

# DOMESTIC WATER CATALOGUE - 2020



be  
think  
innovate

**GRUNDFOS** 

## Our purpose

*“Grundfos is a global leader in advanced pump solutions and trendsetter in water technology. We contribute to global sustainability by pioneering technologies that improve quality of life for people and care for the planet.”*

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# CM BOOSTER

## GRUNDFOS CM DOMESTIC WATER PRESSURE BOOSTER PUMP

*The most robust pump  
designed for water pressure boosting*

The Grundfos CMB with PT is a compact booster pump designed for domestic and light commercial use. The booster unit consists of a Grundfos CM pump with stainless steel hydraulic components and a pressure tank.

The CM pump is supplied with a pressure tank for even distribution of water pressure. When the water demand increases, there will be a pressure drop in the pipeline from the preset level. The pump automatically starts till reaches pre-set cut-off pressure. The systems are available with 24 Lts & 60 Lts pressure tank.



### APPLICATIONS

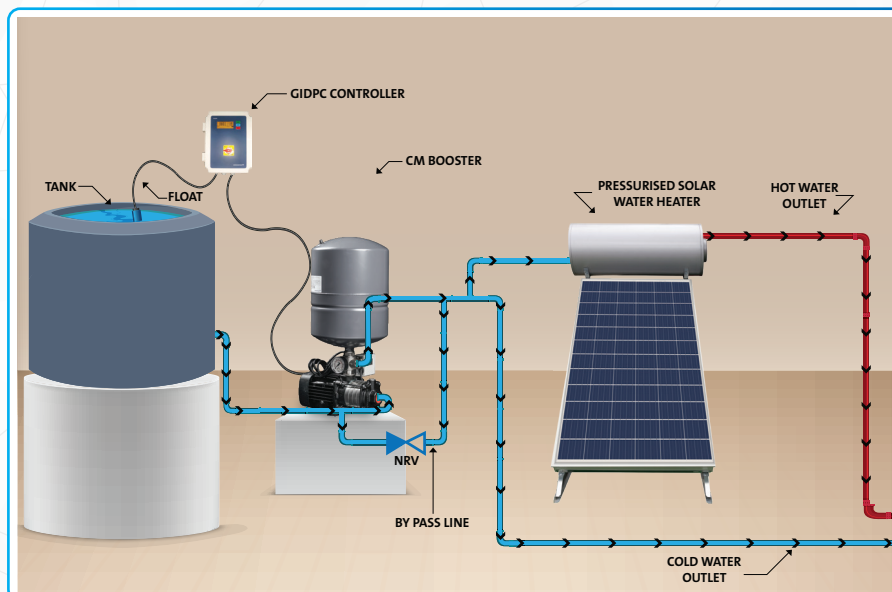
- Mains boosting
- Household water supply
- Boosting from above ground water tanks

### FEATURES

- Silent operation, compact design and highly reliable
- Wide performance range
- Liquid temperature from 20°C upto 120°C(pump only)
- Built-in thermal protection
- F class installation
- 100 Start / Stop Per hour

### CONSTRUCTION

- Electro-coated cast iron parts free from corrosion
- High efficient motor
- Horizontal multistage centrifugal pump
- Long life components are of corrosion and wear resistance stainless steel



**Product Range**

PART CODE	MODEL	PRESSURE TANK	POWER		FLOW	HYDRAULIC DATA							PIPE SIZE (mm)		MRP (₹)
			Kw	Hp		M <sup>3</sup> /hr	0	0.4	0.8	1.2	1.6	2	2.4	SUCTION	
					LPM	0	6.6	13.3	20	26.6	33.3	40			
96939705	CMB1-18	24 Lts	0.3	0.4	Head (Mts)	18	17	16	14.5	12.5	10	7	25	25	36,270
96939707	CMB 1-36	24 Lts	0.5	0.7		36	34.5	32	28.5	24.5	19.5	14	25	25	39,400
96939709	CMB 1-54	24 Lts	0.5	0.7		53.5	51	47	42	35	28	20	25	25	43,510
PART CODE	MODEL	PRESSURE TANK	POWER		M <sup>3</sup> /hr	HYDRAULIC DATA							SUCTION	DELIVERY	MRP (₹)
			Kw	Hp		LPM	0	0.8	1.6	2	2.4	3.2			
96939712	CMB 3-18	24 Lts	0.3	0.4	Head (Mts)	18.5	17.5	16.5	16	15	13	10	25	25	36,100
96939713	CMB 3-27	24 Lts	0.5	0.7		28	26.5	25	24	23	19.5	15	25	25	38,860
96939714	CMB 3-37	24 Lts	0.5	0.7		37	35	33	31	30	25	19	25	25	39,630
96939715	CMB 3-46	24 Lts	0.5	0.7		46	43.5	40	38	35.5	29.5	22	25	25	40,930
96939769	CMB 3-46	60 Lts	0.5	0.7		46	43.5	40	38	35.5	29.5	22	25	25	50,410
96939716	CMB 3-55	24 Lts	0.7	0.9		56	53	49	46.5	43.5	37	27	25	25	43,230
96939770	CMB 3-55	60 Lts	0.7	0.9		56	53	49	46.5	43.5	37	27	25	25	55,670
PART CODE	MODEL	PRESSURE TANK	POWER			M <sup>3</sup> /hr	HYDRAULIC DATA							SUCTION	DELIVERY
			Kw	Hp	LPM		0	1	2	3	4	5	6		
96939719	CMB 5-18	24 Lts	0.5	0.7	Head (Mts)	19	18	17	16	15	13.5	11	32	25	38,760
96939720	CMB 5-28	24 Lts	0.5	0.7		28	26.5	25.5	24	25	19	15	32	25	38,760
96939721	CMB 5-37	24 Lts	0.7	0.9		38	36	34	32	30	26	20	32	25	41,140
96939775	CMB 5-37	60 Lts	0.7	0.9		38	36	34	32	30	26	20	32	25	50,650
96939722	CMB 5-46	24 Lts	0.9	1.2		47.5	45.5	43.5	41.5	38.5	34	26.5	32	25	48,320
96939776	CMB 5-46	60 Lts	0.9	1.2		47.5	45.5	43.5	41.5	38.5	34	26.5	32	25	57,260
96939723	CMB 5-56	24 Lts	1.3	1.7		57.5	56	54	51	47.5	41.5	35	32	25	63,170
96939777	CMB 5-56	60 Lts	1.3	1.7		57.5	56	54	51	47.5	41.5	35	32	25	76,700
PART CODE	MODEL	PRESSURE TANK	POWER		M <sup>3</sup> /hr	HYDRAULIC DATA							SUCTION	DELIVERY	MRP (₹)
			Kw	Hp		LPM	0	3	6	8	10	12			
99300284	CMB 10-32	100 Lts	1.3	1.7	Head (Mts)	32.5	32	30	28	25	21	17	40	40	On Request
On Request	CMB 10-47	100 Lts	1.7	2.3		47	46	43	39.5	35	30	24	40	40	On Request

