



Fixed speed and variable speed booster sets with two threaded centrifugal pumps

DESCRIPTION

Pressurisation units with 2 horizontal centrifugal pumps fitted on a single skid and connected in parallel by suction and delivery manifolds. These systems are extremely silent and designed for water supply, pressurization, heating and air conditioning and liquid transfer. They can be equipped with EPIC and EPIC-A 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

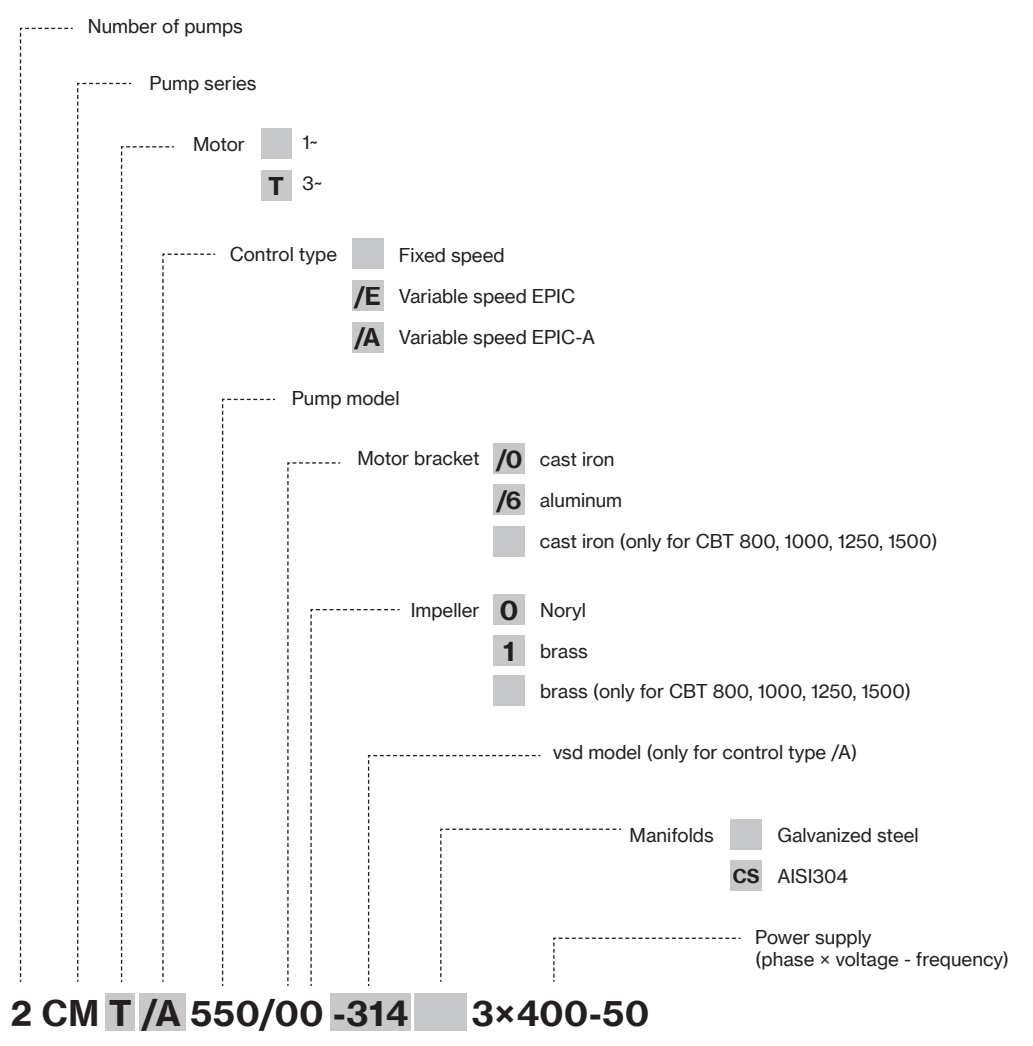
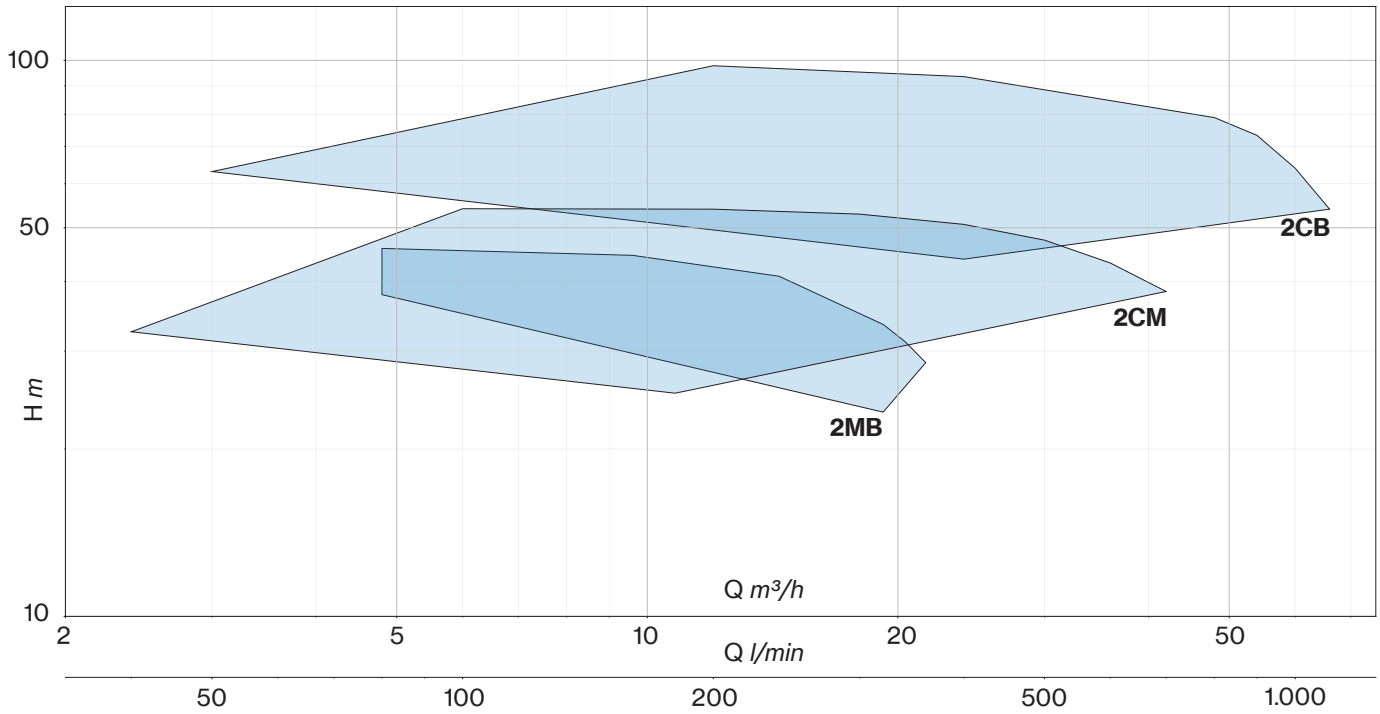
- Two horizontal axis pumps with single or double impeller
- Cast iron pump body
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- Electronic control panel EQ2SM(T) and two pressure switches for fixed speed version
- Inverter EPIC or EPIC-A 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.

