



# RENTAL BOOKLET

# GRUNDFOS

## RENTAL SERVICES

Grundfos Rentals is a simple, innovative service solution for your pumping system. This flexible solution can be tailored to suit any requirements and consists of a short or long-term rental contract. Contract's monthly rental fee covers renting the product plus any add-on services you need.

This solution means that Grundfos bears the cost of the purchase and maintenance of your pumping system in exchange for a fixed monthly fee.



### Costs are limited

A fixed monthly fee replaces a costly initial investment and gives peace of mind. You know in advance exactly how much your system will cost. No surprises.



### Extended warranty and repairs

The product warranty will be extended for the length of the rental contract. If you choose the full service option, any repairs required over time will also be carried out free of charge.



### Automatic upgrade of your pumping system

At the end of the rental contract, the products can be replaced with the latest high-performance models on the market.



### Top performance and reliability

Keeping your system running at its optimal level means high productivity and the lowest possible energy consumption.

# AN AGREEMENT YOU CAN COUNT ON



# PUMP SOLUTIONS TAILORED FOR YOU

## FISCAL AND OPERATIONAL BENEFITS

The products remain the property of Grundfos and therefore are not registered as assets, meaning no allocation of depreciation costs. The monthly rental fees are wholly tax-deductible for the entire length of the contract.

- No large initial investment up front Easier to plan cash flow
- No hidden costs, no costly surprises
- No need to train maintenance engineers
- Onsite technical support available on demand Remote monitoring solutions save time and money
- The most energy-efficient solutions on the market
- Save energy and water without the need for capital investment (CAPEX)
- Energy audits carried out by Grundfos experts identify where further energy savings can be made

## FLEXIBLE SOLUTION

The contract can be customised to your needs, whatever they may be – length of contract, services required, optional add-ons  
At the end of the rental contract you can choose whether to:

- Set up a new contract and upgrade your pumping system with the latest Grundfos solutions
- Extend the pump partnering contract at agreed preferential conditions
- Return the products to us
- Buy the products for a fair price, agreed in advance

## KEEP TRACK

### Grundfos Remote Management (GRM)

One of our most popular Premium services offered as part of a Pump Partnering contract is a GRM remote monitoring system. It will update you on your computer, tablet or smartphone in real time with performance data from all your pumping systems and notify you of any warnings or alarms.





**Domestic Water Supply**



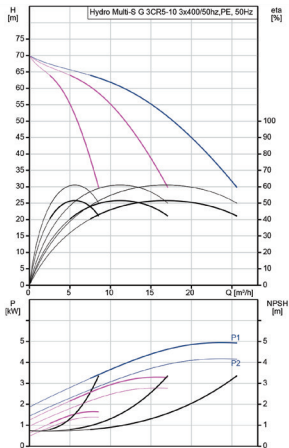


Note! Product picture may differ from actual product

Product No.: [95922852](#)

## Hydro Multi-S with 3 CR5-10 pumps

Description	Value
<b>General information:</b>	
Product name:	Hydro Multi-S G 3CR5-10 3x400/50hz,PE
Product No:	<a href="#">95922852</a>
EAN number:	5700838994940
<b>Technical:</b>	
Min flow system:	2.5 m³/h
Max flow system:	24 m³/h
Head max:	67.7 m
Pump name:	CR5-10
Number of pumps:	3
<b>Materials:</b>	
Manifolds:	Galvanised
<b>Installation:</b>	
Maximum operating pressure:	10 bar
Maximum inlet pressure:	2 bar
Flange standard:	DIN 2999-1
Pipe connection:	R2
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	5 .. 70 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Mains frequency:	50 Hz
Rated voltage:	3 x 400,50hz,PE V
Rated current:	9.45 A
Enclosure class (IEC 34-5):	IP54
<b>Others:</b>	
Net weight:	137 kg
Gross weight:	162 kg
Language:	GB
Product range:	International



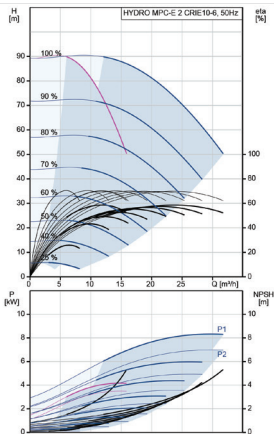


Note! Product picture may differ from actual product

Product No.: 95009106

## HYDRO MPC-E 2 CRIE10-6

Description	Value
<b>General information:</b>	
Product name:	HYDRO MPC-E 2 CRIE10-6
Product No.:	95009106
EAN number:	5700835167279
<b>Technical:</b>	
Min flow system:	12 m³/h
Max flow:	31 m³/h
Max flow system:	18 m³/h
Head max:	89 m
Impellers main:	6
Main pump name:	CRIE10-6
Main pump No.:	96747798
Number of pumps:	2
Non-ret. valve:	at discharge side
<b>Materials:</b>	
Manifolds:	EN/DIN 1.4571/ AISI 316 TI
<b>Installation:</b>	
Maximum operating pressure:	16 bar
Maximum inlet pressure:	7.1 bar
Manifold inlet:	R 2 1/2"
Manifold outlet:	R 2 1/2"
Pressure stage:	PN16
Earth connectio:	PE
System design:	A
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	5 .. 60 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power (P2) main pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Starting main:	electronically
Rated current of system:	7.8 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
Size of cable for main pump:	L1,L2,L3,PE: 4x2.5-4 mm²
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)
<b>Controls:</b>	
Control type:	E
Speed control:	Grundfos MGE 3 phase
<b>Tank:</b>	
Diaphragm tank:	No
<b>Others:</b>	
Net weight:	212 kg
Gross weight:	252 kg
Product range:	International
Config.file Control MPC:	98271946
Config.file Hydro MPC:	98272018





Industry





Note! Product picture may differ from actual product

Product No.: 96516255

## CR 1-25 A-FGJ-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 1-25 A-FGJ-A-E-HQQE
Product No.:	96516255
EAN number:	5700396739557

### Technical:

Speed for pump data:	2896 rpm
Rated flow:	1.8 m³/h
Rated head:	119.6 m
Head max:	155.9 m
Impellers:	25
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 1
Stages:	25
Pump version:	A
Model:	A

### Materials:

Pump housing:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE

### Installation:

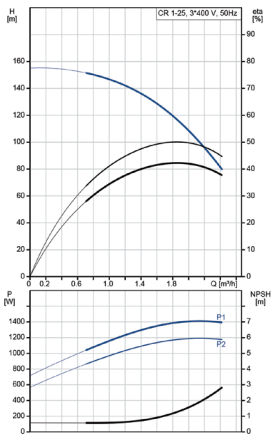
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C
	25 bar / -20 °C
Flange standard:	DIN
Connect code:	FGJ
Pipe connection:	DN 25 / DN 32
Pressure stage:	PN 16 / PN 25
Flange size for motor:	FT115

### Liquid:

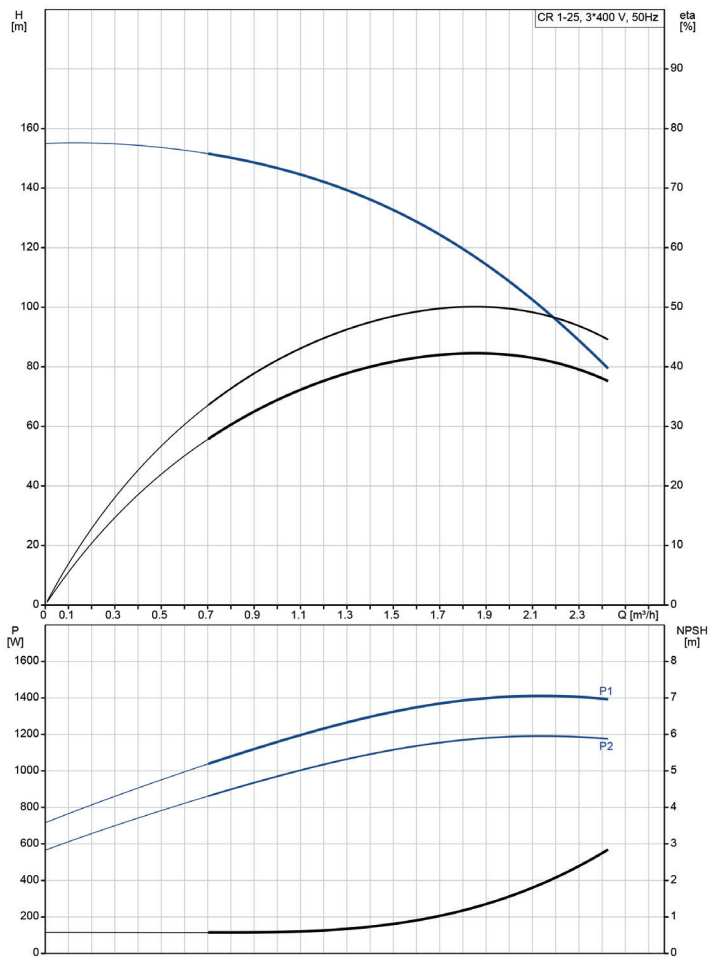
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

### Electrical data:

Motor type:	90SB
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	5,45/3,15 A
Starting current:	850-930 %
Cos phi - power factor:	0,87-0,82
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84.2%
Motor efficiency at full load:	84.2 %



# 96516255 CR 1-25 50 Hz

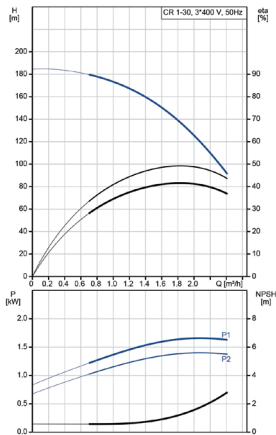




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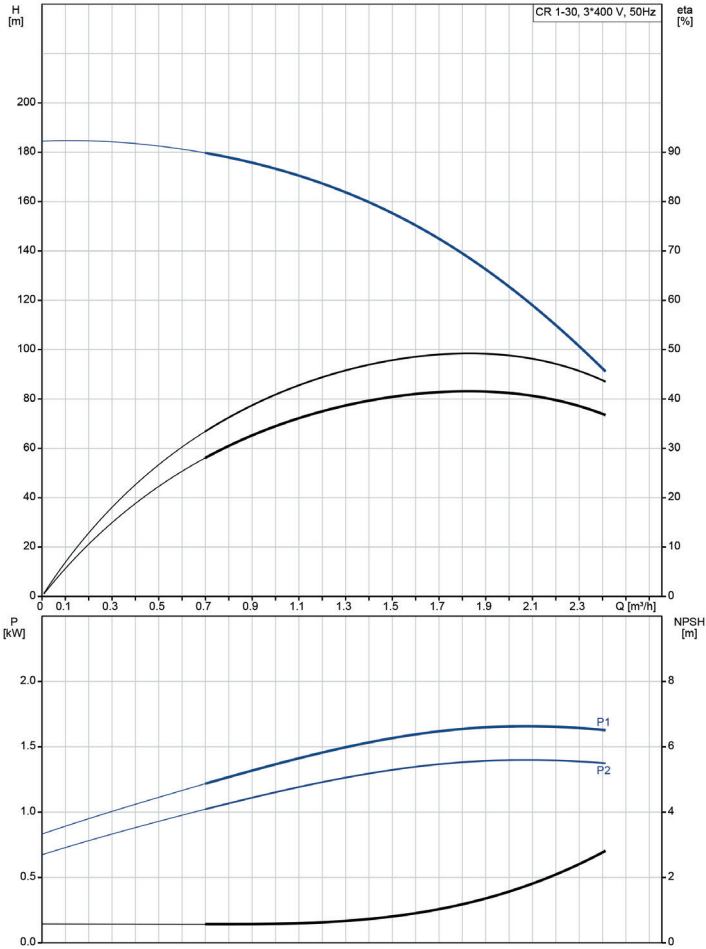
Product No.: 96516257  
CR 1-30 A-FGJ-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 1-30 A-FGJ-A-E-HQQE
Product No:	96516257
EAN number:	5700396739595
<b>Technical:</b>	
Speed for pump data:	2896 rpm
Rated flow:	1.8 m³/h
Rated head:	141.2 m
Head max:	186 m
Impellers:	30
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 1
Stages:	30
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL 1030
Impeller:	ASTM A48-30 B Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FGJ
Pipe connection:	DN 25 / DN 32
Pressure stage:	PN 16 / PN 25
Flange size for motor:	FT115
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	90SB
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	5.45/3.15 A
Starting current:	850-930 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84.2%
Motor efficiency at full load:	84.2 %





96516257 CR 1-30 50 Hz





Note! Product picture may differ from actual product

Product No.: 96516663

## CR 3-19 A-FGJ-A-E-HQOE

Description	Value
<b>General information:</b>	
Product name:	CR 3-19 A-FGJ-A-E-HQOE
Product No:	96516663
EAN number:	5700396747491
<b>Technical:</b>	
Speed for pump data:	2896 rpm
Rated flow:	3 m <sup>3</sup> /h
Rated head:	92.5 m
Head max:	125.8 m
Impellers:	19
Primary shaft seal:	HQOE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 3
Stages:	19
Pump version:	A
Model:	A