PART CODE	MODEL	PRESSURE TANK	POWER		FLOW	HYDRAULIC DATA							PIPE SIZE (mm)		MRP (₹)
			Kw	Hp		M <sup>3</sup> /hr	0	0.4	0.8	1.2	1.6	2	2.4	SUCTION	
					LPM	0	6.6	13.3	20	26.6	33.3	40			
96939706	CMB 1-27	24 Lts	0.3	0.4	Head (Mts)	27	26	24	21	18	14.5	10.5	25	25	24,030
96939708	CMB 1-45	24 Lts	0.5	0.7		44.5	43	39.5	35	30	24	17	25	25	26,120

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# CMB with PM1

The Grundfos CMB with PM1 is a compact booster pump designed for domestic and light commercial use. The booster unit consists of a Grundfos CM pump with stainless steel hydraulic components and a PM1 Pressure Manager. The Pressure Manager allows the pump to start and stop automatically according to demand and protects the pump from drying up.



## APPLICATIONS

- Mains boosting
- Household water supply
- Boosting from above ground water tanks

## FEATURES

- **Robust design**  
All the movable parts are made of high quality, corrosion-resistant stainless steel to ensure the longest life possible.
- **User-friendly interface**  
The pump features a user-friendly interface with LED indicators displaying power status, pump running, and alarm indication.
- **Protective features**  
The pump incorporates a range of protective features such as dry run protection, thermal overload protection, cycling alarm to protect the pump and ensuring a long life.
- **Easy installation**  
The booster unit is a compact solution, which makes it suitable for most installations. Just connect the inlet and outlet, and you have a fully operational booster unit.
- **Integrated non-return valve**  
Non-return valve for backflow prevention.

### Product Range

PART CODE	MODEL	PM 1	POWER		FLOW	HYDRAULIC DATA							PIPE SIZE (mm)		MRP (₹)
			Kw	Hp		M³/hr	0	0.4	0.8	1.2	1.6	2	2.4	SUCTION	
					LPM	0	6.6	13.3	20	26.6	33.3	40			
97530099	CMB 1-36	1.5	0.5	0.7	Head (Mts)	36	34.2	32	28.5	24.5	19.5	14	25	25	37,300
PART CODE	MODEL	PM 1	POWER		M³/hr	HYDRAULIC DATA							SUCTION	DELIVERY	MRP (₹)
			Kw	Hp		0	0.8	1.6	2	2.4	3.2	4			
97530126	CMB 3-27	1.5	0.5	0.7	Head (Mts)	28	26.5	25	24	23	19.5	15	25	25	36,620
97530135	CMB 3-37	1.5	0.5	0.7	Head (Mts)	37	35	33	31	30	25	19	25	25	37,300
97530144	CMB 3-46	2.2	0.5	0.7	Head (Mts)	46	43.5	40	38	35.5	29.5	22	25	25	39,140
PART CODE	MODEL	PM 1	POWER		M³/hr	HYDRAULIC DATA							SUCTION	DELIVERY	MRP (₹)
			Kw	Hp		0	1	2	3	4	5	6			
97687683	CMB 5-28	1.5	0.5	0.7	Head (Mts)	28	26.5	25.5	24	22	19	15	32	25	36,710
97687685	CMB 5-37	2.2	0.7	0.9	Head (Mts)	38	36	34	32	30	26	20	32	25	39,280
97530169	CMB 5-46	2.2	0.9	1.2	Head (Mts)	47.5	45.5	43.5	41.5	38.5	34	26.5	32	25	44,190

PART CODE	MODEL	PM 1	POWER		FLOW	HYDRAULIC DATA							PIPE SIZE (mm)		MRP (₹)
			Kw	Hp		M³/hr	0	0.4	0.8	1.2	1.6	2	2.4	SUCTION	
					LPM	0	6.6	13.3	20	26.6	33.3	40			
97530090	CMB 1-27	1.5	0.3	0.4	Head (Mts)	27	26	24	21	18	14.5	10.5	25	25	24,250
97530108	CMB 1-5	2.2	0.5	0.7	Head (Mts)	44.5	43	39.5	35	30	24	17	25	25	26,490

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# CM Twin Booster

The Grundfos CM Twin Booster set consists of two identical Grundfos CM pumps connected in parallel and mounted on a common base frame and a control cabinet incorporating motor protection and controller

## APPLICATIONS

- Large houses
- Domestic buildings
- Cottages and villas
- Midsize Hotels
- Midsize Hospitals
- Schools

## FEATURES

- Non self priming, horizontal, multistage centrifugal pump
- Enclosure Class: IP 54
- Insulation Class: F
- Automatic start/stop upto 100 times/hour
- Quiet operation
- Paint application by electrophoresis gives the motor and pump C.I parts, excellent corrosion resistance
- Simple control and alteration between pumps, dry running protection, built in relay for ensuring constant and steady operation