THREADED CENTRIFUGAL BOOSTER SETS



THREADED CENTRIFUGAL BOOSTER SETS

TARGET (2 pumps)		MODEL				P2 NOMINAL		Q (m³/h - l/min)												
		FIXED SPEED		VARIABLE SPEED				0	2,4	4,8	7,2	9,6	10,8	13,2	14,4	15,6				
		1- 230V	3- 400V	EPIC	EPIC-A			0	40	80	120	160	180	220	240	260				
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)												
100	3	-	-	2CMT/E100	2CMT/A100-304	1	0,74	33,0	32,5	31,5	29,6	26,8	25,2							
150	3,5	2CM164	2CMT164	2CMT/E164	2CMT/A164-304	2	1,5	39,4	39,1	38,6	37,2	35,2	33,8	27,2						
200	4	2CM214	2CMT214	-	2CMT/A214-306	2,5	1,85	46,3	45,9	45,5	44,1	42,1	41,1	38,2	35,5					
	4,5	2CM314	2CMT314	-	2CMT/A314-306	3	2,2	53,2	52,7	52,1	50,8	48,8	47,6	45,0	42,9	39,2				

TARGET (2 pumps)		MODEL				P2 NOMINAL		Q (m³/h - l/min)														
		FIXED SPEED		VARIABLE SPEED				0	6	12	18	24	30	36	42							
		1- 230V	3- 400V	EPIC	EPIC-A			0	100	200	300	400	500	600	700							
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)														
400	4	-	2CMT400	-	2CMT/A400-309	4	3	45,1	45,2	44,9	43,4	40,9	37,4	32,5								
500	4,5	-	2CMT550	-	2CMT/A550-314	5,5	4	54,1	54,1	54,0	52,9	50,7	47,5	43,2	38,4							

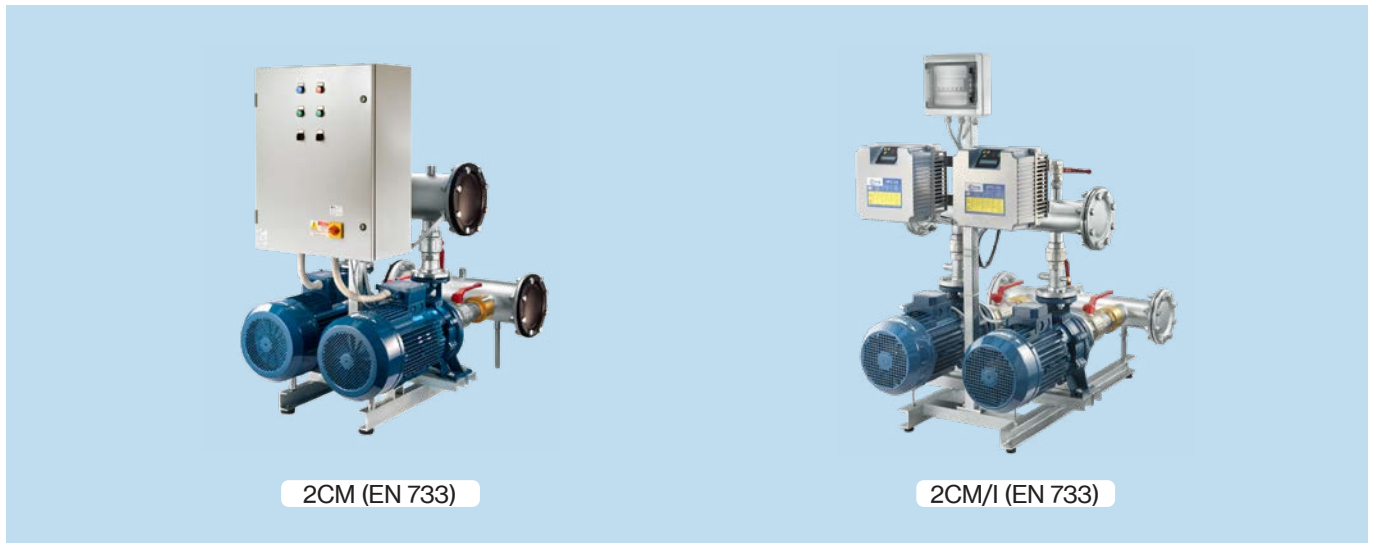
TARGET (2 pumps)		MODEL				P2 NOMINAL		Q (m³/h - l/min)													
		FIXED SPEED		VARIABLE SPEED				0	4,8	9,6	14,4	19,2	21,6	24,0							
		1- 230V	3- 400V	EPIC	EPIC-A			0	80	160	240	320	360	400							
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)													
160	3,5	2MB150	2MBT150	2MBT/E150	2MBT/A150-304	2	1,5	39,2	40,2	39,5	35,7	28,7	23,9	18,0							
240		2MB200	2MBT200	-	2MBT/A200-304	2,5	1,85	44,9	45,6	44,8	41,7	35,2	30,8	25,8							
300		2MB300	2MBT300	-	2MBT/A300-306	3	2,2	49,5	49,4	48,3	45,8	39,8	35,8	31,1							

