1. Product introduction

The Grundfos CM and CME pumps are horizontal, multistage, end-suction centrifugal pumps. The pumps are of the close-coupled type and available as either self-priming or non-self-priming pumps. CM pumps are fitted with mains-operated motors whereas the motor for CME pumps has an integrated frequency converter. Both CM and CME pumps have mechanical shaft seals.

The CM and CME pumps are available in these three material versions:

- cast iron (EN-GJL-200)*
- stainless steel (EN 1.4301/AISI 304)
- stainless steel (EN 1.4401/AISI 316).

* The pump shaft, impeller, chamber and filling plugs are made of stainless steel (EN 1.4301/AISI 304).

CM

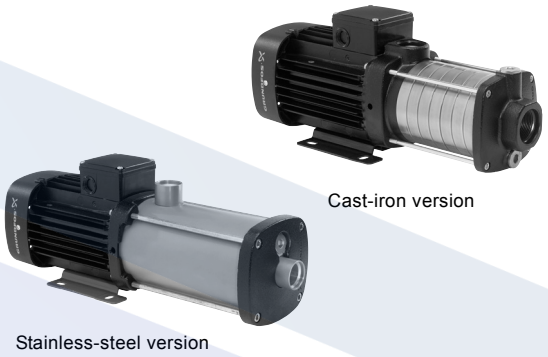

Fig. 1 Grundfos CM pumps

The CM pumps are unique products that have been developed in order to fulfil a wide variety of customer demands. The development of the pumps has resulted in no less than five patent applications.

The CM pumps are available in various sizes and numbers of stages to provide the flow and pressure required.

The CM pumps consist of two main components: the motor and the pump unit. The motor is a Grundfos motor designed to EN standards. The pump unit incorporates optimised hydraulics and offers various types of connections.

The pumps offer many advantages, some of which are listed below and described in detail in *Features and benefits* on page 10:

- compact design
- worldwide usage
- high reliability
- service friendly
- wide performance range
- low noise
- customised solutions.

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3. Applications

The CM and CME pumps are designed to cover a wide variety of applications, ranging from small domestic installations to large industrial systems. The pumps are therefore suitable for a wide diversity of pumping systems where the performance and material of the pump must meet specific demands.

Some of the most typical applications are mentioned below:

- washing and cleaning
- water treatment
- temperature control
- pressure boosting.

Washing and cleaning

Gr3572

Fig. 3 Washing and cleaning

CM and CME pumps can be used in washing and cleaning applications, which usually involve pumping of water containing soap or other cleaning agents.

Reference applications

Typical washing and cleaning applications:

- degreasing and washing of production equipment in industrial environments such as the food and beverage industry
- washing machines
- vehicle-washing tunnels
- mobile-washing units
- units for CIP (Cleaning In Place).

Water treatment

Gr7052

Fig. 4 Water treatment

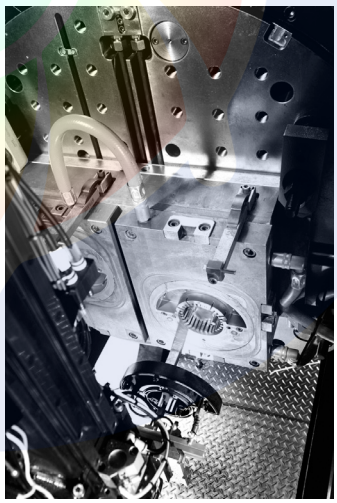
In water treatment plants, the water undergoes a process which makes it more suited for its end use. In this process, the CM and CME pumps can be utilised either as feed pumps or as booster pumps.

Reference applications

Typical water treatment applications:

- nano-, micro- and ultra-filtration systems
- softening, ionising, demineralising systems
- desalination systems
- distillation systems
- separators
- swimming baths.

Temperature control



GrA6288

Fig. 5 Temperature control

Temperature control involves applications where the CM and CME pumps circulate a liquid in a closed loop consisting of a heating or cooling element for optimising a process by means of temperature. Temperature control is also chilling of equipment or food and beverage in the food production industry.

