

На основу члана 63. Закона о јавним набавкама, Наручилац - Министарство привреде, Београд, Ул. Кнеза Милоша бр. 20 врши

**ИЗМЕНУ I КОНКУРСНЕ ДОКУМЕНТАЦИЈЕ
ЗА ЈАВНУ НАБАВКУ БРОЈ 63/2019**

**Реконструкција спољне хидрантске мреже пословне зоне „Инова”,
општина Нова Варош**

У Конкурсној документацији за јавну набавку број 63/2019 - Реконструкција спољне хидрантске мреже пословне зоне „Инова”, општина Нова Варош:

-страна број: 49/64 замењује се новом страном исте нумерације, која је дата у прилогу и чини саставни део Конкурсне документације;

-део техничког описа у делу који се односи на измењену позицију замењује се новим техничким описом, који је дат у прилогу и чини саставни део Конкурсне документације.

Ш.5	<p>Набавка, транспорт и монтажа монокомпактног постројења типа »GRUNDFOS« Hydro MPC –S2 CR45-3-U2 (50/60Hz) са три пумпе, две радне и једном резервном и мотором, снаге мотора од 11Кw. Димензије постројења су 1335mm*1460*(1042+600)mm. Напор и проток кроз пумпу износе: Q=30 l/s H=45m Са потребним аутоматиком и командним орманом. Позиција обухвата повезивање на хидрантску и електричку мрежу, пуштање у рад од стране овлашћеног сервисера и сачињавање записника</p>				
	Обрачун по комаду.	ком.	1		
УКУПНО МОНТАЖНИ РАДОВИ					

PROJECT: _____	UNIT TAG: _____	QUANTITY: _____
REPRESENTATIVE: _____	TYPE OF SERVICE: _____	DATE: _____
ENGINEER: _____	SUBMITTED BY: _____	DATE: _____
CONTRACTOR: _____	APPROVED BY: _____	DATE: _____
	ORDER NO.: _____	DATE: _____