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	9,6	12,0	14,4	16,8	18					
		1- 230V	3- 400V	EPIC	EPIC-A			0	20	40	60	80	120	160	200	240	280	300					
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)															
60	3,5	2CB100	2CBT100	2CBT/E100	2CBT/A100-304	1	0,74	42,0	40,8	39,4	37,4	34,7	29,2	21,0									
180	4	2CB160	2CBT160	2CBT/E160	2CBT/A160-306	2	1,5	48,3	47,7	47,1	46,5	45,7	43,5	40,1	36,2	31,1							
220	4	2CB210	2CBT210	-	2CBT/A210-306	2,5	1,85	54,9	54,4	53,8	53,0	52,3	50,5	47,1	43,1	38,3	32,4						
220	4,5	2CB310	2CBT310	-	2CBT/A310-306	3	2,2	61,4	60,9	60,3	59,8	59,2	57,1	53,6	49,3	44,2	38,3	35,2					

TARGET (2 pumps)		MODEL				P2 NOMINAL		Q (m³/h - l/min)																
		FIXED SPEED		VARIABLE SPEED				0	3	6	9	12	15	18	21	24	27	30	33					
		1- 230V	3- 400V	EPIC	EPIC-A			0	50	100	150	200	250	300	350	400	450	500	550					
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)																
250	5,5	-	2CBT400	-	2CBT/A400-309	4	3	63,6	63,1	62,0	60,3	58,2	55,5	52,3	48,4	43,9								
300	6,5	-	2CBT600	-	2CBT/A600-314	5,5	4	76,9	76,4	75,4	73,8	71,7	69,0	65,9	62,1	58,0	53,4							
350	7,5	-	2CBT751	-	2CBT/A751-314	7,5	5,5	90,7	90,0	88,9	87,3	85,3	82,9	80,1	76,8	73,1	68,8	63,7						
350	8	-	2CBT900	-	2CBT/A900-318	10	7,5	97,5	96,6	95,4	93,7	91,7	89,2	86,5	83,3	79,8	75,2	71,2	66,4					

TARGET (2 pumps)		MODEL				P2 NOMINAL		Q (m³/h - l/min)															
		FIXED SPEED		VARIABLE SPEED				0	12	24	36	48	54	60	66								
		1- 230V	3- 400V	EPIC	EPIC-A			0	200	400	600	800	900	1000	1100								
l/min	bar			1- 230V-in 3- 230V-out	3- 400V-in 3- 400V-out	HP (x2)	kW (x2)	H (m)															
600	5	-	2CBT800	-	2CBT/A800-314	7,5	5,5	70,0	68,5	63,9	57,1	45,3	38,2										
800	5,5	-	2CBT1000	-	2CBT/A1000-318	10	7,5	80,7	80,4	75,0	68,5	59,7	52,6	43,7									
900	6	-	2CBT1250	-	2CBT/A1250-318	12,5	9,2	89,5	88,8	84,1	77,7	69,7	63,0	54,2	45,1								
900	7	-	2CBT1500	-	2CBT/A1500-325	15	11	98,3	97,8	93,5	85,7	78,9	73,3	64,0	54,0								





2CM (EN 733)

2CM/I (EN 733)

Fixed speed and variable speed booster sets with two monobloc centrifugal flanged pumps

DESCRIPTION

Booster units with 2 monobloc horizontal centrifugal pumps of CM (EN 733) series, set on a single skid and connected in parallel by suction and delivery manifolds. These systems are widely used in water supplies, pressurization and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications. To ensure a constant pressure to the system these booster sets can be equipped with EPIC-A or IPFC inverters.

