

CKE2 MULTI VS Variable speed pressurization



Twin pumps booster sets

Applications

ESPA **CKE** inverter booster sets are designed to provide an efficient solution to water boosting applications where existing supplies are unreliable or insufficient to meet the demands of the building or application. ESPA variable speed booster sets embrace the best in modern control techniques, whilst holding true to the traditional principles of quality engineering. Due to the compact design ESPA booster sets offer a small footprint in relation to performance. Installation is straightforward, with site work usually limited to connecting site pipework and the provision of a suitable electrical supply.

Operation principle

Fully automatic variable speed operation twin pump booster set. Complete unit controlled by **ESPA ESD** Speedrive (Variable Frequency Driver) for water supply at constant pressure. Two pumps booster set in duty –assist or duty stand-by configuration. All pumps in variable speed operation. The booster set adapts the speed of the motors to the water demand in order to ensure the pressure requested at any flow demand.

The pressure of the installation is controlled at any time by a pressure transducer placed on the discharge manifold and the information provided by this instrument allows the ESPA Speedrive to regulate the pump speed operation to the flow demand; and consequently saves energy adapting the power consumption to the water demand at any time.

Features

- Stainless steel suction and discharge manifolds AISI 304.
- Stain chassis finished in black epoxy coating.
- WRAS approved nickel plated brass ball valves on each pump providing individual isolation if necessary.
- WRAS check valves on each pump.
- Anti-vibration mounts as standard.
- 8- 12- 24 lt. expansion vessel (WRAS approved) depending on the pumps size.
- Control panel with MCB's.
- FVC (Free volt contacts) for the external control of the alarms.
- Full documentation provided with each booster set.

ESPA ESD advantages

An innovative system that can be used with a variation of pump types including multistage vertical or horizontal pumps. Saves energy up to 50% silent running compact and can extend the life cycle of the pump.

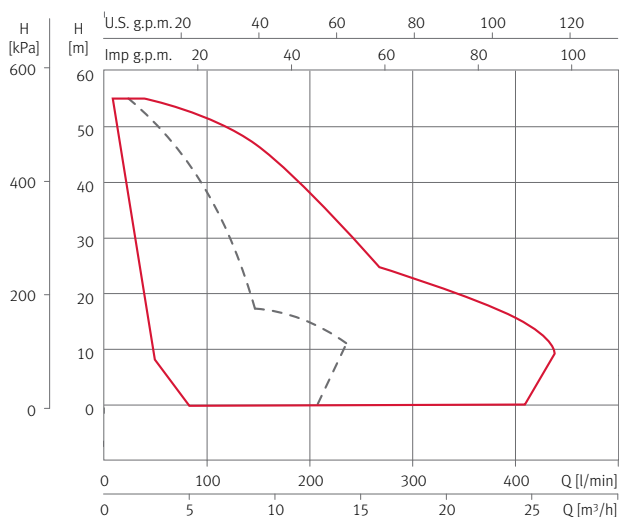
LENNTECH
WATER TREATMENT SOLUTIONS



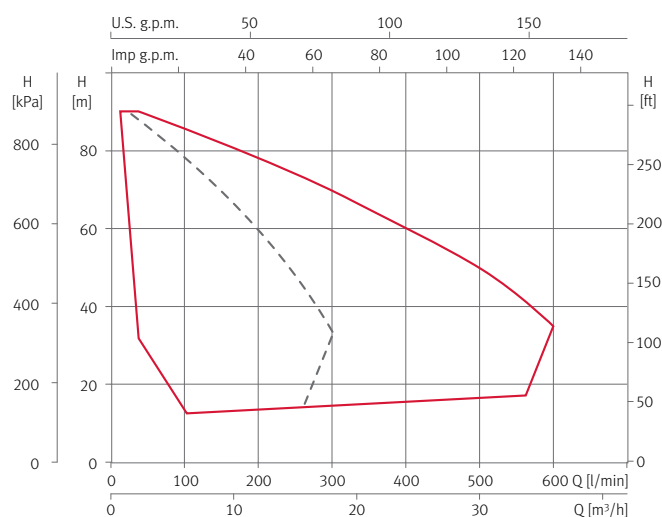
The ESPA Engineering Application Service is ready to design and manufacture customised solutions for any required application, modifying the standard range increasing the flow, the head or changing operation mode.

