

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.

Application:

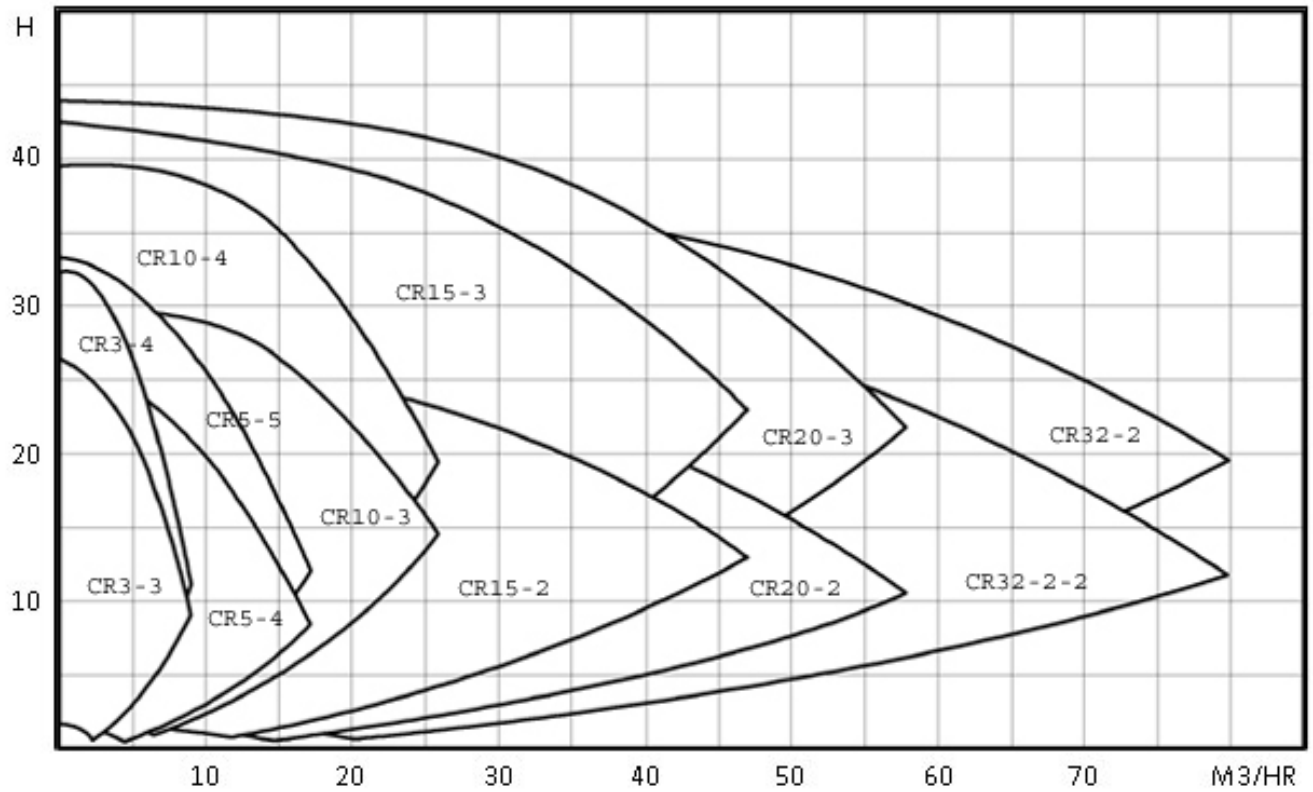
- > Pressure boosting system for residential, public restroom, multi-storey buildings & other institutions.
- > Irrigation of green field, golf courses, parks, agricultural plantations, etc.
- > Water supply systems for the food industry.
- > Systems for petrochemical, metal industries & pharmaceutical.

Benefits of Compact-R

- > Variable speed system
- > Constant pressure
- > Compact system enable smaller pump rooms and space for system installation. Less maintenance on the Pneumatic tank.
- > Less operating noise
- > User friendly with adjustable pressure setting
- > Lead lag and timer change over feature built in Compact-R controller
- > Automatically changeover during failure of pump
- > Built in protection in Variable speed drive to protect against:
 - Over current
 - Over voltage
 - Motor overload
 - Ground fault
 - Under voltage during operation
 - High pressure limit



COMPACT-R 2 PUMPS VARIABLE SEED CURVE(50 Hz)



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

Note:

- > 1.1KW to 7.5KW – EFF 1 Motor
- > Manifold Material
Standard – Galvanised Iron; Optional SS316/SS304/ABS

Benefits of Compact-R over Conventional Pneumatic system:

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 can be installed at smaller place.
- Easy for installation and logistic

3. Sensor buffer tank is installed

- Damaged on sensor buffer tank will only cause the pumps unable to stop but running at minimum speed without star/stop rapidly.
- Sensor buffer tank pre-charge can be checked every 3 to 6 months and air can be pre-charge with hand pumps.

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

- Setting and adjustment of pressure is much easier by just pressing up or down button while conventional system requires adjusting the pressure switch 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.