## Product Range

PART CODE	MODEL	POWER (each pump)		2 PUMP Flow		HYDRAULIC DATA							MANIFOLD SIZE (mm)		MRP (₹)
		Kw	Hp	M <sup>3</sup> /hr	LPM	0	0.8	1.6	2.4	3.2	4	4.8	SUCTION	DELIVERY	
97976148	CM 1-3 TWIN	0.3	0.4	Head (Mts)	27	26	24	21	18	14.5	10.5	50	50	1,30,500	
97976163	CM 1-4 TWIN	0.5	0.7		36	34.5	32	28.5	24.5	19.5	14	50	50	1,38,770	
97976165	CM 1-5 TWIN	0.5	0.7		44.5	43	39.5	35	30	24	17	50	50	1,37,750	
97976167	CM 1-6 TWIN	0.5	0.7		53.5	51	47	42	35	28	20	50	50	1,40,920	
PART CODE	MODEL	Kw	Hp	M <sup>3</sup> /hr	0	1.6	3.2	4	4.8	6.4	8	SUCTION	DELIVERY	MRP (₹)	
				LPM	0	26.6	53.2	66.6	80	106.6	133.2				
97952476	CM 3-4 TWIN	0.5	0.7	Head (Mts)	37	35	33	31	30	25	19	50	50	1,45,750	
97939873	CM 3-5 TWIN	0.5	0.7		46	43.5	40	48	35.5	29.5	22	50	50	1,50,440	
97952475	CM 3-6 TWIN	0.7	0.9		56	53	49	46.5	43.5	37	27	50	50	1,46,740	
PART CODE	MODEL	Kw	Hp	M <sup>3</sup> /hr	0	2	4	6	8	10	12	SUCTION	DELIVERY	MRP (₹)	
				LPM	0	33.2	66.6	100	133.2	166.6	200				
97919519	CM 5-3 TWIN	0.5	0.7	Head (Mts)	28	26.5	25.5	24	22	19	15	50	50	1,48,110	
97924082	CM 5-4 TWIN	0.7	0.9		38	36	34	32	30	26	20	50	50	1,42,100	
97924086	CM 5-5 TWIN	0.9	1.2		47.5	45.5	43.5	41.5	38.5	34	26.5	50	50	1,56,800	
97934433	CM 5-6 TWIN	1.3	1.7		57.5	56	54	51	47.5	41.5	33	50	50	1,85,140	
PART CODE	MODEL	Kw	Hp	M <sup>3</sup> /hr	0	6	12	16	20	24	28	SUCTION	DELIVERY	MRP (₹)	
				LPM	0	100	200	266.6	333.2	400	466.7				
97917472	CM 10-2 TWIN	1.3	1.7	Head (Mts)	32.5	32	30	28	25	21	17	75	75	2,42,560	
97939823	CM 10-3 TWIN	1.7	2.3		47	46	43	39.5	45	30	24	75	75	2,78,290	

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz



## TWIN SYSTEM INCLUDES

- Suction and discharge manifolds
- Isolating valves
- Non- return valves
- Pressure guage
- Pressure switch
- Grundfos Controller CS 201 (1Phase)

## CONSTRUCTION

- Pump Shaft : AISI 304
- Chamber : AISI 304
- Impeller : AISI 304
- Suction Chamber : Cast iron
- Manifold : Ms CED coated

# CM with PM TWIN

The Grundfos CM with PM TWIN consists of two identical Grundfos CM pumps connected in parallel and works as duty & standby with cascade feature, mounted on a common base frame.

It comes with a intelligent controller PM TWIN which controls both the pumps and also protects the system



## APPLICATIONS

- Domestic buildings
- Cottages and villas
- Horticulture & Gardening

## SYSTEM FEATURES

- Non self priming, horizontal, multistage centrifugal pump
- Enclosure Class: IP 54
- Insulation Class: F
- Automatic start/stop upto 100 times/hour
- Quiet operation
- Max liquid temperature : 60° C
- Start Pressure : 1.5 to 5 Bar

## CONTROLLER FEATURES

- ALL-IN-ONE Grundfos Pressure controller - PM TWIN
- USER Friendly interface - LED indicator showing
  - Power On
  - Pumps running
  - Alarm Indication
- Flexible Power Supply
  - PM TWIN can be powered by a generator or other alternative power supplies.
- Protective Functions - PM TWIN protects both the pumps and the system
  - Dry-running protection
  - Cycling alarm
  - Continuous operating time (30 min)\*

## Product Range

PART CODE	MODEL	POWER		FLOW m <sup>3</sup> /hr	HYDRAULIC DATA						PIPE SIZE (MM)		MRP (₹)	
		Kw	Hp		LPM	0	0.4	0.8	1.2	1.6	2	2.4		SUCTION
				0		6.6	13.3	20	26.6	33.3	40			
99845239	CM with PM TWIN 2 X 3-4	0.5	0.7	Head (Mts)	37	35	33	31	30	25	19	25	25	88,260
99845245	CM with PM TWIN 2 X 3-5	0.5	0.7		46	43.5	40	38	35.5	29.5	22	25	25	91,370
99845250	CM with PM TWIN 2 X 3-6	0.7	0.9		56	53	49	46.5	43.5	37	27	25	25	96,340
PART CODE	MODEL	POWER		m <sup>3</sup> /hr							DELIVERY	MRP (₹)		
		Kw	Hp		LPM	0	1	2	3	4			5	6
99845240	CM with PM TWIN 2 X 5-4	0.7	0.9	Head (Mts)	38	36	34	32	30	26	20		32	25
99845247	CM with PM TWIN 2 X 5-5	0.9	1.2		47.5	45.5	43.5	41.5	38.5	34	26.5	32	25	98,370
On Request	CM with PM TWIN 2 X 5-6	1.3	1.7		57.5	56	54	51	47.5	41.5	33	32	25	On Request