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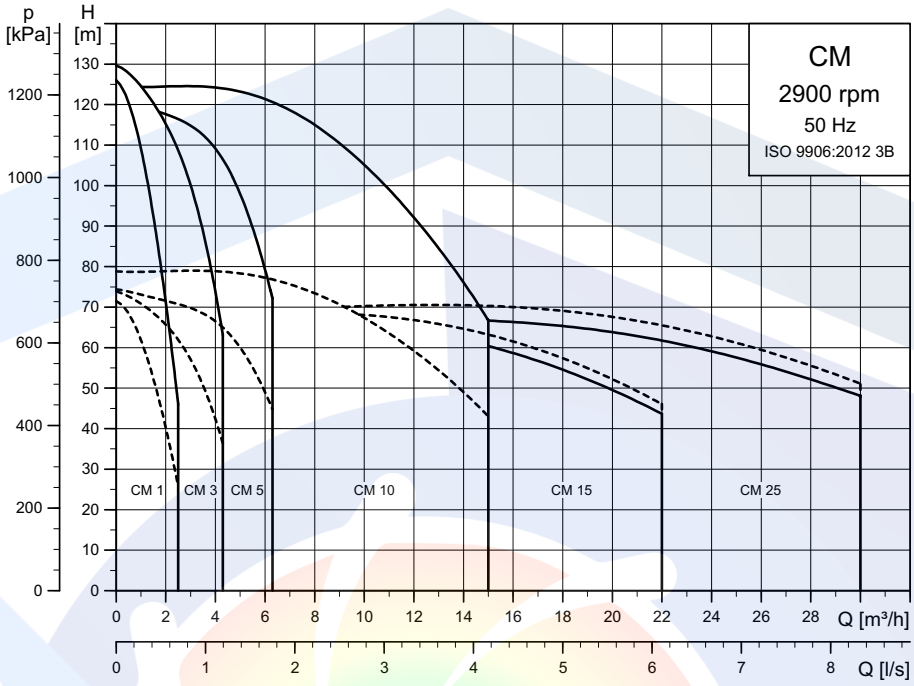
7. Performance range

