

Grundfos Product Center - Pump configurator tool

How to change a pump configuration to match your design or system building needs in an effective and exact way

GRUNDFOS 

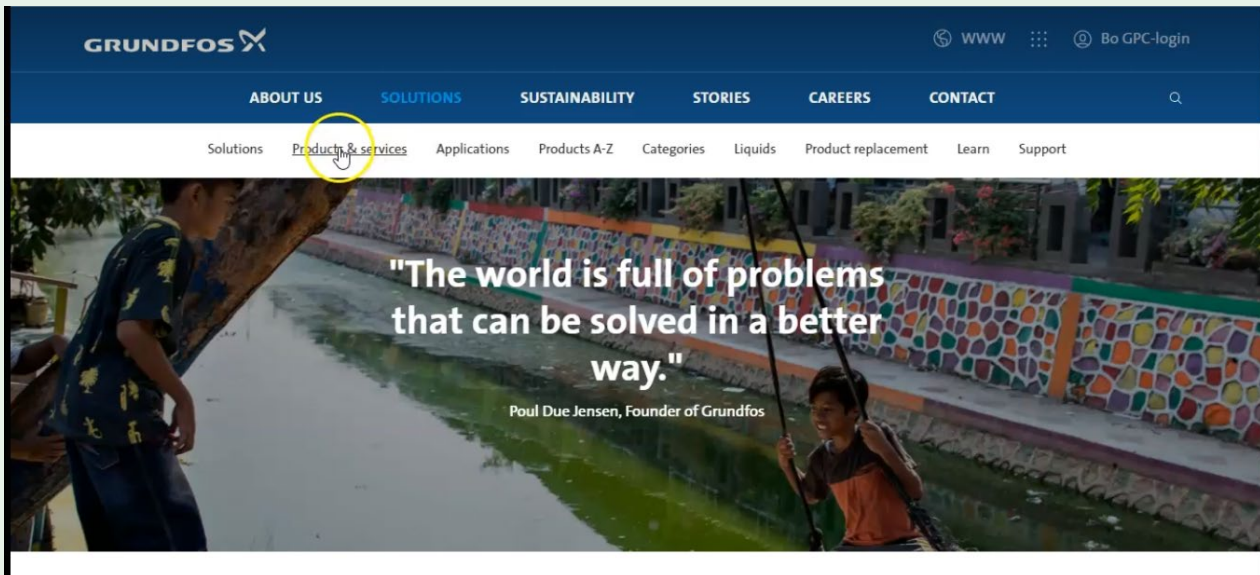
Possibility in every drop

How to access to Grundfos Configurator tool

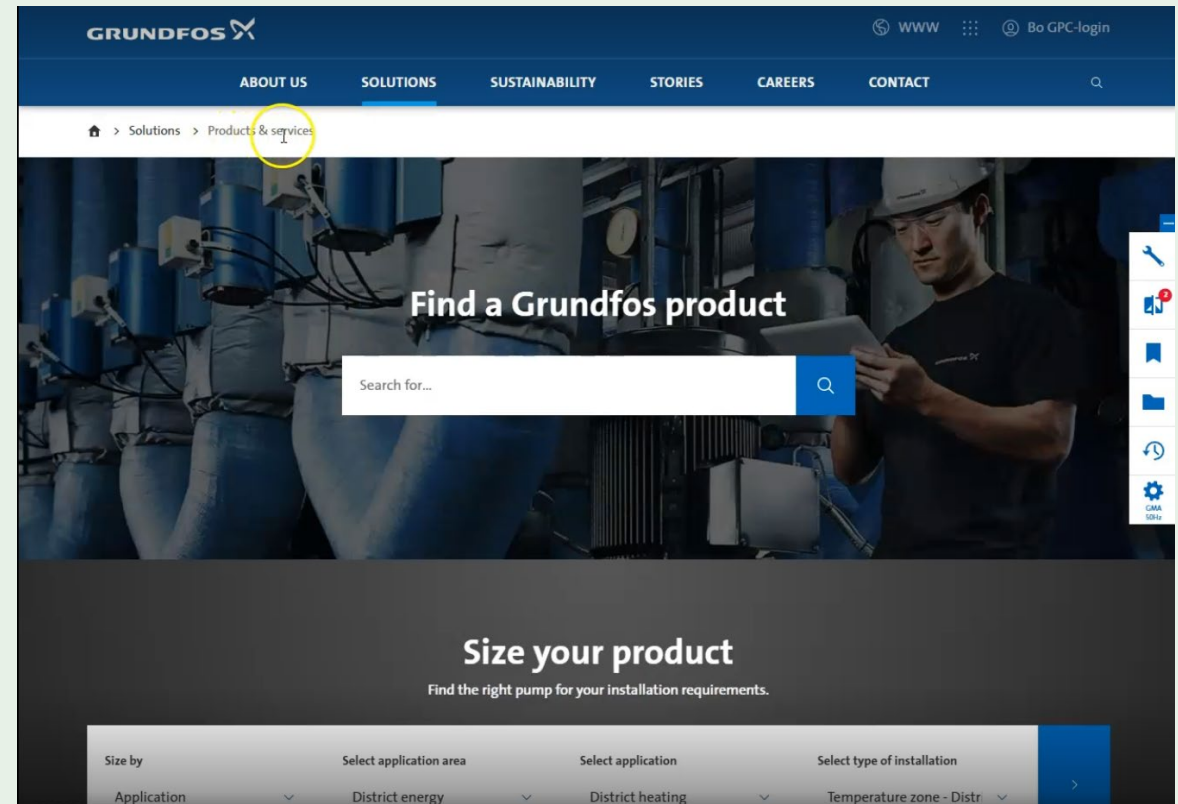


- Go to Grundfos Product Center front page.
- At the top menu, select SOLUTIONS and then click on PRODUCT & SERVICES option at the top menu.
- IMPORTANT NOTE: To use Grundfos Configurator, you don't need to be logged in but it's always benefit to do so as you will have more tool options and features available.

1



2



Look for the pump you want to change the configuration



- Insert the code or name of the pump at the search browser to start the configuration.
- In the example we will work with a CRN 5-3 to see the possibilities you have to change its configuration.

1

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WWW Bo GPC-login

ABOUT US SOLUTIONS SUSTAINABILITY STORIES CAREERS CONTACT

Solutions > Products & services

Find a Grundfos product

96559543

Size your product
Find the right pump for your installation requirements.

2

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ABOUT US SOLUTIONS SUSTAINABILITY STORIES CAREERS CONTACT

Solutions > Products & services > Products A-Z > CR, CRE, CRI, CRN, CRNE, ... > CRN > CRN 5-3 A-CA-A-E-HQQE

CRN 5-3 A-CA-A-E-HQQE

Product number 96559543

Suitable for

- Drip micro spray
- Frost protection
- Pivot pressure boosting
- Commercial air conditioning
- Commercial fire protection
- Commercial heating
- Commercial water pressure boosting
- District cooling
- District heating
- Drinking water treatment
- Irrigation
- Industrial cooling
- Desalination
- Industrial heating
- Machining
- Industrial process water treatment
- Industrial cleaning process
- Industrial water supply & transfer
- Industrial wastewater treatment & reuse
- Solar water solutions
- Surface water intake
- Water distribution

Size your product

Go to the SPECIFICATIONS tab and click on the CONFIGURE option



- Once the data sheet of the pump is shown, you can you need to select the SPECIFICATION tab that you will find below the general description of the pump.
- Go to CONFIGURE button at the right part of the page and click on it. A configuration window will pop so you can start the pump customization.

