

SOUTHERN CROSS AND CLIMAX WINDMILL SELECTION CHART

DEPTH OF WATER	WATER TO BE PUMPED ON AVERAGE DAY LITRES									
	3700	5000	7500	10000	15000	20000	25000	30000	45000	
5 METRES	2.5 M 50 MM 40 MM 12 MM	2.5 M 50 MM 40 MM 12 MM	2.5 M 64 MM 40 MM 12 MM	2.5 M 76 MM 50 MM 12 MM	2.5 M 90 MM 50 MM 12 MM	2.5 M 102 MM 76 MM 12 MM	2.5 M 128 MM 76 MM 12 MM	2.5 M 128 MM 76 MM 12 MM	<u>2.5 M</u> <u>153 MM</u> <u>76 MM</u> <u>12 MM</u>	SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
10 METRES	2.5 M 50 MM 40 MM 12 MM	2.5 M 50 MM 40 MM 12 MM	2.5 M 64 MM 40 MM 12 MM	2.5 M 76 MM 40 MM 12 MM	2.5 M 90 MM 64 MM 12 MM	2.5 M 102 MM 76 MM 12 MM	<u>2.5 M</u> <u>128 MM</u> <u>76 MM</u> <u>12 MM</u>	3.0 M 128 MM 76 MM 12 MM	<u>3.0 M</u> <u>153 MM</u> <u>76 MM</u> <u>12 MM</u>	SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
15 METRES	2.5 M 50 MM 40 MM 12 MM	2.5 M 50 MM 40 MM 12 MM	2.5 M 64 MM 40 MM 12 MM	2.5 M 76 MM 50 MM 12 MM	<u>2.5 M</u> <u>90 MM</u> <u>50 MM</u> <u>12 MM</u>	3.0 M 102MM 64 MM 16 MM	3.0 M 128 MM 76 MM 16 MM	<u>3.0 M</u> <u>128 MM</u> <u>76 MM</u> <u>16 MM</u>	<u>3.7 M</u> <u>153 MM</u> <u>76 MM</u> <u>16 MM</u>	SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
20 METRES	2.5 M 50 MM 40 MM 12 MM	2.5 M 50 MM 40 MM 12 MM	2.5 M 64 MM 40 MM 12 MM	<u>2.5 M</u> <u>76 MM</u> <u>50 MM</u> <u>12 MM</u>	3.0 M 90 MM 64 MM 16 MM	<u>3.0 M</u> <u>102 MM</u> <u>64 MM</u> <u>16 MM</u>	3.7 M 102 MM 76 MM 16 MM	<u>3.7 M</u> <u>128 MM</u> <u>76 MM</u> <u>16 MM</u>	<u>4.3 M</u> <u>153 MM</u> <u>76 MM</u> <u>16 MM</u>	SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
25 METRES	2.5 M 50 MM 40 MM 12 MM	2.5 M 50 MM 40 MM 12 MM	<u>2.5 M</u> <u>64 MM</u> <u>40 MM</u> <u>12 MM</u>	3 M 90 MM 64 MM 16 MM	<u>3.0 M</u> <u>102 MM</u> <u>76 MM</u> <u>16 MM</u>	3.7 M 102 MM 76 MM 16 MM	<u>3.7 M</u> <u>128 MM</u> <u>76 MM</u> <u>16 MM</u>	<u>4.3 M</u> <u>128 MM</u> <u>76 MM</u> <u>20 MM</u>		SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
30 METRES	2.5 M 50 MM 40 MM 12 MM	<u>2.5 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>	3.0M 64 mm 40 MM 12 MM	<u>3.0 M</u> <u>76 MM</u> <u>50 mm</u> <u>16 MM</u>	3.7 M 90MM 64 MM 16 MM	<u>3.7 M</u> <u>102 MM</u> <u>64 MM</u> <u>16 MM</u>	<u>4.3 M</u> <u>128 MM</u> <u>64 MM</u> <u>16 MM</u>			SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
40 METRES	<u>2.5 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>	3.0 M 50 MM 40 MM 12 MM	<u>3.0 M</u> <u>64 MM</u> <u>40 MM</u> <u>12 MM</u>	3.7 M 76 MM 50 MM 16 MM	<u>3.7 M</u> <u>76 MM</u> <u>50 MM</u> <u>16 MM</u>	<u>4.3 M</u> <u>90 MM</u> <u>75 MM</u> <u>16 MM</u>				SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
50 METRES	3.0 M 50 MM 40 MM 12 mm	<u>3.0 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>	3.7 M 64 MM 40 MM 12 MM	<u>3.7 M</u> <u>76 MM</u> <u>50 MM</u> <u>16 MM</u>	<u>4.3 M</u> <u>90 MM</u> <u>64 MM</u> <u>16 MM</u>					SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
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70 METRES	<u>3.0 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>	4.3 M 64 MM 40 MM 12 MM	4.3 M 76 MM 50 MM 12 MM	<u>4.3 M</u> <u>76 MM</u> <u>50 MM</u> <u>16 MM</u>						SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
80 METRES	3.7 M 50 MM 50 MM 12 MM	<u>3.7 M</u> <u>50 MM</u> <u>50 MM</u> <u>12 MM</u>	<u>4.3 M</u> <u>64 MM</u> <u>50 MM</u> <u>12 MM</u>							SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
90 METRES	3.7 M 50 MM 40 MM 12 MM	<u>3.7 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>								SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
100 METRES	4.3 M 50 MM 40 MM 12 MM	<u>4.3 M</u> <u>50 MM</u> <u>40 MM</u> <u>12 MM</u>								SIZE MILL SIZE PUMP SIZE PIPE SIZE PUMPROD
	0.3	0.5	0.7	0.9	1.4	1.9	2.4	2.8	4.2	
REQUIRED TESTED BOREHOLE YIELD IN LITRES PER SECOND										

Tested borehole yield of 1.4 litres per second		3.7 M	SIZE MILL
Borehole depth of 30 metres	Read from table and choose	90MM	SIZE PUMP
Required water supply of 15000 litres per day		64 MM	SIZE PIPE
		16 MM	SIZE PUMPROD



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