

**Contar Descripción**

1 HYDRO MPC-E 6 CR64-4-2



Advierta! la foto puede diferir del actual producto

Código: [96941451](#)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5. 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:



Contar	Descripción
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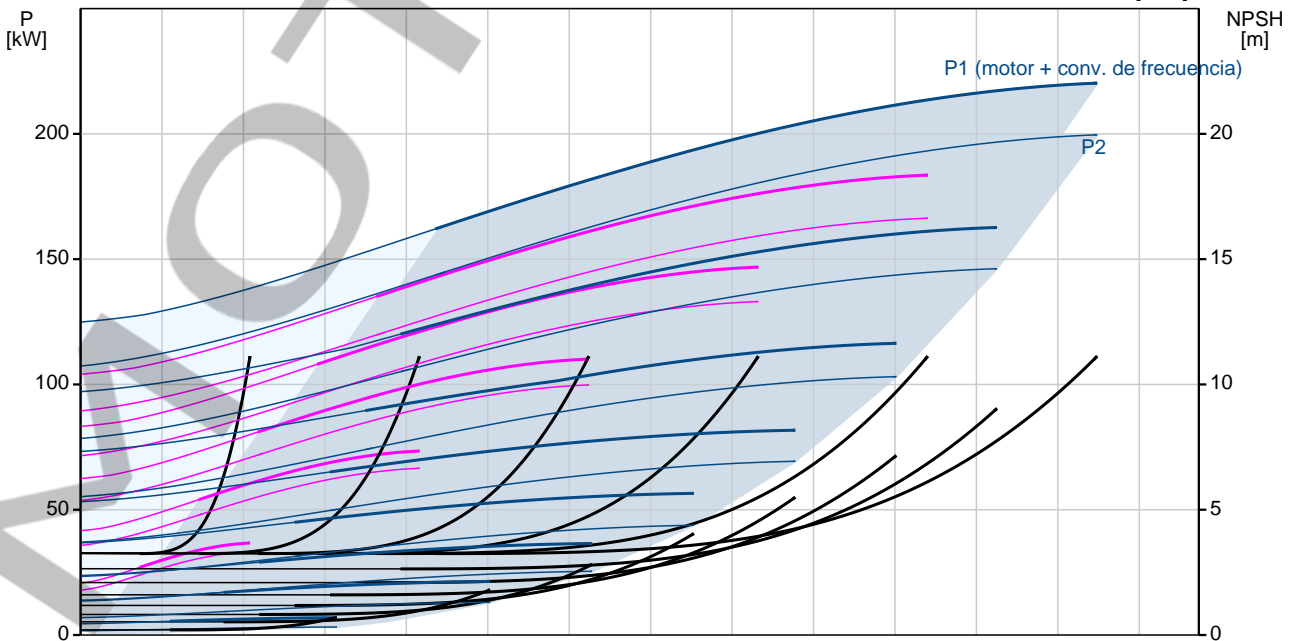
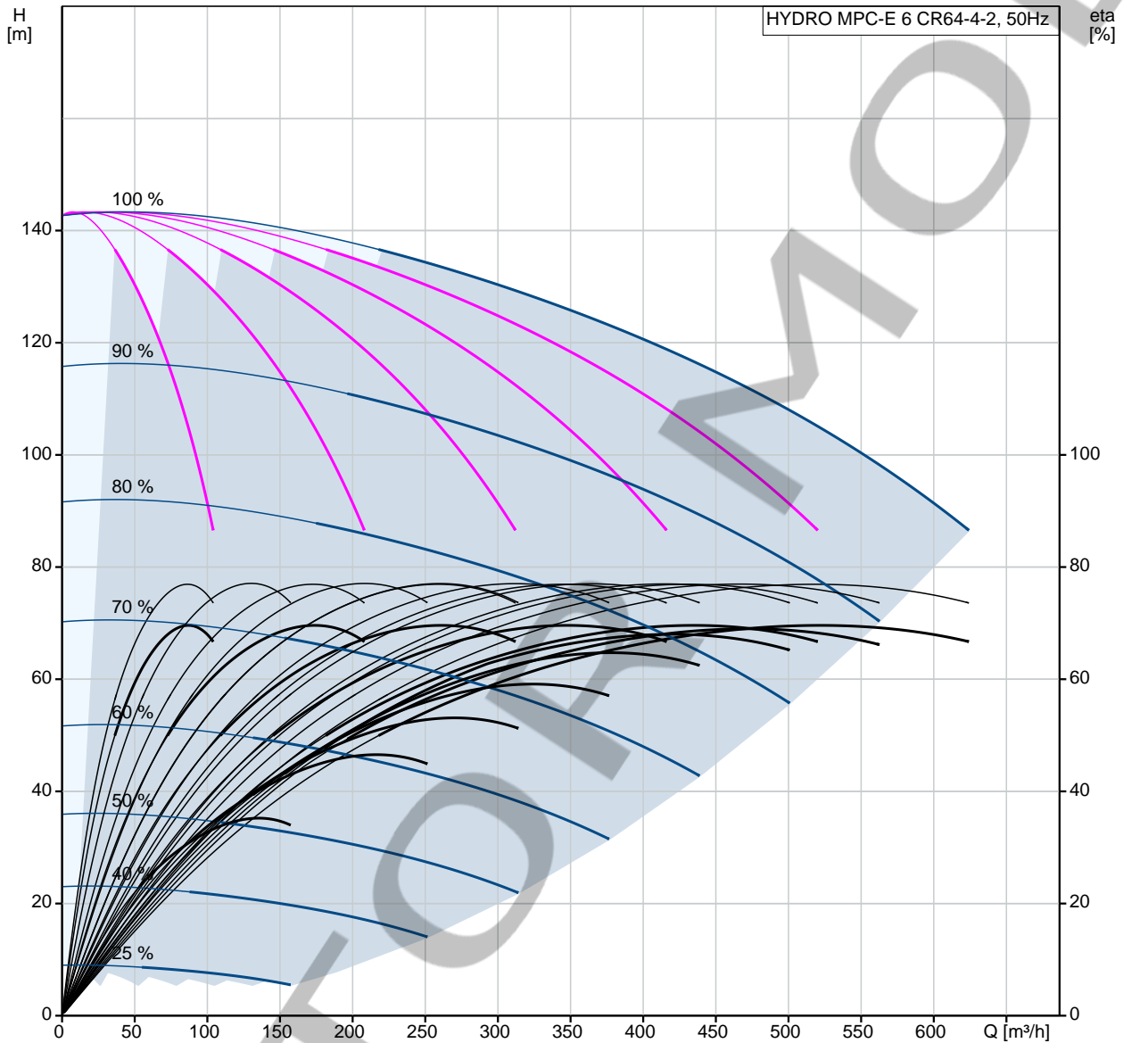
System on/off.  
 Max., min. or user-defined duty.  
 Up to 6 alternative setpoints.  
 Digital inputs and outputs can be configured individually.  
 Pump and system monitoring functions:  
 Minimum and maximum limits of current value.  
 Inlet pressure.  
 Motor protection.  
 Sensors and cables monitored 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.

