

CKE3 MULTI VS Variable speed pressurization



Three 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 or duty – 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

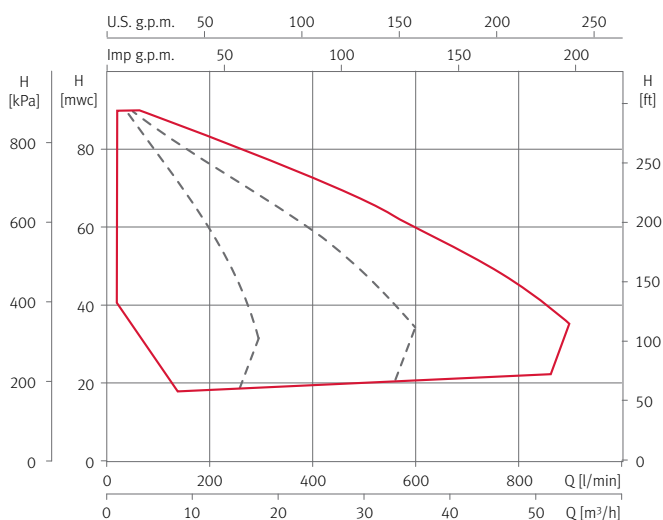
An innovative system that can be used with a variation of pump types including multistage vertical or horizontal pumps. Saves energy up to 50% silent running compact and can extend the life cycle of the pump.

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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.

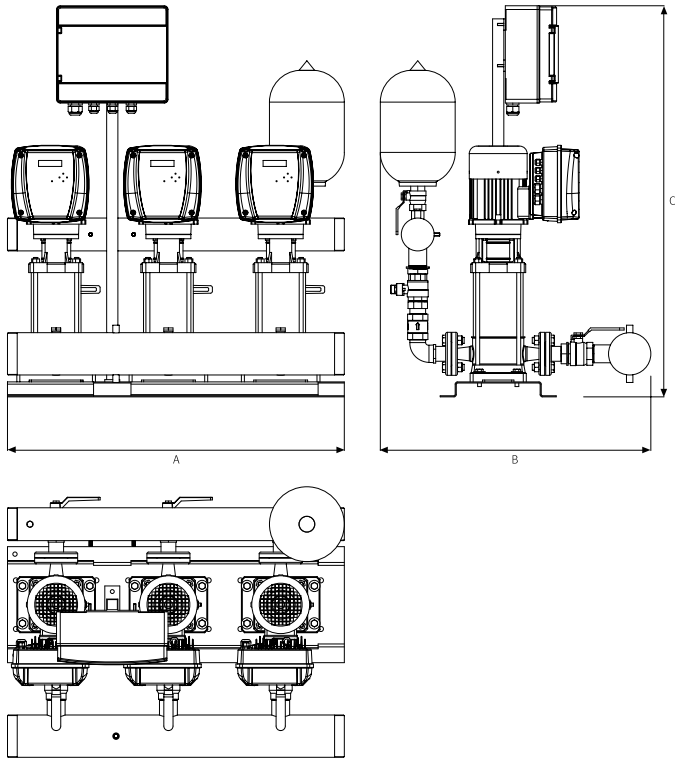
Hydraulic performance area CKE3



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CKE3 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		
CKE3M Multi VS4 05F07 UKASP	Multi VS4 05F07	3	0.75	M2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	151	191920
CKE3M Multi VS4 07F11 UKASP	Multi VS4 07F11	3	1.1	M2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	172	191921
CKE3M Multi VS4 10F15 UKASP	Multi VS4 10F15	3	1.5	M2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	183	191922
CKE3M Multi VS4 14F22 UKASP	Multi VS4 14F22	3	2.2	M3	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	205	191923
CKE3M Multi VS6 03F07 UKASP	Multi VS6 03F07	3	0.75	M2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	163	191930
CKE3M Multi VS6 05F11 UKASP	Multi VS6 05F11	3	1.1	M2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	174	191931
CKE3M Multi VS6 07F15 UKASP	Multi VS6 07F15	3	1.2	M2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	190	191932
CKE3M Multi VS6 10F22 UKASP	Multi VS6 10F22	3	2.2	M3	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	205	191933
CKE3M Multi VS10 03F11 UKASP	Multi VS10 03F11	3	1.1	M2	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	195	191940
CKE3M Multi VS10 04F15 UKASP	Multi VS10 04F15	3	1.5	M2	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	225	191941

