

Units with two horizontal dual impeller pumps with stainless steel hydraulic parts.

### PUMP FEATURES

#### FIELD OF USE

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid: 60°C

#### MATERIALS

- Pump body, impeller, shaft, nozzle and seal housing disc in AISI 304
- Motor support in aluminium (up to 1.5 kW included), in cast iron (2.2 kW and over).

#### TECHNICAL DATA

- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- Protection rating IP55
- 230V  $\pm$  10% 50Hz, single phase voltage
- 230/400V  $\pm$  10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic reset incorporated for the single phase motor

#### TYPICAL APPLICATIONS

The base of the group is in galvanised steel as are the manifolds. The discharge manifold is set-up to gather two vertical membrane reservoirs. Mounted on them find two pressure switches, the electric control panel and a pressure gauge. On suction, each electric pump has an isolating valve and a non-return valve, with the possibility of connection to an air supply unit and has another isolating valve in discharge mode.

#### Protection and control panel with CE mark

- IMQ and VDE marked components
- Very low voltage auxiliary circuit
- Motor switch-on and switch-off are controlled by two pressure switches
- The connection to a float of minimum pressure pressure switch is possible in order to prevent functioning in conditions when there is no suction water
- A device is present that inverts the insertion order of the pumps at every start-up
- Power supply: - 230V, 50Hz single phase
- - 400V, 50 Hz three phase
- Direct start-up
- Power circuit protection fuses
- Auxiliary circuit protection fuses
- Protection rating IP 55
- Line main isolating device with door lock
- Aut - 0 - man. switches for each pump
- Reset circuit breaker protection
- Indicator LED:
  - network presence
  - motor running
  - level alarm
  - motor in protection mode (for three phase version only)
- Alarm output set-up
- On request, special version control panels can be used

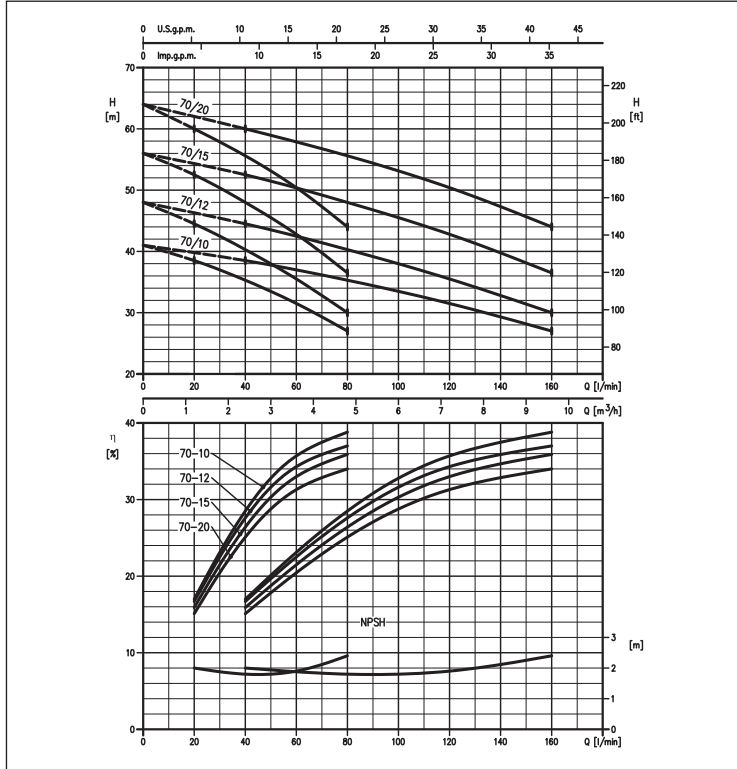
#### FUNCTIONING PRINCIPLES

The withdrawal or however the escape of water from the system with the pumps at a standstill, causes the pressure to drop and the consequent closure of the pressure switch contact with highest calibration, which determines start-up of the first electric pump. If the outlet discharge exceeds the flow rate of a pump, the pressure continues to drop until it causes the closure of the contact of the second pressure switch and the start-up of the second pump. The end of the distribution of the reduction of the outlet discharge leads to the pressure in the system rising, with opening of the pressure switch contacts and staggered pumps stops. The inversion of the ignition order of the two motors reduces the number of hourly start-ups of the individual pumps and consequently allows a homogenous use of the same. By connecting a float or minimum pressure pressure switch to the control panel (whether for withdrawal from the primary collection reservoir or from the hydraulic circuit), the most frequent cause of electric pump breakdown is prevented: the lack of water at suction.