It is possible to add CIM communication modules for communicating with Scada/BMS.

Fluido:	Agua
Presión max. del sistema:	16 bar
Caudal (Instalación):	612 m <sup>3</sup> /h
Alimentación:	380-415 V
Corriente nominal instalación:	397,4A-400V
Potencia nominal:	37 kW
Peso neto:	3390 kg

Maximum head: 144 m  
 Maximum flow: 612 m<sup>3</sup>/h

# 96941451 HYDRO MPC-E 6 CR64-4-2 50 Hz



Descripción	Valor
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**Información general:**

Producto::	HYDRO MPC-E 6 CR64-4-2
Código::	96941451
Número EAN::	5700314239817
<b>Técnico:</b>	
Caudal nominal:	462 m³/h
Caudal máx.:	612 m³/h
Altura nominal:	111.3 m
Altura máx.:	144 m
Nombre de la bomba principal:	CR64-4-2
Bomba princ. n.º:	96123690
Número de bombas:	6
Válvula antirret.:	lado descarga

**Materiales:**

Colectores:	EN/DIN 1.4571/ AISI 316 TI
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**Instalación:**

Presión de trabajo máxima:	16 bar
Presión de entrada máxima permitida:	1.6 bar
Entrada de colector:	DN200
Salida de colector:	DN200
Presión nominal:	PN16
Toma de tierra:	PE
Diseño del sistema:	C

**Líquido:**

Líquido bombeado:	Agua
Rango de temperatura del líquido:	5 .. 60 °C
Temperatura del líquido durante el funcionamiento:	20 °C
Densidad:	998.2 kg/m³

**Datos eléctricos:**

Potencia (P2) bomba principal:	37 kW
Frecuencia de red:	50 Hz
Tensión nominal:	3 x 380-415 V
Intensidad nominal del sistema:	397,4A-400V
Tipo de arranque:	S/D
Grado de protección (IEC 34-5):	IP54
Supresión de radiointerferencias:	EMC DIRECTIVE(2014/30/EU)