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

## TWIN SYSTEM INCLUDES

- Discharge manifold
- Isolating valves
- Non- return valves
- Pressure guage
- Pressure Manager TWIN
- Base Frame

## PRESSURE TANK INSTALLATION

PM TWIN can be optimised for operation with a large external pressure tank by enabling the pressure functionality. The function is easily enabled through DIP switch.

$$P(\text{stop}) = P(\text{start}) + 1 \text{ bar}$$

This option significantly reduces the number of operating hours of pumps in installations with a pressure tank



# SCALA2

The Grundfos SCALA2 is a fully integrated water booster pump delivering perfect water pressure in all taps at all times - even with multiple taps and showers running at the same time. It packs a pump, motor, tank, sensor, drive and non-return valve into one compact unit. With its intelligent pump control, SCALA2 automatically adjusts performance to both inlet pressure and water consumption in the home. SCALA2 has a sound level of 47 dB (A) in typical use and thereby offers one of the lowest noise levels of any booster on the market.



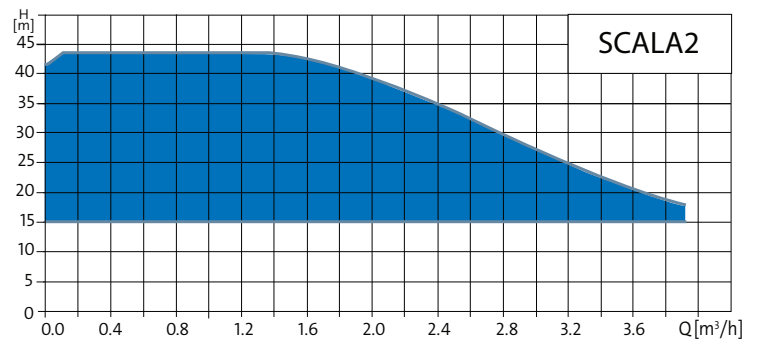
## APPLICATIONS

- Pressure Boosting from city mains, roof tank, break tank and ground tank.

## FEATURES

- **Perfect water pressure - in all taps at all times**  
SCALA2 has an intelligent pump control that always ensures constant pressure by detecting any variation in water and inlet pressure. It immediately adjusts its operation to deliver the required discharge pressure. SCALA2 will maintain sufficient water pressure in houses with up to three floors and eight taps.
- **Low noise**  
SCALA2 has a water cooled, high-efficiency permanent magnet motor that ensures a low noise operation at 47 dB(A) in typical use. SCALA2 is a modern dishwasher.
- **Compact**  
SCALA2 is a fully integrated solution with a pump, tank, sensor, drive and non-return valve in one unit that will fit in any existing installation and compact spaces like a kitchen cupboard. It weighs only 10 kg and is easy to handle.
- **Robust and reliable**  
SCALA2 offers a long lifetime, even installed in outdoor condition. It's made in quality materials and has protective measures like dry-run protection and anti-cycling.
- **Easy installation and self-priming**  
SCALA2 is an all-in-one solution designed for fast and easy installation. All you need to do is connect the pipes, prime the pump and connect to power. It has a large priming hole, which makes it easy to prime.
- **Energy efficient**  
SCALA2 features a high efficient permanent magnet motor using only 550W (Power input max (P1)) and has a power consumption of only 270W in daily use (3 bar/12 l/min).

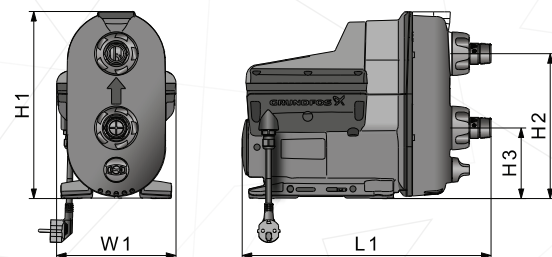
## PERFORMANCE CURVE



## OPERATING CONDITIONS

- **Max. ambient temperature** : 55°C
- **Max. liquid temperature** : 45°C
- **Max. system pressure** : 10 bar
- **Max. inlet pressure** : 6 bar
- **Max. head** : 45 mts
- **Pumped liquid** : Clean fresh water and chlorinated water <300 ppm

## Dimensions [mm]



## Product Range

MODEL	POWER		H1	H2	H3	W1	L1	WEIGHT Kg	MRP (₹)
	Kw	Hp							
SCALA2	0.55	0.7	302	234	114	193	403	10	56,340

# CME Booster

The Grundfos CME Booster is a compact, frequency (VFD) controlled booster system for a large variety of domestic and light commercial applications. The CME Booster ensures great comfort by providing constant pressure, regardless of variations in demand or inlet pressure. In addition, the CME Booster makes it possible to adjust the water pressure just by the touch of a button. Also, the CME Booster is very easy to install. Once the booster has been connected to the pipeline, it is simply a matter of putting the plug into a socket, and the system is operational.



## APPLICATIONS

- Large houses
- Domestic buildings
- Cottage and villas
- Midsize Hotels
- Midsize Hospitals
- Schools

## FEATURES

- **Constant pressure**  
The CME Booster always provides constant pressure.
- **Robust design**  
The pump is made of materials that ensure excellent corrosion resistance. The pump housing, shaft and impeller are made of high quality stainless steel, while the rest of the pump is electrophoretically painted.
- **Energy saving**  
The frequency controller of the CME Booster, matches the power consumption with the required water output, which can save users up to 40% power.
- **Fully equipped**  
The CME Booster has a five-way fitting that encompasses a non-return valve, a pressure sensor, a pressure gauge and a diaphragm tank connection.
- **Low noise**  
The CME Booster operates quietly at around 55 decibels, which is significantly silent than most pumps currently available in the market.
- **User-friendly interface**  
The control panel on the pump features a user-friendly interface with LED indicators showing operational status and feather touch buttons for pressure adjustment.
- **Dry-running protection**  
The CME Booster automatically stops if there is no water from the incoming pipeline
- **Thermal overload protection**  
The CME Booster is effectively protected against any accidental overload by built-in thermal protection.

