

DOMESTIC PRESSURISATION



- Power voltage: Single-phase 230V
- Output voltage (pump): three-phase 230V
- Phase current: max 10 A
- Maximum pump power: 2.2 kW
- Output frequency: 5 - 60 Hz
- Display: 2 digit alphanumeric
- Protection rating: IP 65
- Operating temperature: 5 - 40 °C
- Pressure setpoint: 0.3 - 8 bar
- Max overpressure: 12 bar
- Electrical safety: EN60730
- Electromagnetic compatibility: EN61000 (specific standards declared in CE certificate)
- Protections:
 - Dry run
 - Over/under voltage
 - Short circuit
 - Over current
 - Over temperature
 - Insufficient pressure
 - Sensor failure

Inverter controlled units with two horizontal multi-stage pumps.

TYPICAL APPLICATIONS

GPE pressurisation units have the following applications:

- Water supply to building service distribution systems
- Generic industrial water supply
- Irrigation for gardens, parks and sports facilities

UNIT EQUIPMENT

- Two COMPACT series pumps with 2-pole self-ventilating asynchronous motor, efficiency class IE2 for three-phase motors starting from 0.6 kW with E-power series INVERTER
- Control unit: pumps equipped with inverters for modulating control
- Automatic INVERTER control of each pump with frequency variation at constant pressure, electronic controller display
- Corrosion resistant materials for all components in contact with fluids
- Galvanised steel base
- Galvanised steel manifolds (AISI 304, AISI 316 available on request). The manifolds are dimensioned in relation to the total hydraulic output of the pressurisation system
- Intake/delivery shut-off valves on each pump
- Intake side check valve
- Delivery side pressure gauge
- Protection against water supply failure
- Equipped for connection to delivery side accumulation tank
- Circuit breaker panel with two thermal cutouts

INVERTER CONTROL UNIT

- Installation on line
- Mounting position: any
- Fittings: 1"¼ male



2GPE COMPACT E-power

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TECHNICAL FEATURES

APPLICATION RANGE

- Maximum operating pressure: 10 bar
- Max fluid temperature: 40°C

PUMP MATERIALS

- Cast iron pump body and support
- AISI 304 external jacket
- Impeller and diffuser in PPE + glass fibre reinforced PS
- Stages in PPE + glass fibre reinforced PS/PTFE
- AISI 416 shaft
- Ceramic/carbon fibre/NBR mechanical seal

MOTOR SPECIFICATIONS

- Motors IE2 from 0.75kW
- Self-ventilated asynchronous 2-pole motor
- Insulation Class F
- Protection rating IP44
- Three-phase voltage 230/400V \pm 10%
- Permanently inserted capacitor and incorporated thermo-amprometric protection device with automatic rearm for single-phase motor

ADVANTAGES

- Energy saving: the controller modulates the pump rate in relation to system demand, better than direct in-line connection to the mains supply
- Better, faster response regulation
- Reduced hammering due to gradual startup and shutdown
- Improved heating, A/C and pressurisation system comfort
- Reduced startup current
- Pumps switched at each startup
- Speed modulation of both pumps for optimal regulation

ACCESSORIES

- Membrane accumulation tank: depending on installation conditions.

CONSIGNMENT

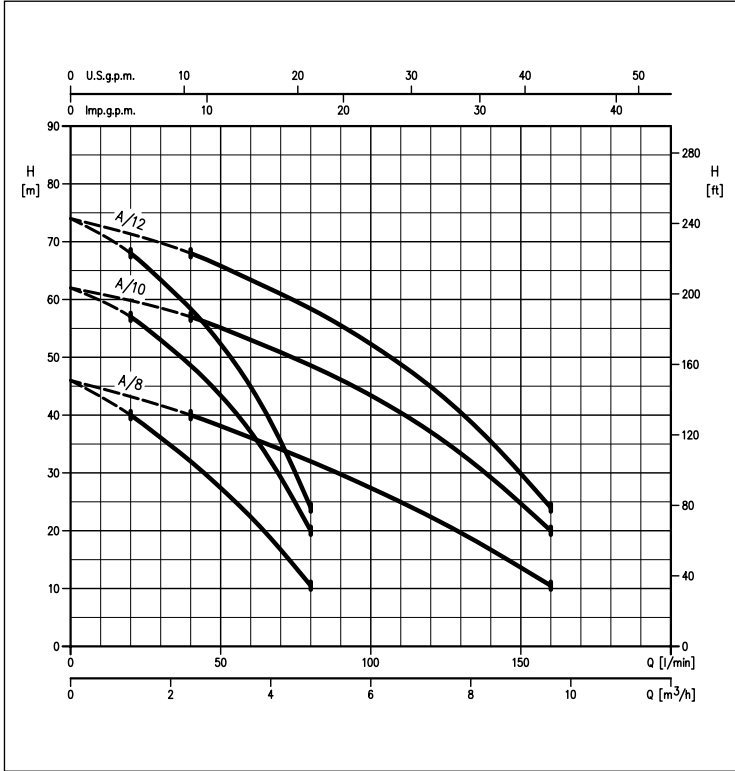
- Pressurisation system ready for hookup, factory assembled and tested for operation and hermetic seal
- Packaging
- Installation, user and maintenance instructions



