

# Grundfos Compact-R Variable Speed System 50 Hz

The Ideal Alternative To The Conventional Start/Stop System





Grundfos Compact-R variable speed system is designed with two Grundfos vertical multistage centrifugal pumps operating in parallel via Grundfos R-series variable speed drives installed at the control panel.

### Applications:

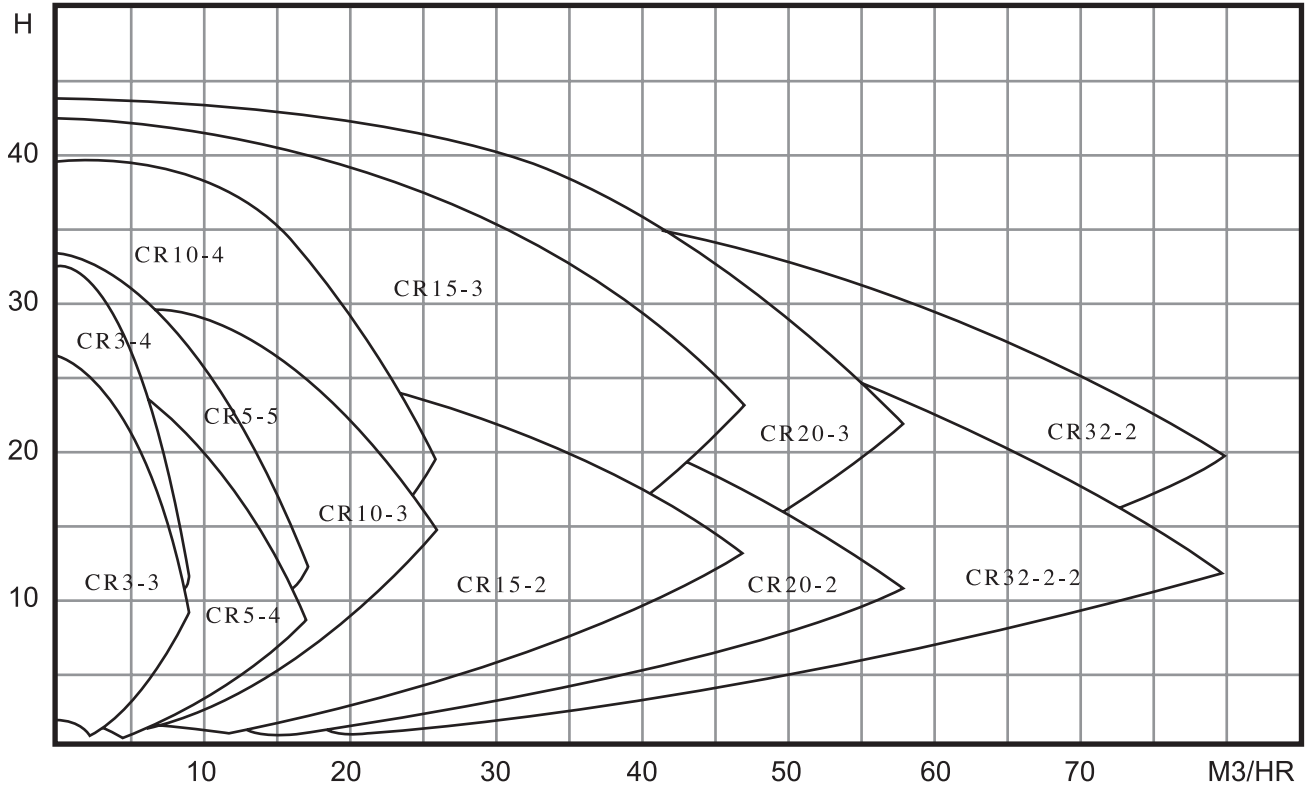
- ❑ Pressure boosting system for residential, public restroom, multi-storey buildings & other institutions.
- ❑ Irrigation of green field, golf courses, parks, agricultural plantations, etc.
- ❑ Water supply system for the food industry
- ❑ Boosting system for petrochemical, metal & pharmaceutical industries

### Benefits of Compact-R

- ❑ Variable speed system
- ❑ Constant pressure
- ❑ Compact system allows for a smaller pump room and space for system installation. Less maintenance on pneumatic tank.
- ❑ Less operating noise
- ❑ User friendly with adjustable pressure setting
- ❑ Compact-R with built-in lead lag and timer changeover features
- ❑ Automatic changeover upon failure of one pump
- ❑ Built in protection in variable speed drive to protect against:
  - Over current
  - Over voltage
  - Motor overload
  - Ground fault
  - High pressure limit
  - Under voltage during operation



### COMPACT-R 2 PUMPS VARIABLE SPEED CURVE(50 Hz)



SYSTEM MODEL COMPACT-R	MOTOR KW EACH	TANK SIZE Litre	MANIFOLD SIZE	MANIFOLD CONNECTION
2 x CR3-4 2 x CR3-5	0.37	18	DN50 / 2"	BSP MALE
2 x CR5-4 2 x CR5-5	0.55 0.75	18	DN50 / 2"	BSP MALE
2 x CR10-3 2 x CR10-4	1.1 1.5	35	DN65 / 2 1/2"	BSP MALE
2 x CR15-2 2 x CR15-3	2.2 3.0	35	DN80 / 3"	PN16 FLANGE
2 x CR20-2 2 x CR20-3	2.2 3.0	35	DN100 / 4"	PN16 FLANGE
2 x CR32-2 2 x CR32-2-2	3.0 4.0	100	DN150 / 6"	PN16 FLANGE

**Note:**

- ❑ Motor efficiency class standard EFF1
- ❑ Standard Manifold Material - Galvanized Iron;  
(Optional SS316/SS304/ABS)

## Benefits of Compact-R Over Conventional Pneumatic System:

### 1. Variable Speed

- Constant pressure enables comfort in water usage
- Eliminates water hammering that cause damage to equipments installed at pipelines
- Less operating noise

### 2. Compact and lighter

- Installation suitable for constraint spaces
- Easy for installation and logistics

### 3. Sensor buffer tank is installed

- With variable speed system, any damage to the sensor buffer tank will cause only the pumps to run continuously at minimum speed. Whereas, for a conventional pneumatic system, hunting will occur in the system, causing rapid start/stop, ultimately damaging motor starters or pump.

### 4. 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

### 5. User friendly

- Settings and adjustment of pressure is done digitally by just pushing the button on the controller while conventional system requires adjustment of the pressure switches individually for each pump while referring to the pressure gauge.

## 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.