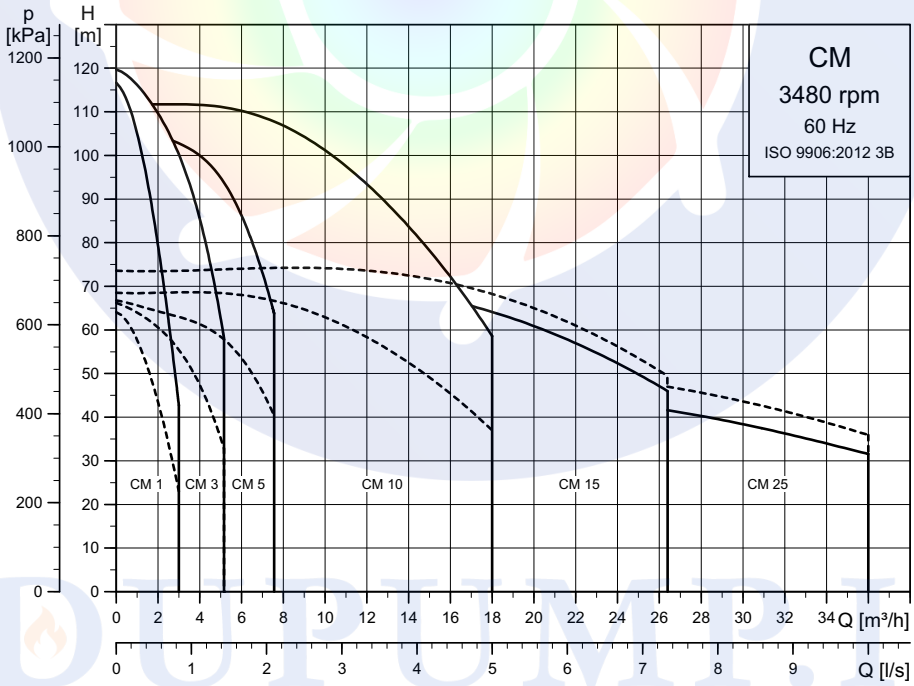
CM, 50 Hz



TM04 3340 4616

CM-A
CM-I/G

CM, 60 Hz



TM04 3369 4616

CM-A
CM-I/G

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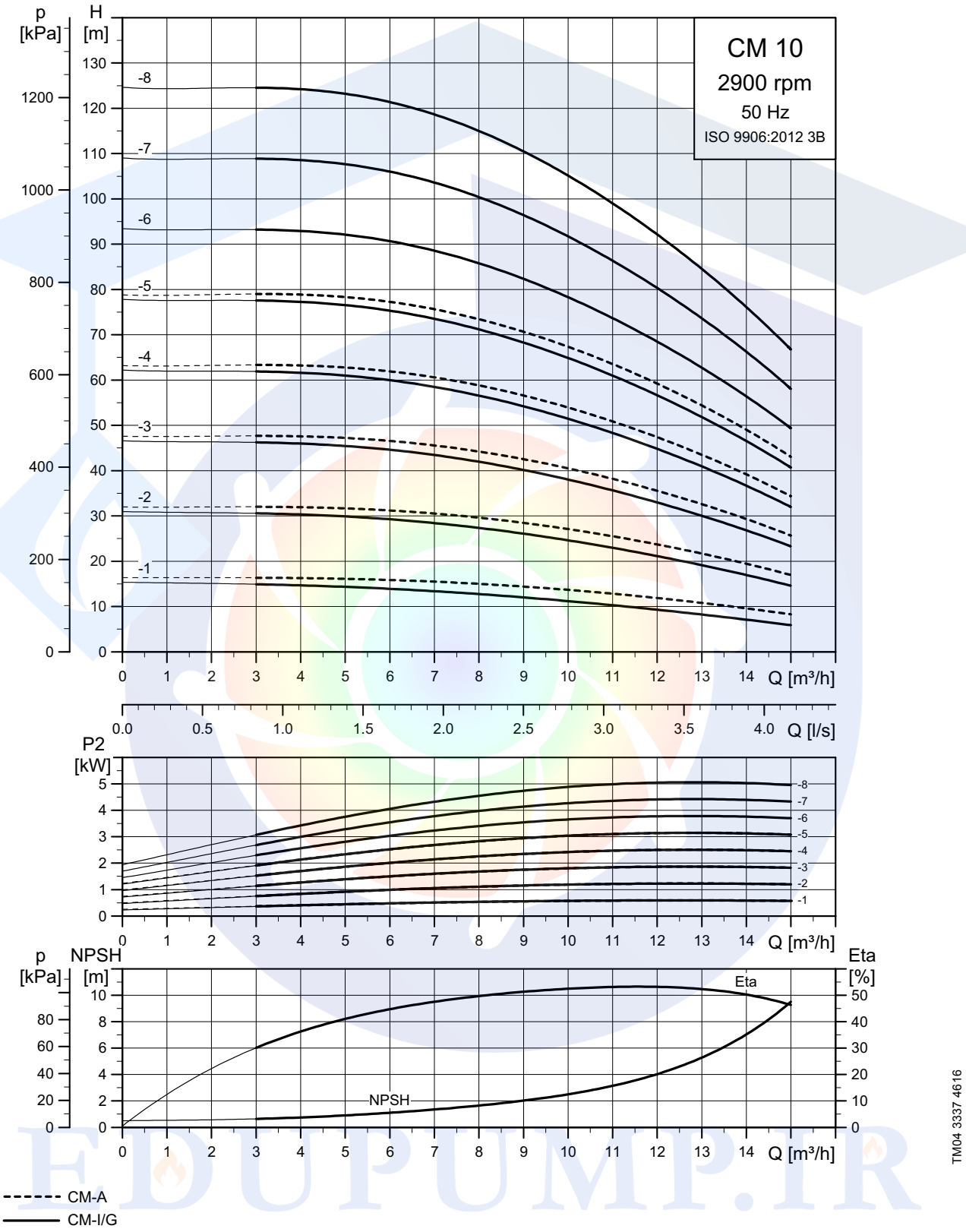
CM 10



