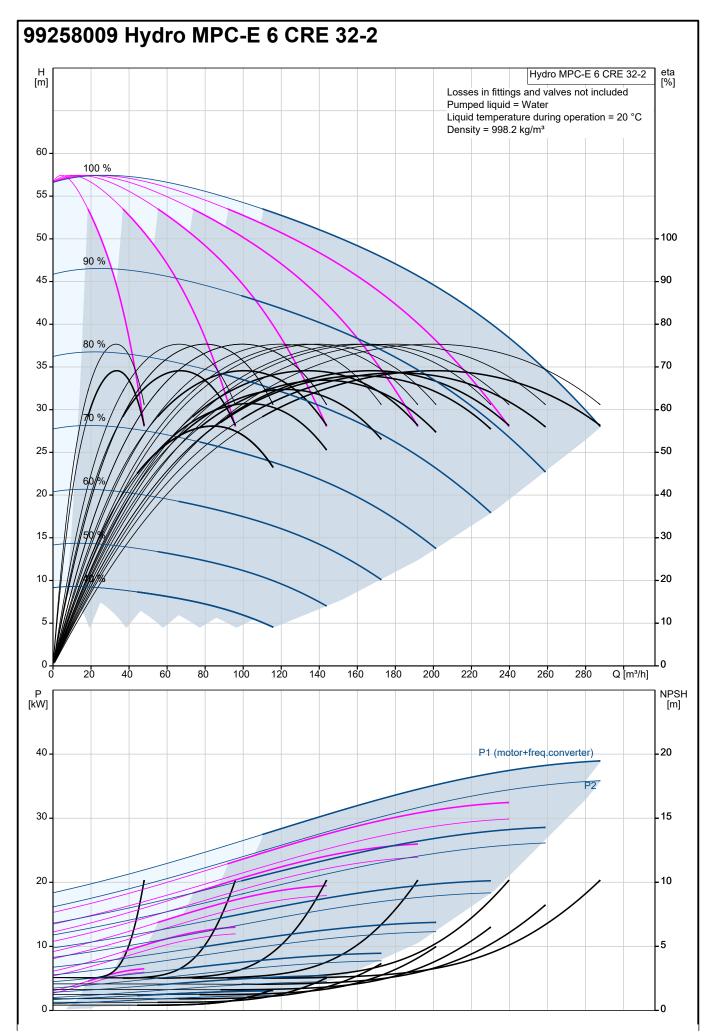
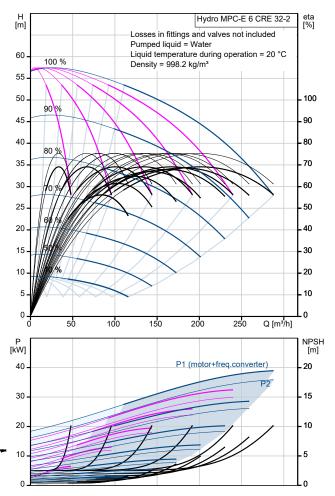
y. Description						
Hydro MPC-E 6 CRE 32-2						
	-					
	L					
	Notel Broduct picture may differ from actual product					
Note! Product picture may differ from actual product Product No.: 99258009						
Pressure booster system suppli	ed as compact assembly according to DIN standard 1988/T5.					
, , , , , , , , , , , , , , , , , , , ,						
All pumps are speed-controlled.						
From 0.37 to 11 kW, the booste	r system is equipped with CR, CRE, CRI, CRIE pumps with electronically t motors with extremely high efficiency. The total efficiency of the motor including the					
frequency converter applies to I	E5 level in IEC60034-31.					
From 15 to 22 kW, the booster s	system is equipped with CR, CRE, CRI, CRIE pumps with motors with integrated					
frequency control. The total efficiency	ciency of the motor including the frequency converter is better than the IE3 level in standard only applies to the motor.					
12C00034-31, even though this	standard only applies to the motor.					
* Hydro MPC-E maintains	a constant pressure through continuous adjustment of the speed of the pumps.					
	is adapted to the demand through cutting in/out the required number of pumps and					
through parallel control of	f the pumps in operation.					
* Pump changeover is aut	omatic and depends on load, time and fault.					
The system consists of these parts: :vertical, multistage, centrifugal pumps, type CRE 32-2 Pump parts in centrat with the numbed liquid are made of staipless steel EN DIN 1.1301						
				Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301 Pump bases and heads are of either cast iron/stainless steel (CRI) or cast iron EN-GJS-500-7 (CR), depending on pump type; other vital parts are made of stainless steel EN DIN 1.4301		
The pumps are equipped with a	service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM)					
* Two stainless steel manifolds to EN DIN 1.4571						
<ul> <li>Stainless steel base fran galvanized I-Beam frame</li> </ul>	ne to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a					
-	> OM) and two isolating valves for each pump					
	rtified according to DVGW, isolating valves according to DIN and DVGW					
	lve for connection of diaphragm tank					
	ssure transmitter (analog output 4-20 mA)					
	abinet, IP54, including main switch, all required fuses, motor protection, switching					
equipment and micropro	cessor-controlled CU 352.					
Dry rupping protection and dian	hragm tank are available according to the list of accessories.					
	inagini tank are available according to the list of accessories.					
Pump operation is controlled by	Control MPC with the following functions:					
*	Intelligent multipump controller, CU 352.					
	Constant-pressure control through continuously variable adjustment of the speed of					
	each individual pump.					
	PID controller with adjustable PI parameters (Kp + Ti).					
	Constant pressure at setpoint, independent of inlet pressure. Soft pressure build-up (To prevent water hammer during startup).					
	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). Secondary sensor (Possible to switch to another sensor/setpoint).					
	Secondary sensor (Possible to switch to another sensor/setpoint). Multi-sensor (up to 6 sensors to influence the setpoint).					