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Can't find the variants that fits your need?
Try our configure tool to find the variant to fit your specifications.

Product name	CRN 5-3 A-CA-A-E-HQQE	Liquid	
Product No	96559543	Pumped liquid	Water
EAN number	5700399247073	Liquid temperature range	-20 .. 120 °C
Price		Selected liquid temperature	20 °C
		Density	998.2 kg/m ³
Technical		Electrical data	
Pump speed on which pump data are based	2856 rpm	Motor standard	IEC
Actual calculated flow	5.719 m ³ /h	Motor type	71B
Resulting head of the pump	15.24 m	IE Efficiency class	IE3
Maximum head	22 m	Rated power - P2	0.55 kW
Stages	3	Power (P2) required by pump	0.55 kW
Impellers	3	Mains frequency	50 Hz
Number of reduced-diameter impellers	0	Rated voltage	3 x 380-415D V
Low NPSH	N	Rated current	1.44 A

2

Configure your solution

Customize and configure your solution by modifying an existing standard product to your specific needs. The configuration is preset with some of the values from your previous selection. For optimum flexibility, not all inputs are preset.

Fill out all the tabs from left-to-right and top-to-bottom, starting with the first tab and moving forward.

SMCR - 20181002 - 35

BASIC PUMP SEALS MOTOR SPEC MOTOR SEL OTHER

Select parameters

Need help to configure? [Download guide](#)

Motor standard * IEC

Frequency converter * None

Frequency pump [Hz] * 50 Hz

Nominal speed [rpm] * 3000

Configuration History Update Curve

Auto Update Curve

Total list price: On request

EMPTY CONFIGURATION UNDO CANCEL APPLY CHANGES

Start your configuration



- At this section you can customize and configure your solution by modifying an existing standard product to your specific needs.
- The configurator is preset with some of the values from your previous selection. For optimum flexibility, not all inputs are preset.
- Fill out all the tabs from left-to-right and top-to-bottom, starting with the first tab and moving forward.
- There are four options to customize: PUMP, SEALS, MOTOR SPECIFICATIONS & MOTOR SELECTION where you will need to fill your input.
- You can have a look to the CONFIGURATION HISTORY and track all your input and values selected through the configuration.
- Once you have filled all the fields and complete the motor selection, you have the UPDATE CURVE option to see the new performance and duty point of the new pump configured.