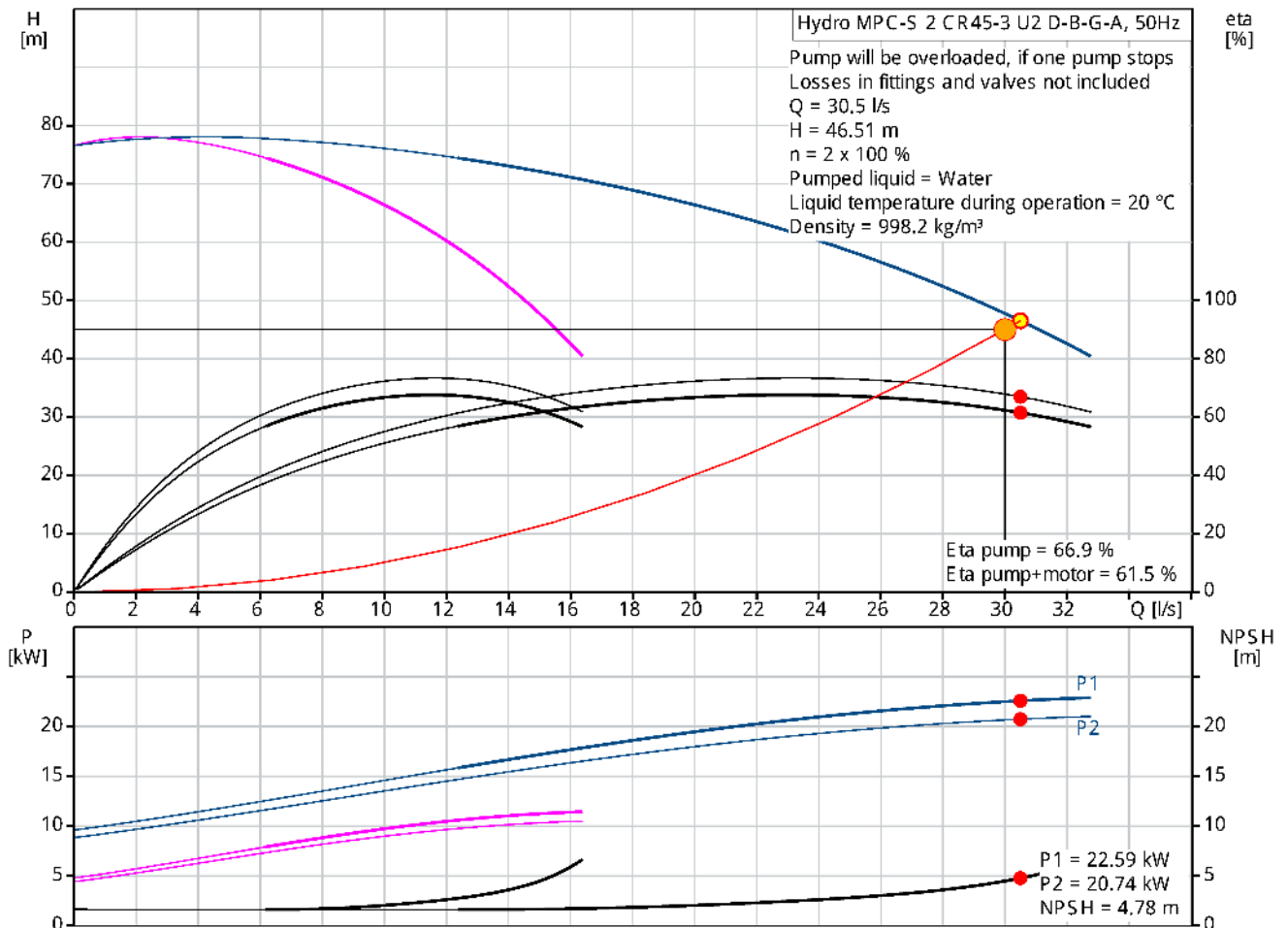


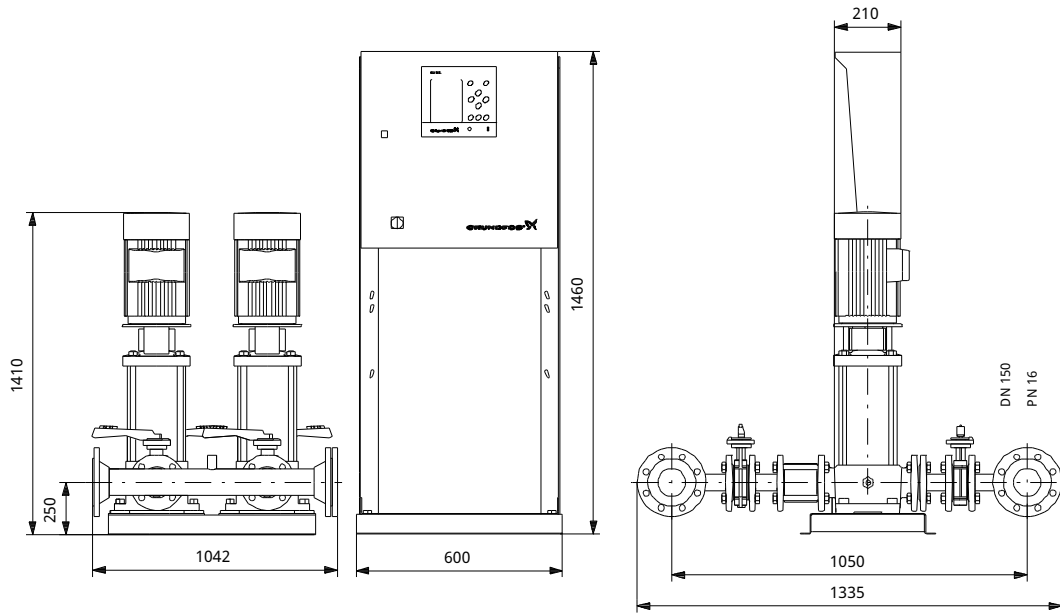
Hydro MPC-S 2 CR45-3 U2 D-B-G-A

Booster systems with ON/OFF control

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Flow:	30.5 l/s	Maximum operating pressure:	16 bar	Rated voltage:	380-415 V
Head:	46.51 m	Liquid temperature range:	5 .. 60 °C	Mains frequency:	50 Hz
Efficiency:	61.5 %	Product number:	95126628	Enclosure class:	IP54
Liquid:	Water				
Temperature:	20 °C				
NPSH required:	4.78 m				
Viscosity:	1 mm ² /s				
Specific Gravity:	1.000				





Materials:
Manifolds: Galvanized steel

Qty. Description

1 Hydro MPC-S 2 CR45-3 U2 D-B-G-A



Note! Product picture may differ from actual product

Product No.: [95126628](#)

The Hydro MPC-S pressure booster system, supplied as compact assembly, maintains the pressure through cutting in/out the CR pumps.