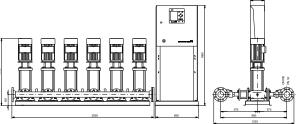
Qty.	Description					
1		Manual operation.				
		Possibility of external setpoint influence.				
		Log function.				
		Setpoint ramp.				
		Possibility of digital remote-control functions:				
		System on/off.				
		Max., min. or user-defined duty.				
		Up to 6 alternative setpoints.				
		Digital inputs and outputs can be configured individually.				
		Pump and system monitoring functions:				
		Minimum and maximum limits of current value.				
		Inlet pressure.				
		Non-return valve monitoring.				
		Motor protection.				
		Sensors and cables monitored for malfunction.				
	Alarm log with the previous 24 warnings/alarms. Display and indication functions: 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.				
		unication modules for communicating with Scada/BMS				
	It is possible to add CIM commun	ossible to add CIM communication modules for communicating with Scada/BMS.				
	Pumps piping cabling complete	as well as Control MPC are mounted on the base frame.				
	The booster system has been pre	et and tested.				
	There are options to upgrade the	pressure				
	boosting system.					
	Flow media:	Water				
	Allowed liquid temp.:	5 °C 60 °C				
	System pressure max.:	16 bar				
	Flow (Plant):	288 m³/h				
	Flow without one stand-by pump	acc. DIN 1988/T5: 240 m³/h				
	Nom. current of plant:	84.6 A				
	Nominal power:	7.5 kW				
	Net weight:	1010 kg				

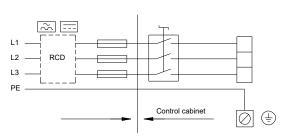


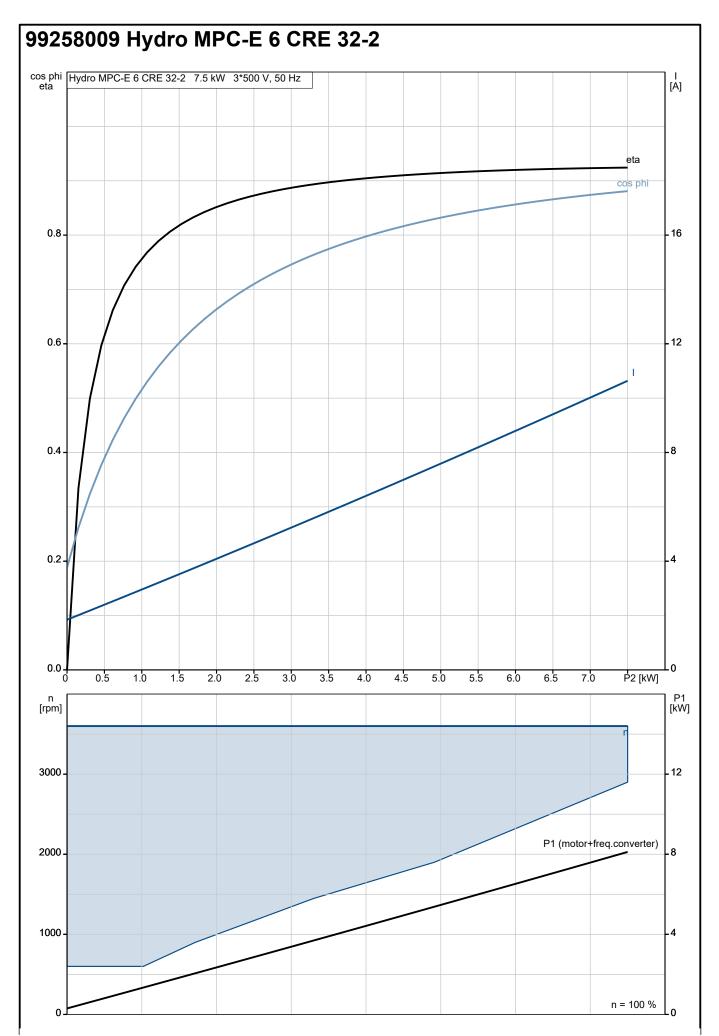
Description	Value		
General information:			
Product name:	Hydro MPC-E 6 CRE 32-2		
Product No:	99258009		
EAN number:	5713826117337		
Technical:			
Rated flow:	216 m³/h		
Max flow:	288 m³/h		
Max flow system:	240 m³/h		
Rated head:	43.1 m		
Head max:	57.2 m		
Main pump name:	CRE 32-2		
Main pump No:	99071953		
Number of pumps:	6		
Non-ret. valve:	at discharge side		
Materials:			
Manifolds:	EN/DIN 1.4571/ AISI 316 Ti		
Installation:			
Range of ambient temperature:	5 40 °C		
Maximum operating pressure:	16 bar		
Manifold inlet:	DN150		
Manifold outlet:	DN150		
Pressure rating:	PN 16		
Earth connection:	N, PE		
System design:	D		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	5 60 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m <sup>3</sup>		
Electrical data:	0		
Power (P2) main pump:	7.5 kW		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-415 V		
Rated current of system:	84.6 A		
Start. method:	electronically		
Enclosure class (IEC 34-5):	IP54		
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)		
Number of phases of main pump:	3		
Controls:			
Control type:	E		
Dry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR		
Tank:			
Volume of pressure tank:	121		