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

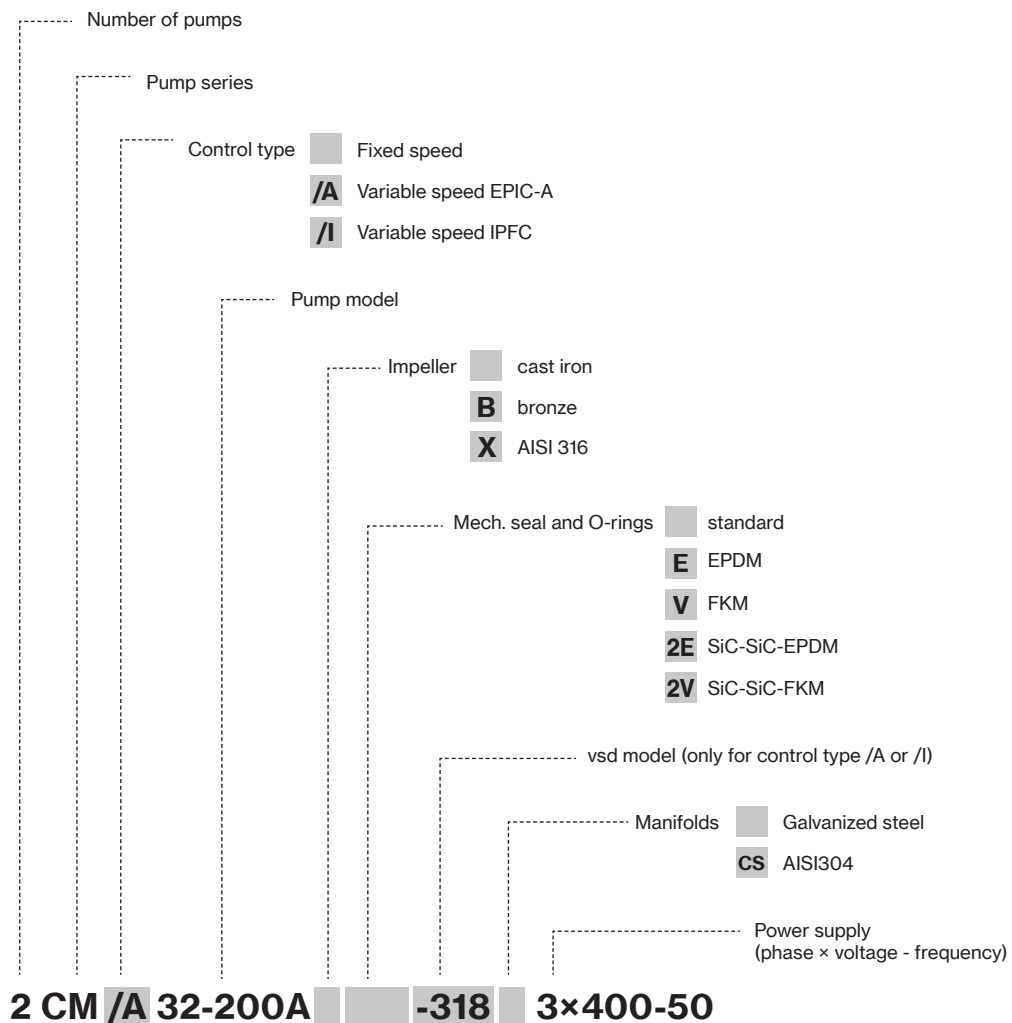
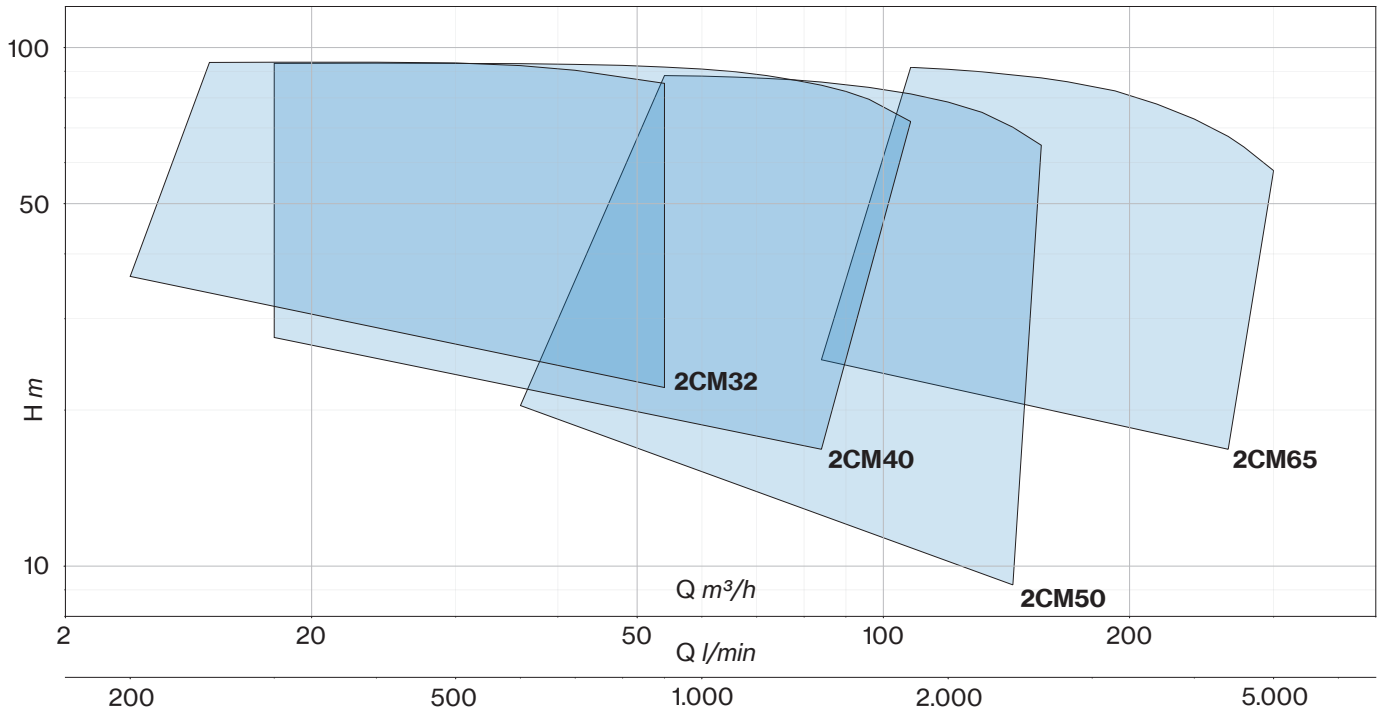
- Two monobloc horizontal centrifugal flanged pumps of CM (EN 733) series
- Cast iron pump body
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- EQ2SM(T) electronic or Q2ST electromechanical control panel with pressure switches for fixed speed version
- Inverter EPIC-A or IPFC, connected on each pump with pressure sensors, for 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.