The system performance is adapted to the demand through cutting in/out the required number of CR pumps and through parallel control of the pumps in operation.

The pumps are all mains-operated CR pumps.

Pump changeover is automatic and depends on load, time and fault.

The system consists of these parts:

The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM).

- Two galvanised steel manifolds.
- Galvanised steel base frame up to CR 90; above CR 90 the pumps are placed on a galvanised I-Beam frame.
- One non-return valve and two isolating valves for each pump.
- Adapter with isolating valve for connection of diaphragm tank.
- Pressure gauge and pressure transmitter (analog output, 4-20 mA).
- Control MPC in a steel cabinet, IP54, including main switch, all required fuses, motor protection, switching equipment and microprocessor-controlled CU 352.

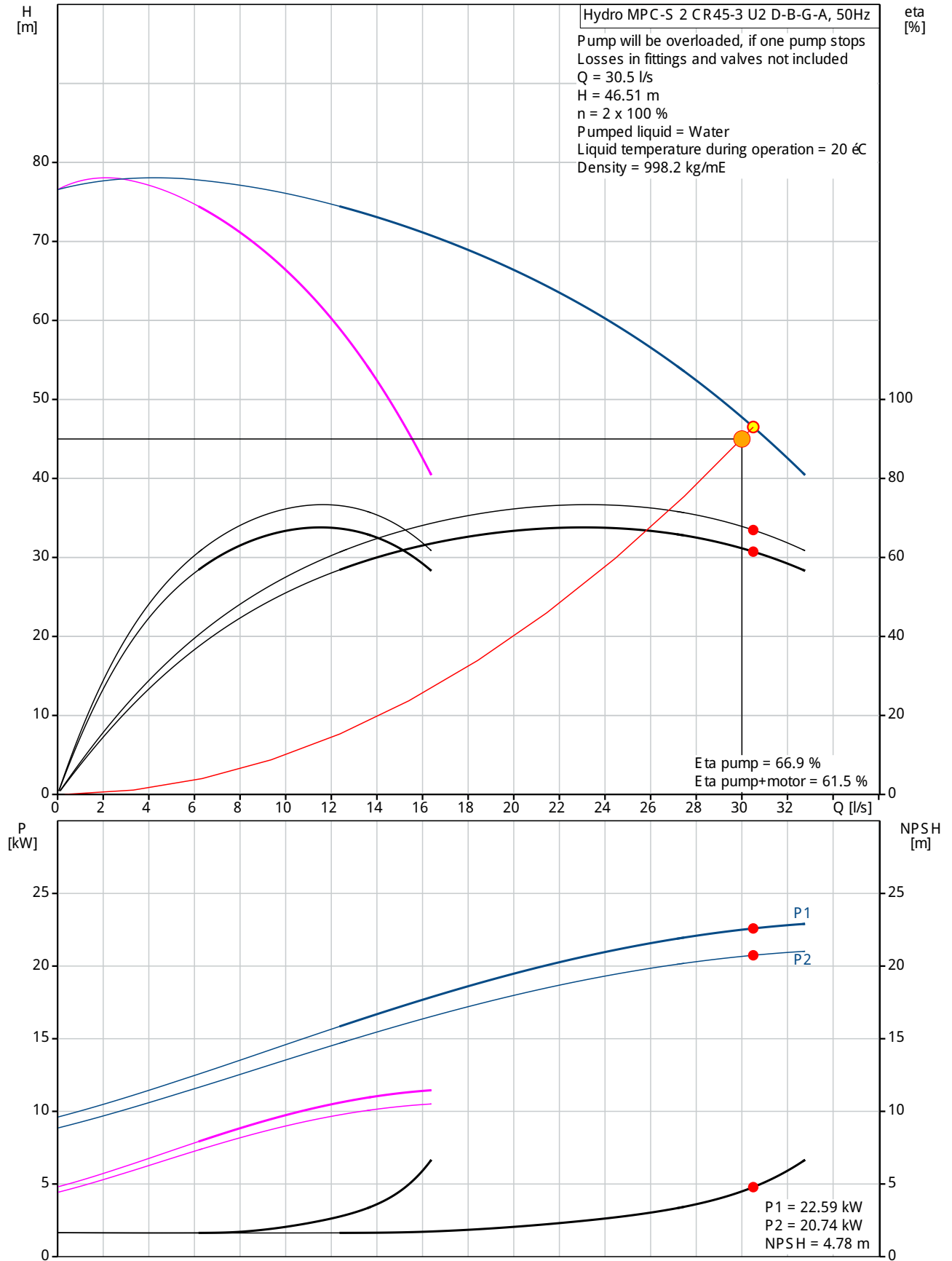
Dry-running protection and diaphragm tank are available according to the list of accessories.

