



Fixed speed and variable speed booster sets with two self-priming pumps

DESCRIPTION

Pressurisation units with 2 self-priming horizontal axis pumps fitted on a single skid and connected in parallel by suction and delivery manifolds. These systems are specifically designed for domestic use as well as small civil or industrial applications. They can be equipped with EPIC inverters, which ensures that they can meet the constant pressure demands for modern systems. The key characteristics of these systems are their reliability, user-friendly operation, and low maintenance needs. To ensure proper operation of the booster set, pressure tanks of adequate capacity are required depending on constant or variable speed, pumps type, and applications.

FEATURES

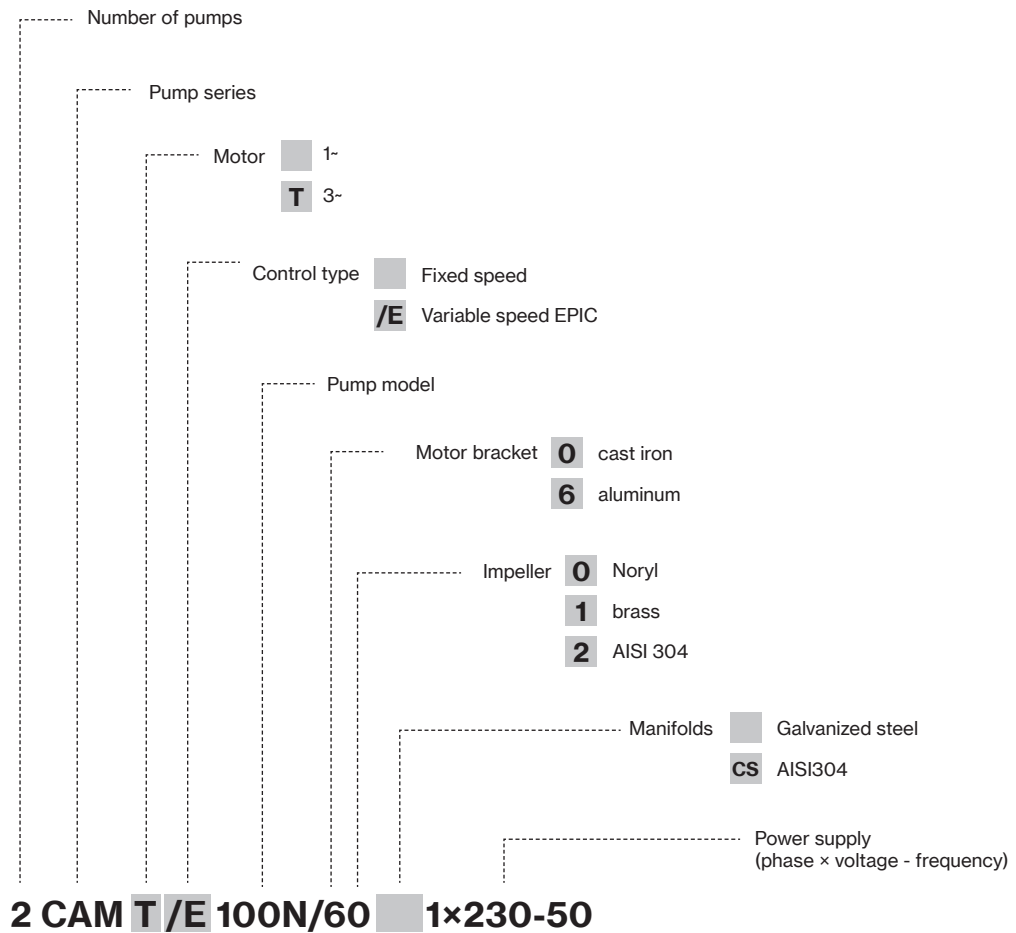
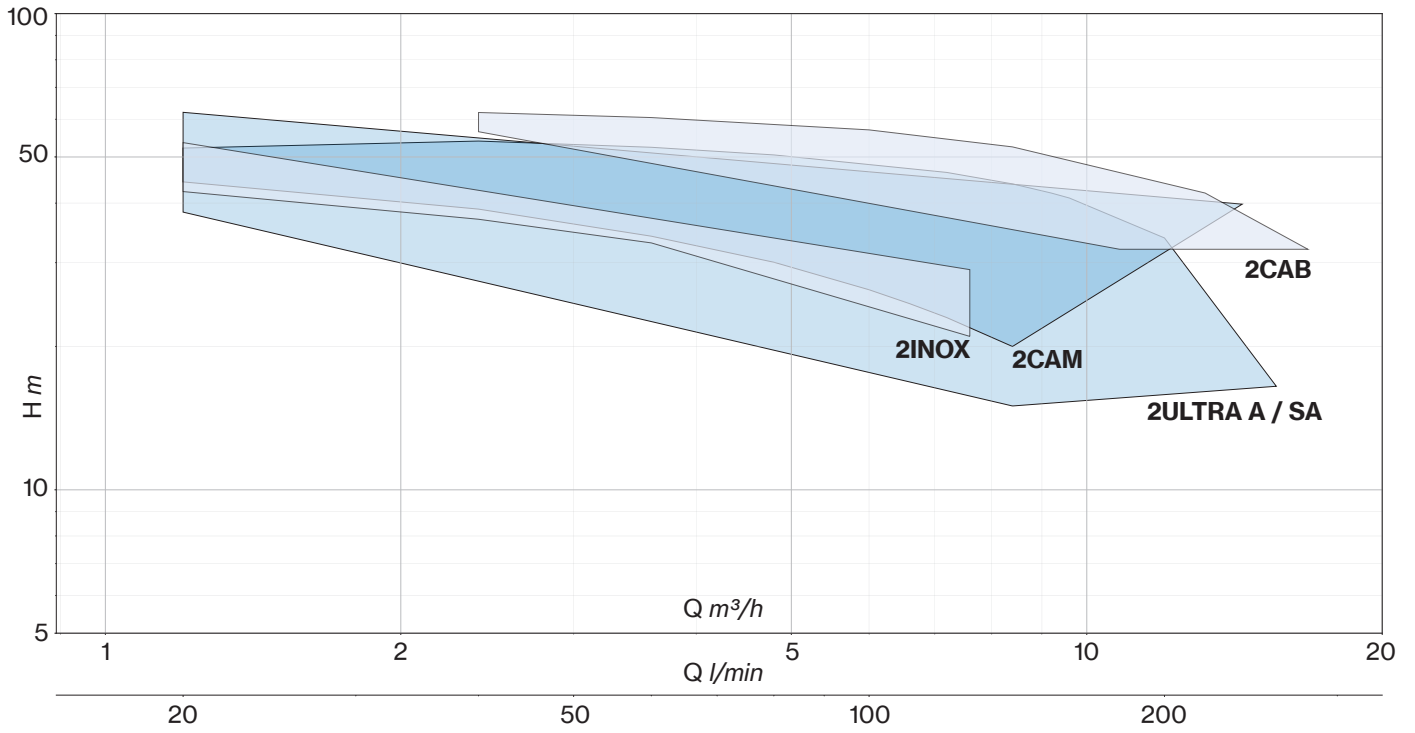
- Two self-priming horizontal axis pumps
- Cast iron pump body for CAM and CAB pumps series
- Stainless steel pump body for INOX, ULTRA A, ULTRA SA series
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- Electronic control panel EQ2SM(T) and two pressure switches for fixed speed version
- Inverter EPIC on each pump and two pressure sensors for the variable speed version
- Pressure tanks available on request, as accessory

