check required if not using our motors.

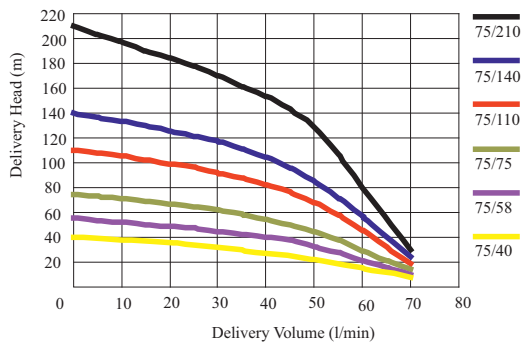
MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 40-57	0.37	1 1/4"	40/57	105-0010	
4 Plus 40-90	0.55	1 1/4"	40/90	105-0020	
4 Plus 40-120	0.75	1 1/4"	40/120	105-0030	
4 Plus 40-185	1.1	1 1/4"	40/185	105-0040	
4 Plus 40-240	1.5	1 1/4"	40/240	105-0050	



MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 55-50	0.37	1 1/4"	55/50	105-0060	
4 Plus 55-80	0.55	1 1/4"	55/80	105-0070	
4 Plus 55-105	0.75	1 1/4"	55/105	105-0080	
4 Plus 55-160	1.1	1 1/4"	55/160	105-0090	
4 Plus 55-200	1.5	1 1/4"	55/200	105-0100	
4 Plus 55-300	2.2	1 1/4"	55/300	105-0110	



MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 75-40	0.37	1 1/4"	75/40	105-0120	
4 Plus 75-56	0.55	1 1/4"	75/56	105-0130	
4 Plus 75-75	0.75	1 1/4"	75/75	105-0140	
4 Plus 75-110	1.1	1 1/4"	75/110	105-0150	
4 Plus 75-140	1.5	1 1/4"	75/140	105-0160	
4 Plus 75-210	2.2	1 1/4"	75/210	105-0170	



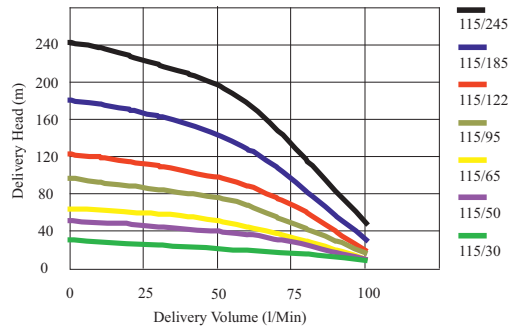
WELL AND BOREHOLE PUMPS

SCM 4 PLUS BOREHOLE CARTRIDGES

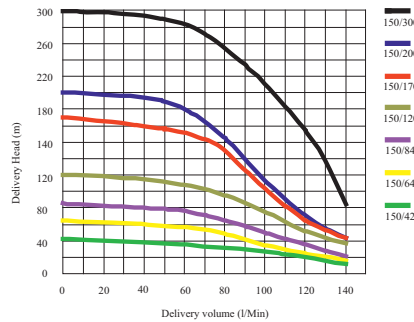
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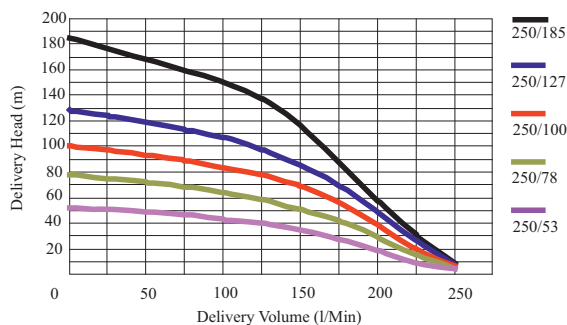
MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 115-30	0.37	1 1/4"	115-30	105-0180	
4 Plus 115-50	0.55	1 1/4"	115-50	105-0190	
4 Plus 115-65	0.75	1 1/4"	115-65	105-0200	
4 Plus 115-95	1.1	1 1/4"	115-95	105-0210	
4 Plus 115-122	1.5	1 1/4"	115-122	105-0220	
4 Plus 115-185	2.2	1 1/4"	115-185	105-0230	
4 Plus 115-245	3.0	1 1/4"	115-245	105-0240	



MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 150-42	0.75	2"	150-42	105-0250	
4 Plus 150-64	1.1	2"	150-64	105-0260	
4 Plus 150-84	1.5	2"	150-84	105-0270	
4 Plus 150-120	2.2	2"	150-120	105-0280	
4 Plus 150-170	3	2"	150-170	105-0290	
4 Plus 150-200	4	2"	150-200	105-0300	
4 Plus 150-300	5.5	2"	150-300	105-0310	



MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
4 Plus 250-53	1.5	2"	250/53	105-0320	
4 Plus 250-78	2.2	2"	250/78	105-0330	
4 Plus 250-100	3	2"	250/100	105-0340	
4 Plus 250-127	4	2"	250/127	105-0350	
4 Plus 250-185	5.5	2"	250/185	105-0360	



SCM 4 PLUS BOREHOLE CARTRIDGES

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Select required cartridge, note the kw required then choose a motor, 230v or 415v from page 111.
If you require capacitor/overload protection please see pages 26 & 111.
Standard nema mounting, rotation check required if not using our motors.

MODEL	kW REQUIRED	OUTLET	LM/HM	CODE	PRICE
SCM 4 HF 400-30	1.5	2"	400/30	105-7980	
SCM 4 HF 400-50	2.2	2"	400/50	105-7990	
SCM 4 HF 400-80	4.0	2"	400/80	105-8000	
SCM 4 HF 400-100	5.5	2"	400/100	105-8010	