Pump operation is controlled by Control MPC with the following functions:

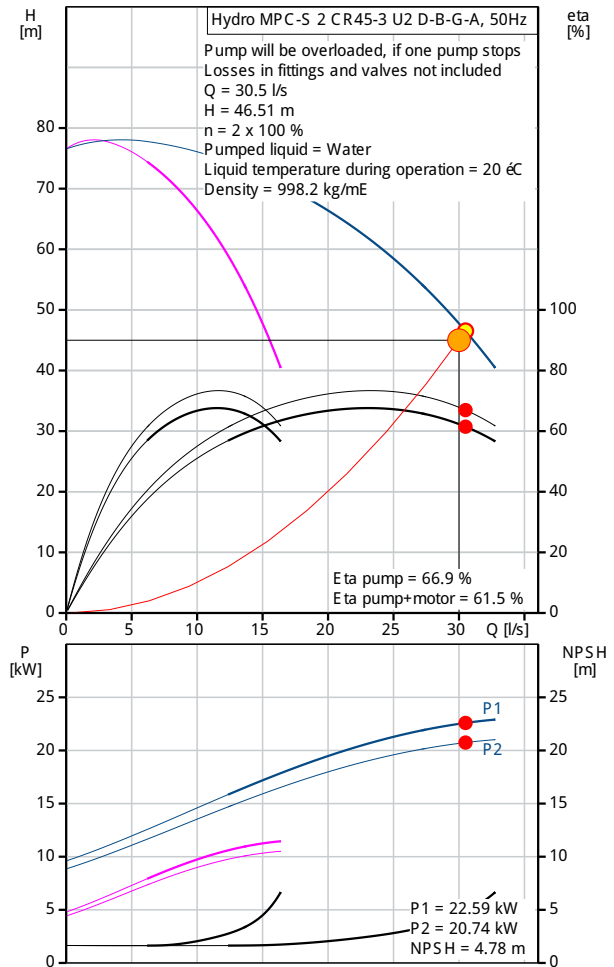
- intelligent CU 352 multi-pump controller
- PID controller with adjustable PI parameters (Kp + Ti)
- constant pressure at setpoint, independent of inlet pressure
- on/off operation at low flow
- automatic cascade control of pumps for optimum efficiency
- selection of min. time between start/stop, automatic pump changeover and pump priority
- automatic pump test function to prevent idle pumps from seizing up
- possibility of standby pump allocation
- possibility of backup sensor (redundant primary sensor)
- manual operation
- possibility of external setpoint influence
- log function
- setpoint ramp
- possibility of digital remote-control functions
- system on/off
- max., min. or user-defined duty
- up to six alternative setpoints
- possibility to configure digital inputs and outputs individually
- pump and system monitoring functions
- minimum and maximum limits of current value
- inlet pressure
- motor protection
- sensors monitored to prevent malfunction
- alarm log with the previous 24 warnings/alarms
- display and indication functions