CENTRIFUGAL FLANGED BOOSTER SETS



CENTRIFUGAL FLANGED BOOSTER SETS

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)												
		FIXED SPEED	VARIABLE SPEED				0	12	15	18	24	30	36	42	48	54	60	66	
		3-400V	EPIC-A	IPFC			0	200	250	300	400	500	600	700	800	900	1000	1100	
m³/h	bar		3-400V-in 3-400V-out		HP (x2)	kW (x2)	H (m)												
36	3	2CM32-160A	2CM/A32-160A-309	2CM/I 32-160A-309	4	3	36,1	36,2	36,0	35,6	34,6	33,2	31,4	28,9	25,7	22,1			
	3,5	2CM32-200C	2CM/A32-200C-314	2CM/I 32-200C-311	5,5	4	40,2	40,3	40,1	39,8	38,9	37,7	36,1	34,2	31,6	28,7			
42	4	2CM32-200B	2CM/A32-200B-314	2CM/I 32-200B-314	7,5	5,5	48,3	48,0	47,9	47,6	46,7	45,5	44,2	42,6	40,5	37,9	35,4		
	5	2CM32-200A	2CM/A32-200A-318	2CM/I 32-200A-318	10	7,5	57,9	58,3	58,4	58,4	58,0	57,1	55,6	53,8	51,4	49,2	46,6	44,3	
	6,5	2CM32-250C	2CM/A32-250C-318	2CM/I 32-250C-318	12,5	9,2	74,6		72,8	72,5	71,9	70,5	68,8	66,6	64,1	61,3			
	7,5	2CM32-250B	2CM/A32-250B-325	2CM/I 32-250B-325	15	11	84,8		84,0	83,9	83,6	82,7	81,1	78,6	75,4	73,2			
	8,5	2CM32-250A	2CM/A32-250A-330	2CM/I 32-250A-330	20	15	93,5		93,6	93,7	93,7	93,4	92,3	90,4	87,7	85,3			

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)													
		FIXED SPEED	VARIABLE SPEED				0	18	36	42	48	54	60	66	72	78	84	90	96	108
		3-400V	EPIC-A	IPFC			0	300	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
m³/h	bar		3-400V-in 3-400V-out		HP (x2)	kW (x2)	H (m)													
54	2	2CM40-125A	2CM/A40-125A-309	2CM/I 40-125A-309	4	3	26,8	27,6	27,2	26,5	25,7	24,6	23,4	22,0	20,3	18,5	16,8			
	3	2CM40-160A	2CM/A40-160A-314	2CM/I 40-160A-311	5,5	4	38,8	34,9	33,9	33,2	32,4	31,3	30,0	28,5	26,9	25,2	23,4			
	4	2CM40-200B	2CM/A40-200B-314	2CM/I 40-200B-314	7,5	5,5	44,6	45,5	44,5	43,5	42,3	41,0	39,3	37,2	34,9	32,3	29,4			
	5	2CM40-200A	2CM/A40-200A-318	2CM/I 40-200A-318	10	7,5	56,2	56,5	55,9	55,1	54,1	52,8	51,2	49,3	47,0	44,4	41,6			
66	5	2CM40-200AP	2CM/A40-200AP-318	2CM/I 40-200AP-318	12,5	9,2	61,7	61,4	60,0	59,1	57,9	56,4	54,7	53,1	51,1	48,5	45,5	42,2		
	6,5	2CM40-250B	2CM/A40-250B-325	2CM/I 40-250B-325	15	11	73,7	73,9	71,9	71,1	70,2	69,2	68,1	66,7	64,7	62,1				
72	7,5	2CM40-250A	2CM/A40-250A-330	2CM/I 40-250A-330	20	15	82,6	84,6	84,3	83,4	82,4	81,3	80,0	78,5	76,9	75,4	72,8	69,0		
84	8,5	2CM40-250BM	2CM/A40-250BM-338	2CM/I 40-250BM-338	25	18,5	92,6	93,2	93,1	92,8	92,4	91,7	90,9	89,8	88,3	86,5	84,6	82,3	79,5	72,0