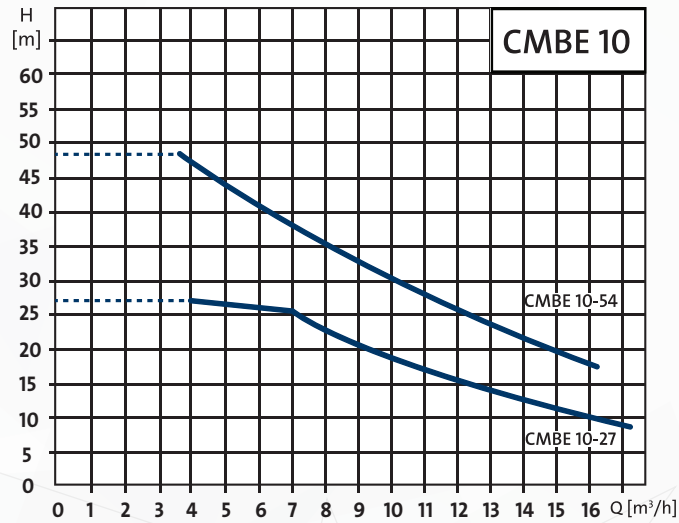
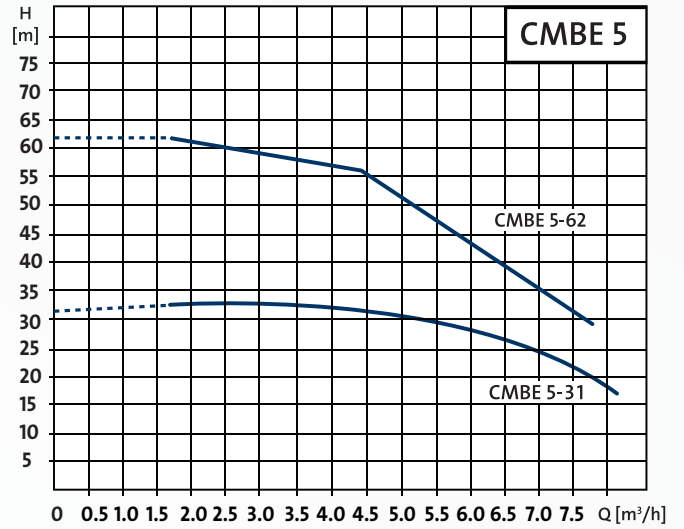
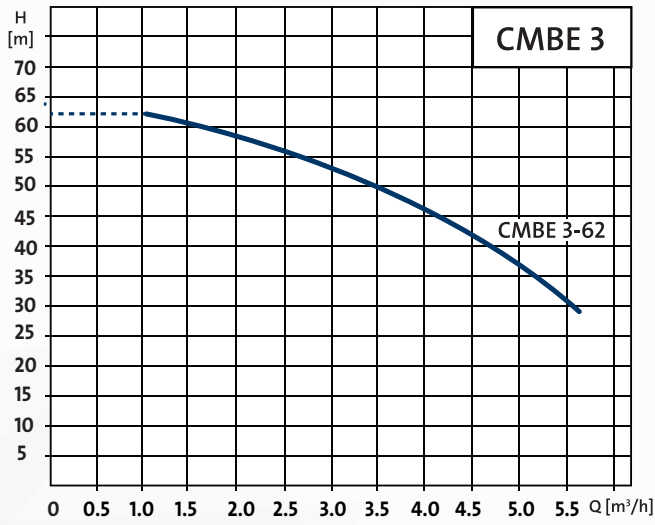


The control panel on the pump terminal box makes it possible to change the set-points manually. The operating condition of the pump is indicated by the Grundfos Eye on the control panel.

## Operating conditions

- **System pressure**  
Max. 10 bar
- **Liquid temperature**  
0 °C to +60 °C
- **Ambient temperature**  
Max. +55 °C
- **Relative air humidity**  
Max. 95 %
- **Mains voltage**  
1 x 200 -240V 50/60Hz
- **Enclosure class**  
IP55
- **Sound pressure level**  
50-65 dB(A)
- **Approvals and markings**  
CE, EAC, UL, WRAS, ACS, NSF61

## PERFORMANCE CURVE



### Product Range

PART CODE	MODEL	POWER		PIPE SIZE (mm)		MRP (₹)
		(KW)	(HP)	SUCTION	DELIVERY	
98374693	CMBE 3-62	1.1	1.5	25	25	1,07,320
98374695	CMBE 5-31	1.1	1.5	40	25	1,31,210
98374696	CMBE 5-62	1.5	2	40	25	1,42,320
98382189	CMBE 10-27	1.1	1.5	40	40	1,47,380
98382190	CMBE 10-54	1.5	2	40	40	1,58,630

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# CMBE TWIN Booster

The Grundfos CMBE TWIN Booster is a compact two-pump booster system for water supply in domestic and light commercial applications that are easy to install and commission. The integrated speed controller allows the CMBE Booster to maintain constant pressure in the pipeline. A pressure sensor monitors the changes in water consumption and will signal the speed controller to change the motor speed. This way, performance is adjusted automatically. The cascade control ensures that the performance of the CMBE Booster is automatically adapted to the consumption pattern by switching pumps on or off between 2 pumps, or by changing the speed of the pumps. The system thus runs energy-efficiently with a limited number of pumps.