Qty.	Description
	<p data-bbox="564 338 1390 483">colour screen display green indicator light for operating indications and red indicator light for fault indications potential-free changeover contacts for operation and fault Grundfos bus communication.</p> <p data-bbox="201 517 1161 546">It is possible to add CIM communication modules for communicating with SCADA/BMS.</p> <p data-bbox="201 575 938 636">Pumps, piping, cabling complete are mounted on the base frame. The Control MPC is supplied for installation next to the booster set.</p> <p data-bbox="201 665 735 694">The booster system has been preset and tested.</p> <p data-bbox="201 784 711 875">Pumped liquid: Water Liquid temperature: 5 °C to 60 °C Max. operating pressure: 16 bar</p> <p data-bbox="201 904 679 965">Mains supply: 380-415 V Rated current: 42.8 A</p> <p data-bbox="201 994 651 1113">Suction port: DN 150 Discharge port: DN 150 Net weight: 554 kg Gross weight: 714 kg</p>

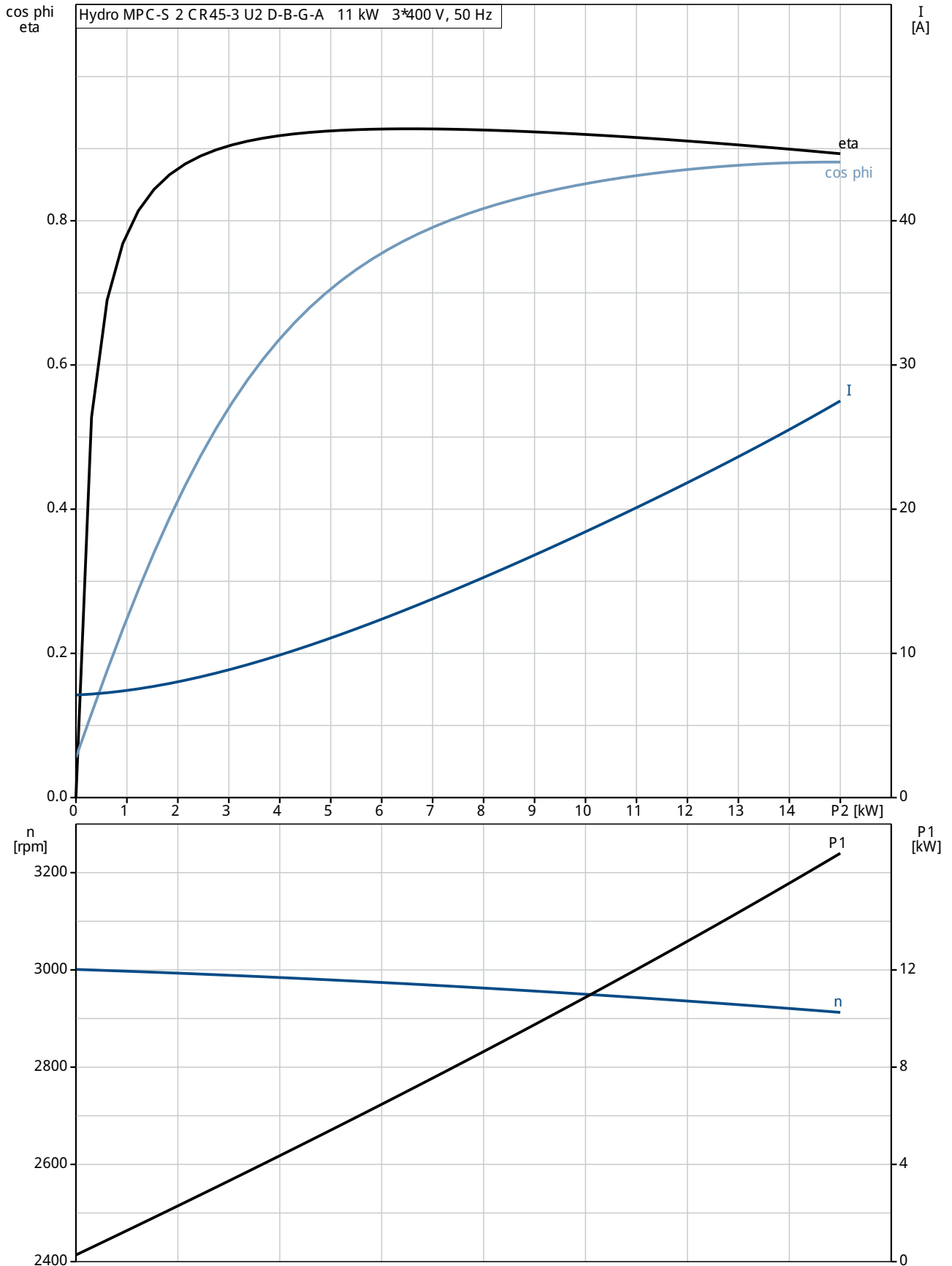
95126628 Hydro MPC-S 2 CR45-3 U2 D-B-G-A 50 Hz



