

CKE4 MULTI VS Variable speed pressurization



Four 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 – assist – assist or duty – assist – assist – 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 depending on the pumps size (WRAS Approved).
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.

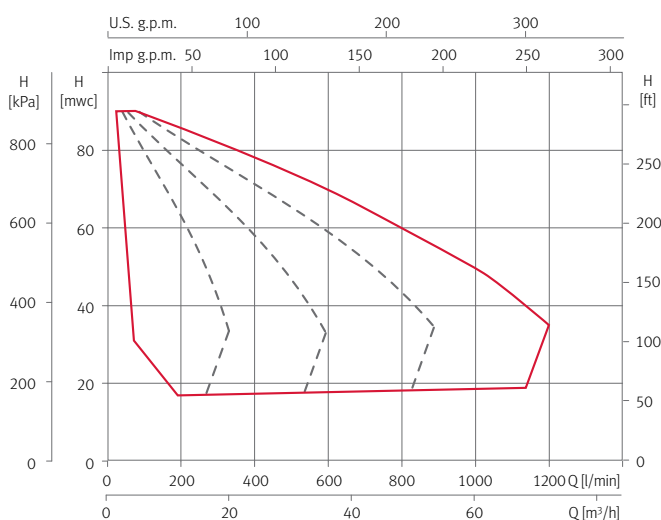
LENNTECH
WATER TREATMENT Solutions



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

Campo de aplicación CKE4 a 2900 rpm



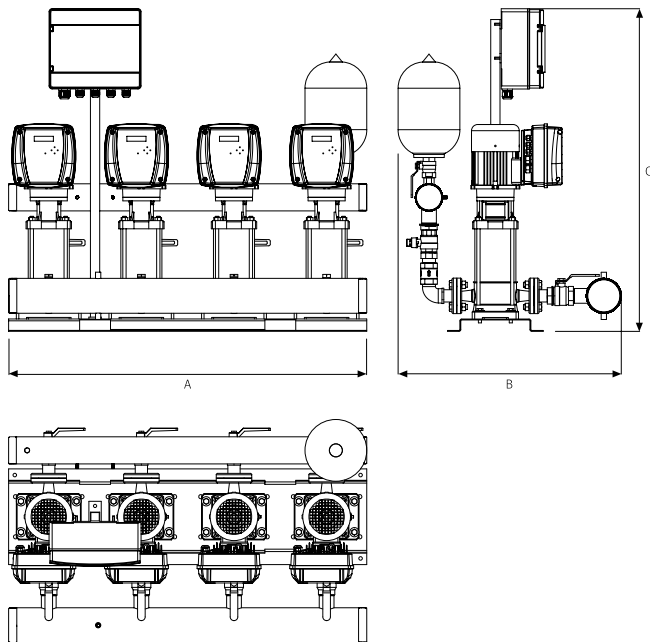
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CKE4 MULTI VS



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		
CKE4 Multi VS4 05F07 UKASP	Multi VS4 05F07	4	0.75	T2	4	25	25	1"	1"	4"	4"	1160	703	1046	210	192000
CKE4 Multi VS4 07F11 UKASP	Multi VS4 07F11	4	1.1	T2	4	25	25	1"	1"	4"	4"	1160	703	1136	259	192001
CKE4 Multi VS4 10F15 UKASP	Multi VS4 10F15	4	1.5	T2	4	25	25	1"	1"	4"	4"	1160	703	1136	266	192002
CKE4 Multi VS4 14F22 UKASP	Multi VS4 14F22	4	2.2	T2	4	25	25	1"	1"	4"	4"	1160	703	1136	287	191003
CKE4 Multi VS4 20F30 UKASP	Multi VS4 02F03	4	3	T3	4	25	25	1"	1"	4"	4"	1160	703	1136	371	192003
CKE4 Multi VS6 04F07 UKASP	Multi VS6 03F07	4	0.75	T2	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1046	217	192010
CKE4 Multi VS6 05F11 UKASP	Multi VS6 05F11	4	1.1	T2	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	224	192011
CKE4 Multi VS6 07F15 UKASP	Multi VS6 07F15	4	1.5	T2	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	266	192012
CKE4 Multi VS6 10F22 UKASP	Multi VS6 10F22	4	2.2	T3	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	287	192013
CKE4 Multi VS6 14F30 UKASP	Multi VS6 14F30	4	3	T3	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	371	192014
CKE4 Multi VS6 18F40 UKASP	Multi VS6 18F40	4	4	T4	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	434	192015
CKE4 Multi VS6 22F55 UKASP	Multi VS6 22F55	4	5.5	T4	4	32	32	1 1/4"	1 1/4"	4"	4"	1160	703	1136	579	192016
CKE4 Multi VS10 03F11 UKASP	Multi VS10 03F11	4	1.1	T2	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1046	273	192020
CKE4 Multi VS10 04F15 UKASP	Multi VS10 04F15	4	1.5	T2	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1046	315	192021
CKE4 Multi VS10 06F22 UKASP	Multi VS10 06F22	4	2.2	T3	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1046	343	192022
CKE4 Multi VS10 08F30 UKASP	Multi VS10 08F30	4	3	T3	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1136	413	192023
CKE4 Multi VS10 09F40 UKASP	Multi VS10 09F40	4	4	T4	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1136	455	192024
CKE4 Multi VS10 11F40 UKASP	Multi VS10 11F40	4	4	T4	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1136	469	192025
CKE4 Multi VS10 15F55 UKASP	Multi VS10 15F55	4	5.5	T4	4	40	40	1 1/2"	1 1/2"	4"	4"	1160	703	1136	784	192026
CKE4 Multi VS15 02F22 UKASP	Multi VS15 02F22	4	2.2	T3	4	50	50	2"	2"	6"	6"	1160	703	1188	329	192030
CKE4 Multi VS15 04F30 UKASP	Multi VS15 03F30	4	3	T3	4	50	50	2"	2"	6"	6"	1160	703	1188	392	192031
CKE4 Multi VS15 04F40 UKASP	Multi VS15 04F40	4	4	T4	4	50	50		2"	6"	6"	1160	703	1188	434	192032
CKE4 Multi VS15 06F55 UKASP	Multi VS15 06F55	4	5.5	T4	4	50	50	2"	2"	6"	6"	1160	703	1188	714	192033
CKE4 Multi VS25 01F22 UKASP	Multi VS25 01F22	4	2.2	T3	4	65	65	2 1/2"	2 1/2"	6"	6"	1230	800	1089	490	192040
CKE4 Multi VS25 02F40 UKASP	Multi VS25 02F40	4	4	T4	4	65	65	2 1/2"	2 1/2"	6"	6"	1160	800	1089	595	192041
CKE4 Multi VS25 04F55 UKASP	Multi VS25 03F55	4	5.5	T4	4	65	65	2 1/2"	2 1/2"	6"	6"	1160	800	1089	798	192042

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.