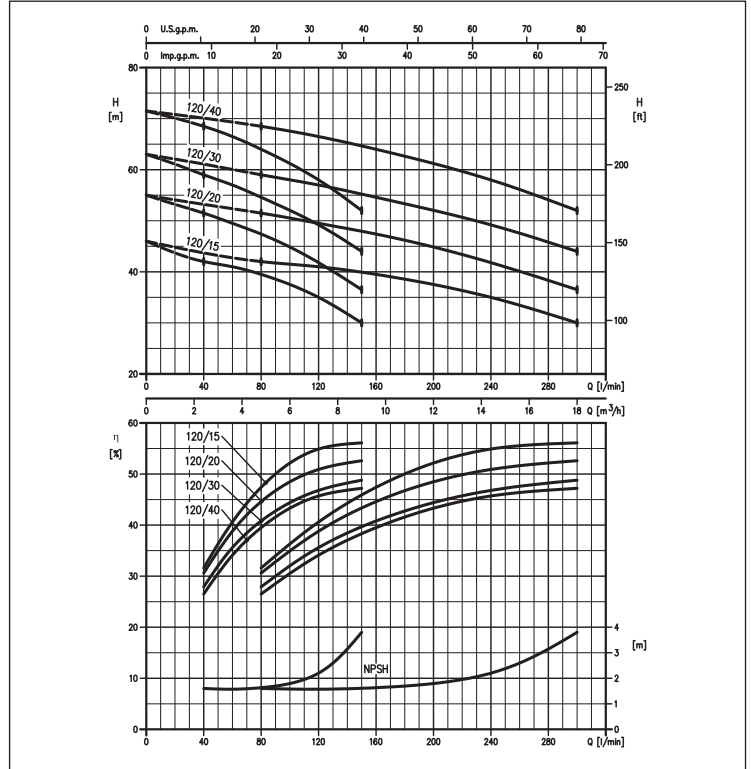
### 2GP 2CDX 70 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



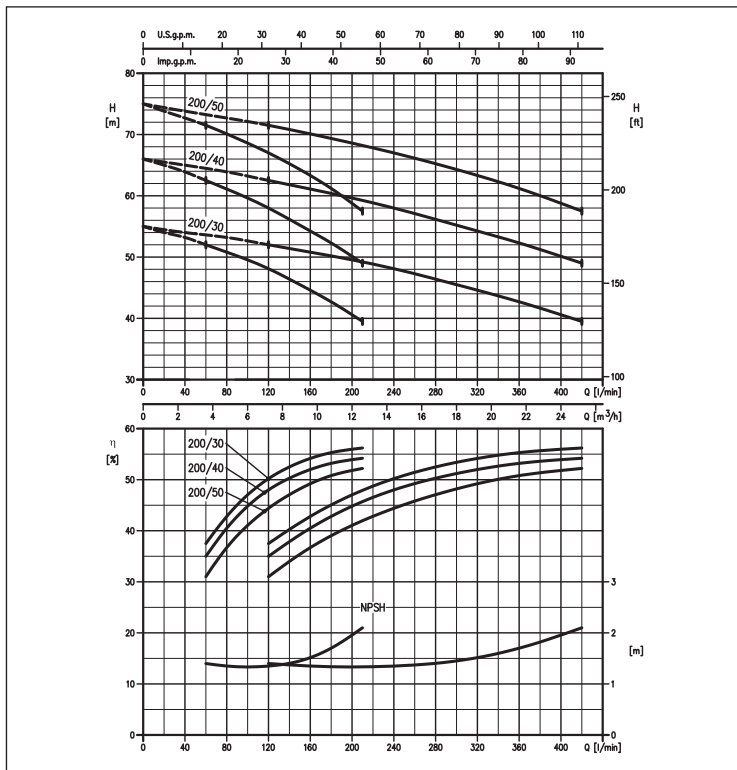
### 2GP 2CDX 120 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



