Unlocking the Potential: Grundfos Industrial Solution

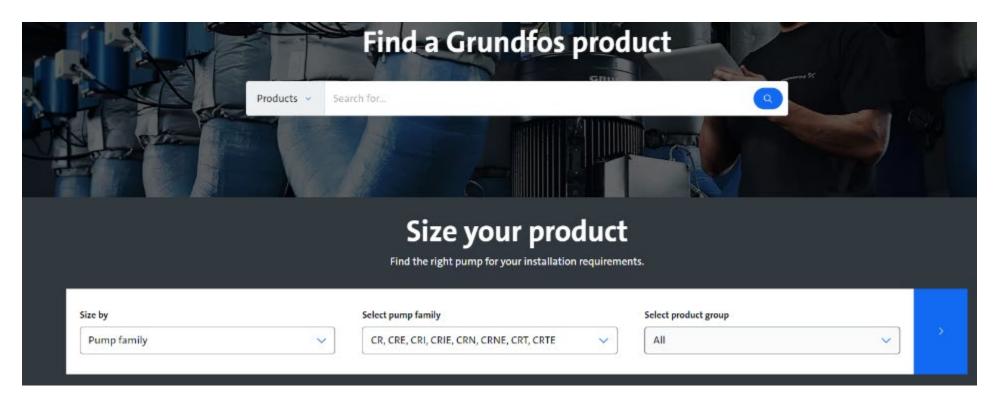


Topics / Agenda

- Grundfos Product Centre
- Optimized Sizing Tool
- What is unique about the optimized sizing function?
- 'Live' run through of 'optimize sizing' function + FAQs
- Q&A

Grundfos Product Centre

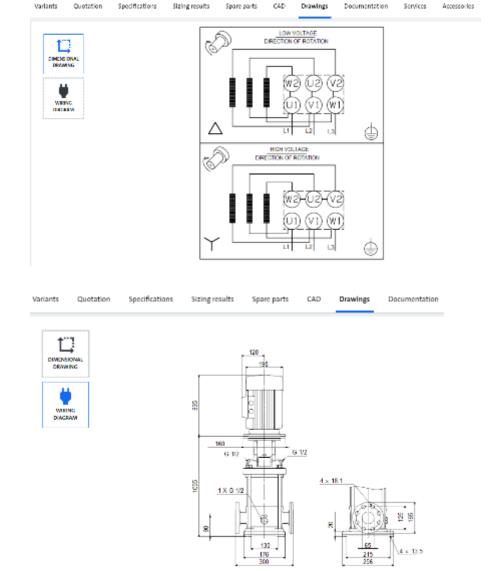
- A visit to Grundfos Product Centre → Truly discover Grundfos Potential !!
- Discover more Grundfos range → Dosing, end suction, inline, submersible, horizontal/vertical multistage, split casing, etc.
- All pump family available for sizing.



- All pump information available:
 - Pump Datasheet
 - Wiring Diagram
 - Dimensional Drawing (2D, 3D, Autocad)
 - Literature (IOM, databooklet, service manual, etc.)

CR 20-17 A-F-A-E-HQQE Model number 96800415

Variants	Quotation	Specifications	Sizing results	Spare parts	CAD	Drawings	Documentation	Services	Accessories	
Product name Product No EAN number			CR 20-17 A-F-A-E-H 96800415 5700310727035	IQQE		Liquid Pumped liq Liquid tem	uid perature range		Water -20 ., 120 °C	
Technical Pump speed o Actual calcular	n which pump d	lata are based	1430 rpm 9.779 m³/h			Selected lie Density Kinematics	uid temperature viscosity		20 °C 998.2 kg/m ³ 1 mm2/s	
Resulting head Maximum hea			51.9 m 62 m			Electric Motor star			IEC	
Stages Impellers Number of red	luced-diameter	impellers	17 17 0			Motor type Rated pow	er - P2		100LB 2.2 kW	
Low NPSH Pump orientat			N Vertical			Power (P2) Mains freq Rated volta			2.2 kW 50 Hz 3 x 380 4150 V	
Shaft seal arra Code for shaft	-		Single HQQE CE,EAC,UKCA,SEPF			Rated curre Starting cu	int		4.9 A 600-660 %	
Approvals Approvals for (Curve tolerand	drinking water se		WRAS,ACS ISO9906:2012.3B	.0		Cos phi - po Rated spee IE Efficience	d		0.79-0.73 1450 rpm IE3	
Pump version Model			A A			Motor effic	iency at full load iency at 3/4 load		86.7 % 87.7-87.2 %	
Materials						Motor effic Number of	iency at 1/2 load poles		87.6-85.6 % 4	