### Materials:

Pump housing:	Cast iron EN-JL1030
	ASTM A48-30 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE

### Installation:

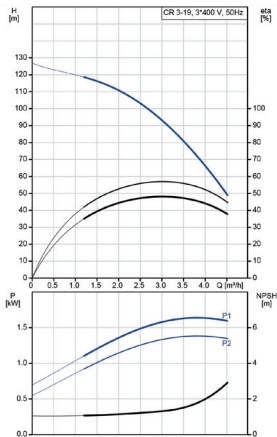
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FGJ
Pipe connection:	DN 25 / DN 32
Pressure stage:	PN 16 / PN 25
Flange size for motor:	FT115

### Liquid:

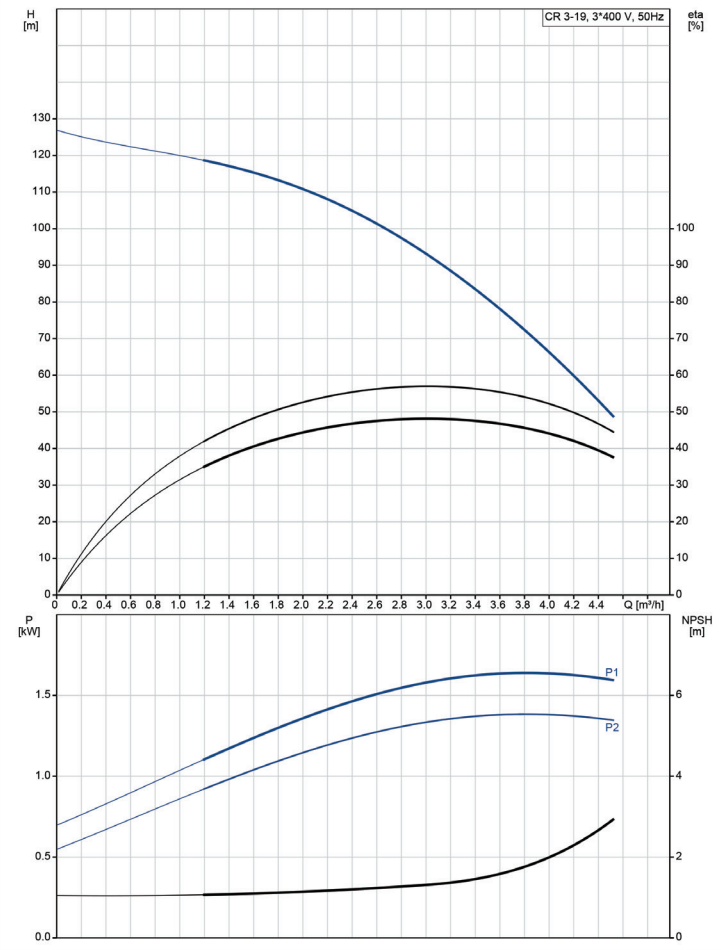
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>

### Electrical data:

Motor type:	90SB
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	5.45/3.15 A
Starting current:	850-930 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84.2%
Motor efficiency at full load:	84.2 %



**96516663 CR 3-19 50 Hz**



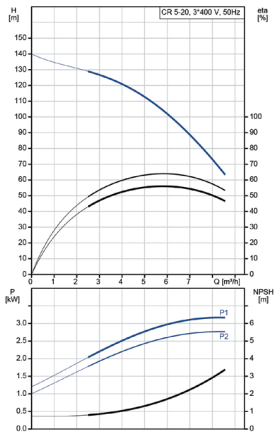


Note! Product picture may differ from actual product

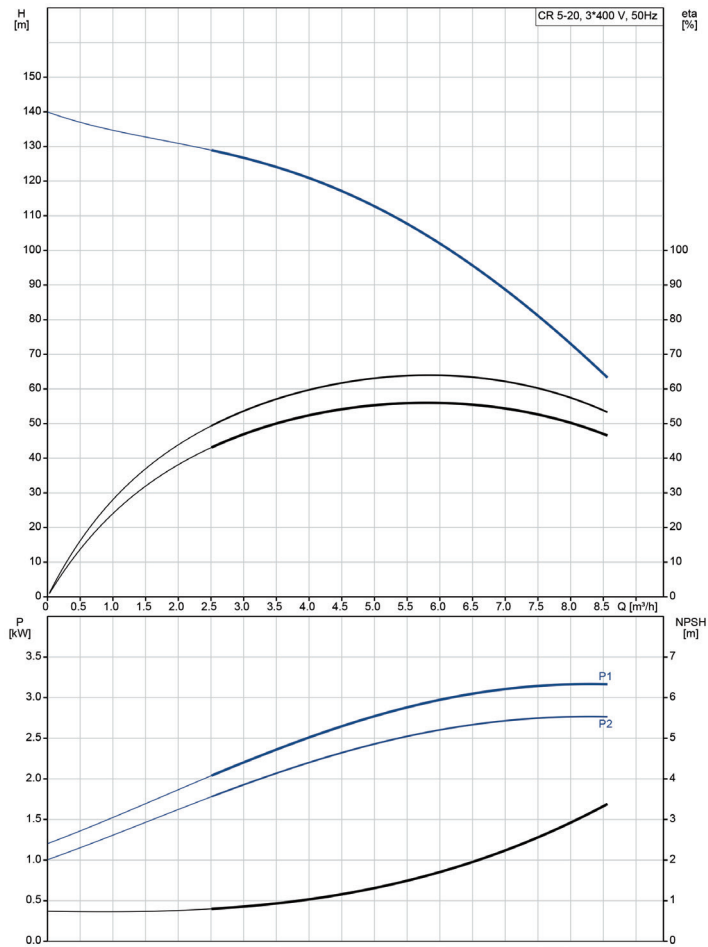
Product No.: [96517052](#)

## CR 5-20 A-FGJ-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 5-20 A-FGJ-A-E-HQQE
Product No:	<a href="#">96517052</a>
EAN number:	5700396755267
<b>Technical:</b>	
Speed for pump data:	2902 rpm
Rated flow:	5.8 m³/h
Rated head:	102.9 m
Head max:	136.1 m
Impellers:	20
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 5
Stages:	20
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030
Impeller:	ASTM A48-30 B Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FGJ
Pipe connection:	DN 25 / DN 32
Pressure stage:	PN 16 / PN 25
Flange size for motor:	FT130
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	100LC
IE Efficiency class:	IE3
Rated power - P2:	3 kW
Power (P2) required by pump:	3 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	11,0/6,30 A
Starting current:	840-920 %
Cos phi - power factor:	0,87-0,82
Rated speed:	2900-2920 rpm
Efficiency:	IE3 87,1%
Motor efficiency at full load:	87.1 %



96517052 CR 5-20 50 Hz

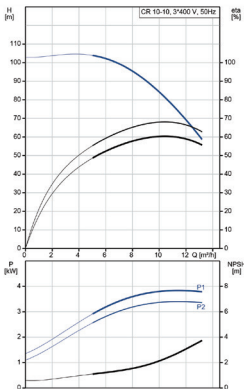




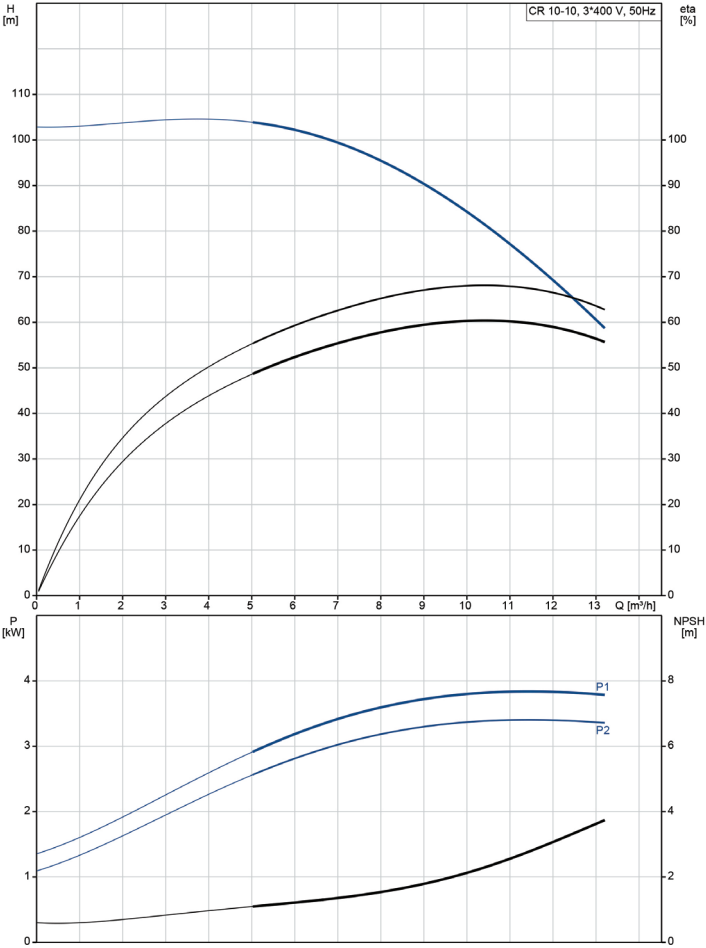
Note! Product picture may differ from actual product

Product No.: **96500972**  
**CR 10-10 A-FJ-A-E-HQQE**

Description	Value
<b>General information:</b>	
Product name:	CR 10-10 A-FJ-A-E-HQQE
Product No:	96500972
EAN number:	5700396212791
<b>Technical:</b>	
Speed for pump data:	2917 rpm
Rated flow:	10 m³/h
Rated head:	81.6 m
Head max:	102 m
Impellers:	10
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 10
Stages:	10
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030
Impeller:	ASTM A48-30 B Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -20 °C
Flange standard:	DIN
Connect code:	FJ
Pipe connection:	DN 40
Pressure stage:	PN 16
Flange size for motor:	FT130
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	112MC
IE Efficiency class:	IE3
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	13.6/7.90 A
Starting current:	1000-1110 %
cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88.1%
Motor efficiency at full load:	88.1 %



96500972 CR 10-10 50 Hz





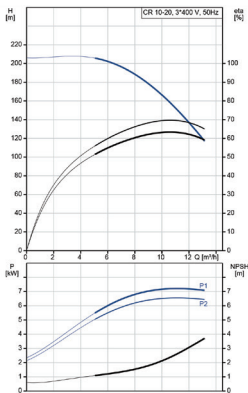


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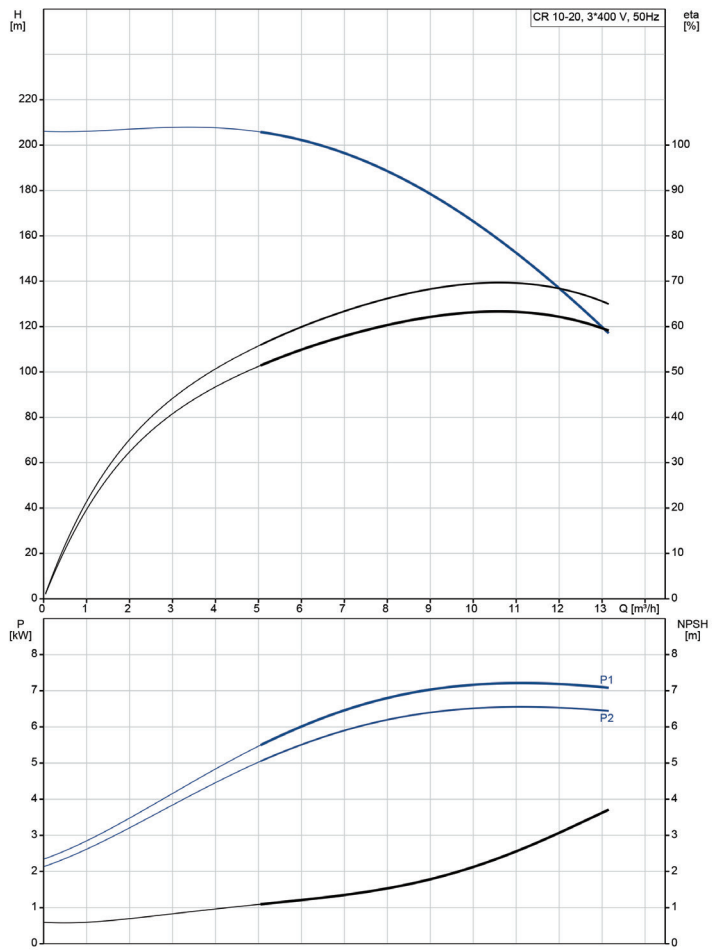
Product No.: 96501224

