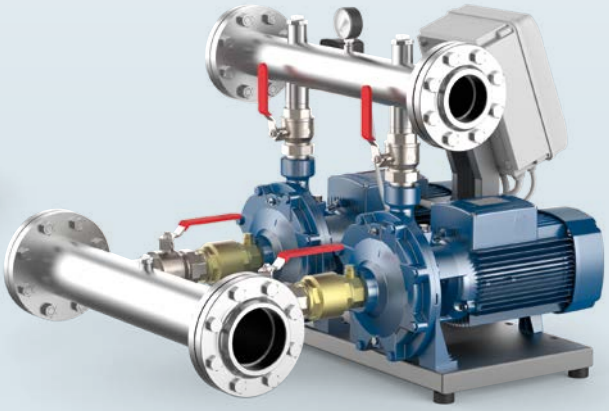
COMBIPRESS "CB2"

Pressure boosting sets

Domestic use
Agricultural use
Civil use
Industrial use

CB2 - MK

CB2 - 2CP



CB2 - 2CP

OPERATING PRINCIPLE

COMBIPRESS are pressure boosting sets consisting of two pumps assembled in a ready to be mounted unit.
The sets are arranged so that, at each increase in demand by the users, one or both pumps in succession start automatically. The operation of the number of pumps necessary to satisfy the demand for water results in a marked reduction in power consumption.
The electronic circuit in the control box alternates the operation of the pumps.

USES

- Clean water and chemically non-aggressive liquids.
- Water supply: pressure boosting in industrial applications, blocks of flats, hotels, communities, water treatment plants, campsites, schools, hospitals, barracks, etc.
- Irrigation: playing fields in general (football, golf, etc), agriculture, artificial snow systems.

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

EAC

CONSTRUCTION CHARACTERISTICS

- **PUMPS** complete with intake and exhaust manifolds, spherical
- valves and non-return valves.
- **BLOCK** constructed from a metal section.
- **COMPONENTS** of command and control installed on the exhaust manifold and consisting of a pressure gauge and two pressure switches which can be set by the user (the factory setting is regulated based on the average use of the set).
- **CONTROL BOX** fitted with a gate block switch, a low voltage pressure switch control circuit, an electronic circuit to alternate the operation of the pumps, an amperometric protection (overload cut-out) and an anti-rebound system at the start of the pumps (to avoid continuous false starts in the case of short and limited requests by the user).

CB2m:	single-phase 230 V - 50 Hz.
CB2:	three-phase 230/400 V - 50 Hz up to 4 kW. 400/690 V - 50 Hz from 5.5 to 7.5 kW.

PERFORMANCE DATA

50 Hz **n= 2900 min^{-1}** HS= 0 m

MODEL	1~	3~	POWER (P2) kW	HP	▲	Q* m³/h	0	1.2	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6
						l/min	**0**	**20**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**
CB2 - MK 3/3	●	●	2 x 0.75	2x1			52	50	49	45	38	28					
CB2 - MK 3/4	●	●	2x1.1	2x1.5	**IE3**		69.5	67	65.5	60	50.5	38					
CB2 - MK 3/5	●	●	2x1.1	2x1.5			87	83	82	75	63.5	47					
CB2 - MK 3/6	●	●	2x1.5	2x2			104	100	98	90	76	56					
CB2 - MK 5/4	●	●	2x1.1	2x1.5			56	–	55	52.5	48	41.5	32	20			
CB2 - MK 5/5	●	●	2x1.1	2x1.5			70	–	69	66	60	51.5	40	25			
CB2 - MK 5/6	●	●	2x1.5	2x2	**IE3**	**H** metres	84	–	83	79	72	62	48	30			
CB2 - MK 5/7		●	2x1.8	2x2.5			98	–	96	92.5	84	72.5	56	34			
CB2 - MK 5/8		●	2x2.2	2x3			112	–	110	105.5	96	82.5	64	40			
CB2 - MK 8/4	●	●	2x1.5	2x2			56	–	–	54	52	50	46	39	31.5	24	15
CB2 - MK 8/5		●	2x1.8	2x2.5	**IE3**		70	–	–	67.5	66	63	58	50	40	30	18
CB2 - MK 8/6		●	2x2.2	2x3			86	–	–	82	78	74	68	58	46.5	35	20

MODEL	1~	3~	POWER (P2) kW	HP	▲	Q* m³/h	0	0.6	1.2	2.4	3.6	4.8	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6
						l/min	**0**	**10**	**20**	**40**	**60**	**80**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**260**
CB2 - 4CP 100	●		2 x 0.75	2x1	**IE3**	**H** metres	50	50	49	47	45	42	37	34	30.5	26.5	22	17	11	5