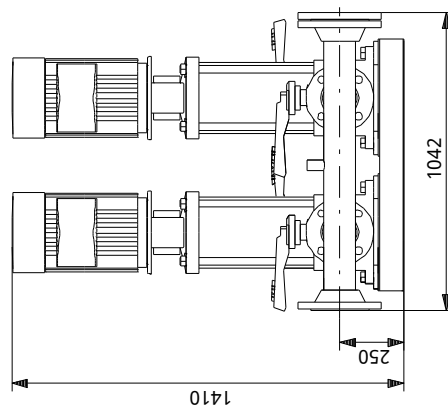
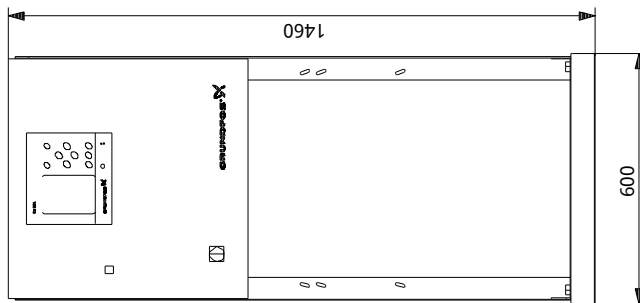
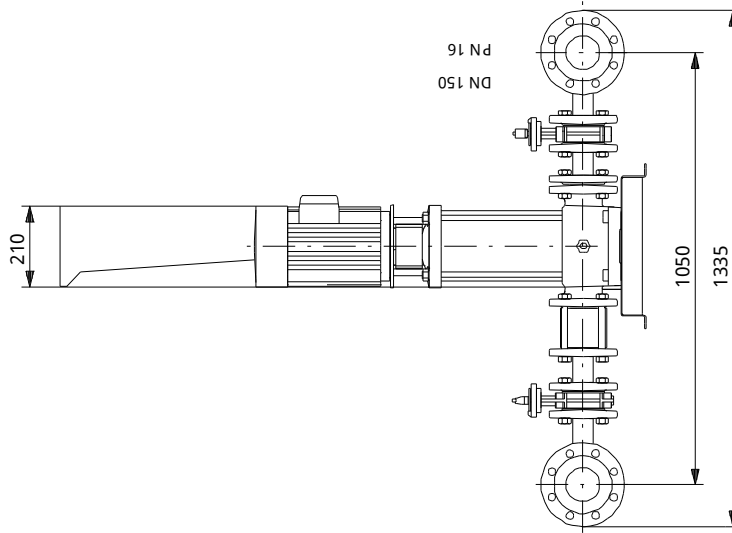
Description	Value
General information:	
Product name:	Hydro MPC-S 2 CR45-3 U2 D-B-G-A
Product No:	95126628
EAN number:	5700837179225
Price:	14.421,79 EUR
Technical:	
Actual calculated flow:	30.5 l/s
Max flow:	32.22 l/s
Max flow system:	16.11 l/s
Resulting head of the pump:	46.51 m
Head max:	77.1 m
Main pump name:	CR45-3
Main pump No:	96122801
Number of pumps:	2
Non-ret. valve:	at discharge side
Materials:	
Manifolds:	Galvanized steel
Installation:	
Maximum operating pressure:	16 bar
Maximum permissible inlet pressure:	8.3 bar
Manifold inlet:	DN 150
Manifold outlet:	DN 150
Pressure rating:	PN 16
Earth connection:	PE
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	5 .. 60 °C
Selected liquid temperature:	20 °C
Density at selected liquid temperature:	998.2 kg/m ³
Kinematic viscosity:	1 mm ² /s
Electrical data:	
Power (P2) main pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Rated current of system:	42.8 A
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP54
Radio interference suppression:	EMC Certificate - Hydro MPC 1 [2007]
Controls:	
Control type:	S
Tank:	
Diaphragm tank:	No
Others:	
Basis plant:	Y
Net weight:	554 kg
Gross weight:	714 kg
Product range:	South Europe