CR 10-20 A-FJ-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 10-20 A-FJ-A-E-HQQE
Product No:	96501224
EAN number:	5700396217833
<b>Technical:</b>	
Speed for pump data:	2919 rpm
Rated flow:	10 m <sup>3</sup> /h
Rated head:	165.2 m
Head max:	205 m
Impellers:	20
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 10
Stages:	20
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030
Impeller:	ASTM A48-30 B Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FJ
Pipe connection:	DN 40
Pressure stage:	PN 25
Flange size for motor:	FF265
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	132SB
IE Efficiency class:	IE3
Rated power - P2:	7.5 kW
Power (P2) required by pump:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	14,4-14,0/8,30-8,10 A
Starting current:	780-910 %
Cos phi - power factor:	0,88-0,82
Rated speed:	2910-2920 rpm
Efficiency:	IE3 90,1%
Motor efficiency at full load:	90,1-90,4 %



96501224 CR 10-20 50 Hz



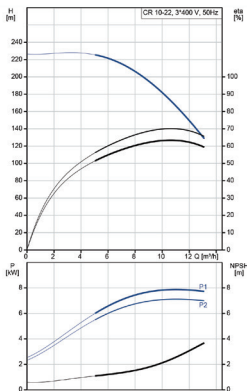


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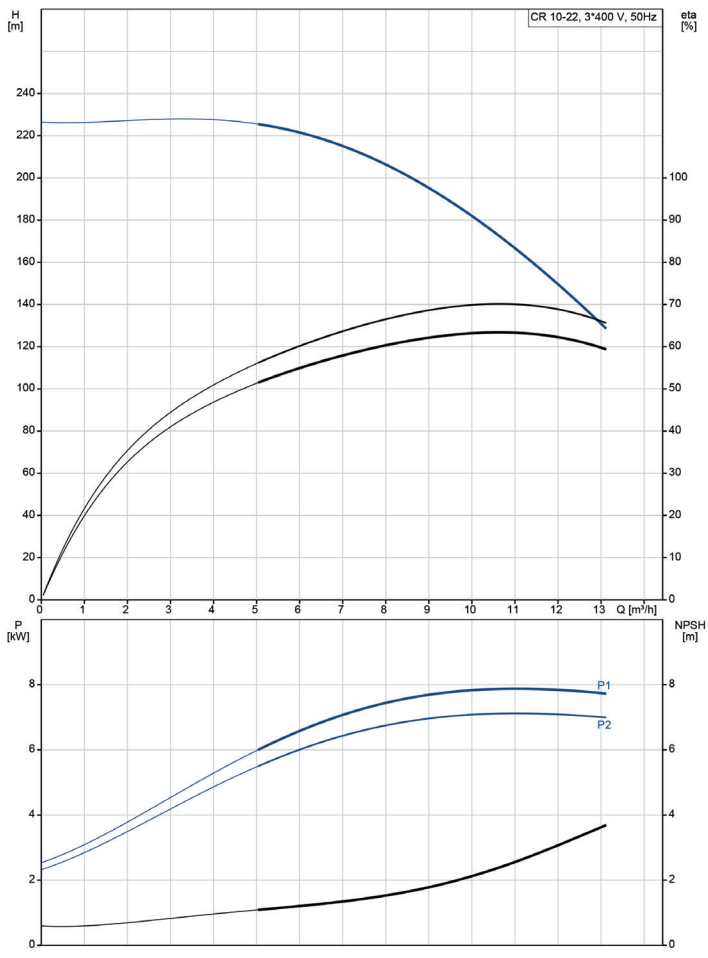
Product No.: 96501225

CR 10-22 A-FJ-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 10-22 A-FJ-A-E-HQQE
Product No:	96501225
EAN number:	5700396217857
<b>Technical:</b>	
Speed for pump data:	2919 rpm
Rated flow:	10 m³/h
Rated head:	180.6 m
Head max:	225 m
Impellers:	22
Primary shaft seal:	HQQE
Approvals on nameplate:	CE,TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 10
Stages:	22
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030
Impeller:	ASTM A48-30 B Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FJ
Pipe connection:	DN 40
Pressure stage:	PN 25
Flange size for motor:	FF265
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 ... 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	132SB
IE Efficiency class:	IE3
Rated power - P2:	7.5 kW
Power (P2) required by pump:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690V V
Rated current:	14,4-14,0/8,30-8,10 A
Starting current:	780-910 %
Cos phi - power factor:	0,88-0,82
Rated speed:	2910-2920 rpm
Efficiency:	IE3 90,1%
Motor efficiency at full load:	90.1-90.4 %



96501225 CR 10-22 50 Hz

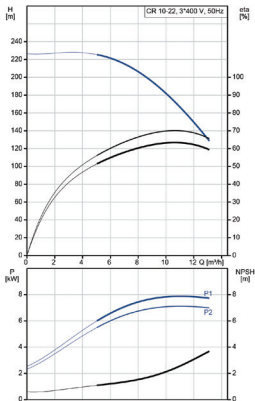




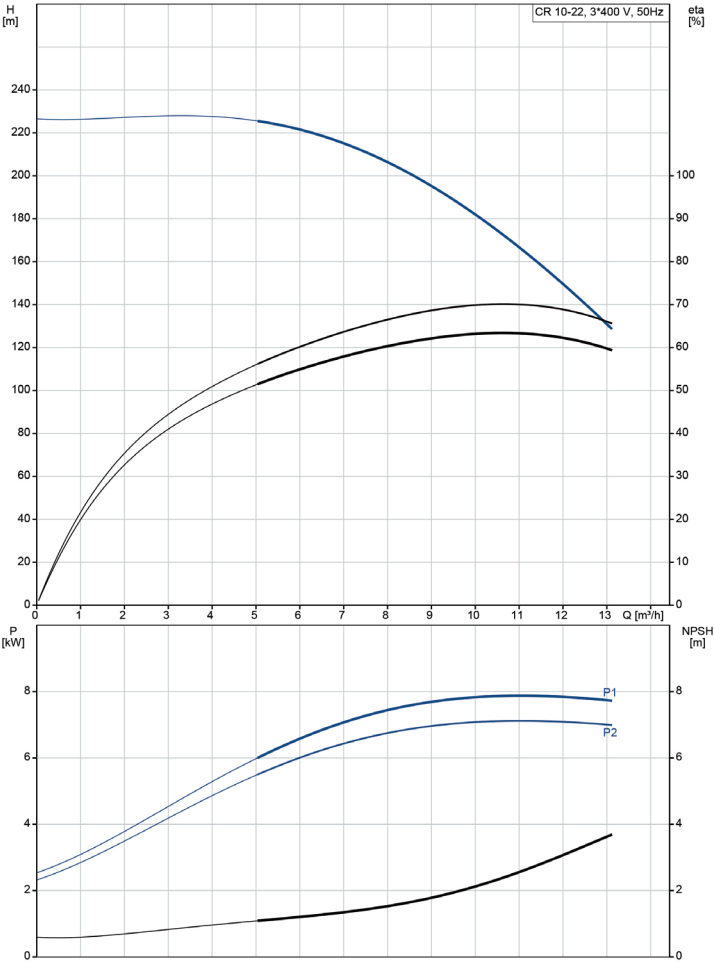
Note! Product picture may differ from actual product

Product No.: 96501225  
**CR 10-22 A-FJ-A-E-HQQE**

Description	Value
<b>General information:</b>	
Product name:	CR 10-22 A-FJ-A-E-HQQE
Product No.:	96501225
EAN number:	5700396217857
<b>Technical:</b>	
Speed for pump data:	2919 rpm
Rated flow:	10 m³/h
Rated head:	180.6 m
Head max:	225 m
Impellers:	22
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 10
Stages:	22
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030
	ASTM A48-30 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	DIN
Connect code:	FJ
Pipe connection:	DN 40
Pressure stage:	PN 25
Flange size for motor:	FF265
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	132SB
IE Efficiency class:	IE3
Rated power - P2:	7.5 kW
Power (P2) required by pump:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	14.4-14.0/8.30-8.10 A
Starting current:	780-910 %
Cos phi - power factor:	0.88-0.82
Rated speed:	2910-2920 rpm
Efficiency:	IE3 90.1%
Motor efficiency at full load:	90.1-90.4 %



96501225 CR 10-22 50 Hz

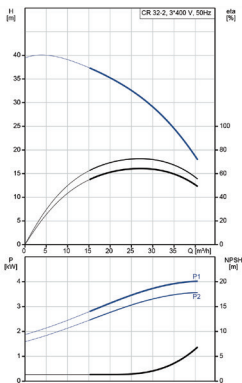




Note! Product picture may differ from actual product

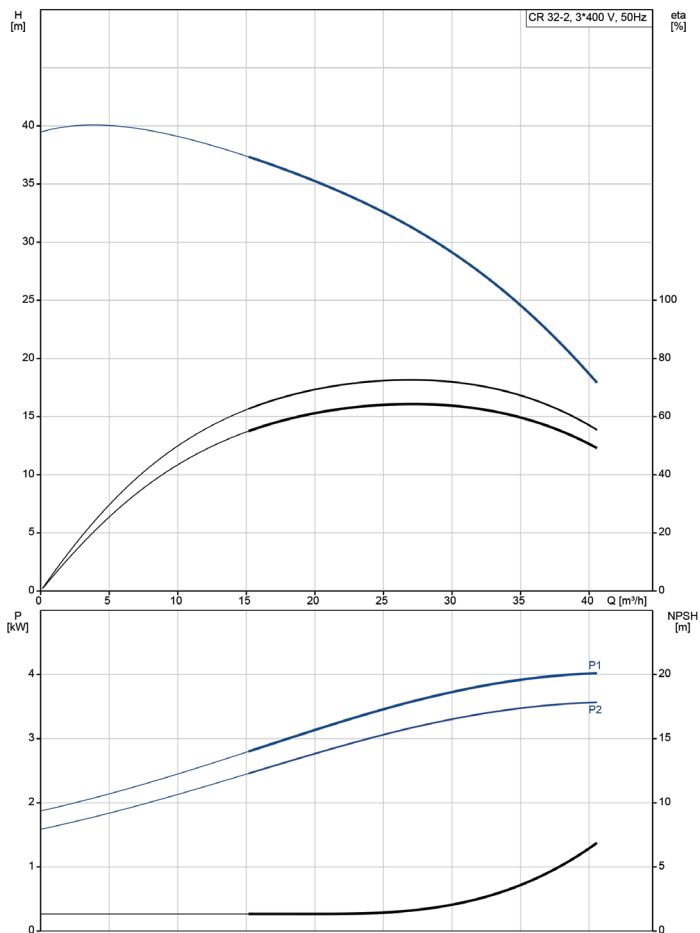
Product No.: **96121953**  
**CR 32-2 A-F-A-E-HQQE**

Description	Value
<b>General information:</b>	
Product name:	CR 32-2 A-F-A-E-HQQE
Product No.:	96121953
EAN number:	5700396679273
<b>Technical:</b>	
Speed for pump data:	2917 rpm
Rated flow:	30 m <sup>3</sup> /h
Rated head:	29.5 m
Head max:	39.5 m
Impellers:	2
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 32
Stages:	2
Pump version:	A
Model:	B
<b>Materials:</b>	
Pump housing:	Cast iron
	EN-JS1050
	ASTM 60-55-06
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bush material:	Grafton
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	16 bar / 120 °C
	16 bar / -30 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 65
Pressure stage:	PN 16 / PN 25 / PN 40
Flange size for motor:	FT130
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-30 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	112MC
IE Efficiency class:	IE3
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	13.6/7.90 A
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %





# 96121953 CR 32-2 50 Hz



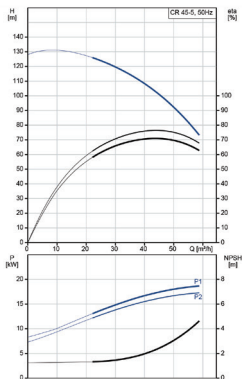


Note! Product picture may differ from actual product

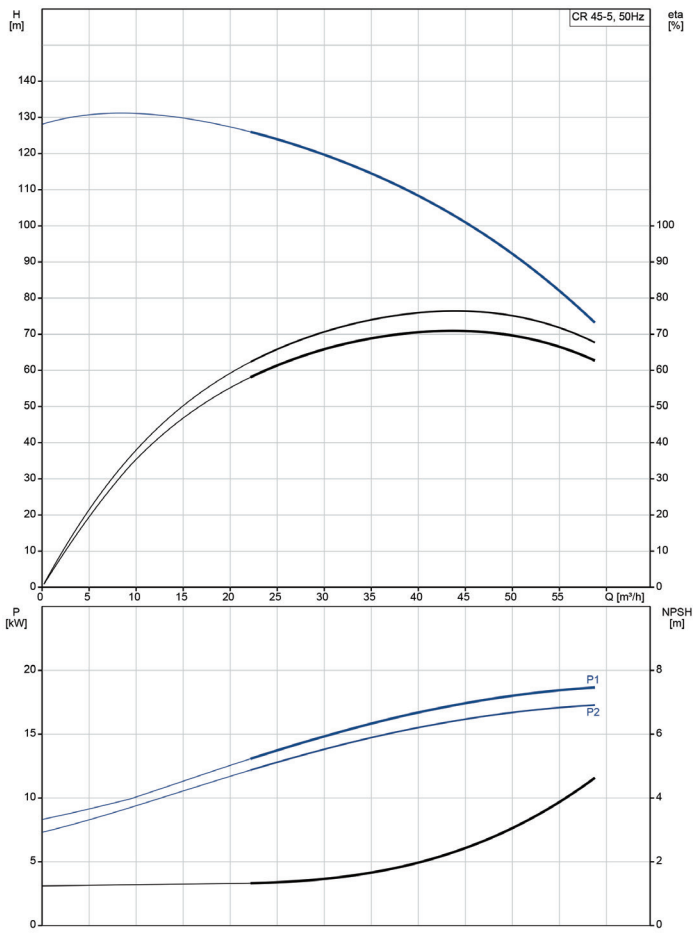
Product No.: 96122805

CR 45-5 A-F-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 45-5 A-F-A-E-HQQE
Product No.:	96122805
EAN number:	5700396688497
<b>Technical:</b>	
Speed for pump data:	2934 rpm
Rated flow:	45 m <sup>3</sup> /h
Rated head:	100.4 m
Head max:	127.8 m
Impellers:	5
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 45
Stages:	5
Pump version:	A
Model:	B
<b>Materials:</b>	
Pump housing:	Cast iron EN-JS1050 ASTM 80-55-06
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	Graffon
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -30 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 80
Pressure stage:	PN 16 / PN 25 / PN 40
Flange size for motor:	FF300
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-30 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	160LB
IE Efficiency class:	IE3
Rated power - P <sub>2</sub> :	18.5 kW
Power (P <sub>2</sub> ) required by pump:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690V V
Rated current:	34.5-32.5/20.0-18.8 A
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92.4%
Motor efficiency at full load:	92.4-92.4 %



96122805 CR 45-5 50 Hz



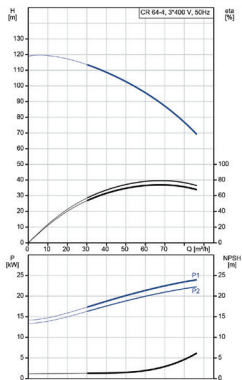


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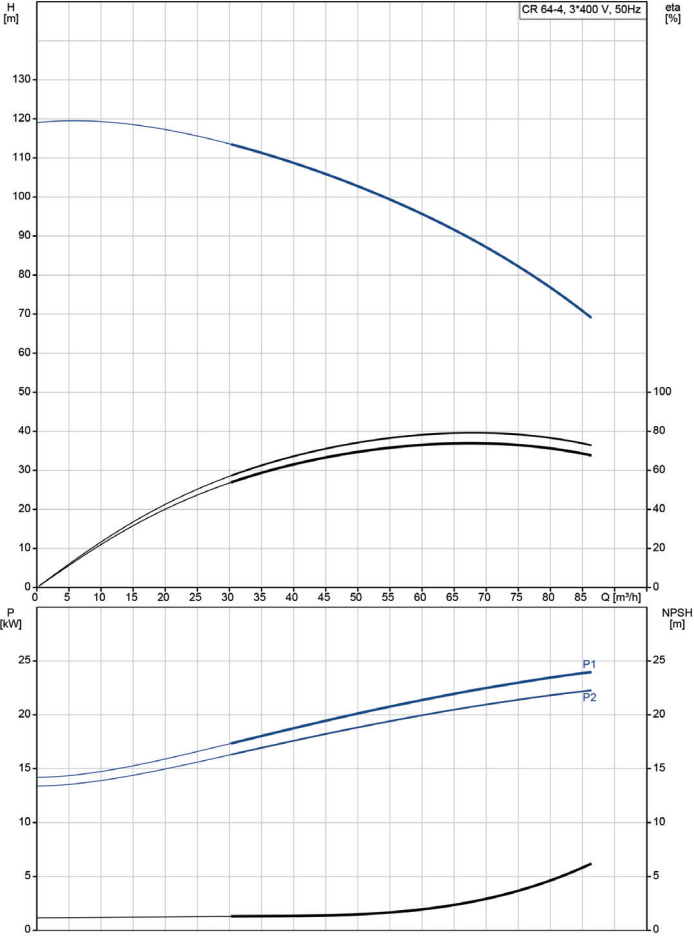
Product No.: 96123536

CR 64-4 A-F-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 64-4 A-F-A-E-HQQE
Product No:	96123536
EAN number:	5700396697468
<b>Technical:</b>	
Speed for pump data:	2947 rpm
Rated flow:	64 m³/h
Rated head:	91 m
Head max:	119.1 m
Impellers:	4
Primary shaft seal:	HQQE
Approvals on nameplate:	CE,TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 64
Stages:	4
Pump version:	A
Model:	B
<b>Materials:</b>	
Pump housing:	Cast iron
	EN-JS1050
	ASTM 80-55-06
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bush material:	Graffon
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	16 bar / 120 °C
	16 bar / -30 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 100
Pressure stage:	PN 16
Flange size for motor:	FF300
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-30 ... 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	180MB
IE Efficiency class:	IE3
Rated power - P <sub>2</sub> :	22 kW
Power (P <sub>2</sub> ) required by pump:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415/660-690 V
Rated current:	39,5/22,8 A
Starting current:	830 %
Cos phi - power factor:	0,90-0,90
Rated speed:	2950 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7-92.7 %



96123536 CR 64-4 50 Hz



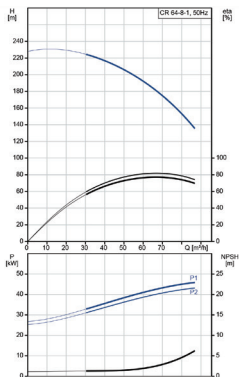


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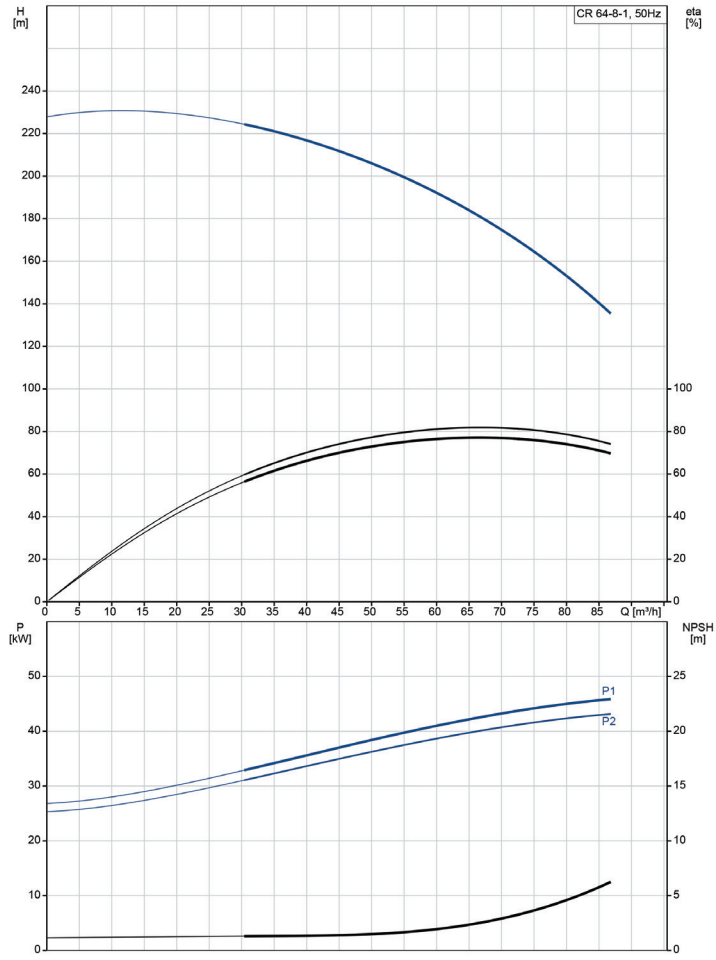
Product No.: 96123547

CR 64-8-1 A-F-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 64-8-1 A-F-A-E-HQQE
Product No:	96123547
EAN number:	5700396697574
<b>Technical:</b>	
Speed for pump data:	2960 rpm
Rated flow:	64 m <sup>3</sup> /h
Rated head:	181.3 m
Head max:	224.4 m
Impellers:	8
Impeller reduc.:	1
Primary shaft seal:	HQQE
Approvals on nameplate:	CE,TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 64
Stages:	8
Pump version:	A
Model:	B
<b>Materials:</b>	
Pump housing:	Cast iron
	EN-JS1050
	ASTM 80-55-06
Impeller:	Stainless steel
	DIN W-Nr. 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bush material:	Graffon
<b>Installation:</b>	
Maximum ambient temperature:	55 °C
Max pressure at stated temp:	30 bar / 120 °C
	30 bar / -30 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 100
Pressure stage:	PN 25 / PN 40
Flange size for motor:	FF400
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-30 - 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P <sub>2</sub> :	45 kW
Power (P <sub>2</sub> ) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725 V
Rated current:	81,0-74,0/47,0-43,0 A
Starting current:	690-690 %
Cos phi - power factor:	0,89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%



96123547 CR 64-8-1 50 Hz



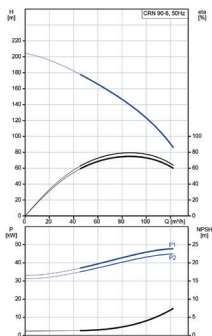




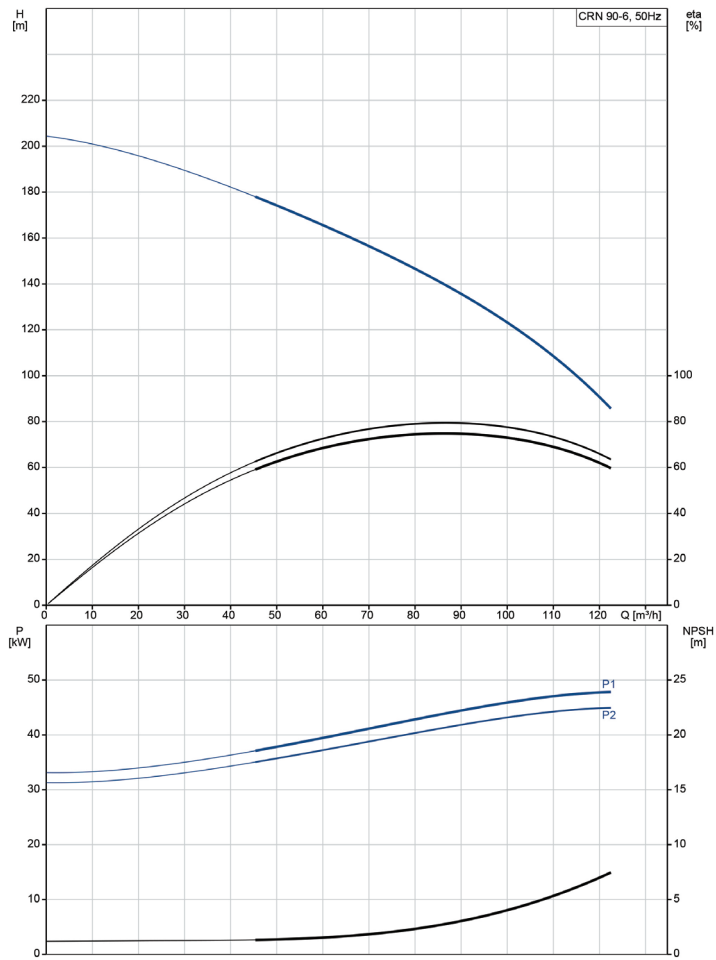
Note! Product picture may differ from actual product

Product No.: [96124235](#)  
**CRN 90-6 A-F-G-E-HQOE**

Description	Value
<b>General information:</b>	
Product name:	CRN 90-6 A-F-G-E-HQOE
Product No:	96124235
EAN number:	5700396705491
<b>Technical:</b>	
Speed for pump data:	2960 rpm
Rated flow:	90 m³/h
Rated head:	135.5 m
Impellers:	6
Primary shaft seal:	HQOE
Curve tolerance:	ISO9906:2012 3B
Stages:	6
Pump version:	A
Model:	B
<b>Materials:</b>	
Pump housing:	Stainless steel DIN W.-Nr. 1.4408 AISI 316
Impeller:	Stainless steel DIN W.-Nr. 1.4401 AISI 316
Material code:	G
Code for rubber:	E
Bush material:	Grafton
<b>Installation:</b>	
Maximum ambient temperature:	55 °C
Max pressure at stated temp:	30 bar / 120 °C
	30 bar / +40 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 100
Pressure stage:	PN 25 / PN 40
Flange size for motor:	FF400
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-40...120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	45 kW
Power (P2) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420V/660-725V V
Rated current:	81.0-74.0/47.0-43.0 A
Starting current:	690-690 %
cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94.0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2