ADVANCED SOLUTIONS IN
AUTOMATIC BOOSTER SETS

Hydraulic performance area CKE1M



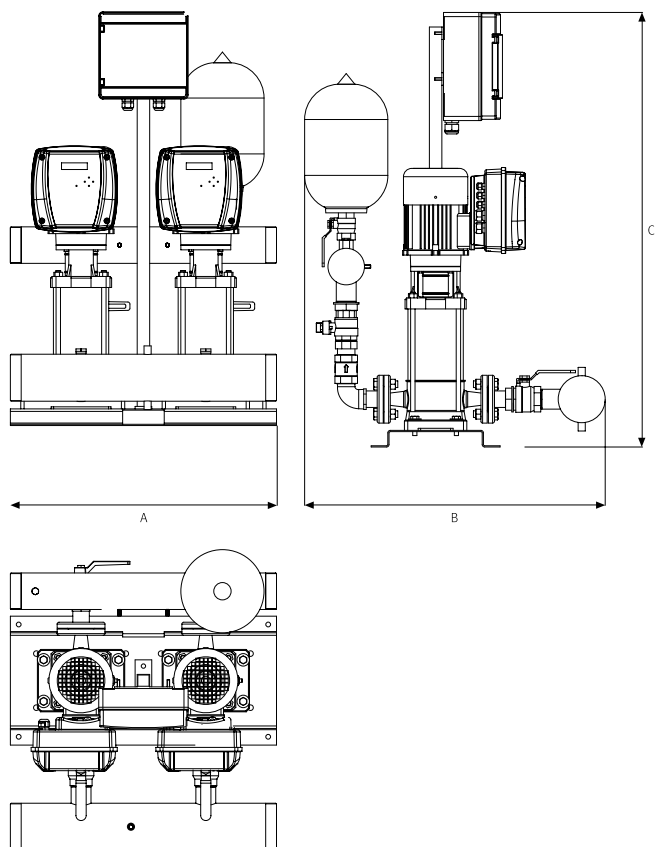
Hydraulic performance area CKE1



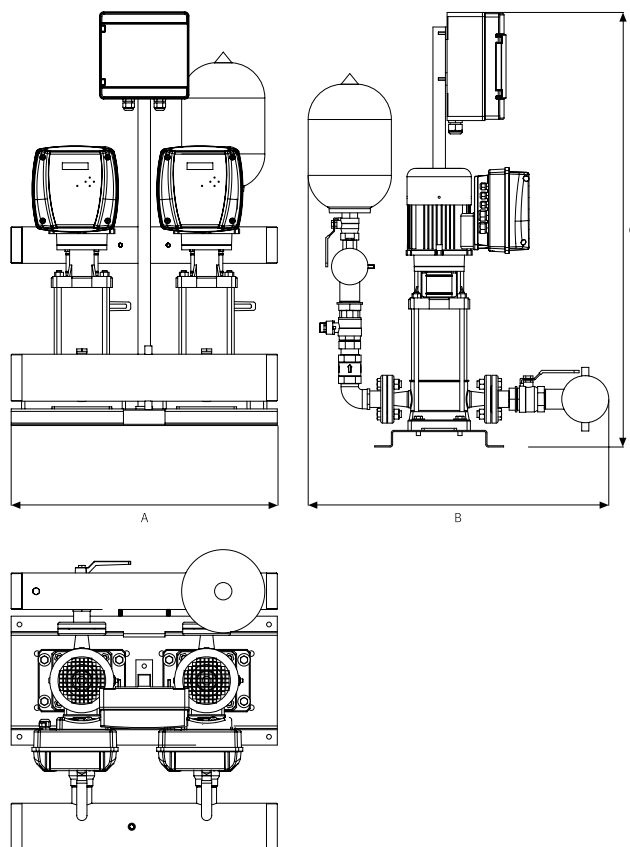
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CKE2M MULTI VS



CKE2 MULTI VS



Technical features, dimensions and weights

Single pump sets Single-phase	Pump model	Units	P2 [kW]	Inverter	Units	Pump		Ø Valves		Ø Manifold		Dimensions			Weight	Code
						Suc.	disch.	Suct.	Disch.	Suc.	Disch.	A	B	C		
CKE2M Multi VS4 05F07 UKASP	Multi VS4 05F07	2	0.75	M2	2	25	25	1"	1"	2"	2"	620	800	1188	101	191841
CKE2M Multi VS4 07F11 UKASP	Multi VS4 07F11	2	1.1	M2	2	25	25	1"	1"	2"	2"	620	800	1188	117	191842
CKE2M Multi VS4 10F15 UKASP	Multi VS4 10F15	2	1.5	M2	2	25	25	1"	1"	2"	2"	620	800	1188	129	191843
CKE2M Multi VS4 14F22 UKASP	Multi VS4 14F22	2	2.2	M3	2	25	25	1"	1"	2"	2"	620	800	1188	135	191844
CKE2M Multi VS6 03F07 UKASP	Multi VS6 03F07	2	0.75	M2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	71	191850
CKE2M Multi VS6 05F11 UKASP	Multi VS6 05F11	2	1.1	M2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	74	191851
CKE2M Multi VS6 07F15 UKASP	Multi VS6 07F15	2	1.2	M2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	87	191852
CKE2M Multi VS6 10F22 UKASP	Multi VS6 10F22	2	2.2	M3	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	94	191853
CKE2M Multi VS10 03F11 UKASP	Multi VS10 03F11	2	1.1	M2	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	90	191860
CKE2M Multi VS10 04F15 UKASP	Multi VS10 04F15	2	1.5	M2	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	104	191861
CKE2M Multi VS10 06F22 UKASP	Multi VS10 06F22	2	2.2	M3	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	113	191862