MODEL	1~	3~	POWER (P2) kW	HP	▲	Q* m³/h	0	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6
						l/min	**0**	**10**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**260**
CB2 - 3CRm80	●		2x0.45	2x0.60	IE2		40	38	37	34.5	31	27	22.5	17	11	5					
CB2 - 4CRm80	●		2x0.55	2x0.75			52	50	49	44.5	40	34	28.5	22.5	16	10					
CB2 - 5CRm80	●		2x0.75	2x1		**H** metres	67	66	64	59	53	45.5	37.5	29.5	20.5	12					
CB2 - 4CRm100	●		2x0.75	2x1	**IE3**		50	50	49	47	45	42	39.5	37	34	30.5	26.5	22	17	11	5
CB2 - 5CRm100	●		2x1.1	2x1.5			63	62	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

MODEL	1~	3~	POWER (P2) kW	HP	▲	Q* m³/h	0	2.4	4.8	7.2	9.6	12.0	13.2	14.4	16.8	19.2	21.6	24.0	30.0	36.0	42.0	48.0
						l/min	**0**	**40**	**80**	**120**	**160**	**200**	**220**	**240**	**280**	**320**	**360**	**400**	**500**	**600**	**700**	**800**
CB2 - 2CP 25/130	●	●	2x0.75	2x1			42	39	34	28.5	22	15										
CB2 - 2CP 25/14B	●	●	2x1.1	2x1.5			54	52	47.5	41	33	22										
CB2 - 2CP 25/16C	●	●	2x1.1	2x1.5	**IE3**		47	46	44	40	35	30	27	24								
CB2 - 2CP 25/16B	●	●	2x1.5	2x2			58	56	54	51	47	43	40	37	30							
CB2 - 2CP 25/16A		●	2x2.2	2x3			68	67	64.5	62	58	54	51	48	41	32						
CB2 - 2CP 32/200C		●	2x3	2x4			70	–	66.5	65	63	60.5	59	58	55	52	49.5	46.5	36			
CB2 - 2CP 32/200B		●	2x4	2x5.5		**H** metres	85	–	81	79	77	75	74	72	69	66	62	58	49			
CB2 - 2CP 32/210B		●	2x5.5	2x7.5	**IE3**		94	–	94	93	91	89	87	86	83	79	75	70	56			
CB2 - 2CP 32/210A		●	2x7.5	2x10			112	–	111	110.5	110	108	107	106	102	99	94	89	74			
CB2 - 2CP 40/180C		●	2x4	2x5.5			64	–	–	–	–	62	61.3	60.5	59	57.5	56	54.5	49	43	35	
CB2 - 2CP 40/180B		●	2x5.5	2x7.5	**IE3**		76	–	–	–	–	73	72.5	72	71	70	69	67.5	64	59.5	54	46
CB2 - 2CP 40/180A		●	2x7.5	2x10			88	–	–	–	–	85	84.5	84	83	82	81	79.5	76	72	67	60

Q = Flow rate **H** = Total manometric head **HS** = Suction height

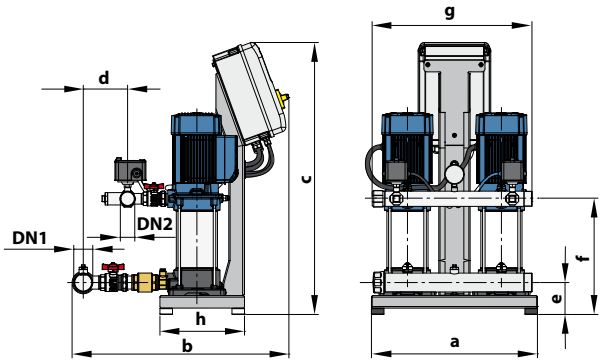
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

*** Maximum flow rate of the pressure boosting set with both pumps running**

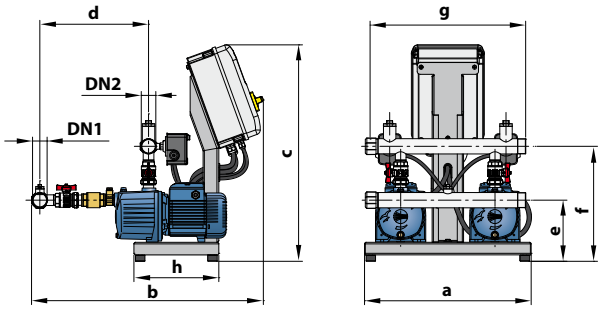
▲ Three-phase motor efficiency class (IEC 60034-30-1)

COMBIPRESS "CB2"