96124235 CRN 90-6 50 Hz

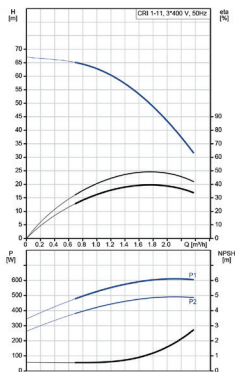




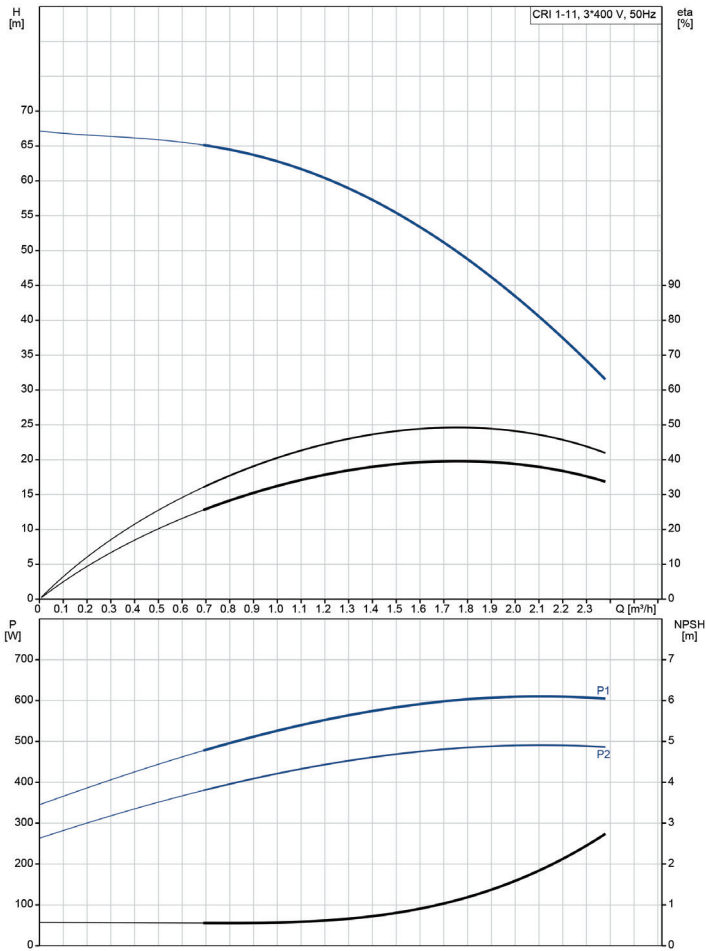
Note! Product picture may differ from actual product

Product No.: [96516325](#)  
**CRI 1-11 A-CA-I-E-HQGE**

Description	Value
<b>General information:</b>	
Product name:	CRI 1-11 A-CA-I-E-HQGE
Product No.:	<a href="#">96516325</a>
EAN number:	5700396740959
<b>Technical:</b>	
Speed for pump data:	2856 rpm
Rated flow:	1.8 m³/h
Rated head:	51.2 m
Impellers:	11
Primary shaft seal:	HQGE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Stages:	11
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Stainless steel
	DIN W.-Nr. 1.4408
Impeller:	ASTM A 351 CF 8M
	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	I
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Max pressure at stated temp.:	25 bar / 120 °C
	25 bar / -20 °C
Flange standard:	CLAMP
Connect code:	CA
Pipe connection:	59 mm
Flange size for motor:	FT85
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20...120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Motor type:	71B
IE Efficiency class:	IE3
Rated power - P2:	0.55 kW
Power (P2) required by pump:	0.55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	2.50/1.44 A
Starting current:	580-620 %
Cos phi - power factor:	0.80-0.70
Rated speed:	2830-2850 rpm
Efficiency:	IE3 77.8%
Motor efficiency at full load:	77.8 %
Motor efficiency at 3/4 load:	81.5 %
Motor efficiency at 1/2 load:	79.5 %
Number of poles:	2



96516325 CRI 1-11 50 Hz

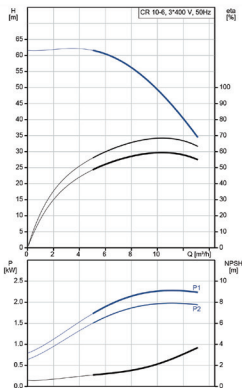




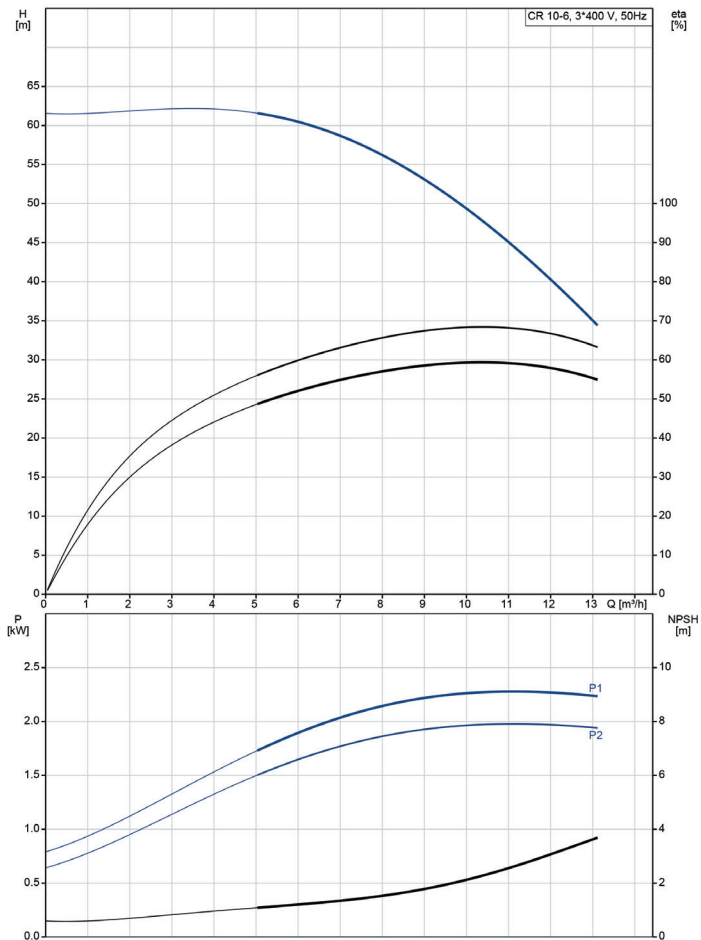
Note! Product picture may differ from actual product

Product No.: 96500984  
CR 10-6 A-A-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CR 10-6 A-A-A-E-HQQE
Product No:	96500984
EAN number:	5700396213033
<b>Technical:</b>	
Speed for pump data:	2899 rpm
Rated flow:	10 m <sup>3</sup> /h
Rated head:	48.3 m
Head max:	61.2 m
Impellers:	06
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Pump type:	CR 10
Stages:	6
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JL1030 ASTM A48-30 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	60 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -20 °C
Flange standard:	OVAL
Connect code:	A
Pipe connection:	Rp 1 1/2
Flange size for motor:	FT115
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	90LC
IE Efficiency class:	IE3
Rated power - P <sub>2</sub> :	2.2 kW
Power (P <sub>2</sub> ) required by pump:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	7,70/4,45 A
Starting current:	850-950 %
Cos phi - power factor:	0,89-0,87
Rated speed:	2890-2910 rpm
Efficiency:	IE3 85,9%
Motor efficiency at full load:	85.9 %
Motor efficiency at 3/4 load:	86.8 %



# 96500984 CR 10-6 50 Hz



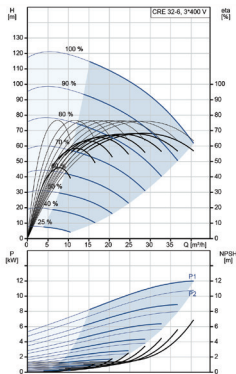


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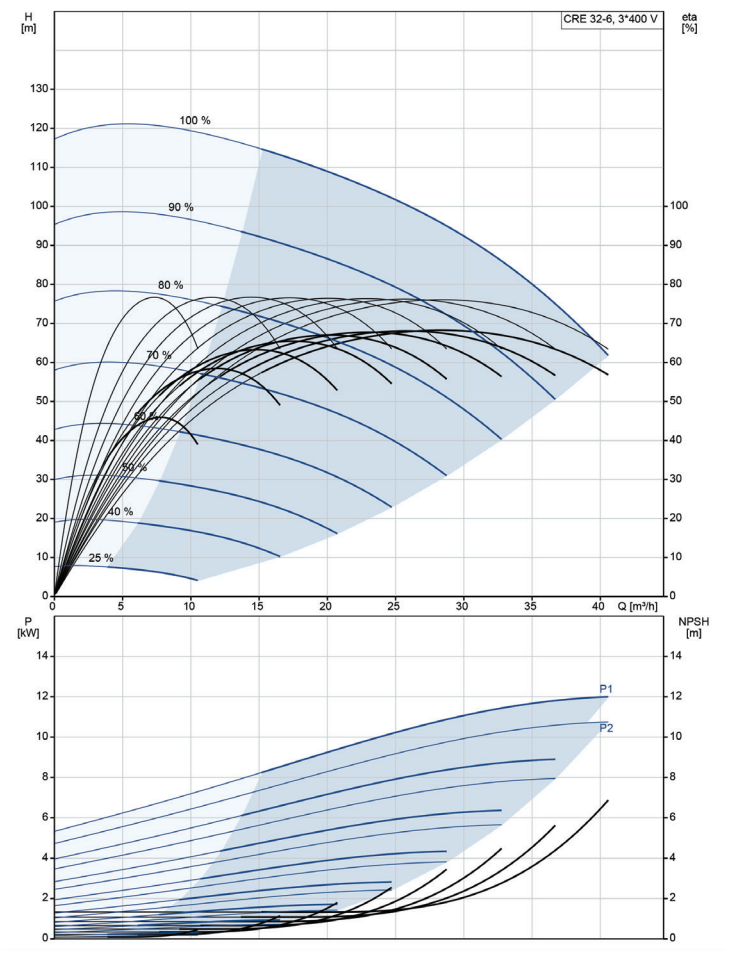
Product No.: 96122644

## CRE 32-6 A-F-A-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CRE 32-6 A-F-A-E-HQQE
Product No:	96122644
EAN number:	5700396686882
<b>Technical:</b>	
Speed for pump data:	2924 rpm
Rated flow:	30 m <sup>3</sup> /h
Rated head:	91.2 m
Impellers:	6
Primary shaft seal:	HQQE
Stages:	6
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Cast iron EN-JS1050 ASTM A48-30 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -30 °C
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 65
Pressure stage:	PN 16 / PN 25 / PN 40
Flange size for motor:	FF300
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-30 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	160MB
Rated power - P <sub>2</sub> :	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	22.5-18.8 A
Cos phi - power factor:	0.90-0.90
Rated speed:	480-3540 rpm
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	85757524
<b>Others:</b>	
Label:	Grundfos Blueflux
Minimum efficiency index, MEI ≥:	0.7
Net weight:	191 kg
Gross weight:	242 kg



96122644 CRE 32-6 50 Hz





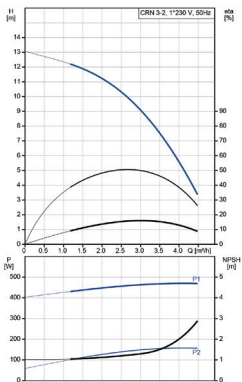


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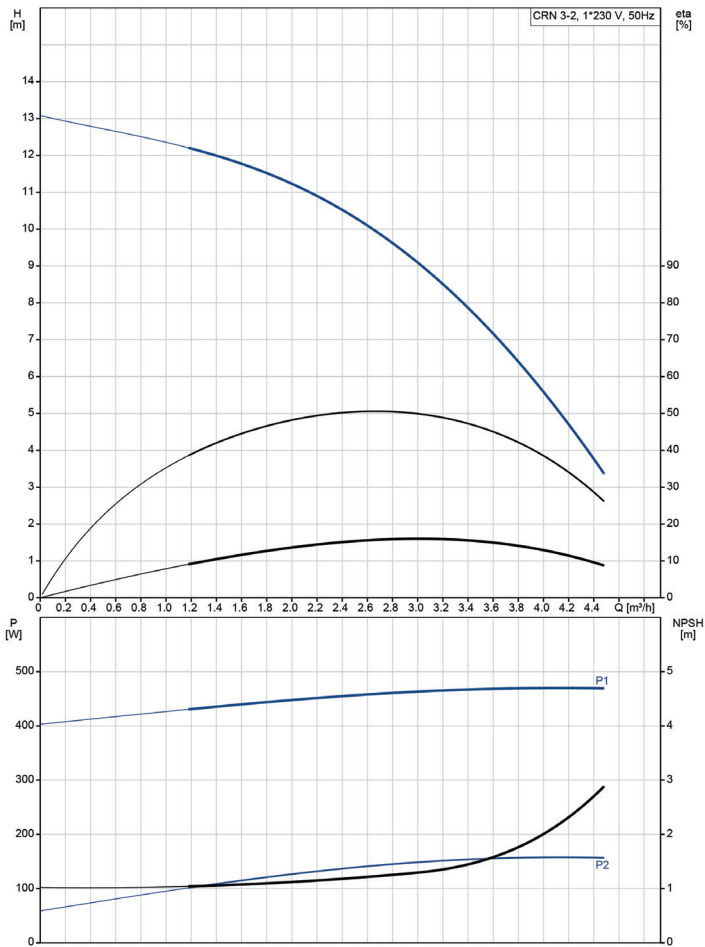
Product No.: 96533250

