

## CM PM2 Booster (Cast iron)



TM04 9363 4010

### General description

The Grundfos CM Booster with pressure manager PM2 is a compact booster set for water supply in domestic applications. The pressure booster unit consists of a Grundfos CM pump and a Grundfos pressure manager PM2. The pressure manager allows the pump to start and stop automatically according to demand and protects the pump from dry running.

The CM Booster is very easy to install. When the booster has been connected to the pipework, it is all a matter of plugging the plug into a socket, and the system is operational.

### Features

- compact
- easy installation
- automatic resetting of alarms
- dry-running protection
- anti cycling (leakage detection)
- maximum continuous operating time.

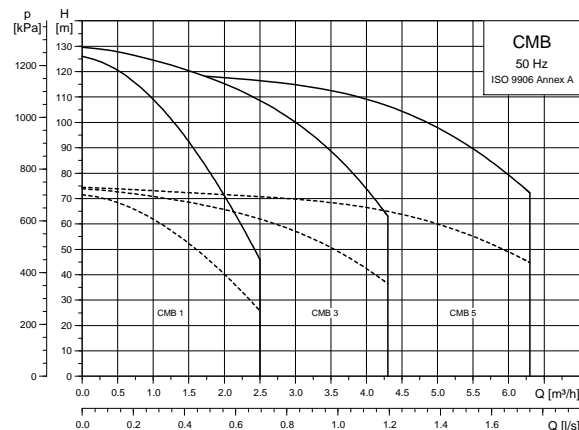
### Applications

Grundfos CM PM2 Booster is mainly used for domestic and light commercial water supply or booster systems.

Application	CMB1	CMB3	CMB5
Single-family houses	●	●	○
Two-family houses	○	●	●
Cluster homes		●	●
Blocks of flats		●	●
Schools		●	●
Small hotels/guest houses		●	●
Small office buildings		●	●

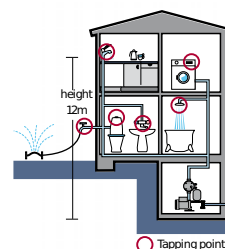
● Recommended

### Performance range



TM04 9314 3910

### Selection guide



Ex. Sizing & Selection.  
Find the right booster  
- How many taps? 6 taps  
- How many floors? 3 floors.  
Result: CMB 3-4

Taps	1-5	6-10	11-20	21-50
4	CMB 1-6	CMB 3-5	CMB 3-5	CMB 5-5
3	CMB 1-5	CMB 3-4	CMB 3-5	CMB 5-5
2	CMB 1-5	CMB 3-4	CMB 3-5	CMB 5-4
1	CMB 1-4	CMB 3-3	CMB 3-4	CMB 5-4

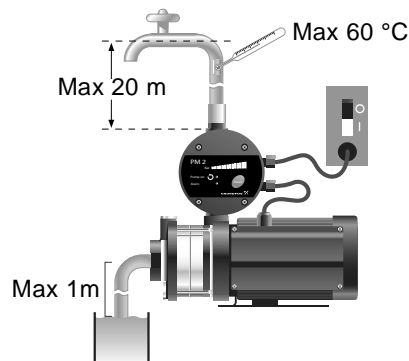
Taps	1-5	6-10	11-20	21-50
4	CMB 1-6	CMB 3-5	CMB 3-5	CMB 5-5
3	CMB 1-5	CMB 3-4	CMB 3-5	CMB 5-5
2	CMB 1-5	CMB 3-4	CMB 3-5	CMB 5-4
1	CMB 1-4	CMB 3-3	CMB 3-4	CMB 5-4

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### Preconditions:

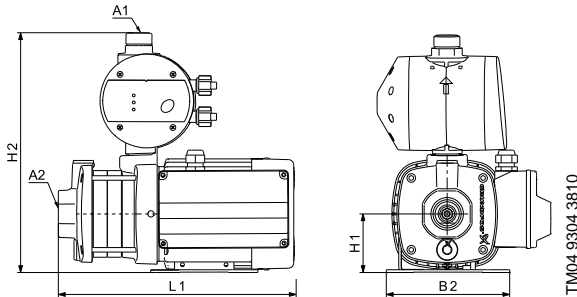
- 3 bar tap pressure is considered, to achieve 4 bar pressure add 2 more floors
- Flooded Suction. 0,5 l/s per tap average, usage pattern is taken into account
- Grundfos cannot be held responsible for wrong sizing based on this guide

### Installation



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**Dimensional drawings**



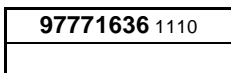
Pump	A1	A2	L1	H1	H2
CMB1-3 / CMB3-3	1"	1"	305.5	75	301
CMB1-4 / CMB3-4	1"	1"	323.5	75	301
CMB1-5 / CMB3-5	1"	1"	341.5	75	301
CMB1-6	1"	1"	359.5	75	301
CMB3-6	1"	1"	399.5	75	301
CMB5-3	1"	1 1/4"	381.5	75	301
CMB5-4	1"	1 1/4"	363.5	75	301
CMB5-5	1"	1 1/4"	341.5	75	301