### 2GP 2CDX 200 range PERFORMANCE CURVES

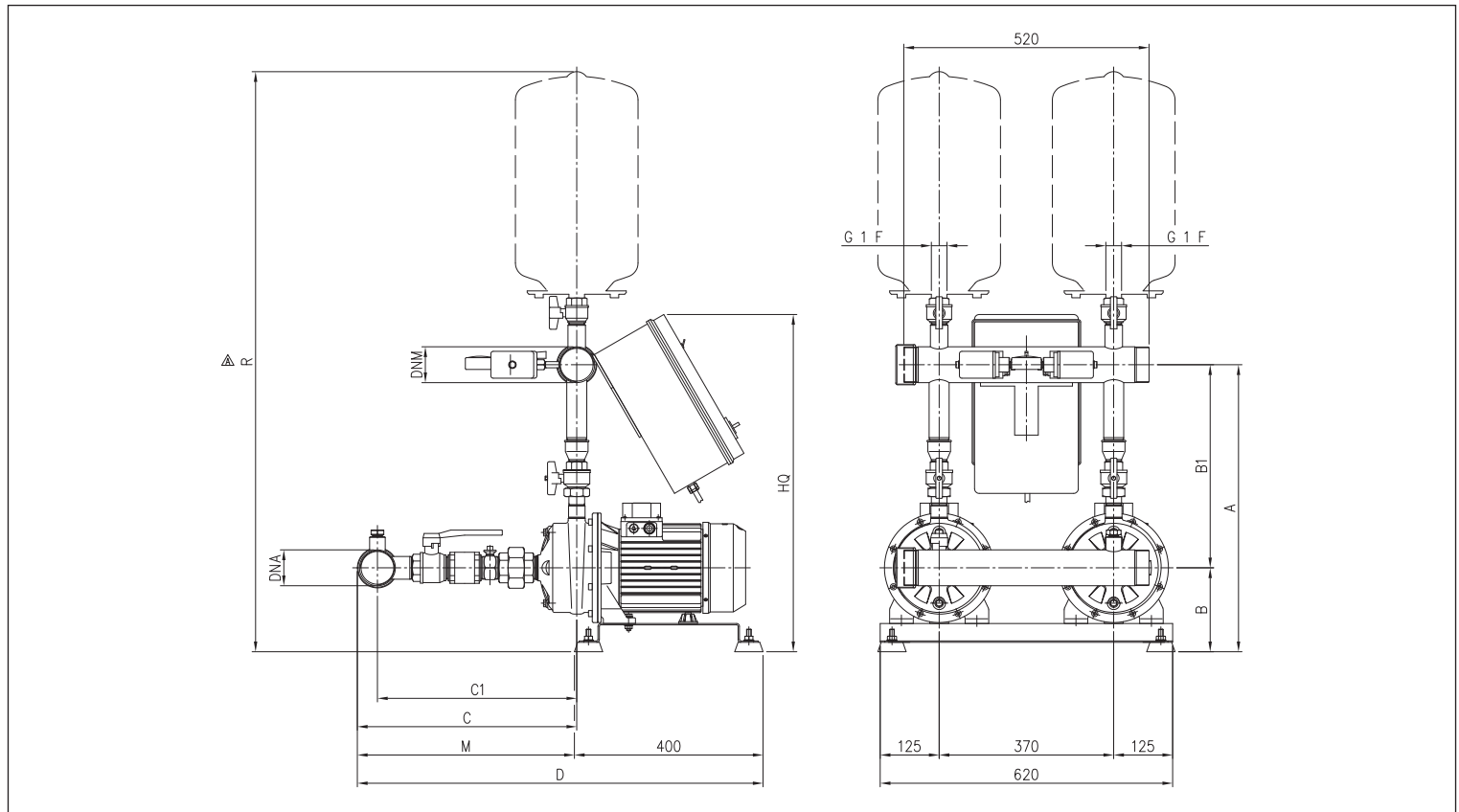
(according to ISO 9906 Attachment A)