CRN 3-2 A-P-G-E-HQQE

Description	Value
<b>General information:</b>	
Product name:	CRN 3-2 A-P-G-E-HQQE
Product No:	96533250
EAN number:	5700397438268
<b>Technical:</b>	
Speed for pump data:	2757 rpm
Rated flow:	3 m <sup>3</sup> /h
Rated head:	9.2 m
Impellers:	2
Primary shaft seal:	HQQE
Approvals on nameplate:	CE, TR
Curve tolerance:	ISO9906:2012 3B
Stages:	3
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Stainless steel DIN W.-Nr. 1.4408 ASTM A 351 CF 8M
Impeller:	Stainless steel DIN W.-Nr. 1.4401 AISI 316
Material code:	G
Code for rubber:	E
Bush material:	NONE
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Flange standard:	FJE
Connect code:	P
Pipe connection:	42.2 mm
Flange size for motor:	FT85
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	71B
IE Efficiency class:	NA
Rated power - P <sub>2</sub> :	0.37 kW
Power (P <sub>2</sub> ) required by pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-230/240 V
Rated current:	2.95/2.70 A
Starting current:	280 %
Cos phi - power factor:	0.99
Rated speed:	2770 rpm
Motor efficiency at full load:	60.0-56.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTO



96533250 CRN 3-2 50 Hz





# Dosing & Disinfection





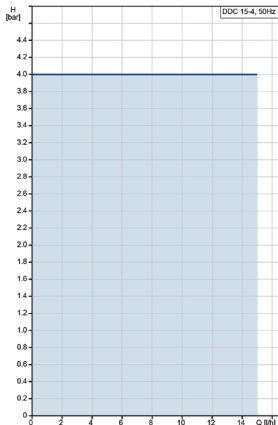
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Product No.: [97721508](#)

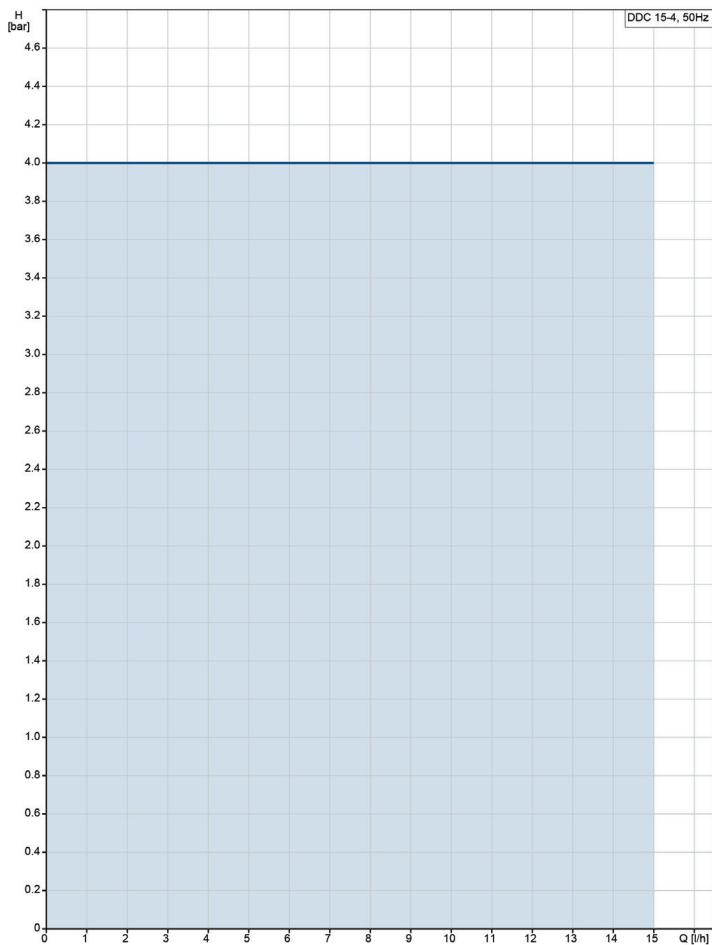
## DDC 15-4

DDC 15-4 AR-PVC/V/C-F-311002FG

Description	Value
<b>General information:</b>	
Product name:	DDC 15-4
Product No:	<a href="#">97721508</a>
EAN number:	5710622716504
<b>Technical:</b>	
Type key:	DDC 15-4 AR-PVC/V/C-F-311002FG
Max. Flow:	15 l/h
Max. flow in slow mode 50%:	7.5 l/h
Max. flow in slow mode 25%:	3.75 l/h
Min flow:	15,0 ml/h
Turn-down ratio:	1:1000
Approvals on nameplate:	CE,CSA-US,NSF61,EAC, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	300 mPas
Maximum viscosity in slow mode 50 %:	1300 mPas
Maximum viscosity in slow mode 25 %:	2000 mPas
Accuracy of repeatability:	1 %
<b>Materials:</b>	
Dosing head:	PVC (Polyvinyl chloride)
Valve ball:	Ceramic
Gasket:	FKM
<b>Installation:</b>	
Range of ambient temperature:	0 .. 45 °C
Maximum operating pressure:	4 bar
Installation set:	YES
Installation type:	9/12 mm up to 60 l/h, 13 bar
Pump inlet:	Hose 9/12 mm 6
Pump outlet:	Hose 9/12 mm 6
Max. Suction lift during operation:	6 m
Max. Suction lift during priming:	3 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 45 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Maximum power input - P1:	22 W
Mains frequency:	50 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	1.5 m
Type of cable plug:	EU
Inrush current:	25A at 230V for 2ms
<b>Controls:</b>	
Control variant:	AR
Control panel:	FRONT-MOUNTED
Level control:	YES
Analog input:	0/4-20 mA
Pulse control:	YES
Ext. Stop input:	YES



## 97721508 DDC 15-4 50 Hz





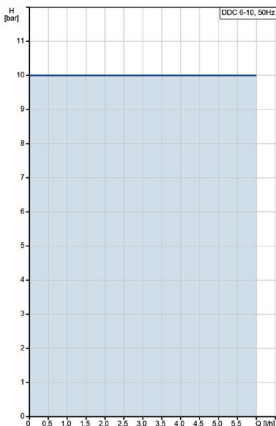
Note! Product picture may differ from actual product

Product No.: [97721371](#)

## DDC 6-10

DDC 6-10 AR-PVC/V/C-F-31I001FG

Description	Value
<b>General information:</b>	
Product name:	DDC 6-10
Product No.:	<a href="#">97721371</a>
EAN number:	5710622715125
<b>Technical:</b>	
Type key:	DDC 6-10 AR-PVC/V/C-F-31I001FG
Max. Flow:	6 l/h
Max. flow in slow mode 50%:	3 l/h
Max. flow in slow mode 25%:	1.5 l/h
Min flow:	6.0 ml/h
Turn-down ratio:	1:1000
Approvals on nameplate:	CE, CSA-US, NSF61, EAC, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	50 mPas
Maximum viscosity in slow mode 50 %:	1800 mPas
Maximum viscosity in slow mode 25 %:	2500 mPas
Accuracy of repeatability:	1 %
<b>Materials:</b>	
Dosing head:	PVC (Polyvinyl chloride)
Valve ball:	Ceramic
Gasket:	FKM
<b>Installation:</b>	
Range of ambient temperature:	0 .. 45 °C
Maximum operating pressure:	10 bar
Installation set:	YES
Installation type:	4/6 mm up to 7,5 l/h, 16 bar
Pump inlet:	Hose 4/6 mm 3
Pump outlet:	Hose 4/6 mm 3
Max. Suction lift during operation:	6 m
Max. Suction lift during priming:	2 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 45 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Maximum power input - P1:	22 W
Mains frequency:	50 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	1.5 m
Type of cable plug:	EU
Inrush current:	25A at 230V for 2ms
<b>Controls:</b>	
Control variant:	AR
Control panel:	FRONT-MOUNTED
Level control:	YES
Analog input:	0/4-20 MA
Pulse control:	YES
Ext. Stop input:	YES





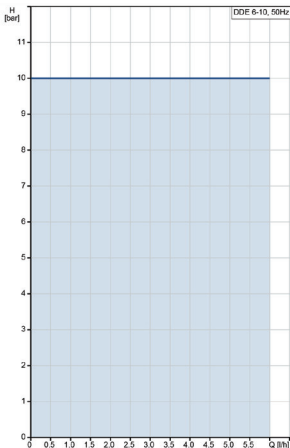
Note! Product picture may differ from actual product

Product No.: [97720927](#)

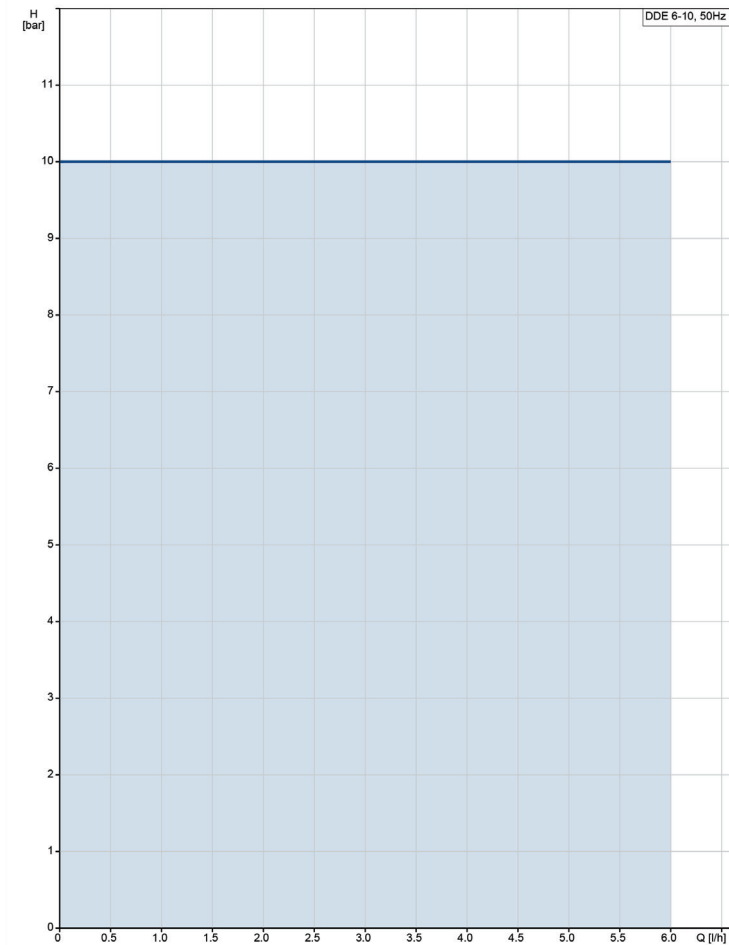
## DDE 6-10

DDE 6-10 B-PVC/VC-X-31U2FG

Description	Value
<b>General information:</b>	
Product name:	DDE 6-10
Product No:	<a href="#">97720927</a>
EAN number:	5710622710472
<b>Technical:</b>	
Type key:	DDE 6-10 B-PVC/VC-X-31U2FG
Max. Flow:	6 l/h
Min flow:	6,0 ml/h
Turn-down ratio:	1:1000
Approvals on nameplate:	CE, CSA-US, NSF61, EAC, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	50 mPas
Maximum viscosity in slow mode 50 %:	N/A mPas
Maximum viscosity in slow mode 25 %:	N/A mPas
Accuracy of repeatability:	5 %
<b>Materials:</b>	
Dosing head:	PVC (Polyvinyl chloride)
Valve ball:	Ceramic
Gasket:	FKM
<b>Installation:</b>	
Range of ambient temperature:	0 .. 45 °C
Maximum operating pressure:	10 bar
Installation set:	NO
Installation type:	No installation set
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm
Max. Suction lift during operation:	6 m
Max. Suction lift during priming:	2 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 45 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Maximum power input - P1:	19 W
Mains frequency:	50 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	1.5 m
Type of cable plug:	EU
Inrush current:	25A at 230V for 2ms
<b>Controls:</b>	
Control variant:	B
Ext. Stop input:	NO
<b>Others:</b>	
Net weight:	2 kg
Gross weight:	3 kg
Color:	NA



