

# COMPACT-E

A Quality Pumping Solution



*Office building*



*Manufacturing plant*



*Household*



*Hotels*

## About Compact-E

Grundfos Compact-E System is designed with two to four numbers of Grundfos Horizontal centrifugal multi-stage CM pumps operating in parallel via Grundfos R-series variable speed drive installed at the panel. The constant pressure boosting is able to supply water to household, dwellings, office buildings, hotels, hospitals, departmental stores and manufacturing plants.



Household



Manufacturing plants.



Hotels



Office buildings

### Features and Benefits

- Constant pressure for optimum comfort and energy savings
- Simple and user friendly operation
- Lead lag and timer change over feature to ensure equal operation of pumps
- Automatic changeover in the event of failure of one pump to prevent interruption of water supply
- High quality components for longer lasting operation
- Motor protection to minimize failure of the motor and pumps from external fault

### Standard protections

- Earth leakage protection from mains
- Protection via Grundfos R-series VSD for motor and pump protection such as over-current, over-voltage, motor overload, under voltage during operation, ground fault, high pressure limit, low pressure limit, sensor fault and dry run protection.



## The details make the difference

From end to end, Grundfos' well-known quality and attention to detail makes the difference between Grundfos CM and competitive pumps.

### A small pump with gigantic potential

It was once said that great things come in small packages. When you meet the Grundfos CM pump for the first time, you'll certainly agree. This horizontal multistage pump has been created with compactness and modularity as two of its central features. Add reliability and quiet operation to the mix, and another innovative pump solution from Grundfos is born.

The Grundfos CM is designed to be used in a variety of applications. These include

- Washing & cleaning
- Temperature control
- Water treatment
- Chemical and Pharmaceutical industries
- And more...

### Key Characteristics of Grundfos CM pump

#### Compactness

Certain dimensions have reduced by more than 30% compared to corresponding pumps without a corresponding reduction in performance.

#### Modularity

An impressive range of variants are easily created. Elements including motor, sleeve, stack and pump housing can be combined to best suit customer needs

#### Reliability

Robust materials and components including joint elements, o-ring shaft seals, and stack clamping ensure a minimum of downtime.

#### Quiet operation

CM pumps are often used in small spaces, where loud operation is undesirable. Aside from sounding better, quiet operation eliminates the need for extra insulation around the product.



### Materials

Different materials are better suited for different applications. The modular concept of the Grundfos CM pump allows you to select the material that best suits your needs.

#### Cast iron

Solid & reliable, it is perfect for washing and cleaning, pressure boosting, and chillers.

#### AISI 304/DIN 1.4301 stainless steel

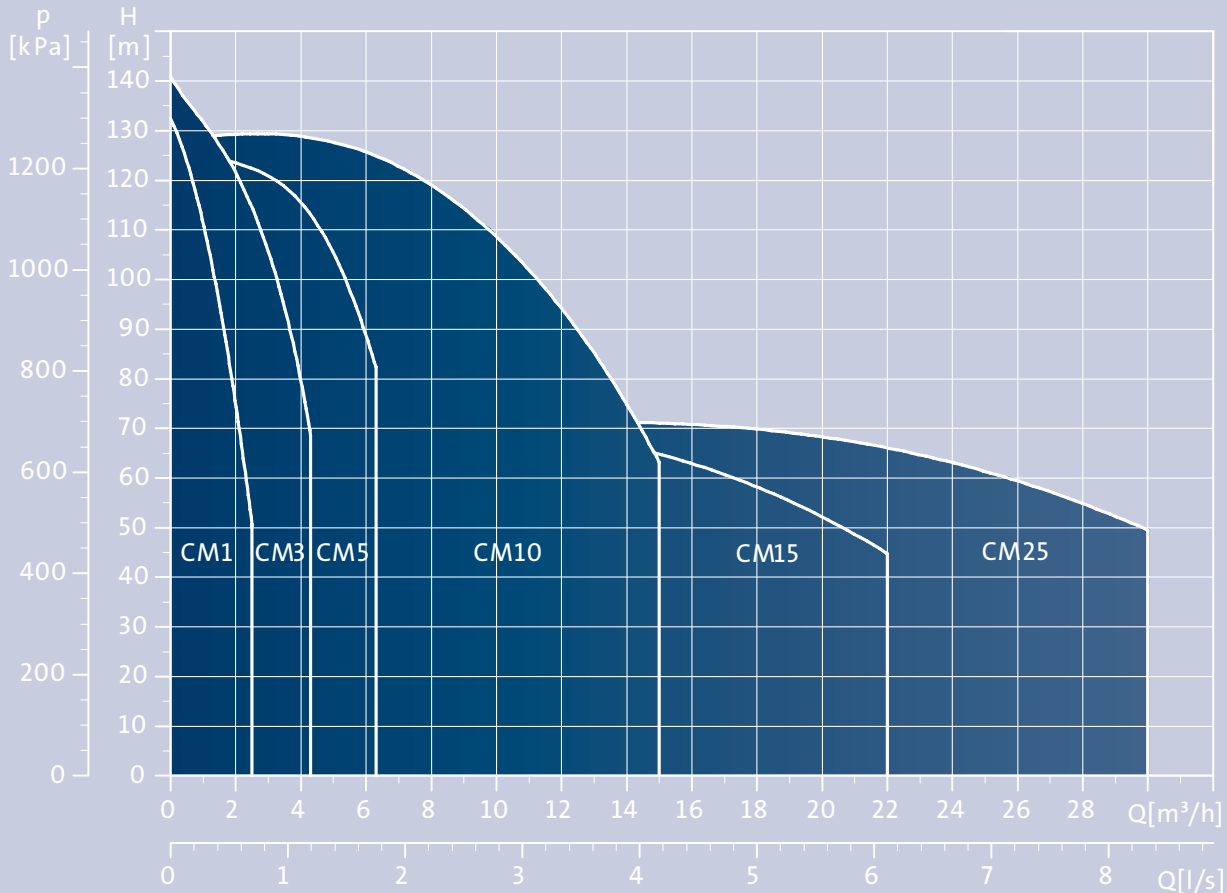
AISI304 stainless steel is the perfect choice for water and non-corrosive liquids used in water treatment, temperature control, pressure boosting, and washing & cleaning.

#### AISI 316/DIN 1.4401 stainless steel

AISI 316 stainless steel offers a high degree of corrosion protection against aggressive liquids used in chemical, pharmaceutical, food & beverage and water treatment applications.

# Performance curves

CM 50 Hz



## Technical specifications

No. of pumps :	2 to 4 pumps
Pump type :	Grundfos Horizontal Multistage CM- A or * <b>Optional:</b> CM-I or CM-G
Supply voltage :	Single phase 220-240VAC 50HZ (2 pumps only up to 1.5 kw only) Three phase 380-415VAC 50HZ (2 to 4 pumps up to 4 kw)
Max. ambient temperature :	55 degree °C (with liquid temperature not exceeding 90 degree °C)
Max. operating pressure :	Max. 10 bar or * <b>Optional:</b> For more than 10 bar application
System enclosure :	IP42 or * <b>Optional:</b> IP54 for weatherproof
Manifold type :	Galvanized Iron or * <b>Optional:</b> Stainless steel 304 or 316, ABS (Customised)
Manifold connection :	BSPT (M) for up to 2 ½" PN16 flange for DN80 and above
Baseplate type :	Mild steel C-channel
Tank size :	18L (CM 1 to CM 5) 35L (CM 10 to CM 25)

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