

### DOMESTIC PRESSURISATION



Inverter controlled units with two vertical 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 CVM series pumps with 2-pole self-ventilating asynchronous motor, efficiency class IE2 for three-phase motors starting from 0.75 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 displayCorrosion 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
- Delivery 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"1/4 male
- 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

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### **TECHNICAL FEATURES**

#### **APPLICATION RANGE**

- Maximum operating pressure: 11 bar
- Max fluid temperature: 40°C
- MEI > 0.4 For further information, refer to the Data Books available on www. ebaraeurope.com

#### **PUMP MATERIALS**

- Cast iron pump body and motor mount
- AISI 304 external jacket
- Impeller and diffuser in PPE + glass fibre reinforced PS
- Stages in PPE + glass fibre reinforced PS/PTFE
- AISI 416 shaft

### **MOTOR SPECIFICATIONS**

- Motors IE2 from 0.75 kW
- Self-ventilated asynchronous 2-pole motor
- Insulation Class F
- Protection rating IP44
- Three-phase voltage 230/400V ±10% 50Hz
- Permanently inserted capacitor and incorporated thermoamperometric protection device with automatic rearm for singlephase 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

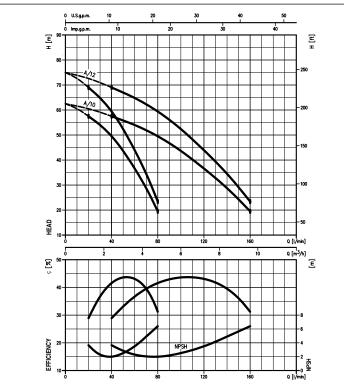
- Pressurisation system ready for hookup, factory assembled and tested for operation and hermetic seal
- Packaging
- Installation, user and maintenance instructions



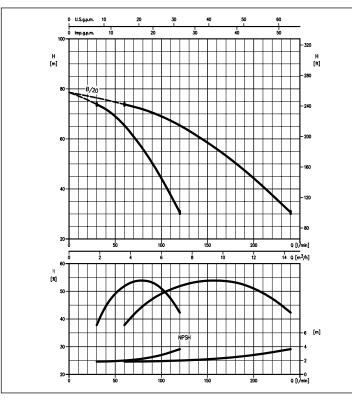


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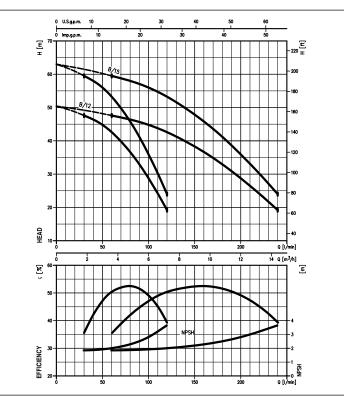
### PERFORMANCE CURVES for 2GPE CVM A 10 - A 12 - A 15 series (ISO 9906 Annex A)



## PERFORMANCE CURVES for 2GPE CVM B 20 series (ISO 9906 Annex A)



## PERFORMANCE CURVES for 2GPE CVM B 12 - B 15 series (ISO 9906 Annex A)



The contents of this publication must not be regarded as binding, EBAPA Punps Europe S.p.A. reserves the right to effect any modification it deems necessary, without prior notice

The indicated characteristics do not include the pressure drops in the valves and lines The indicated NPSH is a laboratory value related to the pump alone

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### DOMESTIC PRESSURISATION

### TABLE OF PERFORMANCE AND ELECTRICAL DATA FOR TWO PUMPS RUNNING SIMULTANEOUSLY

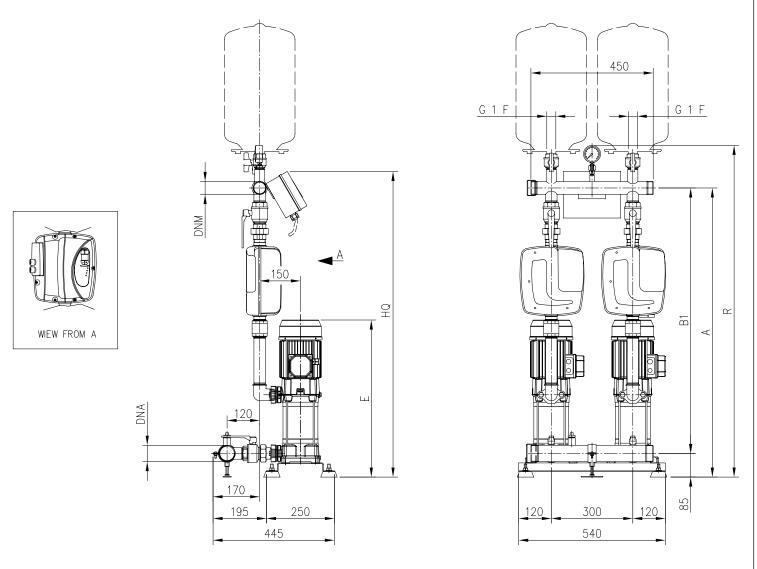
Model		Max absorption	Q = Flow rate								
		[A]	l/min	40	60	80	100	120	160	200	240
	[kW]	Three-phase	m³/h	2.4	3.6	4.8	6	7.2	9.6	12	14.4
		23ÓV	H = Head [m]								
2GPE CVM A/10 E -PW	0.75+0.75	5.8		57.5	54.0	49.5	43.5	36.6	19.5	-	-
2GPE CVM A/12 E -PW	0.9+0.9	8.6		69.0	65.0	59.5	52.5	44.0	23.4	-	-
2GPE CVM B/12 E-PW	0.9+0.9	8.6		-	48.0	46.8	45.0	42.6	36.6	28.8	19.6
2GPE CVM B/15 E-PW	1.1+1.1	8.6		-	60.5	58.5	56.2	53.3	45.8	36.0	24.5
2GPE CVM B/20 E-PW	1.5+1.5	12.6		-	74.0	72.0	69.0	65.5	56.0	44.5	30.6





### DOMESTIC PRESSURISATION

### DIMENSIONS



#### **DIMENSION CHART**

Model	Dimensions [mm]								
	Α	B1	DNA	DNM	E	HQ	R	[kg]	
2GPE CVM A/1 0 E -PW	960	875	G 2″	G 1″½	505	1025	1140	52	
2GPE CVM A/12 E -PW	985	900	G 2″	G 1″½	540	1050	1165	55	
2GPE CVM B/12 E-PW	935	850	G 2″	G 1″½	490	1000	1115	53	
2GPE CVM B/15 E-PW	960	875	G 2″	G 1″½	515	1025	1140	54	
2GPE CVM B/20 E-PW	985	900	G 2″	G 1″½	580	1050	1165	64	

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