**Paneles control:**

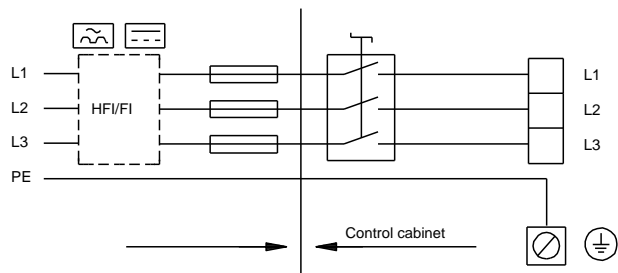
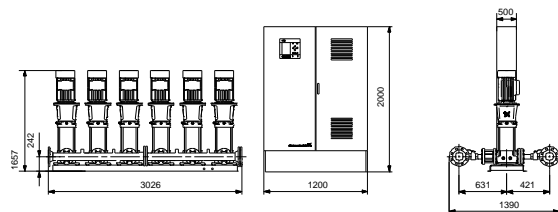
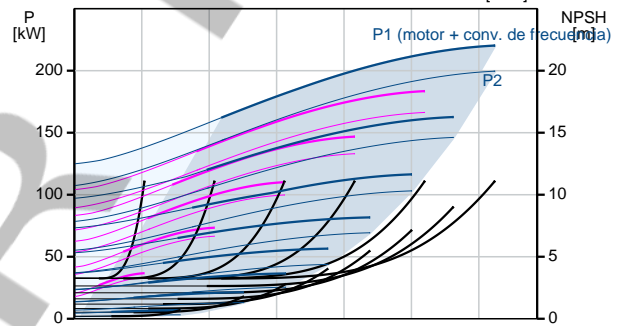
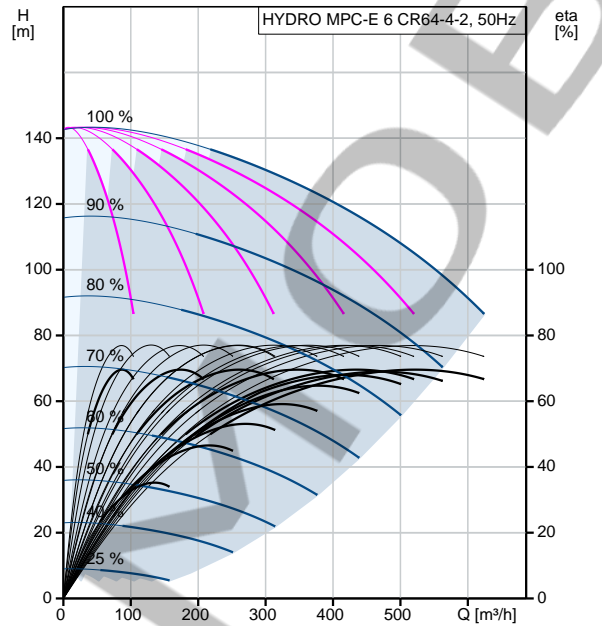
Control type:	E
Dry running protection, mechanical:	NONE

**Depósito:**

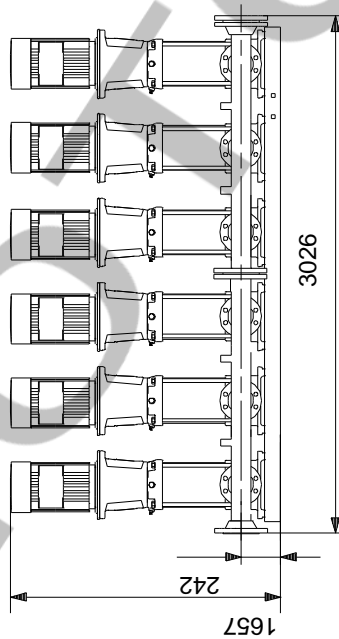
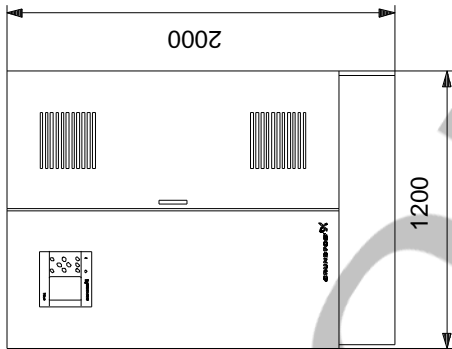
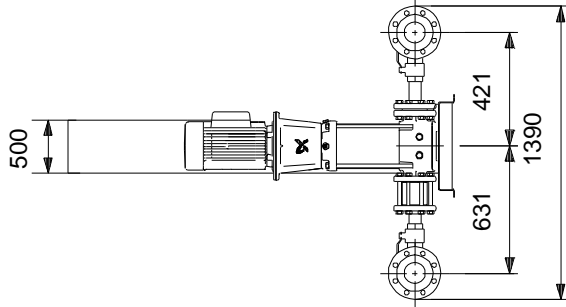
Depósito de membrana:	No
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**Otros:**