## APPLICATIONS

- Large houses
- Domestic buildings
- Cottage and villas
- Midsize Hotels
- Midsize Hospitals
- Community hostels
- Schools
- Polyhouse & Green House farming

## FEATURES

- **Constant Pressure**  
The integrated speed controller keeps a constant pressure in the pipe system.
- **Cascade Control**  
Cascade control ensures that the performance of the booster system is automatically adapted to the Consumption by switching between the pumps on/off.
- **Pump Alternation**  
Pump alternation ensures that the operating hours are distributed evenly on the pumps over time.
- **Dry-running Protection**  
The system will stop automatically if there is no water from the incoming pipeline.
- **Easy Installation**  
The booster is easy to install when it is connected to pipes. It is a matter of Plug & Play.

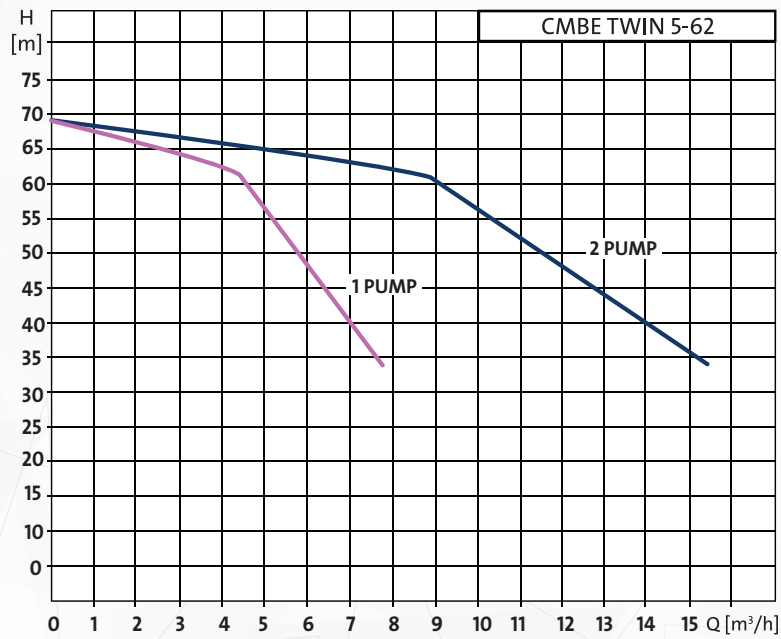
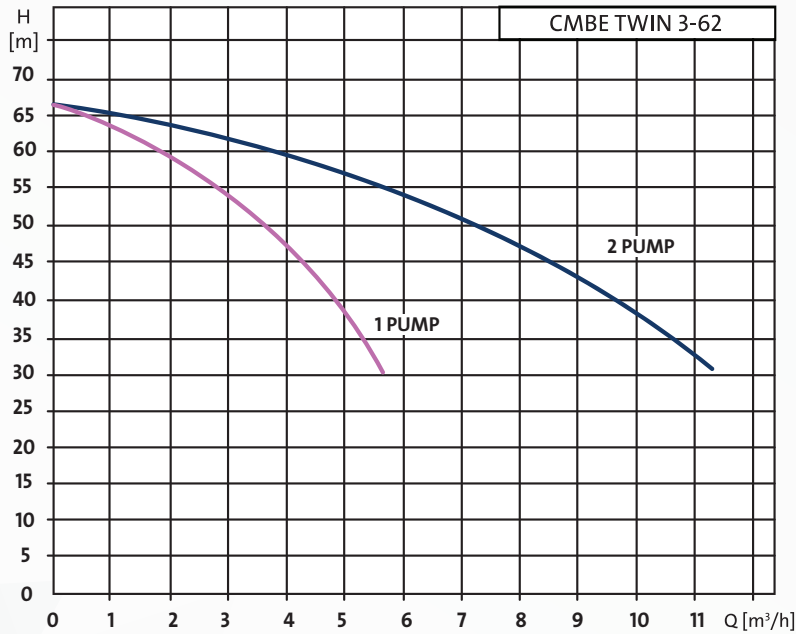
## OPERATING CONDITIONS

- **System pressure**  
Max. 10 bar
- **Liquid temperature**  
0 °C to +60 °C
- **Ambient temperature**  
Max. +55 °C
- **Relative air humidity**  
Max. 95 %
- **Mains voltage**  
1 x 200-240V 50/60Hz
- **Enclosure class**  
IP55
- **Sound pressure level**  
50-65 dB(A)
- **Approvals and markings**  
CE, EAC, UL, WRAS, ACS, NSF61



The control panel on the pump terminal box makes it possible to change the set-points manually. The operating condition of the pump is indicated by the Grundfos Eye on the control panel.

## PERFORMANCE CURVE



### Product Range

PART CODE	MODEL	POWER		(RECOMMENDED)* MANIFOLD PIPE SIZE		MRP ( ₹ )
		EACH PUMP		SUCTION	DELIVERY	
		(KW)	(HP)	(mm)	(mm)	
99219420	CMBE Twin 3-62	1.1	1.5	50	50	2,27,240
99219423	CMBE Twin 5-62	1.5	2	75	50	2,97,570

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

\* Manifold not part of system supply

The Grundfos UPA range is a compact domestic pressure booster, that makes the required water pressure available at tap, showers and other tapping points in residential buildings and private homes with ease.

The new UPA range completes a full-line product offering (hot & cold water) for pressure booster.