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)														
		FIXED SPEED	VARIABLE SPEED				0	36	42	48	54	60	72	84	96	108	120	132	144	156	
		3-400V	EPIC-A	IPFC			0	600	700	800	900	1000	1200	1400	1600	1800	2000	2200	2400	2600	
m³/h	bar		3-400V-in 3-400V-out		HP (x2)	kW (x2)	H (m)														
96	1,5	2CM50-125B	2CM/A50-125B-309	2CM/I 50-125B-309	4	3	20,0	20,4	20,3	20,1	19,9	19,6	18,7	17,6	16,4	15,0	13,2	11,3	9,2		
	2	2CM50-125A	2CM/A50-125A-314	2CM/I 50-125A-311	5,5	4	23,7	24,2	24,1	23,9	23,7	23,3	22,6	21,7	20,7	19,6	18,2	16,4	14,2		
108	2,5	2CM50-160B	2CM/A50-160B-314	2CM/I 50-160B-314	7,5	5,5	32,1		33,5	33,4	33,1	32,7	31,6	30,2	28,3	26,2	23,9	21,5	18,9		
120	3	2CM50-160A	2CM/A50-160A-318	2CM/I 50-160A-318	10	7,5	38,1		39,8	39,8	39,8	39,6	38,8	37,7	36,1	34,1	32,1	29,9	27,6	25,4	
	3,5	2CM50-200C	2CM/A50-200C-325	2CM/I 50-200C-325	12,5	9,2	48,2		49,7	49,2	48,5	46,9	44,9	42,6	40,0	36,0	32,3	28,9			
	4	2CM50-200B	2CM/A50-200B-325	2CM/I 50-200B-325	15	11	53,1		54,6	54,1	53,5	52,2	50,4	48,1	45,5	42,7	38,8	35,0			
	5	2CM50-200A	2CM/A50-200A-330	2CM/I 50-200A-330	20	15	59,9		61,8	61,5	61,0	59,7	58,0	56,0	53,6	50,8	47,8	44,4	39,8		
	6,5	2CM50-250B	2CM/A50-250B-338	2CM/I 50-250B-338	25	18,5	78,8		78,4	78,0	77,0	75,1	72,9	70,3	66,9	62,9	58,5				
	7,5	2CM50-250A	2CM/A50-250A-344	2CM/I 50-250A-348	30	22	88,5				88,3	88,1	87,2	85,8	83,8	81,4	78,5	75,0	70,2	64,8	

TARGET (2 pumps)		MODEL			P2 NOMINAL		Q (m³/h - l/min)														
		FIXED SPEED	VARIABLE SPEED				0	84	90	108	132	156	168	192	216	240	264	276	288	300	
		3-400V	EPIC-A	IPFC			0	1400	1500	1800	2200	2600	2800	3200	3600	4000	4400	4600	4800	5000	
m³/h	bar		3-400V-in 3-400V-out		HP (x2)	kW (x2)	H (m)														
192	2	2CM65-125A	2CM/A65-125A-318	2CM/I 65-125A-318	10	7,5	24,6	25,0	24,9	24,7	24,2	23,5	23,0	22,0	20,6	18,8	16,8				
	2,5	2CM65-160C	2CM/A65-160C-318	2CM/I 65-160C-318	12,5	9,2	28,9	30,6	30,5	30,0	29,1	27,9	27,2	25,3	22,9	20,2	17,5	16,0	13,9		
	3	2CM65-160B	2CM/A65-160B-325	2CM/I 65-160B-325	15	11	33,2	35,1	35,0	34,6	33,8	32,8	32,1	30,4	28,2	25,5	22,5	21,4	20,4		
	3,5	2CM65-160A	2CM/A65-160A-338	2CM/I 65-160A-338	20	15	40,1	42,5	42,5	42,3	41,8	41,0	40,4	38,9	37,1	35,3	32,8	31,7	30,9		
240	3	2CM65-200C	2CM/A65-200C-338	2CM/I 65-200C-338	20	15	44,4		46,1	44,7	43,2	42,4	40,3	37,5	33,7	28,9	26,8				
	4	2CM65-200B	2CM/A65-200B-338	2CM/I 65-200B-338	25	18,5	51,7		53,9	52,7	51,3	50,4	48,6	45,9	43,0	39,4	37,1	34,6			
	5	2CM65-200A	2CM/A65-200A-344	2CM/I 65-200A-348	30	22	60,3		61,8	61,0	59,8	59,1	57,1	54,6	51,6	48,3	46,5	44,4			
	6	2CM65-250B	-	2CM/I 65-250B-365	40	30	80,6		80,6	78,4	75,7	74,1	70,4	66,1	61,0	54,7	51,0	47,3			
	7	2CM65-250A	-	2CM/I 65-250A-375	50	37	91,6		91,6	89,8	87,4	85,9	82,5	77,8	72,8	67,4	64,3	60,8	57,9		

