

# Mono Pumps Computer Aided Solar Simulation

Quotation Number centrop12

System Type Sun Ray SRX

System Size [w] 350

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 BLDC700CP25

Pump Size SUN 700CP25H

Drive Ratio 1.0

System Part Number SRX0350FA050P

## Typical Performance at 1000W/m<sup>2</sup>

Flow [L/min]	38.1
Friction Head [m]	19.1
Total Head [m]	25.1
Pump Speed	1001
Pump Efficiency	65%
Motor Efficiency	87%
Cable Loss	1%
System Efficiency	55%

Month	Daily Flow [m <sup>3</sup> /day]	Horizontal Irradiation
January	3	0.8
February	8.3	1.7
March	10.3	2.6
April	14.2	4.4
May	17	5.9
June	17.4	6.4
July	17.5	6.4
August	15.7	5.4
September	14.1	3.9
October	10.5	2.4
November	5.8	1.2
December	4.3	0.8
<b>Average</b>	<b>11.5</b>	<b>3.5</b>

## Notes

350 watt surface irrigation