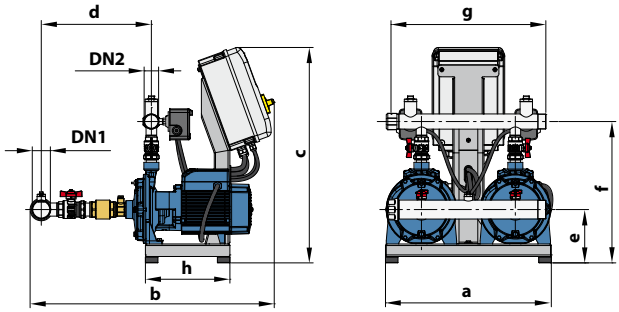
DIMENSIONS AND WEIGHT



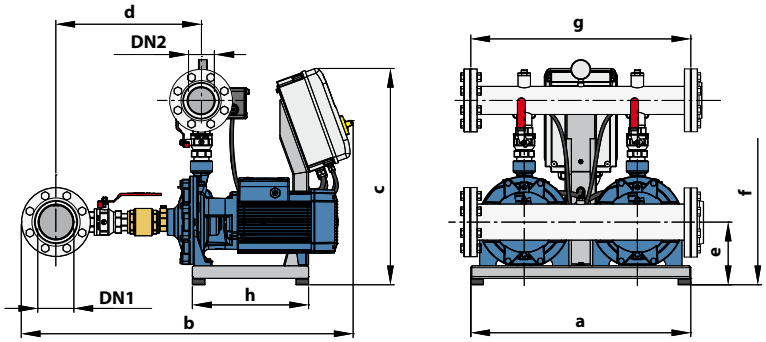
CB2 - MK



CB2 - 4CP • CB2 - 3-5CR



CB2 - 2CP 25/ • CB2 - 2CP 32/



CB2 - 2CP 40/

MODEL		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	**DN1**	**DN2**	a	b	c	d	e	f	g	h	1~	3~
CB2 - MKm 3/3	CB2 - MK 3/3								251			**58.0**	**59.0**
CB2 - MKm 3/4	CB2 - MK 3/4								275			**59.0**	**59.0**
CB2 - MKm 3/5	CB2 - MK 3/5								299			**60.0**	**60.0**
CB2 - MKm 3/6	CB2 - MK 3/6								323			**66.0**	**64.0**
CB2 - MKm 5/4	CB2 - MK 5/4	**2"**	**1½"**	530	695	868	140	102	275	500	270	**59.0**	**59.0**
CB2 - MKm 5/5	CB2 - MK 5/5								299			**59.0**	**60.0**
CB2 - MKm 5/6	CB2 - MK 5/6								323			**65.0**	**63.0**
–	CB2 - MK 5/7								347			–	**66.0**
–	CB2 - MK 5/8								368			–	**67.0**
CB2 - MKm 8/4	CB2 - MK 8/4								261			**67.0**	**65.0**
–	CB2 - MK 8/5	**2½"**	**1½"**	530	742	868	178	102	288	500	270	–	**68.0**
–	CB2 - MK 8/6								309			–	**68.0**
CB2 - 4CPm100	–	**1½"**	**1½"**	530	737	688	346	194	366	500	270	**52.0**	–
CB2 - 3CRm80	–				764		349					**39.8**	–
CB2 - 4CRm80	–	**1½"**	**1½"**									**41.8**	–
CB2 - 5CRm80	–			530	789	689	374	192	372	500	270	**46.6**	–
CB2 - 4CRm100	–	**2"**	**2"**		837		412					**52.9**	–
CB2 - 5CRm100	–											**53.7**	–
CB2 - 2CPm 25/130	CB2 - 2CP 25/130	**1½"**	**1½"**	530	746	688	343	152	394	500	270	**52.5**	**51.0**
CB2 - 2CPm 25/14B	CB2 - 2CP 25/14B				771			153	417			**70.5**	**70.0**
CB2 - 2CPm 25/16C	CB2 - 2CP 25/16C	**2"**	**1½"**	530		688	352			500	270	**70.5**	**70.0**
CB2 - 2CPm 25/16B	CB2 - 2CP 25/16B				780			170	452			**79.5**	**79.0**
–	CB2 - 2CP 25/16A											–	**82.0**
–	CB2 - 2CP 32/200C				982		450	192	535			–	**112.0**
–	CB2 - 2CP 32/200B	**3"**	**2"**	700		688				700	370	–	**118.0**
–	CB2 - 2CP 32/210B				987		454	199	565			–	**149.0**
–	CB2 - 2CP 32/210A											–	**156.0**
–	CB2 - 2CP 40/180C	**4"**	**3"**									–	**168.0**
–	CB2 - 2CP 40/180B			700	1056	688	463	199	587	700	370	–	**178.0**
–	CB2 - 2CP 40/180A	DN **100**	DN **80**									–	**188.0**