

Mono Pumps Computer Aided Solar Simulation

Quotation Number centrop1

System Type Sun Ray SRX

System Size [w] 175

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] 100

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 SRX0175FA040P

Typical Performance at 1000W/m²

Flow [L/min]	33.0
Friction Head [m]	4.0
Total Head [m]	10
Pump Speed	1742
Pump Efficiency	60%
Motor Efficiency	60%
Cable Loss	0%
System Efficiency	35%

Month	Daily Flow [m ³ /day]	Horizontal Irradiation
January	2	0.8
February	4.8	1.7
March	6.5	2.6
April	9.6	4.4
May	11.6	5.9
June	11.9	6.4
July	12.2	6.4
August	11.4	5.4
September	9.5	3.9
October	7.1	2.4
November	3.7	1.2
December	2.2	0.8
Average	7.7	3.5

Notes

175 watt surface