### PERFORMANCE TABLE AND ELECTRIC DATA OF THE TWO PUMPS FUNCTIONING SIMULTANEOUSLY

Model	230V single phase	400V three-phase	[kW]	Max absorption [A]		Q=Flow rate												
				230V single phase	400V three-phase	l/min	40	80	120	160	200	240	300	360	420			
						m <sup>3</sup> /h	2,4	4,8	7,2	9,6	12	14,4	18	21,6	25,2			
							H=Head [m]											
2CDXM 70/10	2CDX 70/10	0,75 + 0,75	12	4,6	38,5	35,0	31,5	27,0	-	-	-	-	-	-	-	-		
2CDXM 70/12	2CDX 70/12	0,9 + 0,9	14	5,8	44,5	40,3	35,2	29,0	-	-	-	-	-	-	-	-		
2CDXM 70/15	2CDX 70/15	1,1 + 1,1	16,2	6,6	52,5	48,0	42,8	36,5	-	-	-	-	-	-	-	-		
2CDXM 70/20	2CDX 70/20	1,5 + 1,5	20	8	60,0	55,6	50,0	44,0	-	-	-	-	-	-	-	-		
2CDXM 120/15	2CDX 120/15	1,1 + 1,1	16,6	6,6	-	42,0	41,5	39,5	37,5	35,0	30,0	-	-	-	-	-		
2CDXM 120/20	2CDX 120/20	1,5 + 1,5	20,4	8	-	51,5	49,5	47,0	45	42,0	36,5	-	-	-	-	-		
-	2CDX 120/30	2,2 + 2,2	-	10	-	59,0	57,0	54,6	52	49,0	44,0	-	-	-	-	-		
-	2CDX 120/40	3 + 3	-	12,4	-	68,5	66,5	64,0	61	57,5	52,0	-	-	-	-	-		
-	2CDX 200/30	2,2 + 2,2	-	12	-	-	52,0	51,0	49,5	48,0	45,5	42,6	39,5	-	-	-		
-	2CDX 200/40	3 + 3	-	13,2	-	-	62,5	61,0	59,5	58,0	55,0	52,2	49,0	-	-	-		
-	2CDX 200/50	3,7 + 3,7	-	17,4	-	-	71,5	70,0	68,5	67,0	64,0	61,3	57,5	-	-	-		

### DIMENSIONS



### DIMENSIONS TABLE

Model	Dimensions [mm]											Weight [kg]
	A	B	B1	C	C1	D	DNA	DNM	HQ	M	R	
2GP 2CDX 70/10	525	165	360	420	385	800	G2	G1½	625	400	1130	53,0
2GP 2CDX 70/12	525	165	360	420	385	800	G2	G1½	625	400	1130	54,0
2GP 2CDX 70/15	550	180	370	420	385	800	G2	G1½	650	400	1155	60,0
2GP 2CDX 70/20	550	180	370	420	385	800	G2	G1½	650	400	1155	64,0
2GP 2CDX 120/15	535	165	370	485	445	880	G2½	G2	635	465	1145	60,0
2GP 2CDX 120/20	535	165	370	485	445	880	G2½	G2	635	465	1145	63,0
2GP 2CDX 120/30	555	180	375	485	445	880	G2½	G2	685	480	1165	76,0
2GP 2CDX 120/40	555	180	375	485	445	880	G2½	G2	685	480	1165	83,0
2GP 2CDX 200/30	585	165	420	465	425	860	G2½	G2½	690	460	1205	80,0
2GP 2CDX 200/40	610	180	430	465	425	860	G2½	G2½	715	460	1230	80,0
2GP 2CDX 200/50	610	180	430	465	425	860	G2½	G2½	715	460	1230	95,0



# EBARA