FUNCTIONING

In the fixed speed version as soon as pressure drops below the minimum set value on the pressure switch the first pump starts automatically. If water demand further increases, the second pump will run until the pressure rises above the maximum set value. When demand ends, the last pump turns off. All the pumps follow cycling changeover for equal work distribution. In case of one pump failure, the other pumps would continue to operate.

In the variable speed version when the system pressure drops below the desired level, the sensors detect it giving an input to the inverter to start the first pump at controlled speed. If the flow rate is not sufficient, the pressure continues to drop causing the second pump to start. As soon as the flow demand decreases, the pressure rises again and the second pump stop. The first pump continues to modulate its speed in order to regulate and maintain the set pressure until it turns off when the flow demand ends. Based on working hours, the inverters will alternate the starting order of pumps to ensure better wear distribution. Continuity of operation is ensured in the event of one pump or one inverter failure.

SELF-PRIMING BOOSTER SETS



SELF-PRIMING BOOSTER SETS

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)												
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	7,2	8,4	9,2	9,6	12,0	14	15,6	
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	120	140	153,4	160	200	233	260	
l/min	bar				HP (x2)	kW (x2)	H (m)												
80	3	2U 3A-90/4	2U 3A-90/4T	2U 3A/E-90/4T	0,9	0,66	40,8	38,3	35,1	31,8	29,9	19,8	15,0						
		2U 3SA-90/4	2U 3SA-90/4T	2U 3SA/E-90/4T			43,0	41,0	38,3	35,0	31,3	22,3	17,2	13,5					
100		2U 3A-100/5	2U 3A-100/5T	2U 3A/E-100/5T	1	0,75	52,2	48,9	45,1	40,8	36,0	25,4	19,8	15,0					
		2U 3SA-100/5	2U 3SA-100/5T	2U 3SA/E-100/5T			54,0	52,1	48,8	44,9	40,2	29,0	22,0	16,8					
160		2U 5A-120/4	2U 5A-120/4T	2U 5A/E-120/4T	1,2	0,9	45,3	44,2	42,8	41,3	39,6	35,6	33,4	31,7	30,8	24,0	15,0		
		2U 5SA-120/4	2U 5SA-120/4T	2U 5SA/E-120/4T			44,5	43,3	42,1	41,0	40,0	36,4	34,3	32,8	32,0	26,2	18,5	13,5	
200	2U 5A-150/5	2U 5A-150/5T	2U 5A/E-150/5T	1,5	1,1	56,8	55,9	54,6	53,0	51,0	46,1	43,2	41,2	40,1	33,0	24,0	15,0		
	2U 5SA-150/5	2U 5SA-150/5T	2U 5SA/E-150/5T			56,0	52,2	54,0	52,4	50,5	46,4	43,9	42,0	41,0	33,8	23,8	16,5		

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)												
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6	12	14,4	
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	100	110	120	140	160	200	240	
l/min	bar				HP (x2)	kW (x2)	H (m)												
80	3	2CAM 100N	2CAMT 100N	2CAMT/E 100N	1	0,74	50,9	44,3	38,9	34,1	30,1	26,3	24,6	23,0	20,0				
100	3	2CAM 120	2CAMT 120	2CAMT/E 120	1,2	0,88	55,1	48,5	42,6	37,8	33,5	29,7	27,9	26,2	23,0				
120	3	2CAM 140	2CAMT 140	2CAMT/E 140	1,5	1,1	62,5	55,7	49,4	44,2	39,5	35,5	33,5	31,6	28,1				
140	3,5	2CAM 150	2CAMT 150	2CAMT/E 150	2	1,5	54,8	51,8	48,9	46,2	43,6	41,1	40,0	38,8	36,6	34,5	30,6	26,8	
160	4	2CAM 200	2CAMT 200	-	2,5	1,85	62,7	59,7	56,8	54,0	51,5	49,1	47,9	46,8	44,6	42,4	38,4	34,8	
180	4,5	2CAM 300	2CAMT 300	-	3	2,2	70,0	66,9	63,9	61,0	58,3	55,8	54,6	53,5	51,3	49,2	45,1	41,6	

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)							
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	6	7,2	7,6
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	100	120	126,6
l/min	bar				HP (x2)	kW (x2)	H (m)							
80	3	2INOX 100N	2INOXT 100N	2INOXT/E 100N	1	0,74	48,0	42,3	37,0	33,0	29,6	26,2	22,7	21,0
100		2INOX 120	2INOXT 120	2INOXT/E 120	1,2	0,88	53,4	47,4	41,9	37,5	33,7	29,9	26,0	24,3
120		2INOX 140	2INOXT 140	2INOXT/E 140	1,5	1,1	60,2	53,6	47,8	42,4	38,0	34,4	30,5	29,0

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)							
		FIXED SPEED		VARIABLE SPEED			0	2,4	3,6	6,0	8,4	10,8	13,2	15,6
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	40	60	100	140	180	220	260,0
l/min	bar				HP (x2)	kW (x2)	H (m)							
140	4	2CAB 150	2CABT 150	2CABT/E 150	1,5	1,1	61,5	57,2	54,7	48,5	40,9	30,8		
180		2CAB 200	2CABT 200	2CABT/E 200	2	1,5	62,8	60,0	58,5	54,7	50,1	44,5	38,7	
220		2CAB 300	2CABT 300	-	3	2,2	68,4	65,6	64,0	60,7	56,5	51,7	46,4	40,2

