

CKE1 MULTI VS Variable speed pressurization



Single pump 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 single pump booster set. Complete unit controlled by **ESPA ESD** Speedrive (Variable Frequency Driver) for water supply at constant pressure. The booster set adapts the speed of the motor 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

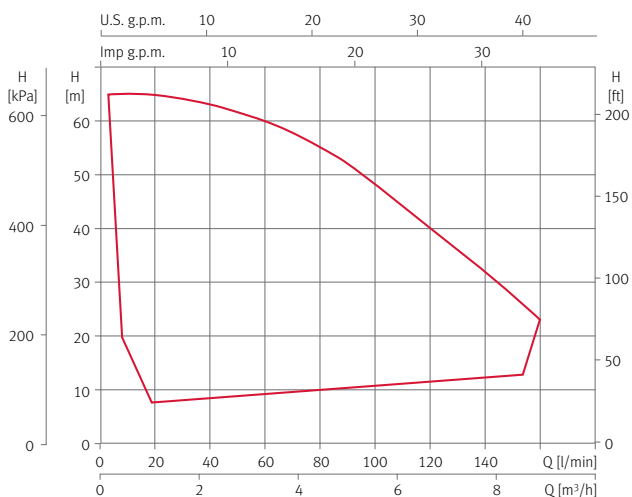
An innovative system that can be used with a variation of pump types including multistage vertical or horizontal pumps. Saves energy up to 50% silent running compact and can extend the life cycle of the pump.

LENNTECH
WATER TREATMENT Solutions

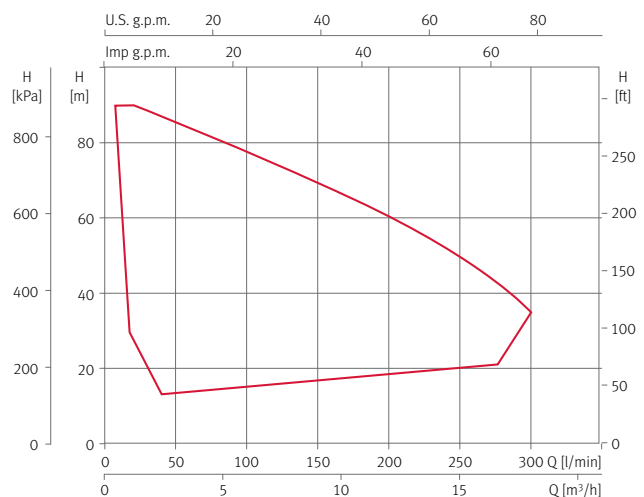


The ESPA Engineering Application Service is ready to design and manufacture customised solutions for any required application, modifying the standard range increasing the flow, the head or changing operation mode.

