



**Contar Descripción**

1

**HYDRO MPC-E 5 CR64-3-1**



Advierta! la foto puede diferir del actual producto

Código: [96941442](#)

Pressure booster system supplied as compact assembly according to DIN standard 1988/TS  
All pumps are speed-controlled.

The booster system is equipped with CR pumps connected to external Grundfos CUE frequency converters (one per pump).

- \* Hydro MPC-E maintains a constant pressure through continuous adjustment of the speed of the pumps.
- \* The system performance is adapted to the demand through cutting in/out the required number of pumps and through parallel control of the pumps in operation.
- \* Pump changeover is automatic and depends on load, time and fault.
- \* All pumps in operation will run at individual speeds.

The system consists of these parts:

- \* Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301.
- \* Pump bases and heads are of cast iron EN-GJS-500-7 (CR), 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 manifolds of stainless steel EN DIN 1.4571.
- \* Base frame of stainless steel EN DIN 1.4301 up to CR 64. Above CR 64 the pumps are placed on a galvanized C-profile frame.
- \* One non-return valve (POM) and two isolating valves for each pump.
- \* Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW.
- \* 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, IP 54, 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.

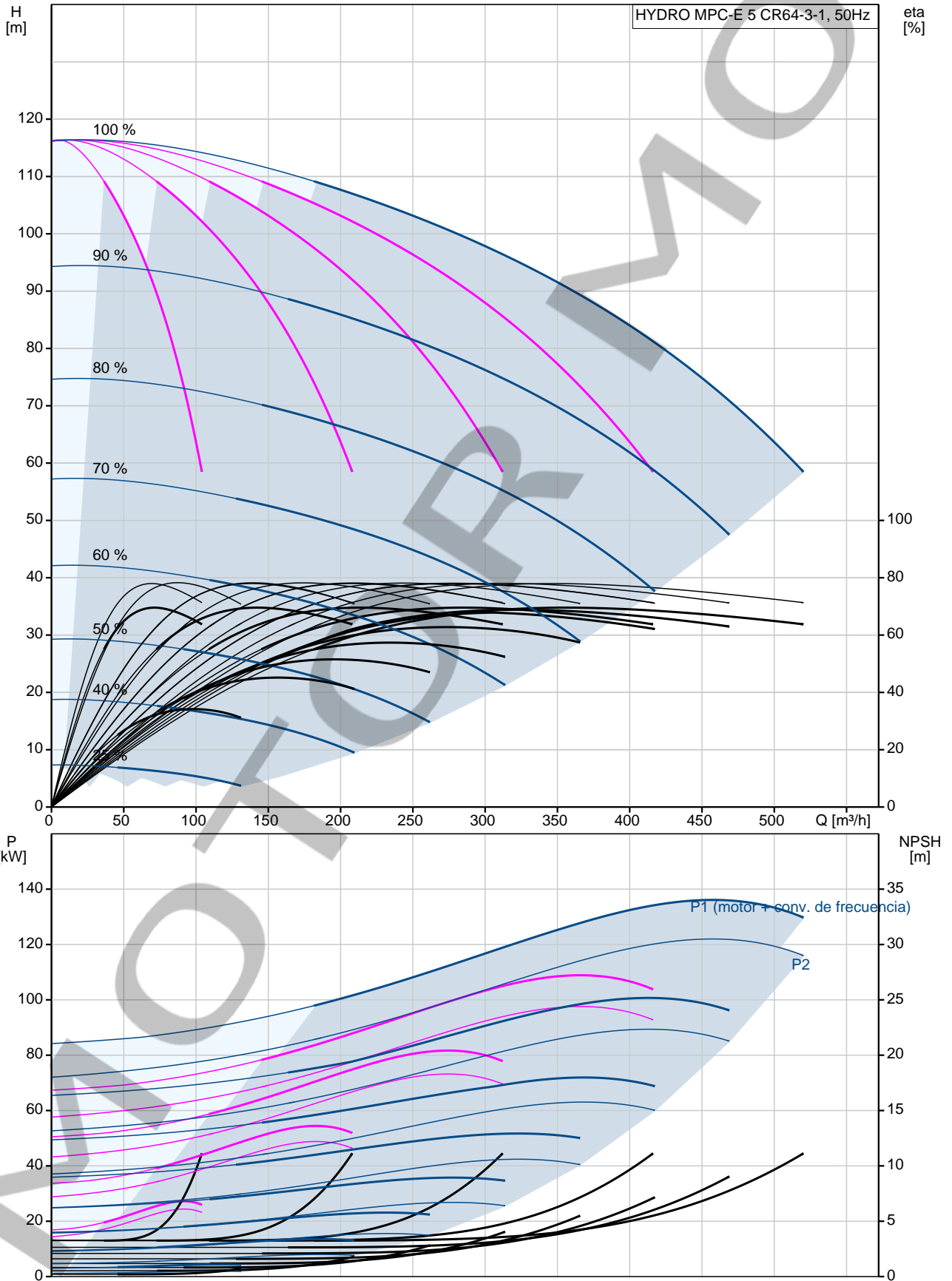
Pump operation is controlled by Control MPC with the following functions:

- \* Intelligent 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).
- Multi-sensor (up to 6 sensors to influence the setpoint).
- Manual operation.
- Possibility of external setpoint influence.
- Log function.
- Setpoint ramp.
- Possibility of digital remote-control functions:

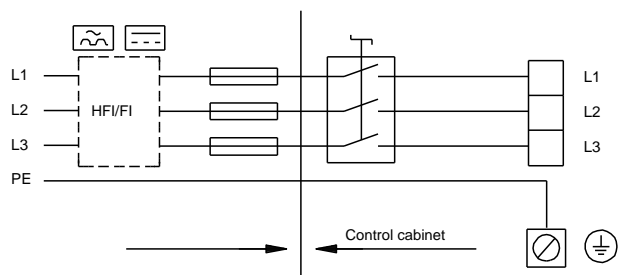
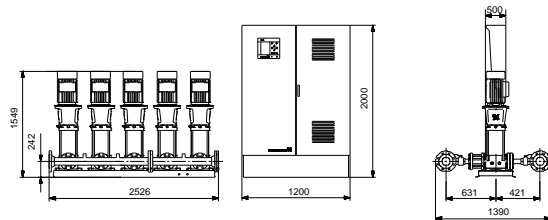
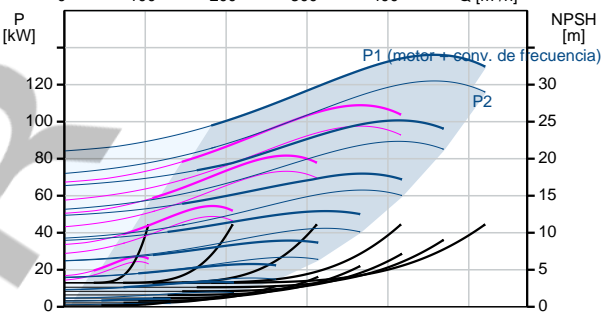
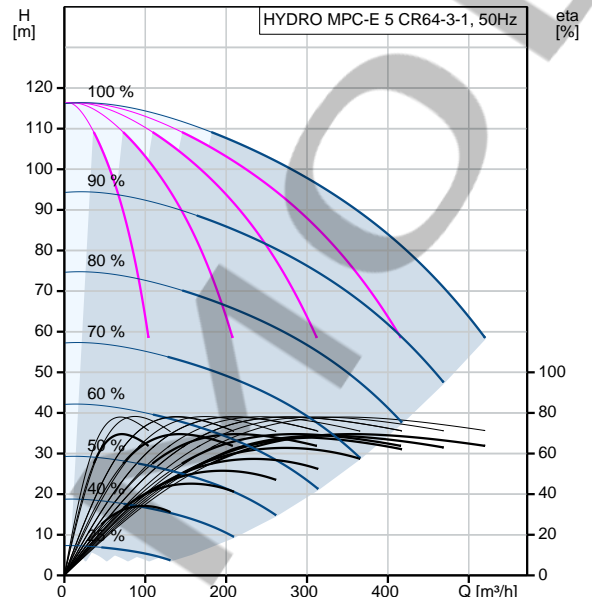


