# **Example of using Grundfos Sizing Software**

### Step 1: Go to www.Grundfos.com and click on Grundfos Product Center



#### Step 2: Click on Sign in >> Register account



## Step 3: Create a user profile by entering your names, e-mail address, password & other details and click register

GRUNDFOS LOGIN - REGISTER
Email
Password
Repeat password
Firstname
Lastname

Step 4: Once the account is created, log in using your new credentials (Logging in allows you to customize as well as save your designs/projects).

GRUNDFOS X		
ONE FREE ACCOUNT	GRUNDFOS LOGIN	
TO ALL GRUNDFOS ONLINE SERVICES	Email andegwa@oxfam.org.uk	
To help you with pump selection, pumping station design and training for our products and solutions, Grundfos provides a range of	Remember me	
online tools, free of charge. Signing up for our selection, sales and	Sign up Reineunassource	Enter details and Log in
help and guidance that saves you time and makes life easier.		

### Step 5: Once logged in, scroll down the page and click on "advanced sizing by application"

Products 👽 Input p	product number or a whole	e or partial product name		Q SEARCH			
<b>Sizing</b> Enter pump sizing		Catalogue Products and services	<b>Replacement</b> Replace an old pump with a new	Liquids     Find pump by liquid			
ick sizing Advar Enter duty point:	nced sizing by applicati	on Select what to	size by:	Click on advanced sizing by a	pplicat		
Flow (Q)*	m²/h	Size by ap	plication				

Step 6: This leads to the **data input page** below where you customize the data using the outlined steps

Quick sizing	Advanced sizing by applicati	on Guided select	tion	1. Set application	as Renewable energy s	ystems
Application	Heating	,	Help me select	ick sizing Advanced sizing	by application Guided selection	DN
Application ar	ea Commore	al buildings	Hala ma calent	Application	Heating	Help me select
/ ppileation ai	Commerc	ai bullulligs +	help nie select	Application area Heating Air-conditioning		lelp me select
Installation typ	Distribution	n 🔻	r	Installation type	Pressure boosting Groundwater supply Domestic water supply and rain w	ater
Installation				Installation	Wastewater Industrial applications	Help me select
	Main ci		loop Help me select	Flow (Q)*	Dosing & Disinfection Renewable energy systems	alculate
Flow (Q)*		m³/h 🔻	Calculate	Head (H)*	m v	Calculate
Head (H)*		m 🔻	Calculate			
Evaluation cri	terion Preference	e index 🔻	·			



Month for sizing	July	Calculate		8. Customize the solar the module to be us the provided Grund	module characteristics based on ed in the design. You can also use fos module for design)
Solar modules	GF 270	<ul> <li>Calculate</li> </ul>		SOLAR MODULES	
Second choice for solar module	None	¥		Solar modules GF 2	70 🔹
Maximum ambient temperature	308 K			Input mode  W Brand Gi	ew C Edit
Expand all   Collapse all	Show full width			- max Vmp	270 Wp 31.8 V
▼ Your requirements (Cable si	ze (pump), Cable length (pump),	Cable loss (pump))		imp Moc	8.76 A 38,4 V
Cable size (pump)	Any (mm2)	9. Enter ca	ble length	μVoc	0.11 A -0.31 %//
Cable length (pump)	m	and allo	wable	Ns	0.05000 %AK
Cable loss (pump)	2 %			ACELL	243,4 om <sup>7</sup>
				Crystalline	Jul Onm
Operational conditions (Min	imum ambient temperature. Sun t	tracking User-defined day)		NDCT	319 K
, oporational considerio		addining, ocor donnod dayy		Toref	0.8 kWm*
▶ Pump design (Pump materia	l, Pump outlet)			Tref	1 kWm²
▼ System configuration (Water	dispenser, Solution, Switch box, (	Control unit, Level switch)			
Water dispenser					
Solution	Integrated or external	Integrated O External (RSI)			
Switch box	1050	*			
Control unit	CU 200 control unit     CI	U 273 (Remote management) O No	ne		
Level switch					
Include battery back-up					
Frequency	● <del>50 H</del> z · ◯ 60 Hz		10 Select the system	m configuration	7
Solar inverter RSI			The RSI inverter	is selected based on the	
Wirekits for solar modules	Standard range 3x380VAC Low voltage range 3x220VAC		power range for operation	the country of	

Step 7: After checking all required data has been input, click on Start Sizing. The system will do a background run and return results with several options of all suitable products for your design

ALL	SUITAE	BLE PROD	UCTS (8)														-
	Batch	actions: EXPORT TO	- AD	D TO P	ROJECT -	Table s	ize: Show full width										
		System	Product No	Info	Pump	Product number	Solar Inverter	Product number	Solar modules	Solar array power [kWp]	Water [m³/year]	Average water [m³/day]	Water [I/Wp/day]	Water in month for sizing [m³/day]	January	April	July
	<u>lq</u>	х	12A01911 +	0	SP 17-11	99044363	RSI 3x380-440V IP66 11kW 23A	99299012	36 x GF 270	9.72	50600	<mark>138.6</mark>	14.3	<mark>130.9</mark>	<mark>1</mark> 42.9	134.6	130.9
	Q	x	12A01910 +	0	SP 17-10	99044352	RSI 3x380-440V IP66 7.5kW 16A	99299012	36 x GF 270	9.72	46900	128.5	13.2	123.8	131.1	<mark>126</mark> .2	123.8
	Lq.	x	986993 <mark>61</mark> +	0	SP 14-23	99044352	RSI 3x380-440V IP66 7.5kW 16A	99299012	36 x GF 270	9.72	46700	128.1	13.2	121.8	131.5	124.8	121.8
	LQ;	x	12A01909 +	0	SP 17-9	99044352	RSI 3x380-440V IP66 7.5kW 16A	99 <mark>299012</mark>	36 x GF 270	9.72	45700	125.1	12.9	120.8	127.7	122.6	120.8
	Ŀą	х	98699360 +	0	SP 14-20	99044352	RSI 3x380-440V IP66 7.5kW 16A	99299012	36 x GF 270	9.72	45900	125.9	13	120.4	129.1	122.7	120.4
	LQ.	×	12A01908 +	0	SP 17-8	99044352	RSI 3x380-440V IP66 7.5kW 16A	99299012	36 x GF 270	9.72	41100	112.6	11.6	109.1	114.3	111.1	109.1
	Q	х	98699359 +	0	SP 14-17	99044351	RSI 3x380-440V IP66 5.5kW 12A	99299012	36 x GF 270	9.72	41000	112.3	11.6	<mark>108.1</mark>	114.6	<mark>10</mark> 9.7	108.1
	ĿQ.	x	13A01908 +	0	SP 30-8	99044363	RSI 3x380-440V IP66 11kW 23A	99299012	36 x GF 270	9.72	42200	115.7	11.9	104.3	122.3	109.7	104.3

Step 8: Double click on any of the options to view more details. To print or save the selection, click on PRINT/PDF



Step 9: Select preferences to view and click on generate PDF. At minimum ensure 'sizing result' is selected



Step 10: Save PDF in a desired location on your computer/drive and open to view sizing details