Hydraulic performance area CKE1M



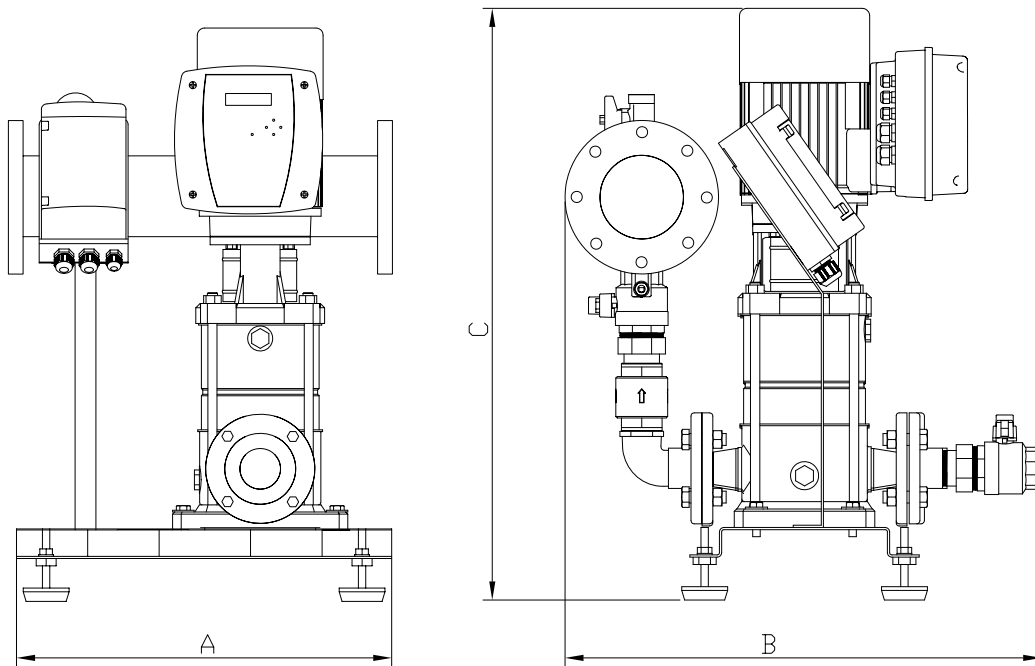
Hydraulic performance area CKE1



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CKE1 MULTI



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		
CKE1M Multi VS4 05F07 UK	Multi VS4 05F07	1	0.75	M2	1	25	25	1"	1"		2"	400	440	904	42	191837
CKE1M Multi VS4 07F11 UK	Multi VS4 07F11	1	1.1	M2	1	25	25	1"	1"		2"	400	440	904	52	191838
CKE1M Multi VS4 10F15 UK	Multi VS4 10F15	1	1.5	M2	1	25	25	1"	1"		2"	400	440	904	53	196237
CKE1M Multi VS4 14F22 UK	Multi VS4 14F22	1	2.2	M3	1	25	25	1"	1"		2"	400	440	904	57	185238
CKE1M Multi VS6 03F07 UK	Multi VS6 03F07	1	0.75	M2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	43	185239
CKE1M Multi VS6 05F11 UK	Multi VS6 05F11	1	1.1	M2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	45	185240
CKE1M Multi VS6 07F15 UK	Multi VS6 07F15	1	1.2	M2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	53	194999
CKE1M Multi VS6 10F22 UK	Multi VS6 10F22	1	2.2	M3	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	57	185242
CKE1M Multi VS10 03F11 UK	Multi VS10 03F11	1	1.1	M2	1	40	40	1 1/2"	1 1/2"		2"	448	540	904	55	185241
CKE1M Multi VS10 04F15 UK	Multi VS10 04F15	1	1.5	M2	1	40	40	1 1/2"	1 1/2"		2"	448	540	904	63	185243
CKE1M Multi VS10 06F22 UK	Multi VS10 06F22	1	2.2	M3	1	40	40	1 1/2"	1 1/2"		2"	448	540	904	69	185244

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						Suc.	disch.	Suct.	Disch.	Suc.	Disch.	A	B	C		
CKE1 Multi VS4 05F07 UK	Multi VS4 05F07	1	0.75	T2	1	25	25	1"	1"		2"	400	440	904	42	197250
CKE1 Multi VS4 07F11 UK	Multi VS4 07F11	1	1.1	T2	1	25	25	1"	1"		2"	400	440	904	52	185251
CKE1 Multi VS4 10F15 UK	Multi VS4 10F15	1	1.5	T2	1	25	25	1"	1"		2"	400	440	904	53	185254
CKE1 Multi VS4 14F22 UK	Multi VS4 14F22	1	2.2	T2	1	25	25	1"	1"		2"	400	440	904	57	185255
CKE1 Multi VS4 20F30 UK	Multi VS4 02F03	1	3	T3	1	25	25	1"	1"		2"	400	440	990	74	185244
CKE1 Multi VS6 03F07 UK	Multi VS6 03F07	1	0.75	T2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	43	185245
CKE1 Multi VS6 05F11 UK	Multi VS6 05F11	1	1.1	T2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	45	185246
CKE1 Multi VS6 07F15 UK	Multi VS6 07F15	1	1.5	T2	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	53	185247
CKE1 Multi VS6 10F22 UK	Multi VS6 10F22	1	2.2	T3	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	57	185248
CKE1 Multi VS6 14F30 UK	Multi VS6 14F30	1	3	T3	1	32	32	1 1/4"	1 1/4"		2"	400	440	904	74	185249
CKE1 Multi VS6 18F40 UK	Multi VS6 18F40	1	4	T4	1	32	32	1 1/4"	1 1/4"		2"	640	679	967	87	185250
CKE1 Multi VS10 03F11 UK	Multi VS10 03F11	1	1.1	T2	1	40	40	1 1/2"	1 1/2"		2"	640	679	904	55	185252
CKE1 Multi VS10 04F15 UK	Multi VS10 04F15	1	1.5	T2	1	40	40	1 1/2"	1 1/2"		2"	640	679	904	63	185253
CKE1 Multi VS10 06F22 UK	Multi VS10 06F22	1	2.2	T3	1	40	40	1 1/2"	1 1/2"		2"	640	679	904	69	185254
CKE1 Multi VS10 08F30 UK	Multi VS10 08F30	1	3	T3	1	40	40	1 1/2"	1 1/2"		2"	640	679	904	83	185255
CKE1 Multi VS10 09F40 UK	Multi VS10 09F40	1	4	T4	1	40	40	1 1/2"	1 1/2"		2"	640	679	904	91	185256
CKE1 Multi VS10 11F40 UK	Multi VS10 11F40	1	4	T4	1	40	40	1 1/2"	1 1/2"		2"	640	679	964	94	185257
CKE1 Multi VS10 15F55 UK	Multi VS10 15F55	1	5.5	T4	1	40	40	1 1/2"	1 1/2"		2"	640	679	1127	157	185258
CKE1 Multi VS15 02F22 UK	Multi VS15 02F22	1	2.2	T3	1	50	50	2"	2"		4"	640	679	914	66	185260
CKE1 Multi VS15 03F30 UK	Multi VS15 03F30	1	3	T3	1	50	50	2"	2"		4"	640	679	914	78	185261
CKE1 Multi VS15 04F40 UK	Multi VS15 04F40	1	4	T4	1	50	50	2"	2"		4"	640	679	914	87	185262
CKE1 Multi VS15 06F55 UK	Multi VS15 06F55	1	5.5	T4	1	50	50	2"	2"		4"	640	679	946	143	185263
CKE1 Multi VS25 01F22 UK	Multi VS25 01F22	1	2.2	T3	1	65	65	2 1/2"	2 1/2"		4"	710	734	920	98	185265
CKE1 Multi VS25 02F40 UK	Multi VS25 02F40	1	4	T4	1	65	65	2 1/2"	2 1/2"		4"	710	734	920	119	185266
CKE1 Multi VS25 03F55 UK	Multi VS25 03F55	1	5.5	T4	1	65	65	2 1/2"	2 1/2"		4"	710	734	1024	160	185267

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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