## APPLICATIONS

- Domestic boosting with inlet pressure (0.1 bar) for single shower, taps, gas heaters and washing machines.
- Inlet boosting to the solar tank.  
Ideal for single bathroom application without special shower gadgets

## FEATURES

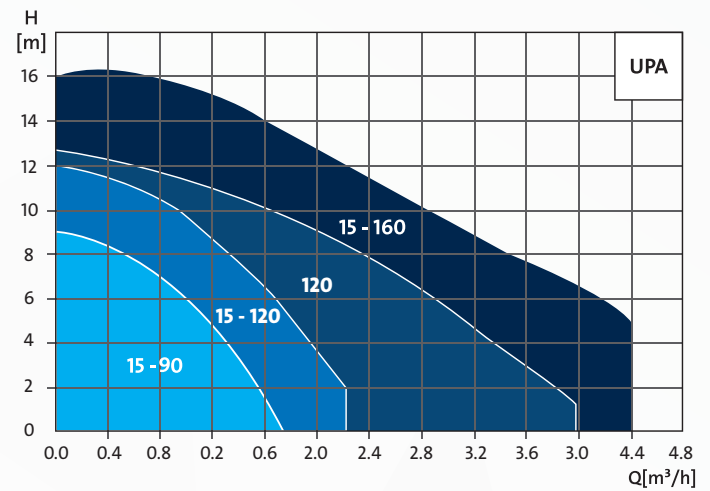
- High comfort - very low noise
- High energy efficiency - low energy bill
- Always has the required water pressure
- Maximum reliability and robustness
- Easy installation

## TECHNICAL DATA

MODEL	UPA15-90	UPA15-120	UPA15-160	UPA 120	FLOW SWITCH FOR UPA 120
NEW PN	99539049	On Request	On Request	99553567	91760166
HEAD MAX. (m)	9	12	16	12	
FLOW MAX (m <sup>3</sup> /h)	1.8	2.2	4.4	4	
PRESSURE (bar)	6	10	10	10	
LIQUID TEMPERATURE	+2°C to +95°C	+2°C to +95°C	+2°C to +95°C	+2°C to +95°C	
POWER RANGE (P1 W)	120W	200W	180W	250W	
MOTOR TECHNOLOGY	Induction	Induction	ECM	Induction	
OPERATION MODE	Manual/Auto	Auto	Auto	Manual/Auto	
PORT TO PORT (mm)	160	200	203	180	
PUMP HOUSING	Cataphoresis coated cast iron	Cataphoresis coated cast iron	Cataphoresis coated cast iron	Cataphoresis coated cast iron	
FLOW SWITCH	Integrated	Integrated	External	External	
MRP (₹)	9,050	On Request	On Request	13,000	1,510



## PERFORMANCE CURVE



# SmART SUB

Grundfos SmART SUB Series, Single Phase and Three Phase Horizontal open well Submersible Pumps are designed for under water application, and therefore, there is no need for priming or a foot valve. These pumps are suitable for open well or tanks where there are wide fluctuations in water level.



## APPLICATIONS

- Sump to Over Head Tank Filling
- Farms
- Fountains
- Industrial and rural water supply
- Gardening
- Landscaping

## FEATURES

- Carbon Radial bush bearing
- SS Thrust bearing and Carbon pads at both Drive End and Non-drive End to take care of axial thrust load
- PVC insulated 3 core 1.5mm motor cable
- The Anticorrosive coating on the Cast Iron parts - free from rust and corrosion
- Winding overhang protector
- Neck ring in the volute casing - High Efficiency
- Locally rewindable and repairable
- Supplied with Starter Box for 1 phase Pumps
- Designed for continuous duty S1 (3 phase only)
- Supplied with L bend stainer & Cable joining kit

## PUMPED LIQUID

- Clean, thin, non-aggressive, non-explosive, clear cold, fresh water without abrasives, solid particles or fibers.

## CONSTRUCTION

- Impeller - Noryl & Cast Iron ( CED Coated )
- Shaft - SS, Pump body - SS & Thrust ring-SS
- Radial Bearing - Carbon
- Mechanical Seal - Ceramic vs. Graphite
- Thrust bearing - SS / Carbon
- Volute casing - Cast Iron

## Product Range

PART CODE	MODEL	PHASE	KW	HP	Pipe Size (mm)		HYDRAULIC DATA										MRP ( ₹ )						
					Suction	Discharge	Flow (LPH)	Head (Mtr)	Flow (LPH)	Head (Mtr)	Flow (LPH)	Head (Mtr)	Flow (LPH)	Head (Mtr)	Flow (LPH)	Head (Mtr)		Flow (LPH)	Head (Mtr)	Flow (LPH)	Head (Mtr)		
96939851	SmART SUB HOS 1 - 0.37	1	0.37	0.5	25	25	Flow (LPH)	7200	6600	5100	3900	2400	600								14,790		
							Head (Mtr)	12	14	16	18	20	21										
96939852	SmART SUB HOS 1 - 0.75	1	0.75	1	25	25	Flow (LPH)	7800	7500	6900	6000	4800	3600	2400	1200							16,620	
							Head (Mtr)	12	15	18	21	24	27	30	32								
96939853	SmART SUB HOS 2 - 0.75	1	0.75	1	50	50	Flow (LPH)	21000	18000	15000	10800	3000										18,120	
							Head (Mtr)	6	9	12	15	18											
96939854	SmART SUB HOSD 1- 1.1	1	1.1	1.5	32	25	Flow (LPH)	8400	7670	7000	6230	5280	4360	3370	1730							22,140	
96939855	SmART SUB HOTD 1 - 1.1	3					Head (Mtr)	12	16	19	22	26	29	32	36								
96939856	SmART SUB HOSD 1.5 - 1.5	1	1.5	2	40	40	Flow (LPH)	11260	11040	10020	8750	7330	6450	5300	3780	2550						23,830	
96939857	SmART SUB HOTD 1.5 - 1.5	3					Head (Mtr)	19	21	27	33	39	43	45	48	50							
96939858	SmART SUB HOT 1.5 - 2.2	3	2.2	3	40	40	Flow (LPH)	19860	19620	19440	17580	15600	11940	8520								33,580	
							Head (Mtr)	5	10	16	21	26	31	36									
96939859	SmART SUB HOT 2 - 3.7	3	3.7	5	50	50	Flow (LPH)	33060	32160	29340	25740	22440	18420	13500	10680	7560						35,940	
							Head (Mtr)	8	10	15	20	24	28	32	34	36							
96939860	SmART SUB HOT 2 - 5.5	3	5.5	7.5	65	50	Flow (LPH)	39780	38640	36720	33660	30840	27120	23640	19440	13320	6120					42,890	
							Head (Mtr)	11	15	20	25	30	35	40	45	50	54						
96939861	SmART SUB HOT 2.5 - 5.5	3	5.5	7.5	80	65	Flow (LPH)	61020	56220	50520	46380	40860	33720	25860	18420							44,080	
							Head (Mtr)	22	24	26	29	31	33	35	37								
96939862	SmART SUB HOT 2.0 - 7.5	3	7.5	10	65	50	Flow (LPH)	42120	40280	38430	35340	32160	28740	24660	22220	13740						47,650	
							Head (Mtr)	10	15	20	25	30	35	40	45	55							
96939863	SmART SUB HOT 2.5 - 7.5	3	7.5	10	80	65	Flow (LPH)	70260	66990	61860	55620	47400	38700	22140								48,860	
							Head (Mtr)	27	29	31	33	35	37	39									

