

Variable Speed Units



1GPE MATRIX

VARIABLE SPEED UNITS WITH AN ELECTRIC PUMP



Pressure booster system with a multi-stage stainless steel electric pump with constant pressure control, including a variable speed electronic inverter device (model E-SPD+) and 2-litre expansion tank. The 1GPE systems are particularly suitable for domestic pressure boosting, limited garden irrigation, washing vehicles and clean water movement in general. The new E-SPD+ inverter device boasts easy use and programming thanks to simplified, intuitive software that allows the user to make the settings and start-up in about 2 minutes.

The 1GPE systems are available in 230V single-phase and 400V three-phase versions but, in both cases, the pump installed is of the three-phase type to ensure greater efficiency and lower energy consumption.

IDENTIFICATION CODE

1GPE	MATRIX 5-9T/2.2	ESPM	
			230V single-phase inverter
			400V three-phase inverter
			ESPM
			ESPT
			Pump model
			Variable speed 1-pump unit

TECHNICAL DATA

Maximum working pressure	10 bar
Maximum liquid temperature	80°C
Electric motor in insulation class	F
Efficiency	IE3
Protection degree	IP55
Supply voltage	230V ± 10% (single-phase versions) 400V ± 10% (three-phase versions)

1GPE MATRIX

VARIABLE SPEED UNITS WITH AN ELECTRIC PUMP

1GPE MATRIX

Model	kW	HP	Q=Flow rate															Input current [A] 3~ 230V 400V		DNA	DNM
			l/min	0	20	30	45	60	80	100	130	160	200	250	350	450					
			m³/h	0	1.2	1.8	2.7	3.6	4.8	6	7.8	9.6	12	15	21	27					
			H=Head [m]																		
1GPE MATRIX 3-5T/0.75 ESPM	0.75	1		56.5	52.5	49.0	42.5	34.0	20.0	-	-	-	-	-	-	3	-	G1"	G1"		
1GPE MATRIX 3-6T/0.9 ESPM	0.9	1.2		68.0	62.5	58.5	51.0	41.0	24.0	-	-	-	-	-	-	4.3	-	G1"	G1"		
1GPE MATRIX 5-5T/1.3 ESPM	1.3	1.8		57.5	-	54.0	51.0	48.5	43.5	36.7	22.0	-	-	-	-	5.8	-	G1¼	G1"		
1GPE MATRIX 5-6T/1.3 ESP(M)(T)	1.3	1.8		69.0	-	64.5	61.5	58.0	52.0	44.0	26.4	-	-	-	-	5.8	3.3	G1¼	G1"		
1GPE MATRIX 5-7T/1.5 ESP(M)(T)	1.5	2		80.5	-	75.5	72.0	67.5	61.0	51.5	30.8	-	-	-	-	6.6	3.8	G1¼	G1"		
1GPE MATRIX 5-9T/2.2 ESPM	2.2	3		104.0	-	97.0	92.0	87.0	78.0	66.0	39.6	-	-	-	-	8.2	-	G1¼	G1"		
1GPE MATRIX 10-4T/1.5 ESP(M)(T)	1.5	2		48.0	-	-	-	44.5	43.0	41.0	38.1	34.0	25.7	11.6	-	6.6	3.8	G1½	G1¼		
1GPE MATRIX 10-5T/2.2 ESP(M)(T)	2.2	3		60.0	-	-	-	55.5	53.5	51.5	47.5	42.5	32.1	14.5	-	8.2	4.7	G1½	G1¼		
1GPE MATRIX 10-6T/2.2 ESP(M)(T)	2.2	3		72.0	-	-	-	66.5	64.5	62.0	57.0	51.0	38.5	17.4	-	8.2	4.7	G1½	G1¼		
1GPE MATRIX 18-6T/4 ESPT	4	5.5		72.5	-	-	-	-	-	-	66.0	64.0	60.5	56.0	42.5	15.6	-	8.7	G2"	G1½	

SPECIFICATIONS

Pressure booster set with constant pressure control with variable frequency, consisting of a multi-stage electric pump in AISI 304 stainless steel (MATRIX range) including the E-SPD+ inverter device and 1 five-way connector in AISI 304 stainless steel (on the delivery side), 1 analogue pressure gauge and 1 pressure transducer (4-20mA). The 1GPE pressure booster set comes fitted as standard with a 2-litre expansion tank.

The pressure booster sets are designed to be connected and to communicate with other identical units, working in parallel.

SEE ALL THE OPTIONALS ON PAGE 47