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Configure your solution

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SMCR - 20181002 - 35

BASIC **PUMP** SEALS MOTOR SPEC MOTOR SEL OTHER

Select parameters

Need help to configure? [Download guide](#)

Motor standard * IEC

Frequency converter * None

Frequency pump [Hz] * 50 Hz

Nominal speed [rpm] * 3000

Pump type designation * CRN

Pump size (flow) * 5

Number of impellers * 3

Low NPSH No

Magnetic drive

CONFIGURATION HISTORY UPDATE CURVE Auto Update Curve

2

BASIC PUMP SEALS **MOTOR SPEC** **MOTOR SEL** OTHER

Select parameters

Need help to configure? [Download guide](#)

Brand, motor * GRUNDFOS

Number of phases * 3 phases

Rated voltage [V] 50Hz * 220-240D/380-415V

IE efficiency class 50Hz * IE3

Motor anticondensation heater * Not relevant

Built-in motor protection None

IP-Class * S5 Dust/letting

Enclosure class * N/A

Functional module Not relevant

Control panel * Not relevant

Motor product number * H5805303

CONFIGURATION HISTORY UPDATE CURVE Auto Update Curve

Q = 5.719 m³/h
H = 19.24 m
P = 2312 W
Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

Eta pump = 61.6 %
Eta pump+motor = 48.9 %

P1 = 484.9 W
P2 = 384.7 W
NPSH = 1.9 m

What if the configuration is not possible or you want to change the hydraulic?



- If a bug signal appears is because that configuration is not possible and you will have to undo the selection. The configurator tool will show you where the conflict is so you can easily identify and resolve it.
- For the best user journey, we recommend that you select the options on each tab from top to bottom and complete each tab from left to right.
- If you want to change the hydraulic inputs and start your configuration from the scratch, then use the EMPTY CONFIGURATION function.

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The screenshot shows the 'SEALS' tab of the Grundfos configurator. A red warning icon and message state: "A conflict has occurred. Use Undo or contact Grundfos for help". Below this, the 'Select parameters' section has several dropdown menus. The 'Type of shaft seal' dropdown is highlighted with a yellow circle. To the right, a performance graph shows head (H) and power (P) curves. A yellow circle highlights a specific point on the graph.

2

The screenshot shows the 'MOTOR SEL' tab of the Grundfos configurator. The 'Select parameters' section is visible, with a dropdown menu for 'Frequency converter' highlighted by a yellow circle. At the bottom of the interface, the 'EMPTY CONFIGURATION' button is circled in yellow. Other buttons like 'CONFIGURATION HISTORY', 'UPDATE CURVE', 'UNDO', 'CANCEL', and 'APPLY CHANGES' are also visible.

Your configuration is done



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- Once you apply all the changes, you will have access to a new specification webpage with all the new parameters, pictures, drawings, etc.
- You create a pdf and share it with customers or internally with other colleagues.
- Product number will be on request based on the former pump selected.
- You can always modify the parameters before the pumps is ordered.
- Grundfos Configurator feature is available in Grundfos Product Center for the CR(E), NB(E), CM(E), MRT(E), MTH(E) and TP(E) ranges.

CRN 5-3 HMP-FGJ-T-E Model number 96559543

VARIANTS SPECIFICATIONS CURVES DRAWINGS DOCUMENTATION SERVICES

Can't find the variants that fits your need?
Try our configure tool to find the variant to fit your specifications. [CONFIGURE](#)

Product name	CRN 5-3 HMP-FGJ-T-E	Liquid	
Product No	On request	Pumped liquid	Water
Based on	96559543	Liquid temperature range	-30 .. 120 °C
EAN number	On request	Selected liquid temperature	20 °C
Price		Density	998.2 kg/m³
Technical		Electrical data	
Pump speed on which pump data are based	2856 rpm	Motor standard	IEC
Actual calculated flow	5.719 m³/h	Motor type	71A
Pump with motor (Yes/No)	Y	IE efficiency class	IE3
Resulting head of the pump	15.24 m	Rated power - P2	0.37 kW
Stages	3	Over/undersize motor	1 step undersized motor
Impellers	3	Mains frequency	50 Hz
Low NPSH	N	Phases	3
Pump orientation	Horizontal	Rated voltage	220-240D/380-415YV V
End suction pump	No	Service factor	1
Pump low temp.	No	Rated current	1.74/1.00 A
Magnetic drive	Yes	Starting current	490-530 %
Shaft seal arrangement	Sealless	Cos phi - power factor	0.80-0.70
CE approved (Yes/No)	Y	Rated speed	2850-2880 rpm

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