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	<p> System on/off.  Max., min. or user-defined duty.  Up to 6 alternative setpoints.  Digital inputs and outputs can be configured individually.  Pump and system monitoring functions:  Minimum and maximum limits of current value.  Inlet pressure.  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. </p> <p> It is possible to add CIM communication modules for communicating with Scada/BMS. </p> <table data-bbox="225 896 718 1120"> <tr> <td>Fluido:</td> <td>Agua</td> </tr> <tr> <td>Presión max. del sistema:</td> <td>16 bar</td> </tr> <tr> <td>Caudal (Instalación):</td> <td>510 m<sup>3</sup>/h</td> </tr> <tr> <td>Alimentación:</td> <td>380-415 V</td> </tr> <tr> <td>Corriente nominal instalación:</td> <td>275,6A-400V</td> </tr> <tr> <td>Potencia nominal:</td> <td>30 kW</td> </tr> <tr> <td>Peso neto:</td> <td>2520 kg</td> </tr> </table> <p> Maximum head: 116 m  Maximum flow: 510 m<sup>3</sup>/h </p>	Fluido:	Agua	Presión max. del sistema:	16 bar	Caudal (Instalación):	510 m <sup>3</sup> /h	Alimentación:	380-415 V	Corriente nominal instalación:	275,6A-400V	Potencia nominal:	30 kW	Peso neto:	2520 kg
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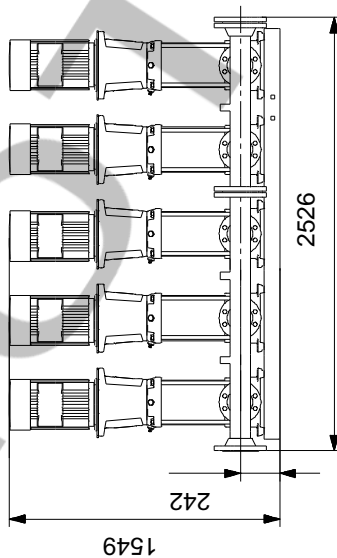
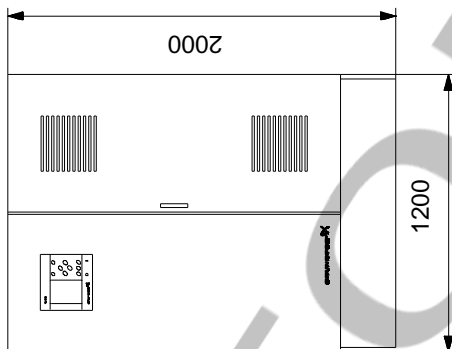
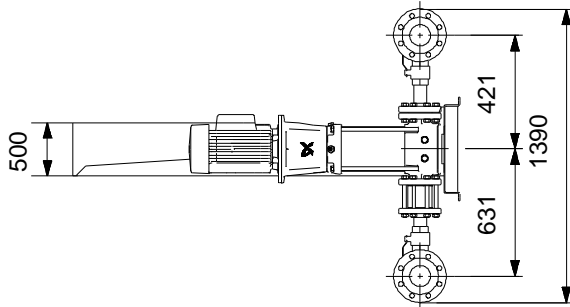
## 96941442 HYDRO MPC-E 5 CR64-3-1 50 Hz



Descripción	Valor
<b>Información general:</b>	
Producto::	HYDRO MPC-E 5 CR64-3-1
Código::	96941442
Número EAN::	5700314239725
<b>Técnico:</b>	
Caudal nominal:	385 m <sup>3</sup> /h
Caudal máx.:	510 m <sup>3</sup> /h
Altura nominal:	88.4 m
Altura máx.:	116 m
Nombre de la bomba principal:	CR64-3-1
Bomba princ. n.º:	96123688
Número de bombas:	5
Válvula antirret.:	lado descarga
<b>Materiales:</b>	
Colectores:	EN/DIN 1.4571/ AISI 316 TI
<b>Instalación:</b>	
Presión de trabajo máxima:	16 bar
Presión de entrada máxima permitida:	4.4 bar
Entrada de colector:	DN200
Salida de colector:	DN200
Presión nominal:	PN16
Toma de tierra:	PE
Diseño del sistema:	C
<b>Líquido:</b>	
Líquido bombeado:	Agua
Rango de temperatura del líquido:	5 .. 60 °C
Temperatura del líquido durante el funcionamiento:	20 °C
Densidad:	998.2 kg/m <sup>3</sup>
<b>Datos eléctricos:</b>	
Potencia (P2) bomba principal:	30 kW
Frecuencia de red:	50 Hz
Tensión nominal:	3 x 380-415 V
Intensidad nominal del sistema:	275,6A-400V
Tipo de arranque:	S/D
Grado de protección (IEC 34-5):	IP54
Supresión de radiointerferencias:	EMC DIRECTIVE(2014/30/EU)
<b>Paneles control:</b>	
Control type:	E
Dry running protection, mechanical:	NONE
<b>Depósito:</b>	
Depósito de membrana:	No
<b>Otros:</b>	
Peso neto:	2520 kg
Peso bruto:	2650 kg
Gama de productos:	Internacional
Fichero de configuración Control MPC:	98271949
Fichero de configuración Hydro MPC:	98272018
País de origen.:	DE
Tarifa personalizada n.º:	84137075