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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		
CKE3 Multi VS4 05F07 UKASP	Multi VS4 05F07	3	0.75	T2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	150	191950
CKE3 Multi VS4 07F11 UKASP	Multi VS4 07F11	3	1.1	T2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	185	191952
CKE3 Multi VS4 10F15 UKASP	Multi VS4 10F15	3	1.5	T2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	190	191953
CKE3 Multi VS4 14F22 UKASP	Multi VS4 14F22	3	2.2	T2	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	205	191954
CKE3 Multi VS4 20F30 UKASP	Multi VS4 02F03	3	3	T3	3	25	25	1"	1"	2 1/2"	2 1/2"	1300	870	1320	265	191955
CKE3 Multi VS6 03F07 UKASP	Multi VS6 03F07	3	0.75	T2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	155	191960
CKE3 Multi VS6 05F11 UKASP	Multi VS6 05F11	3	1.1	T2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	160	191961
CKE3 Multi VS6 07F15 UKASP	Multi VS6 07F15	3	1.5	T2	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	190	191962
CKE3 Multi VS6 10F22 UKASP	Multi VS6 10F22	3	2.2	T3	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	205	191963
CKE3 Multi VS6 14F30 UKASP	Multi VS6 14F30	3	3	T3	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	265	191964
CKE3 Multi VS6 18F40 UKASP	Multi VS6 18F40	3	4	T4	3	32	32	1 1/4"	1 1/4"	2 1/2"	2 1/2"	1300	870	1320	310	191965
CKE3 Multi VS10 03F11 UKASP	Multi VS10 03F11	3	1.1	T2	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	195	191970
CKE3 Multi VS10 04F15 UKASP	Multi VS10 04F15	3	1.5	T2	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	225	191971
CKE3 Multi VS10 06F22 UKASP	Multi VS10 06F22	3	2.2	T3	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	245	191972
CKE3 Multi VS10 08F30 UKASP	Multi VS10 08F30	3	3	T3	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	295	191973
CKE3 Multi VS10 09F40 UKASP	Multi VS10 09F40	3	4	T4	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	325	191974
CKE3 Multi VS10 11F40 UKASP	Multi VS10 11F40	3	4	T4	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	335	191975
CKE3 Multi VS10 15F55 UKASP	Multi VS10 15F55	3	5.5	T4	3	40	40	1 1/2"	1 1/2"	2 1/2"	2 1/2"	1300	870	1320	560	191976
CKE3 Multi VS15 02F22 UKASP	Multi VS15 02F22	3	2.2	T3	3	50	50	2"	2"	4"	4"	1300	870	1320	235	191980
CKE3 Multi VS15 03F30 UKASP	Multi VS15 03F30	3	3	T3	3	50	50	2"	2"	4"	4"	1300	870	1320	280	191981
CKE3 Multi VS15 04F40 UKASP	Multi VS15 04F40	3	4	T4	3	50	50	2"	2"	4"	4"	1300	870	1320	310	191982
CKE3 Multi VS15 06F55 UKASP	Multi VS15 06F55	3	5.5	T4	3	50	50	2"	2"	4"	4"	1300	870	1320	510	191983
CKE3 Multi VS25 01F22 UKASP	Multi VS25 01F22	3	2.2	T3	3	65	65	2 1/2"	2 1/2"	4"	4"	1300	870	1320	350	191990
CKE3 Multi VS25 02F40 UKASP	Multi VS25 02F40	3	4	T4	3	65	65	2 1/2"	2 1/2"	4"	4"	1300	870	1320	425	191991
CKE3 Multi VS25 03F55 UKASP	Multi VS25 03F55	3	5.5	T4	3	65	65	2 1/2"	2 1/2"	4"	4"	1300	870	1320	570	191992

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.

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