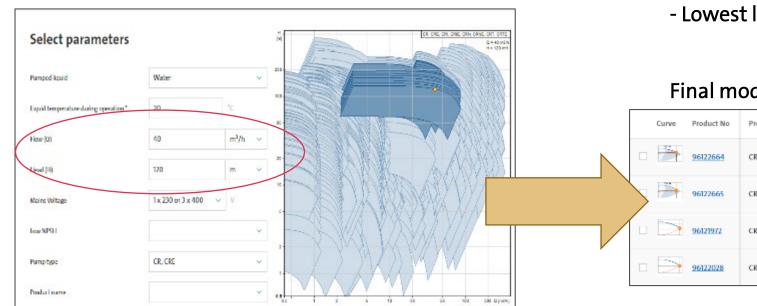


Optimize Sizing Tool

Conventional Sizing

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Which pump should we choose when there is 85 models which match your required flow and head?



Optimize sizing tool

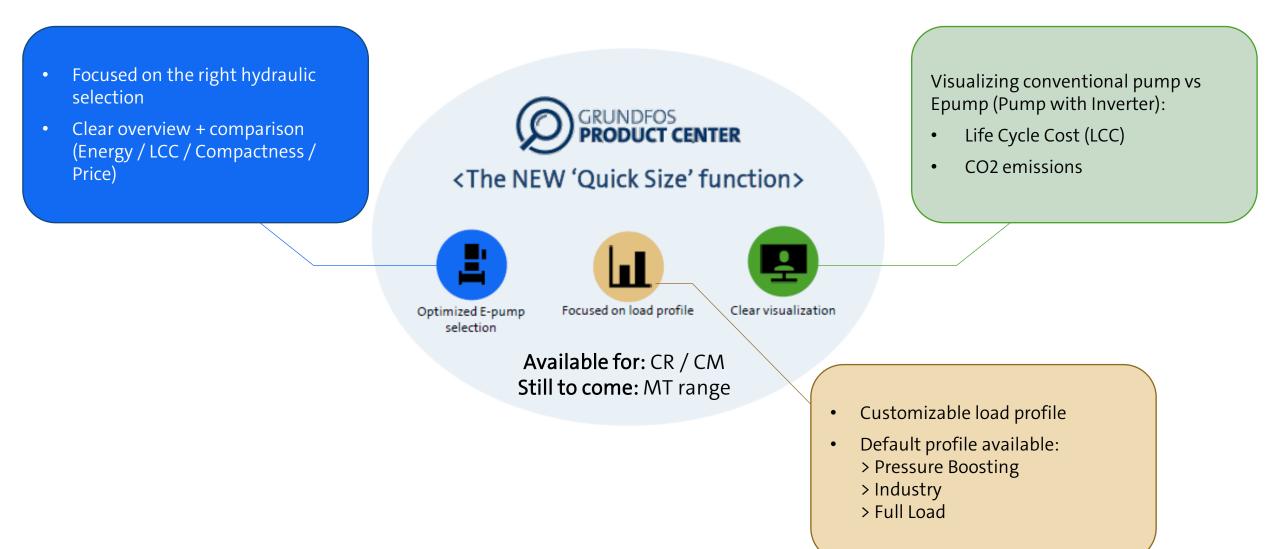
Filter sizing selection base on 4 evaluation criteria:

- Lowest Energy Consumption?
- Lowest investment cost (pump cost)?
- Smallest ?
- Lowest life cycle cost (LCC) ?

Final model lock down to max of 4 models only

	Curve	Product No	Product name	Life cycle cost [EUR/10 years]^	Energy [kWh/year]	Energy costs [EUR /a]	Eta pump [%]	Eta pump+motor [%]
	7	96122664	CRE 32-6	108694	20035	6411.27	73.6	65.1
 >		96122665	CRE 32-7	113170	20327	6504.56	72.4	64.2
		96121972	CR 32-12-2	11/3/8	23183	7418.66	62.4	58.1
		96122028	CR 32-12-2	117378	23183	7418.66	62.4	58.1

Comparizon for Optimizing Sizing Function



Move into... Live Presentation of Tool



Now.. Let's compare again (w and w/o the optimize function)



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	96122028	CR 32-12-2	117378	23183	7418.66	62.4	58.1



Criteria	Product name	P2 [kW]	Energy [kWh/year]	CO2 emission [kg/Year]	Life cycle cost [EUR/10 years]	Price index	Pump + motor length [mm]
Lowest LCC	CRE 32-7	18.5	28264	16100	113589	145	1561
Lowest energy	CRE 32-7	18.5	28264	16100	113589	145	1561
Lowest price	CR 45-6-2	22	38850	22100	140276	100	1621
Most compact	CRE 45-4-2	22	37184	21200	143152	151	1461

Q&A Session



Thank You!