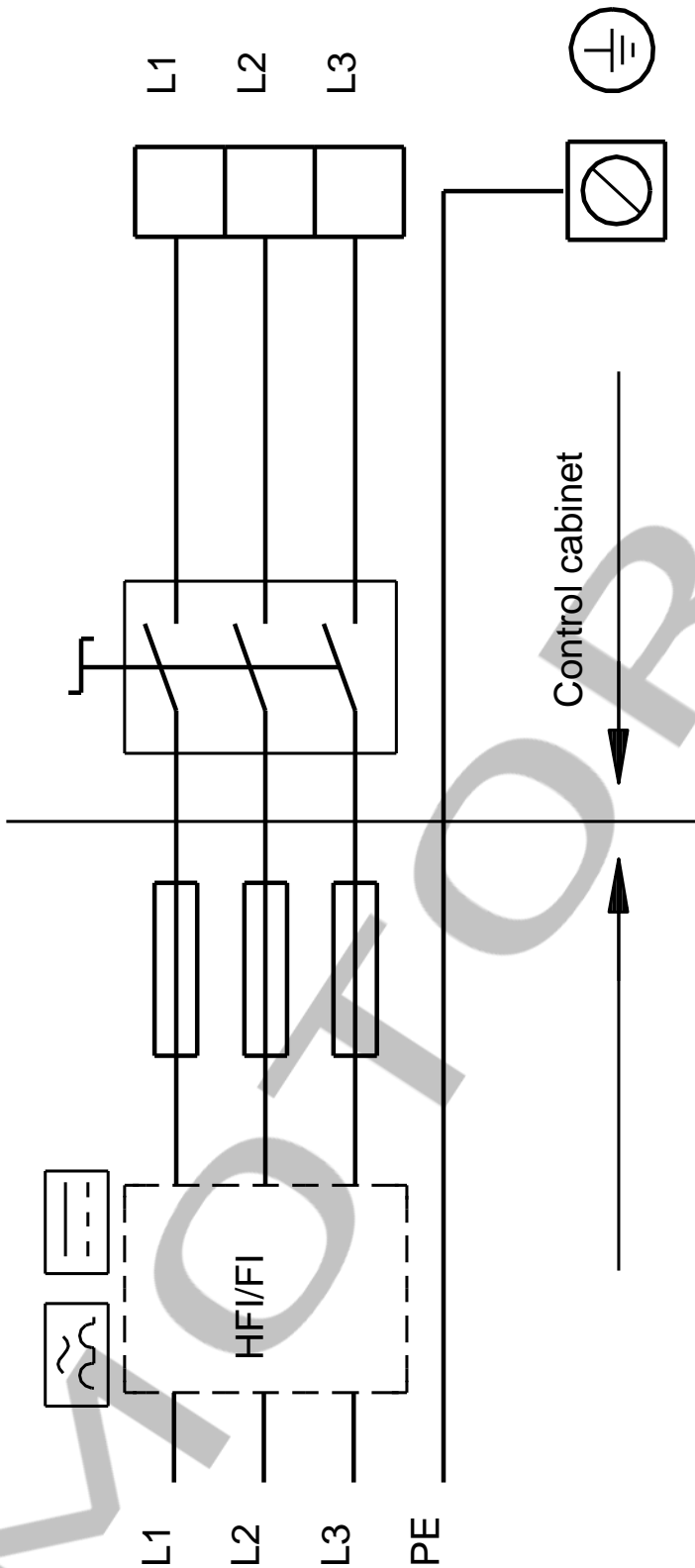


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Nota: Todas las unidades están en [mm] a menos que se indiquen otras. Exención de responsabilidad: este esquema dimensional simplificado no muestra todos los detalles.

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¡Nota! Uds en [mm] a menos que otras estén expresadas