## 97720927 DDE 6-10 50 Hz







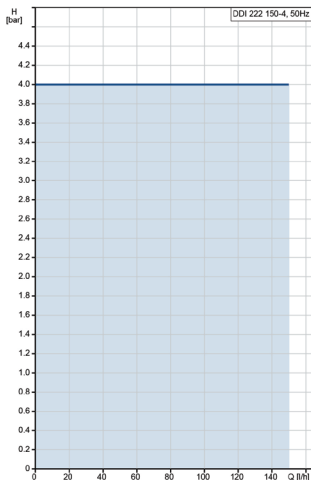
Note! Product picture may differ from actual product

Product No.: 96689421

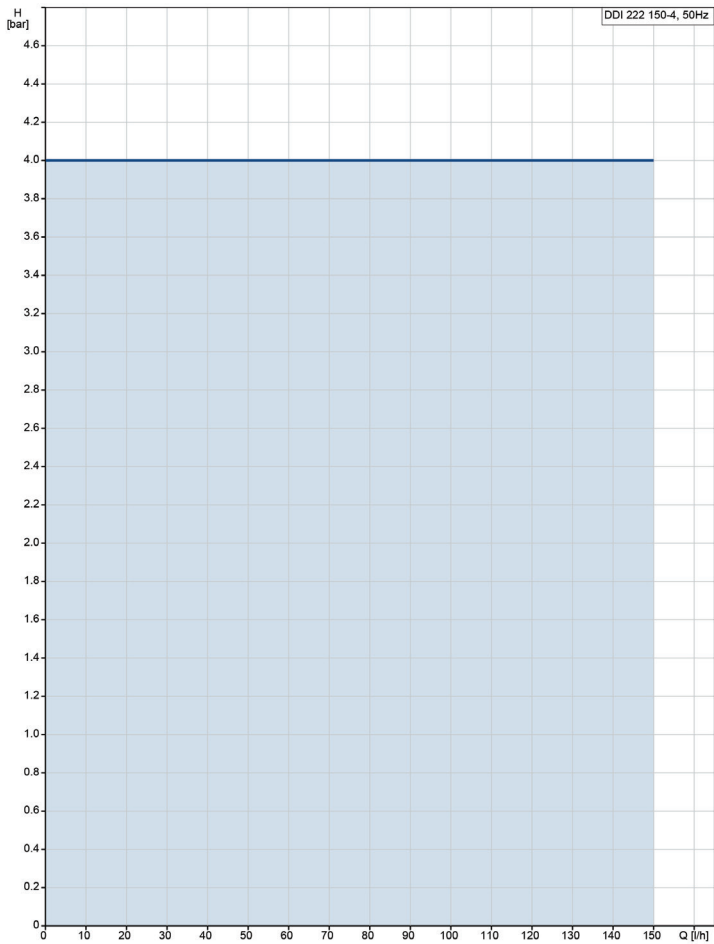
Product\_name: DDI 222 150-4

EAN\_number: 5700837191982

Description	Value
<b>General information:</b>	
Product name:	DDI 222 150-4
Product No:	96689421
EAN number:	5700837191982
<b>Technical:</b>	
Max. capacity:	150 l/h
Approvals on nameplate:	CE
Valve:	Standard
<b>Materials:</b>	
Pump housing:	PVC
Valve ball:	Glass
Gasket:	FKM
<b>Installation:</b>	
Maximum operating pressure:	4 bar
Pump inlet:	Tube, 13/20 mm / cementing d.25 mm
Pump outlet:	Tube, 13/20 mm / cementing d.25 mm
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0.05 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 100-240 V 50/60 Hz
Enclosure class (IEC 34-5):	IP 65
Length of cable:	1.5 m
Type of cable plug:	SCHUKO
<b>Controls:</b>	
Control variant:	AR
Plus 3 system:	Not integrated
Control panel:	Side
Level control:	Input for dual-level sensor or external start/stop
Pulse control:	Input for pulse control integrated
4-20 mA control:	Input for analog 0/4-20 mA control integrated
Other in/output:	NO
<b>Others:</b>	
Flow and pressure monitoring:	Not integrated
Flow rate adjustment:	Input for pulse control, adjustment in ml/pulse
Grundfos Alldos PN:	222-150D-10002



96689421 DDI 222 150-4 50 Hz





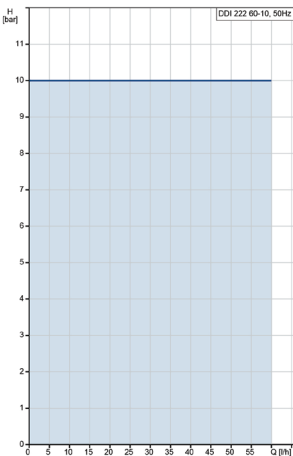
Note! Product picture may differ from actual product

Product No.: 96656199

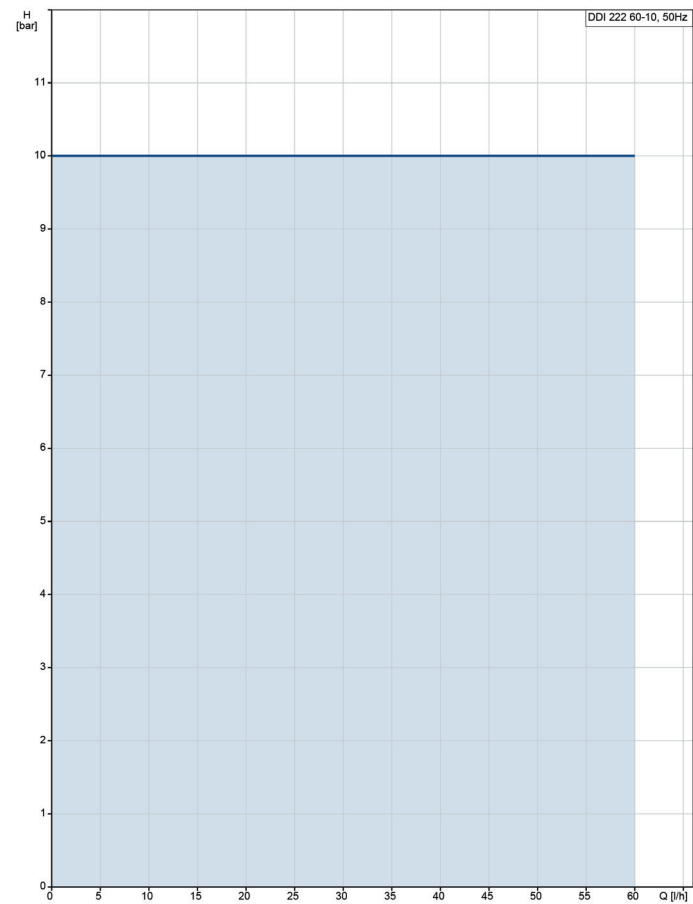
**Product name:** DDI 222 60-10

EAN number: 5700836929364

Description	Value
<b>General information:</b>	
Product name:	DDI 222 60-10
Product No:	96656199
EAN number:	5700836929364
<b>Technical:</b>	
Max. capacity:	60 l/h
Approvals on nameplate:	CE
Valve:	Standard
<b>Materials:</b>	
Pump housing:	Stainless steel, DIN 1.4401
Valve ball:	Stainless steel, DIN 1.4401
Gasket:	FKM
<b>Installation:</b>	
Maximum operating pressure:	10 bar
Pump inlet:	Threaded, Rp 1/4, female
Pump outlet:	Threaded, Rp 1/4, female
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0.05 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 100-240 V 50/60 Hz
Enclosure class (IEC 34-5):	IP 65
Length of cable:	1.5 m
Type of cable plug:	SCHUKO
<b>Controls:</b>	
Control variant:	AR
Plus 3 system:	Not integrated
Control panel:	Side
Level control:	Input for dual-level sensor or external start/stop
Pulse control:	Input for pulse control integrated
4-20 mA control:	Input for analog 0/4-20 mA control integrated
Other in/output:	NO
<b>Others:</b>	
Flow and pressure monitoring:	Not integrated
Flow rate adjustment:	Input for pulse control, adjustment in ml/pulse
Grundfos Alldos PN:	222-60D-10015



96656199 DDI 222 60-10 50 Hz



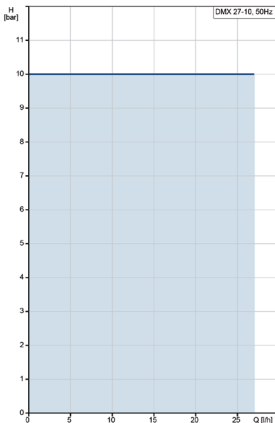


Note! Product picture may differ from actual product

Product No.: 96376608

## DMX 27-10

Description	Value
<b>General information:</b>	
Product name:	DMX 27-10
Product No:	96376608
EAN number:	5700834502743
<b>Technical:</b>	
Type key:	DMX 27-10 B-PVC/ViG-X-G1B1B1F
Max stroke rate:	50 1/min
Max. capacity:	27 l/h
Approvals on nameplate:	CE
Valve type:	Not spring-loaded
Maximum viscosity at 100 %:	200 mPas
<b>Materials:</b>	
Dosing head:	PVC
Valve ball:	Glass
Gasket:	FKM
<b>Installation:</b>	
Maximum operating pressure:	10 bar
Pump inlet:	Tube, 6/12mm, cementing d.12mm
Pump outlet:	Tube, 6/12mm, cementing d.12mm
Max. Suction lift during operation:	1 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0,090 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-240 V, 50/60 Hz
Enclosure class (IEC 34-5):	IP 65/F
Type of cable plug:	EU (Schuko)
Mains cable:	1.50 m
<b>Controls:</b>	
Control variant:	B
Stroke control:	manual
Control panel:	No control panel (without AR control)
Level control:	Not integrated
Analog input:	Not integrated
Pulse control:	NO
Ext. Stop input:	Not integrated
Analog output:	Not integrated
Pulse control:	Not integrated
Other in/output:	Not integrated
Output relays:	Not integrated
<b>Others:</b>	
Flow rate adjustment:	manual
Leak detection:	NO
Grundfos Aidos PN:	221-27-10000

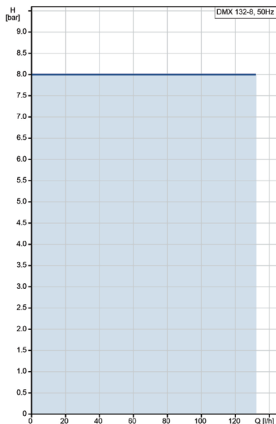




Note! Product picture may differ from actual product

Product No.: 96653459  
DMX 132-8

Description	Value
<b>General information:</b>	
Product name:	DMX 132-8
Product No.:	96653459
EAN number:	5700836852945
<b>Technical:</b>	
Type key:	DMX 132-8 AR-PVC/VG-S-G1B2B2F
Max. stroke rate:	50 1/min
Max. capacity:	132 l/h
Approvals on nameplate:	CE
Valve type:	Not spring-loaded
Maximum viscosity at 100 %:	400 mPas
<b>Materials:</b>	
Dosing head:	PVC
Valve ball:	Glass
Gasket:	FKM
<b>Installation:</b>	
Maximum operating pressure:	8 bar
Pump inlet:	Tube, 13/20mm, cementing d.25mm
Pump outlet:	Tube, 13/20mm, cementing d.25mm
Max. Suction lift during operation:	3 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0,370 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V, 50 Hz
Enclosure class (IEC 34-5):	IP 65/F
Type of cable plug:	EU (Schuko)
Mains cable:	1.50 m
<b>Controls:</b>	
Control variant:	AR
Stroke control:	manual
Control panel:	Same side as adjustment knob
Level control:	YES
Analog input:	0/4-20 MA
Pulse control:	YES
Ext. Stop input:	YES
Analog output:	0/420 mA
Pulse control:	YES
Other in/output:	Alarm and stroke relay
Output relays:	2
<b>Others:</b>	
Flow rate adjustment:	manual
Leak detection:	NO
Grundfos Alidos PN:	226-132L-10004



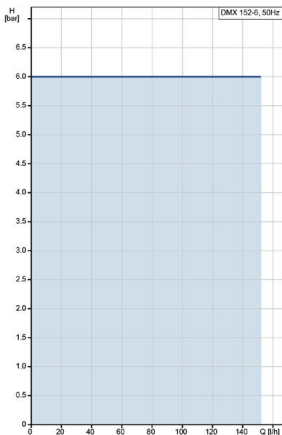


Note! Product picture may differ from actual product

Product No.: 95707919

## DMX 152-6

Description	Value
<b>General information:</b>	
Product name:	DMX 152-6
Product No:	95707919
EAN number:	5700310938851
<b>Technical:</b>	
Type key:	DMX 152-6 B-PVC/T/C-X-E1B9B9
Max stroke rate:	50 1/min
Max. capacity:	152 l/h
Approvals on nameplate:	CE
Valve type:	Not spring-loaded
Maximum viscosity at 100 %:	400 mPas
<b>Materials:</b>	
Dosing head:	PVC
Valve ball:	Ceramic
Gasket:	PTFE
<b>Installation:</b>	
Maximum operating pressure:	6 bar
Pump inlet:	Tubing 19/27
Pump outlet:	Tubing 19/27
Max. Suction lift during operation:	2 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0,370 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 230/400 V, 50/60 Hz 440/480 V, 60 Hz
Enclosure class (IEC 34-5):	IP 65/F
Type of cable plug:	NO PLUG
Mains cable:	NO CABLE m
<b>Controls:</b>	
Control variant:	B
Stroke control:	manual
Control panel:	No control panel (without AR control)
Level control:	Not integrated
Analog input:	Not integrated
Pulse control:	NO
Ext. Stop input:	Not integrated
Analog output:	Not integrated
Pulse output:	Not integrated
Other in/output:	Not integrated
Output relays:	Not integrated
<b>Others:</b>	
Flow rate adjustment:	manual
Leak detection:	NO
Grundfos Alidos PN:	226-152L-10162