**Type key**

Example	CMB	1	- 4	- A	- C	- A	- D	- C
<b>Type range</b> CMB: CM Booster with PM1 or PM2								
<b>Rated flow</b> Rated flow at 50 Hz [m <sup>3</sup> /h]								
<b>Number of impellers</b>								
<b>Materials in contact with pumped liquid</b>								
A: Suction and discharge parts	EN-GJL-200							
Pump shaft	EN 1.4057/AISI 431							
Impellers/chambers	EN 1.4301/AISI 304							
Pressure manager	PP 30GF							
<b>Supply voltage</b> C: 1 x 220-240 V, 50 Hz								
<b>Motor information</b> A: Standard motor (IP55)								
<b>Mains cable and plug</b> A: 1.5 m cable with Australian plug B: 1.5 m cable with US plug C: 1.5 m cable with Schuko plug D: 1.5 m cable without plug								
<b>Controller</b> A: PM1 - 1.5 bar B: PM1 - 2.2 bar C: PM2								

**Thermal protection**

CM booster pumps have built-in current- and temperature-dependent motor protection in accordance with IEC 60034-11 and require no further motor protection.



ECM: 1067704

**Technical data**

Product no.	Pump type	Voltage [V]	F [Hz]	I <sub>MAX</sub> [A]	P <sub>1</sub> [W]	Plug type
GB*	EU*					
97530001	97755495	CMB1-3	220-240	50	1.8-2.4	377 Schuko
97530002	-	CMB1-3	220-240	50	1.8-2.4	377 AU
97530003	-	CMB1-3	220-240	50	1.8-2.4	377 US
97530004	97755496	CMB1-3	220-240	50	1.8-2.4	377 -
97530010	97755499	CMB1-4	220-240	50	3.1-2.8	436 Schuko
97530011	-	CMB1-4	220-240	50	3.1-2.8	436 AU
97530012	-	CMB1-4	220-240	50	3.1-2.8	436 US
97530013	97755500	CMB1-4	220-240	50	3.1-2.8	436 -
97530019	97755513	CMB1-5	220-240	50	3.1-2.8	498 Schuko
97530020	-	CMB1-5	220-240	50	3.1-2.8	498 AU
97530021	-	CMB1-5	220-240	50	3.1-2.8	498 US
97530022	97755514	CMB1-5	220-240	50	3.1-2.8	498 -
97530028	97755517	CMB1-6	220-240	50	3.1-2.8	568 Schuko
97530029	-	CMB1-6	220-240	50	3.1-2.8	568 AU
97530030	-	CMB1-6	220-240	50	3.1-2.8	568 US
97530031	97755518	CMB1-6	220-240	50	3.1-2.8	568 -
97530037	97755521	CMB3-3	220-240	50	3.1-2.8	491 Schuko
97530038	-	CMB3-3	220-240	50	3.1-2.8	491 AU
97530039	-	CMB3-3	220-240	50	3.1-2.8	491 US
97530040	97755522	CMB3-3	220-240	50	3.1-2.8	491 -
97530046	97755525	CMB3-4	220-240	50	3.1-2.8	587 Schuko
97530047	-	CMB3-4	220-240	50	3.1-2.8	587 AU
97530048	-	CMB3-4	220-240	50	3.1-2.8	587 US
97530049	97755526	CMB3-4	220-240	50	3.1-2.8	587 -
97530055	97755529	CMB3-5	220-240	50	3.1-2.8	689 Schuko
97530056	-	CMB3-5	220-240	50	3.1-2.8	689 AU
97530057	-	CMB3-5	220-240	50	3.1-2.8	689 US
97530058	97755530	CMB3-5	220-240	50	3.1-2.8	689 -
97530064	97755543	CMB3-6	220-240	50	4.4-4.0	869 Schuko
97530065	-	CMB3-6	220-240	50	4.4-4.0	869 AU
97530066	-	CMB3-6	220-240	50	4.4-4.0	869 US
97530067	97755544	CMB3-6	220-240	50	4.4-4.0	869 -
97530073	97755584	CMB5-3	220-240	50	3.1-2.8	715 Schuko
97530074	-	CMB5-3	220-240	50	3.1-2.8	715 AU
97530075	-	CMB5-3	220-240	50	3.1-2.8	715 US
97530076	97755586	CMB5-3	220-240	50	3.1-2.8	715 -
97687688	-	CMB5-4	220-240	50	4.4-4.0	869 AU
97530082	97755590	CMB5-5	220-240	50	5.4-5.0	1160 Schuko
97530083	-	CMB5-5	220-240	50	5.4-5.0	1160 AU
97530084	-	CMB5-5	220-240	50	5.4-5.0	1160 US
97530085	97755601	CMB5-5	220-240	50	5.4-5.0	1160 -

\* GB or EU refers to languages in the instruction.

Subject to alterations.

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