

# Grundfos Multi-R Variable Speed System 50 Hz

**Provides Variable Speed Pumping Station**





**Grundfos R-series inverters are simple yet smart to operate as a Variable speed system controller and frequency inverters**



**Grundfos Multi-R variable speed system is designed to operate in parallel with two to four Grundfos vertical multistage centrifugal pumps CR as standard via Grundfos R-series variable speed drives installed at the control panel.**

**\* Optional**

*Optional operation with other Grundfos pumps is applicable. Please refer to Grundfos for further inquiry*

**Application:**

- ❑ Pressure boosting system for residential, public restroom, multi-storey buildings & other institutions
- ❑ Irrigation of green field, golf courses, parks, agricultural plantations, etc
- ❑ Water supply systems for the food industry
- ❑ Systems for petrochemical, metal industries & pharmaceutical

**Simple operation by setting the operating pressure (set point) at SV via the up/down arrow button. The measured pressure display at the PV (pressure value)**



## Benefits of Multi-R

### 1. Variable Speed

- ❑ Constant pressure enables comfort water usage
- ❑ Eliminate water hammering that damages equipment installed at the pipeline
- ❑ Less operating noise

### 2. Compact and lighter

- ❑ System with smaller tank can be installed at smaller place
- ❑ Easy for installation and logistic

### 3. Built in protection in Variable Speed Drive (VSD)

- ❑ The VSD is equipped with protection against Over current, Over Voltage, Motor Overload, Under Voltage during operation, Ground fault, Sensor fault, low flow and High pressure limit as standard without additional components

### 4. User friendly

- ❑ Setting and adjustment of pressure is much easier by just pressing up or down
- ❑ Pressure display is applicable at the panel keypad
- ❑ Lead lag and timer change over feature built in Multi-R controller

### 5. Solutions

- ❑ Competitive price for a simple full variable speed system
- ❑ Complete booster pump package from pump manufacturer

**Multi-R series with IP54 weatherproof system for operation at outdoor**



## Specifications

### Operating voltage:

- ❑ 3 phase + Neutral 380 to 415VAC 50Hz (0.75kW to 315kW)

### Input HZ tolerance:

- ❑ +/- 5%

### System enclosure class:

- ❑ IP44
- ❑ IP54 outdoor used applicable as optional

### Pumps used:

- ❑ 2 to 4 pumps Grundfos Vertical Multistage CR model as standard
- ❑ Other Grundfos pumps applicable as optional

### Motor used:

- ❑ Grundfos MG motor Efficiency1 for up to 7.5kW
- ❑ Grundfos approved brand for 11kW and above

### Standard manifold material:

- ❑ Galvanized Iron

*\*Optional materials applicable are Stainless steel SS304 (1.4301), Stainless steel 316 (1.4401) and ABS*

### Manifold connection standard:

- ❑ Din flange PN16 for 3" and above
- ❑ Din flange PN25/40 for higher pressure
- ❑ BSP threaded for up to 2 1/2"
- ❑ Other connection applicable as optional

## SYSTEM WARRANTY

All complete Grundfos booster system supplied is accompanied with the certificate of originality. This subjects the supplied booster system to a warranty of 18 months from date of delivery or 12 months from testing & commissioning, whichever is earlier.

