

Mono Pumps Computer Aided Solar Simulation

Quotation Number centrop13

System Type Sun Ray SRX
 System Size [w] 525
 Array Type Stationary
 Country Italy
 Location FIRENZE 1
 Latitude 43.50
 Longitude 11.10
 Array Tilt Angle 44

Static Head [m] 6
 Pipe Length [m] 370
 Pipe Size 32mm Metric Class 6.3
 Cable Length [m] 20
 Cable Size [mm] 2.50
 Water Temp [deg C] 25
 % of Max Flow 100.0 %

MPPT Size SUN CBLDC2000A
 Motor Size SUN BLDC700W
 Pump Size SUN 700CP800H
 Drive Ratio 1.0
 System Part Number SRX0525FA035P

Typical Performance at 1000W/m ²	
Flow [L/min]	46.4
Friction Head [m]	27.6
Total Head [m]	33.6
Pump Speed	1263
Pump Efficiency	67%
Motor Efficiency	89%
Cable Loss	1%
System Efficiency	57%

Month	Daily Flow [m ³ /day]	Horizontal Irradiation
January	5.2	0.8
February	10.6	1.7
March	13.8	2.6
April	18.5	4.4
May	21.4	5.9
June	21.9	6.4
July	22	6.4
August	21.1	5.4
September	17.7	3.9
October	14.7	2.4
November	8.9	1.2
December	5.6	0.8
Average	15.1	3.5

Notes

525 watt surface irrigation