2GPE COMPACT E-power

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PERFORMANCE CURVES for 2GPE COMPACT A series
(ISO 9906 Annex A)



PERFORMANCE CURVES for 2GPE COMPACT B series
(ISO 9906 Annex A)

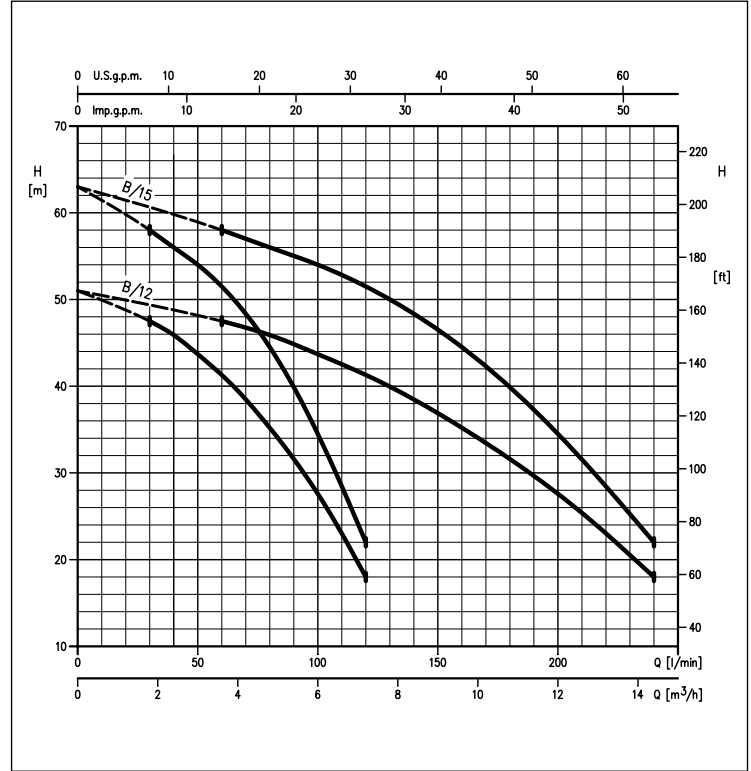


TABLE OF PERFORMANCE AND ELECTRICAL DATA FOR TWO PUMPS RUNNING SIMULTANEOUSLY

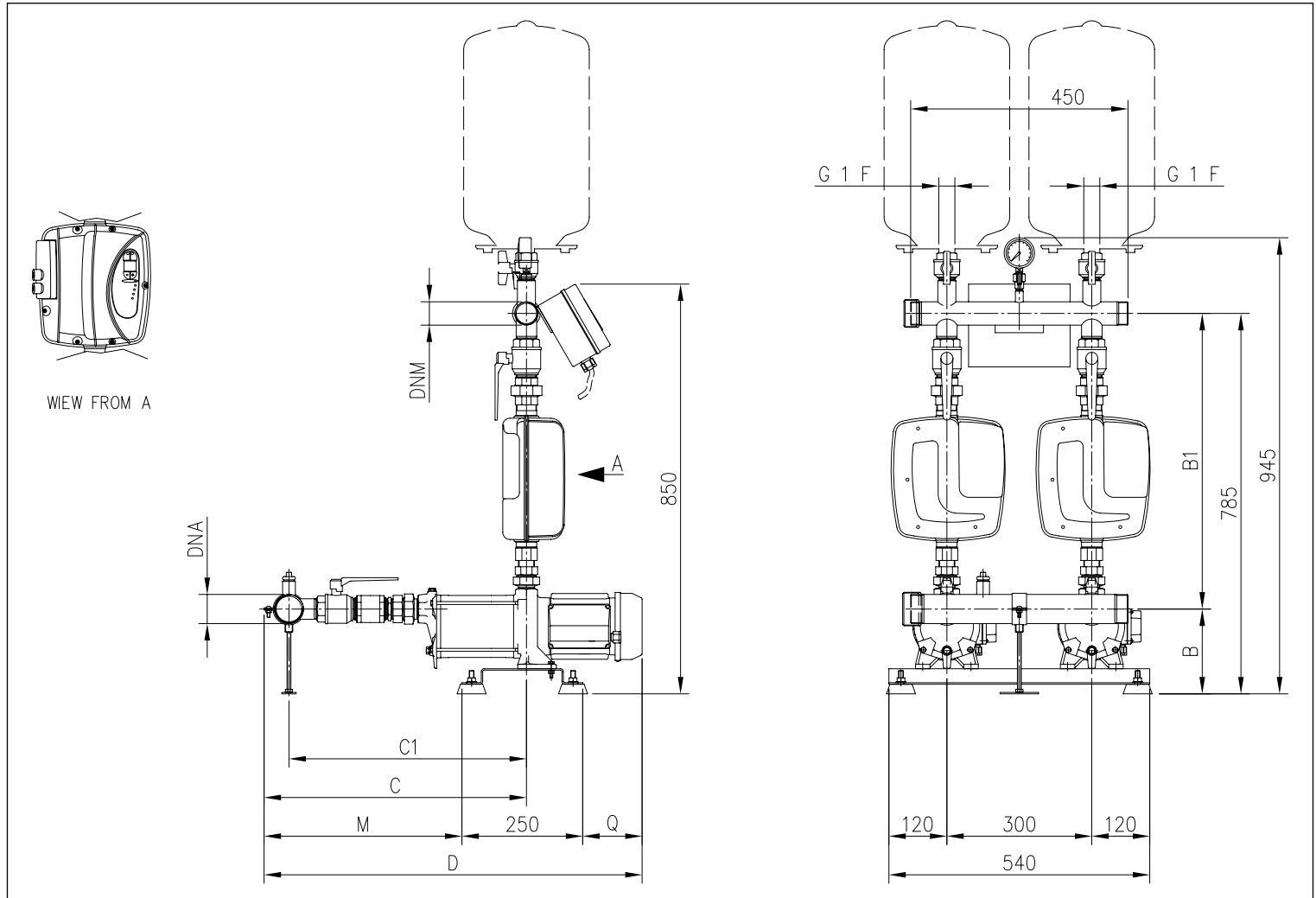
Model	Max absorption [kW]	Max absorption [A] Three-phase 230V	Q = Flow rate						H = Head [m]		
			l/min	40	60	80	100	120	160	200	240
			m³/h	2.4	3.6	4.8	6	7.2	9.6	12	14.4
2GPE COMPACT A 8 E-PW	0.6+0.6	5.2	39.7	36.1	32.0	27.4	22.4	10.5	-	-	-
2GPE COMPACT A 10 E-PW	0.75+0.75	6.6	56.5	53.0	48.5	43.5	37.1	20.0	-	-	-
2GPE COMPACT A 12 E-PW	0.9+0.9	8.6	67.5	63.5	58.5	52.5	45.0	24.0	-	-	-
2GPE COMPACT B 12 E-PW	0.9+0.9	8.6	-	47.5	46.0	43.5	41.5	35.2	27.6	18.0	-
2GPE COMPACT B 15 E-PW	1.1+1.1	9.0	-	58.0	56.0	54.0	51.5	44.5	34.5	22.0	-

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2GPE COMPACT E-power

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DIMENSIONS



DIMENSION CHART

Model	Dimensions [mm]										Weight [kg]
	B	B1	C	C1	DNA	DNM	D	M	Q		
2GPE COMPACT A/8 E-PW	180	620	430	380	G 2"	G 1 1/2"	615	295	70	39	
2GPE COMPACT A/10 E-PW	175	625	455	405	G 2"	G 1 1/2"	680	320	110	48	
2GPE COMPACT A/12 E-PW	175	625	485	430	G 2"	G 1 1/2"	725	350	125	51	
2GPE COMPACT B/12 E-PW	175	625	385	335	G 2"	G 1 1/2"	625	255	125	50	
2GPE COMPACT B15 E-PW	175	625	410	360	G 2"	G 1 1/2"	650	275	125	50	

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