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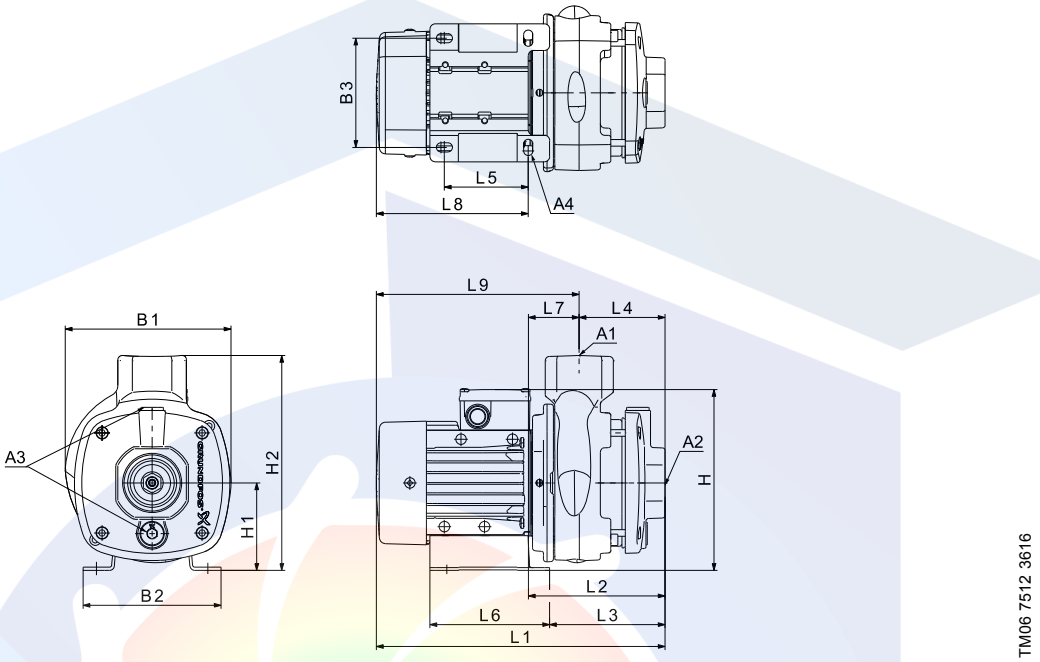
CM 10-A

(A = cast iron EN-GJL-200)



TM06 7512 3616

Dimensions

3 x 220-240/380-415 V, 50 Hz (supply voltage F)

Pump type	Frame size	P_2 [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 10-1	71	0.65	1 1/2"	1 1/2"	3/8"	10.5	190	158	125	209	100	242	330	156	131	97	95	137	59	174	232
CM 10-2	90	1.50	1 1/2"	1 1/2"	3/8"	12.0	190	199	160	210	100	242	420	188	173	97	140	170	91	232	322
CM 10-3	90	2.20	1 1/2"	1 1/2"	3/8"	12.0	190	199	160	210	100	242	490	218	203	127	140	170	91	272	362
CM 10-4	100	3.0	1 1/2"	1 1/2"	3/8"	12.0	198	199	160	220	100	242	537	264	249	157	140	170	107	273	380
CM 10-5	100	3.0	1 1/2"	1 1/2"	3/8"	12.0	198	199	160	220	100	242	567	294	279	187	140	170	107	273	380

1 x 220-240 V, 50 Hz (supply voltage C)

Pump type	Frame size	P_2 [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 10-1	80	0.67	1 1/2"	1 1/2"	3/8"	10.5	190	158	125	233	100	242	370	156	131	97	95	137	59	214	272
CM 10-2	90	1.30	1 1/2"	1 1/2"	3/8"	12.0	190	199	160	239	100	242	420	188	173	97	140	170	91	232	322
CM 10-3	90	1.90	1 1/2"	1 1/2"	3/8"	12.0	190	199	160	239	100	242	451	219	204	127	140	170	92	232	324

All dimensions are in mm unless otherwise stated.