95126628 Hydro MPC-S 2 CR45-3 U2 D-B-G-A 50 Hz

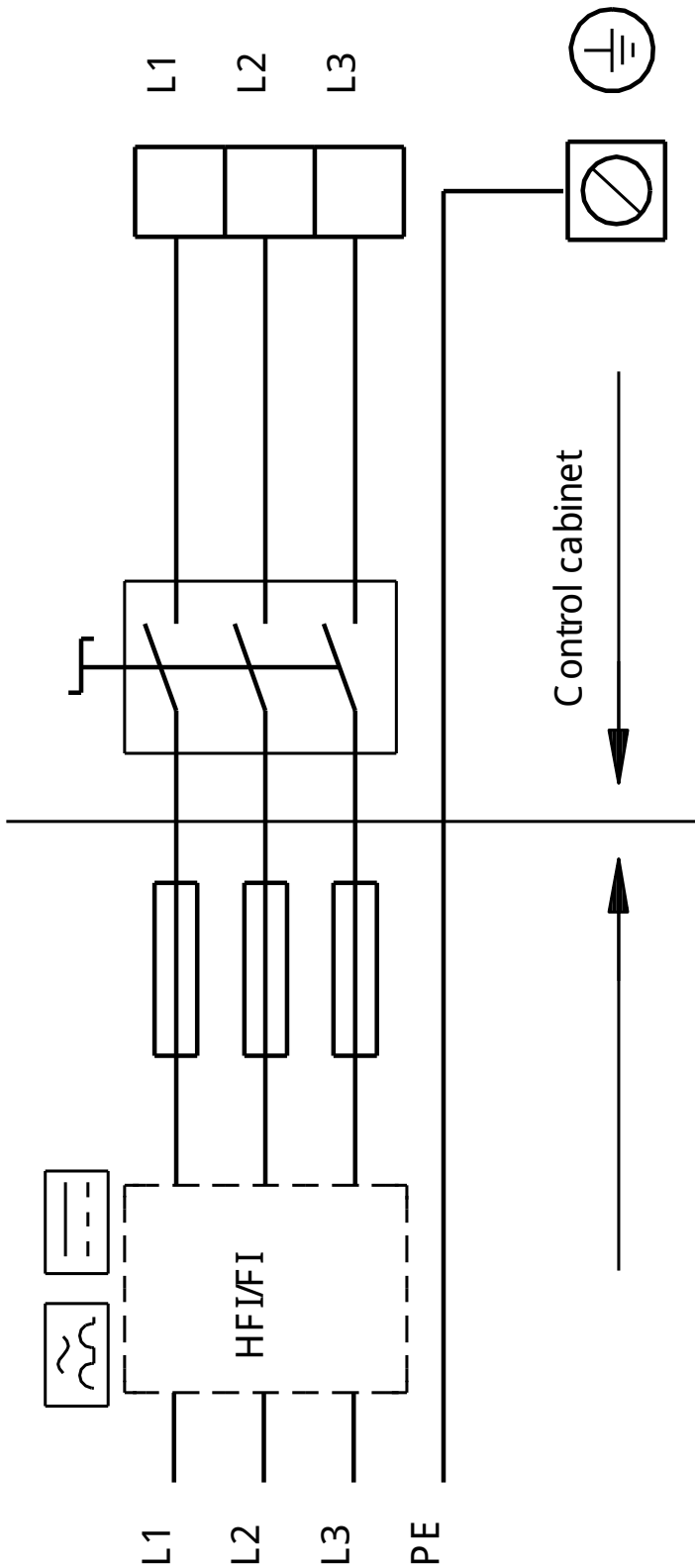


95126628 Hydro MPC-S 2 CR45-3 U2 D-B-G-A 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

95126628 Hydro MPC-S 2 CR45-3 U2 D-B-G-A 50 Hz



Note! All units are in [mm] unless others are stated.