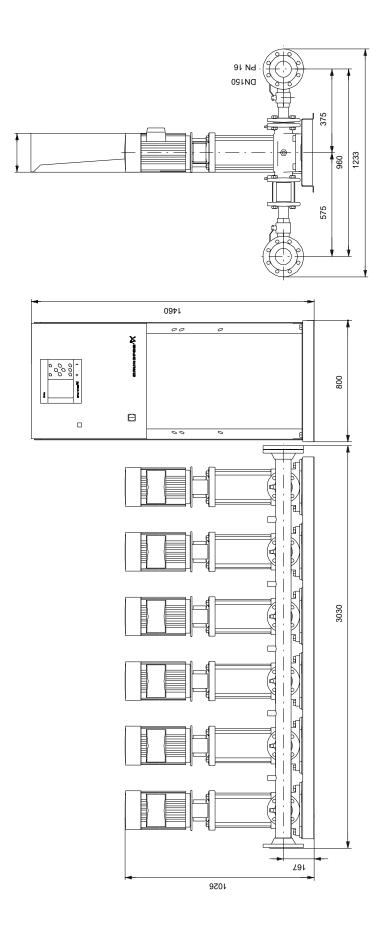




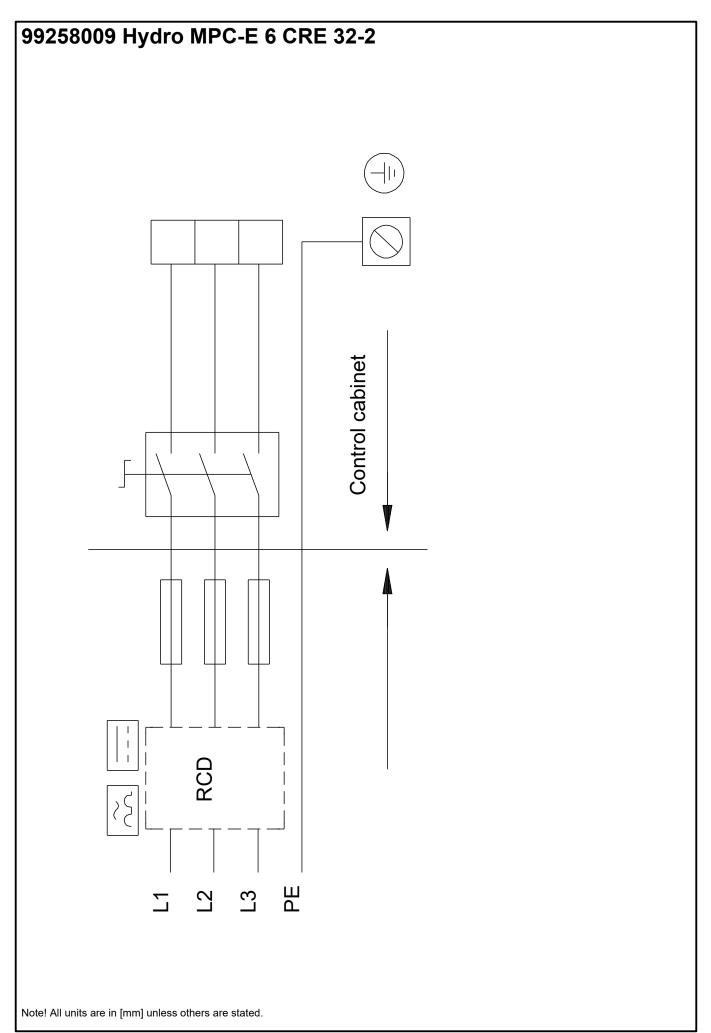




## 99258009 Hydro MPC-E 6 CRE 32-2



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



Order Data:								
Position	Your pos.	Product name	Amount	Product No	Total			
		Hydro MPC-E 6 CRE 32-2	1	99258009	Price or reques			
					reques			