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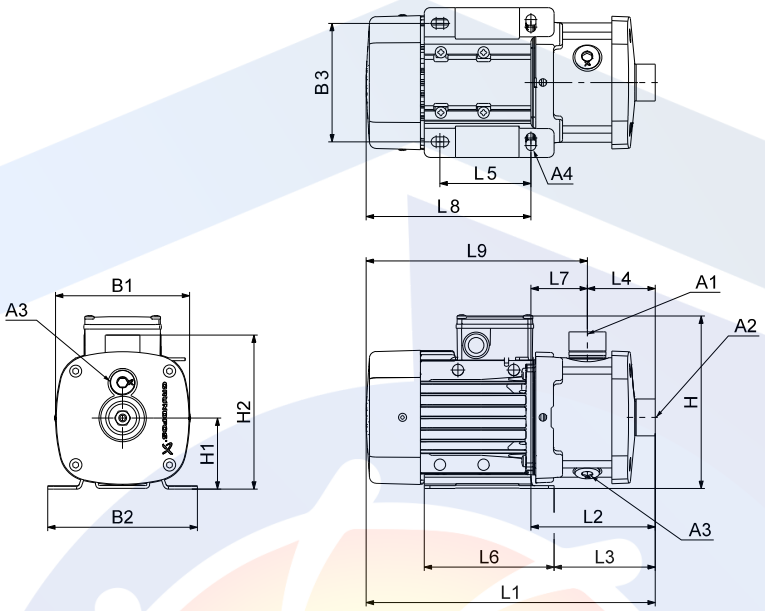
CM 10-I and CM 10-G

(I = EN 1.4301/AISI 304 and G = EN 1.4401/AISI 316)



TM06 7507 3616

Dimensions

3 x 220-240/380-415 V, 50 Hz (supply voltage F)

Pump type	Frame size	P_2 [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 10-1	71	0.65	1 1/2"	1 1/2"	3/8"	10.5	141	158	125	209	100	219	360	186	161	105	95	137	81	174	255
CM 10-2	90	1.50	1 1/2"	1 1/2"	3/8"	12.0	178	199	160	210	100	219	450	218	203	105	140	170	113	232	345
CM 10-3	90	2.20	1 1/2"	1 1/2"	3/8"	12.0	178	199	160	210	100	219	490	218	203	105	140	170	113	272	385
CM 10-4	100	3.00	1 1/2"	1 1/2"	3/8"	12.0	198	199	160	220	100	219	537	264	249	135	140	170	129	273	402
CM 10-5	100	3.00	1 1/2"	1 1/2"	3/8"	12.0	198	199	160	220	100	219	597	324	309	195	140	170	129	273	402
CM 10-6	112	4.00	1 1/2"	1 1/2"	3/8"	12.0	220	228	190	246	112	231	650	348	332	195	140	172	153	302	455
CM 10-7	132	5.50	1 1/2"	1 1/2"	3/8"	12.0	220	228	190	246	112	231	710	408	392	255	140	172	153	302	455
CM 10-8	132	5.50	1 1/2"	1 1/2"	3/8"	12.0	220	228	190	246	112	231	710	408	392	255	140	172	153	302	455

Please note that the dimension H is smaller than H2 for CM 10-1, CM 10-2 and CM 10-3.

1 x 220-240 V, 50 Hz (supply voltage C)

Pump type	Frame size	P_2 [kW]	Dimensions [mm]																		
			A1	A2	A3	A4	B1	B2	B3	H	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9
CM 10-1	80	0.67	1 1/2"	1 1/2"	3/8"	10.5	141	158	125	233	100	219	400	186	161	105	95	137	81	214	295
CM 10-2	90	1.30	1 1/2"	1 1/2"	3/8"	12.0	178	199	160	239	100	219	450	218	203	105	140	170	113	232	345
CM 10-3	90	1.90	1 1/2"	1 1/2"	3/8"	12.0	178	199	160	239	100	219	451	219	204	105	140	170	114	232	346

All dimensions are in mm unless otherwise stated.

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تهـــران، سعـدی شمـالـی، خیـابان مـرادی نور، پـلاک ۳۱
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