CKE2 MULTI VS Variable speed pressurization



Technical features, dimensions and weights

Single pump sets Single-phase	Pump model	Units	P2 [kW]	Inverter	Units	Pump		Ø Valves		Ø Manifold		Dimensions			Weight	Code
						Suc.	disch.	Suct.	Disch.	Suc.	Disch.	A	B	C		
CKE2 Multi VS4 05F07 UKASP	Multi VS4 05F07	2	0.75	T2	2	25	25	1"	1"	2"	2"	620	800	1188	69	191870
CKE2 Multi VS4 07F11 UKASP	Multi VS4 07F11	2	1.1	T2	2	25	25	1"	1"	2"	2"	620	800	1188	85	191871
CKE2 Multi VS4 10F15 UKASP	Multi VS4 10F15	2	1.5	T2	2	25	25	1"	1"	2"	2"	620	800	1188	87	191872
CKE2 Multi VS4 14F22 UKASP	Multi VS4 14F22	2	2.2	T2	2	25	25	1"	1"	2"	2"	620	800	1188	94	191873
CKE2 Multi VS4 20F30 UKASP	Multi VS4 02F03	2	3	T3	2	25	25	1"	1"	2"	2"	620	800	1188	122	191874
CKE2 Multi VS6 03F07 UKASP	Multi VS6 03F07	2	0.75	T2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	71	191880
CKE2 Multi VS6 05F11 UKASP	Multi VS6 05F11	2	1.1	T2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	74	191881
CKE2 Multi VS6 07F15 UKASP	Multi VS6 07F15	2	1.5	T2	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	87	191882
CKE2 Multi VS6 10F22 UKASP	Multi VS6 10F22	2	2.2	T3	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	94	191883
CKE2 Multi VS6 14F30 UKASP	Multi VS6 14F30	2	3	T3	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	122	191884
CKE2 Multi VS6 18F40 UKASP	Multi VS6 18F40	2	4	T4	2	32	32	1 1/4"	1 1/4"	2"	2"	620	800	1188	143	191885
CKE2 Multi VS10 03F11 UKASP	Multi VS10 03F11	2	1.1	T2	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	90	191890
CKE2 Multi VS10 04F15 UKASP	Multi VS10 04F15	2	1.5	T2	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	104	191891
CKE2 Multi VS10 06F22 UKASP	Multi VS10 06F22	2	2.2	T3	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	113	191892
CKE2 Multi VS10 08F30 UKASP	Multi VS10 08F30	2	3	T3	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	136	191893
CKE2 Multi VS10 09F40 UKASP	Multi VS10 09F40	2	4	T4	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	150	191894
CKE2 Multi VS10 11F40 UKASP	Multi VS10 11F40	2	4	T4	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	154	191895
CKE2 Multi VS10 15F55 UKASP	Multi VS10 15F55	2	5.5	T4	2	40	40	1 1/2"	1 1/2"	2"	2"	620	800	1188	258	191896
CKE2 Multi VS15 02F22 UKASP	Multi VS15 02F22	2	2.2	T3	2	50	50	2"	2"	4"	4"	620	800	1188	108	191900
CKE2 Multi VS15 03F30 UKASP	Multi VS15 03F30	2	3	T3	2	50	50	2"	2"	4"	4"	620	800	1188	129	191901
CKE2 Multi VS15 04F40 UKASP	Multi VS15 04F40	2	4	T4	2	50	50	2"	2"	4"	4"	620	800	1188	143	191902
CKE2 Multi VS15 06F55 UKASP	Multi VS15 06F55	2	5.5	T4	2	50	50	2"	2"	4"	4"	620	800	1188	235	191903
CKE2 Multi VS25 01F22 UKASP	Multi VS25 01F22	2	2.2	T3	2	65	65	2 1/2"	2 1/2"	4"	4"	620	800	1188	161	191910
CKE2 Multi VS25 02F40 UKASP	Multi VS25 02F40	2	4	T4	2	65	65	2 1/2"	2 1/2"	4"	4"	620	800	1188	196	191911
CKE2 Multi VS25 03F55 UKASP	Multi VS25 03F55	2	5.5	T4	2	65	65	2 1/2"	2 1/2"	4"	4"	620	800	1188	262	191912

The dimensions stated in the table above are for guidance purposes only. Please contact ESPA UK prior to order to confirm these dimensions.

ESPA is constantly improving its products and services; therefore it reserves the right to update or modify specifications at any time without prior notice.

ADVANCED SOLUTIONS IN
AUTOMATIC BOOSTER SETS

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