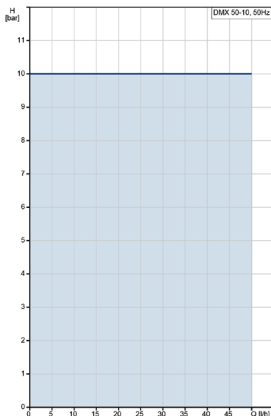


Note! Product picture may differ from actual product

Product No.: 96611961

DMX 50-10

Description	Value
<b>General information:</b>	
Product name:	DMX 50-10
Product No:	96611961
EAN number:	5700834495953
<b>Technical:</b>	
Type key:	DMX 50-10 B-PVC/V/G-X-E1B1B1
Max stroke rate:	50 1/min
Max. capacity:	50 l/h
Approvals on nameplate:	CE
Valve type:	Not spring-loaded
Maximum viscosity at 100 %:	100 mPas
<b>Materials:</b>	
Dosing head:	PVC
Valve ball:	Glass
Gasket:	FKM
<b>Installation:</b>	
Maximum operating pressure:	10 bar
Pump inlet:	Tube, 6/12mm, cementing d.12mm
Pump outlet:	Tube, 6/12mm, cementing d.12mm
Max. Suction lift during operation:	3 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	0,090 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 230/400 V, 50/60 Hz 440/480 V, 60 Hz
Enclosure class (IEC 34-5):	IP 65/F
Type of cable plug:	NO PLUG
Mains cable:	NO CABLE m
<b>Controls:</b>	
Control variant:	B
Stroke control:	manual
Control panel:	No control panel (without AR control)
Level control:	Not integrated
Analog input:	Not integrated
Pulse control:	NO
Ext. Stop input:	Not integrated
Analog output:	Not integrated
Pulse control:	Not integrated
Other in/output:	Not integrated
Output relays:	Not integrated
<b>Others:</b>	
Flow rate adjustment:	manual
Leak detection:	NO
Grundfos Alidos PN:	221-50-10001







**Wastewater**

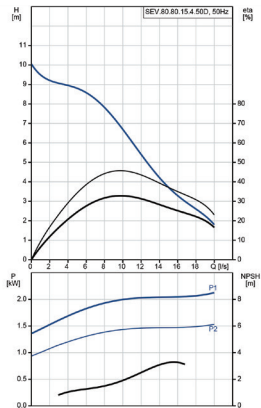




Note! Product picture may differ from actual product

Product No.: 96047769  
SEV.80.80.15.4.50D

Description	Value
<b>General information:</b>	
Product name:	SEV.80.80.15.4.50D
Product No:	96047769
EAN number:	5700395070262
<b>Technical:</b>	
Max flow:	20 l/s
Head max:	10.1 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Max. hydraulic efficiency:	46 %
Approvals on nameplate:	EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	with cooling jacket
<b>Materials:</b>	
Pump housing:	EN 1561 EN-GJL-250
Impeller:	Cast iron
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pump outlet:	DN 80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	DRY/SUBMERGED
Installation:	horizontal or vertical
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	2.1 kW
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+6/-10 %
Max starts per hour:	20
Rated current:	4.2-4.2 A
Rated current at 3/4 load:	3.4 A
Rated current at 1/2 load:	3 A
Starting current:	22 A
Rated current at no load:	2.5 A
Cos phi - power factor:	0.76
Cos phi - p.f. at no load:	0.15
Cos phi - p.f. at 3/4 load:	0.68
Cos phi - p.f. at 1/2 load:	0.56
Rated speed:	1435 rpm
Locked-rotor torque:	23 Nm
Breakdown torque:	28 Nm
Moment of inertia:	0.0185 kg m²
Motor efficiency at full load:	72 %
Motor efficiency at 3/4 load:	71 %
Motor efficiency at 1/2 load:	67 %



Number of poles:	4
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	no
Motor protec:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
<b>Controls:</b>	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Temp. sensor:	N

<b>Others:</b>	
Net weight:	103 kg



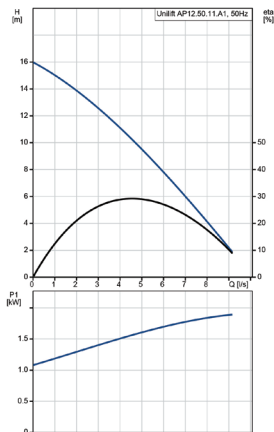
Note! Product picture may differ from actual product

Product No.: 96010981

**Unilift AP12.50.11.A1**

Submersible drainage pump type

Description	Value
<b>General information:</b>	
Product name:	Unilift AP12.50.11.A1
Product No:	96010981
EAN number:	5700390901332
<b>Technical:</b>	
Max flow:	8.33 l/s
Head max:	17 m
Type of impeller:	SEMI OPEN
Maximum particle size:	12 mm
<b>Materials:</b>	
Pump housing:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
<b>Installation:</b>	
Pump outlet:	Rp 2
Maximum installation depth:	7 m
Inst dry/wet:	D/S
Installation:	horizontal or vertical
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 - 55 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Type of motor:	PSC
C run:	20 µF
Power input - P1:	1.7 kW
P2:	1.1 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Rated current:	8.5 A
Cos phi - power factor:	0,92
Rated speed:	2760 rpm
Capacitor size - run:	20 µF/400 V
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Motor protec:	CONTACT
Thermal protec:	internal
Length of cable:	10 m
Type of cable plug:	SCHUKO
<b>Controls:</b>	
Level switch:	float switch
<b>Others:</b>	
Net weight:	15.9 kg
Gross weight:	16.7 kg

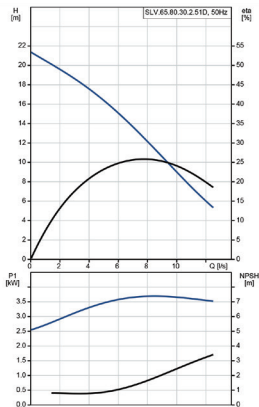




Note! Product picture may differ from actual product

Product No.: 96871975  
SLV.65.80.30.2.51D

Description	Value
<b>General information:</b>	
Product name:	SLV 65.80.30.2.51D
Product No:	96871975
EAN number:	5700312446835
<b>Technical:</b>	
Max flow:	12.5 l/s
Head max:	23.4 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	65 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	LGA
Curve tolerance:	ISO 9906:2012 Grade 3B
<b>Materials:</b>	
Pump housing:	Cast iron
	EN-GJL-200
Impeller:	Cast iron
	EN-GJL-200
Motor:	EN-GJL-200
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump inlet:	80
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	B
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Maximum liquid temperature:	40 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	3.8 kW
Rated power - P2:	3 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Max starts per. hour:	20
Rated current:	6.9-6.8 A
Rated current at 3/4 load:	5.3 A
Rated current at 1/2 load:	4.4 A
Starting current:	59.8 A
Rated current at no load:	3.3 A
Cos phi - power factor:	0.84
Cos phi - p.f. at 3/4 load:	0.78
Cos phi - p.f. at 1/2 load:	0.67
Rated speed:	2910 rpm
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Motor protec:	THERMAL SWITCH



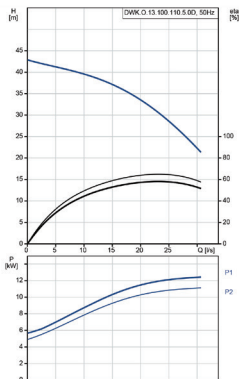


Note! Product picture may differ from actual product

Product No.: 96922661

DWK.O.13.100.110.5.0D

Description	Value
<b>General information:</b>	
Product name:	DWK.O.13.100.110.5.0D
Product No:	96922661
EAN number:	5700313724482
<b>Technical:</b>	
Max flow:	27.5 l/s
Head min:	23.3 m
Head max:	41 m
Actual impeller diameter:	185 mm
Type of impeller:	O
Maximum particle size:	13 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	CERAMIC-CARBON
Max. hydraulic efficiency:	63 %
Curve tolerance:	ISO9906:2012 3B
<b>Materials:</b>	
Pump housing:	Cast iron
	EN1561 EN-GJL-200
Impeller:	Ductile cast iron
	EN1563 EN-GJS-450-10
Motor:	Cast iron
	EN1561 EN-GJL-200
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Pump outlet:	DN 100
Maximum installation depth:	25 m
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m³
Min. pH-value:	4
<b>Electrical data:</b>	
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+5/-5 %
Max starts per. hour:	30
Rated current:	20.4 A
Rated current at 3/4 load:	15.4 A
Rated current at 1/2 load:	10.8 A
Cos phi - power factor:	0.92
Cos phi - p.f. at 3/4 load:	0.91
Cos phi - p.f. at 1/2 load:	0.87
Rated speed:	2850 rpm
Motor efficiency at full load:	89.5 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	89.2 %
Number of poles:	2
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	no
Length of cable:	10 m
Cable type:	TP90/TP90

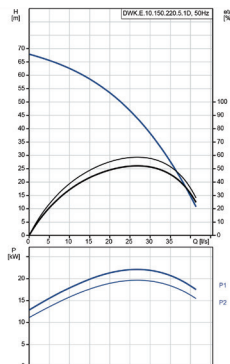




Note! Product picture may differ from actual product

Product No.: **96922668**  
**DWK.E.10.150.220.5.1D**

Description	Value
<b>General information:</b>	
Product name:	DWK.E.10.150.220.5.1D
Product No:	96922668
EAN number:	5700313724550
<b>Technical:</b>	
Max flow:	41.4 l/s
Head min:	10.6 m
Head max:	67.9 m
Actual impeller diameter:	250 mm
Type of impeller:	E
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	CERAMIC-CARBON
Max. hydraulic efficiency:	58 %
Curve tolerance:	ISO9906:2012 3B
<b>Materials:</b>	
Pump housing:	Cast iron EN1561 EN-GJL-200
Impeller:	Ductile cast iron EN1563 EN-GJS-450-10
Motor:	Cast iron EN1561 EN-GJL-200
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Pump outlet:	DN 150
Maximum installation depth:	25 m
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 - 40 °C
Density:	998.2 kg/m³
Min. pH-value:	4
<b>Electrical data:</b>	
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+5/-5 %
Max starts per. hour:	18
Rated current:	43 A
Rated current at 3/4 load:	34 A
Rated current at 1/2 load:	25 A
Cos phi - power factor:	0.855
Cos phi - p.f. at 3/4 load:	0.824
Cos phi - p.f. at 1/2 load:	0.747
Rated speed:	2850 rpm
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	86.7 %
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	no
Length of cable:	10 m
Cable type:	TP90/TP90

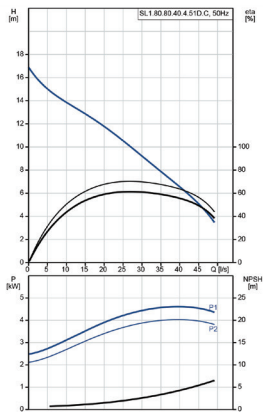




Note! Product picture may differ from actual product

Product No.: **98626052**  
**SL1.80.80.40.4.51D.C**

Description	Value
<b>General information:</b>	
Product name:	SL1.80.80.40.4.51D.C
Product No.:	98626052
EAN number:	5711498465336
<b>Technical:</b>	
Max flow:	49.2 l/s
Head max:	17.9 m
Type of impeller:	S-TUBE
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	without cooling jacket
<b>Materials:</b>	
Pump housing:	Cast iron (EN-GJL-250)
	EN-GJL-250
Impeller:	Cast iron (EN-GJL-250)
	EN-GJL-250
Motor:	EN-GJL-250
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump inlet:	100
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	C
<b>Liquid:</b>	
Maximum liquid temperature:	40 °C
Density:	998.2 kg/m³
<b>Electrical data:</b>	
Power input - P1:	4.8 kW
Rated power - P2:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Max starts per. hour:	20
Rated current:	10.1-10.1 A
Starting current:	65 A
Cos phi - power factor:	0.72
Cos phi - p.f. at 3/4 load:	0.63
Cos phi - p.f. at 1/2 load:	0.50
Rated speed:	1464 rpm
Motor efficiency at full load:	87.4 %
Motor efficiency at 3/4 load:	87.1 %
Motor efficiency at 1/2 load:	85.0 %
Number of poles:	4
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	H
Explosion proof:	no



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