Peso neto:	3390 kg
Peso bruto:	3540 kg
Gama de productos:	Internacional
Fichero de configuración Control MPC:	98271950
Fichero de configuración Hydro MPC:	98272018

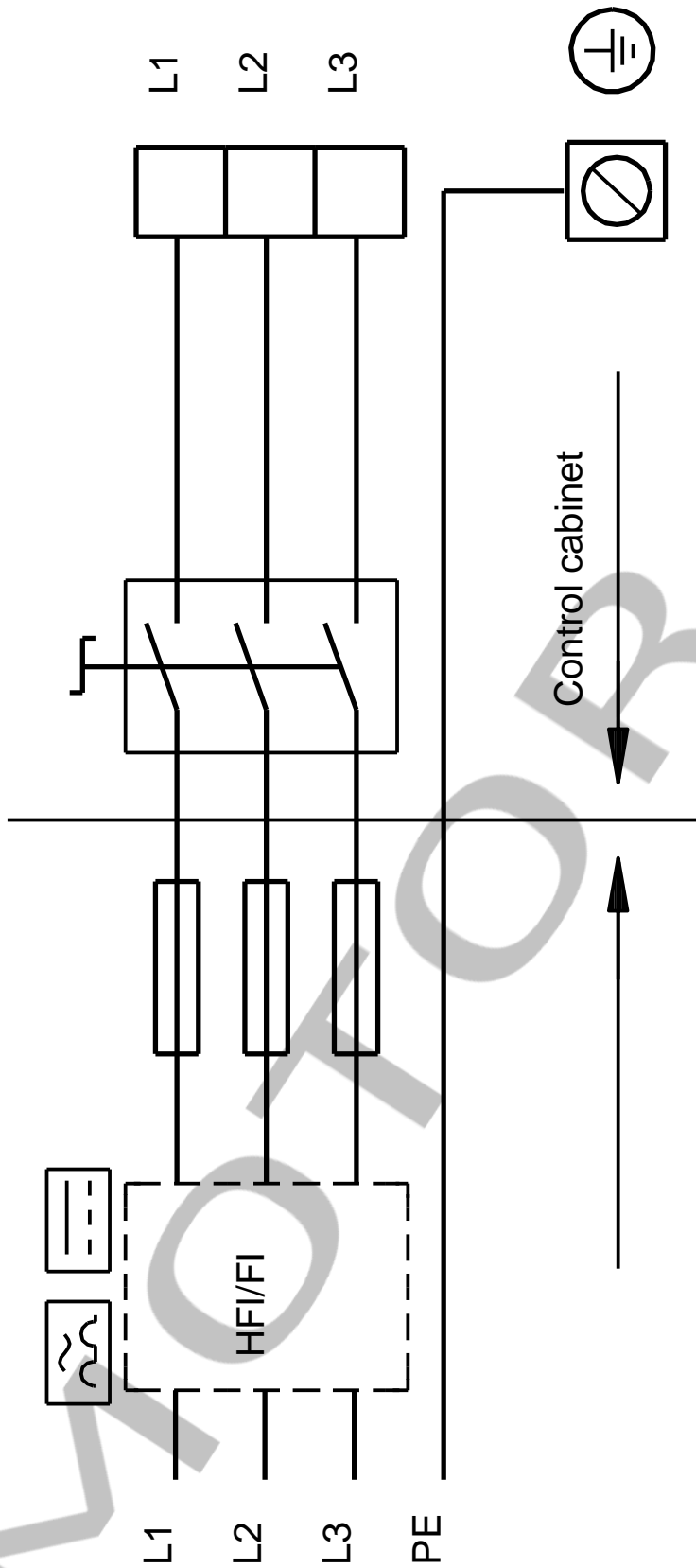


**96941451 HYDRO MPC-E 6 CR64-4-2 50 Hz**



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.

### 96941451 HYDRO MPC-E 6 CR64-4-2 50 Hz



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