For 1 Phase Voltage is 220V  
For 3 Phase Voltage is 415V

The Grundfos JP is a self-priming, single-stage centrifugal jet pump ideal for transferring water from wells or ground tanks. It has an excellent suction capacity and is designed for long, trouble-free operation. The built-in ejector with guide vanes ensures optimum self-priming properties. JP is small and compact with a lifting handle that makes the pump handy and easy to carry.



## APPLICATIONS

- Water Transfers from tanks below and above the ground level.
- For treated water transfer

## FEATURES

- **Self-priming**  
With a suction-lift of up to 8 metres, this pump is ideal to transfer water from a well or ground tanks. This enables the JP to serve a large variety of installations.
- **Robust design**  
The materials of the pump are lightweight and ensure excellent corrosion resistance.
- **Thermal overload protection**  
JP is effectively protected against any accidental overload by built-in thermal and current protection. This means that no additional motor protection is required.

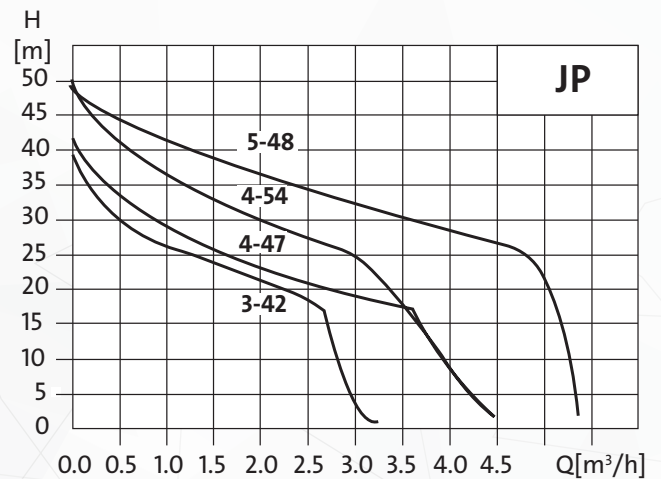
### Product Range

PART CODE	MODEL	POWER		CONNECTIONS		MRP (₹)
		Kw	Hp	INLET	OUTLET	
99458803	JP 3-42	0.45	0.60	G1"	G1"	On Request
99458804	JP 4-47	0.60	0.80	G1"	G1"	On Request
99458805	JP 4-54	0.75	1.00	G1"	G1"	On Request
99458806	JP 5-48	1	1.36	G1"	G1"	On Request

## TECHNICAL DATA

- **System pressure** : 6 bar max.
- **Suction lift** : 8 m max.
- **Liquid temperature** : 0° C to +60 °C
- **Ambient temperature** : 55 °C max.
- **Relative air humidity** : 95% max.
- **Enclosure class** : IP44
- **Approvals and markings** : CE

## PERFORMANCE CURVE





# GRUNDFOS SB

The Grundfos SB pump is a submersible booster pump, designed for pumping clean water for domestic and rainwater applications. The SB pump is built of high-quality composite and stainless steel materials that are resistant to corrosion. The SB is ideal for operation in a well or ground tanks, as it easily prevents solid particles from entering the pump. The pump comes with float switch, which ensures the user a convenient experience with automatic start/stop operation and provides dry running protection. SB pumps are available with an integrated suction strainer.



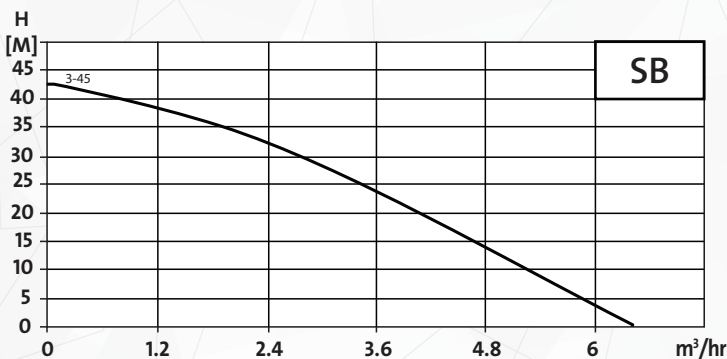
## APPLICATIONS

- Shallow wells
- Rainwater collection in Underground Tanks
- Boosting tanks

## FEATURES

- **Noiseless operation**  
The SB pump emits no noise when submerged and is therefore a noiseless alternative to non-submersible pumps.
- **Robust design**  
The SB pump is built of composite and stainless steel materials, which are resistant to corrosion.
- **Thermal overload protection**  
Prevents accidental overload by built-in thermal protection.
- **Dry running protection**  
The SB pump is protected from dry running, by a float.
- **Automatic operation**

## PERFORMANCE CURVE



### Product Range

PART CODE	MODEL	POWER		MAX INSTALLATION DEPTH (MTS)	OUTLET PIPE SIZE	WEIGHT (KG)	MRP (₹)
		KW	HP				
97686705	SB3-45 A 230V 50Hz 15m	1.05	1.4	10	G 1"	9.69	38,750

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

## OPERATING CONDITIONS:

- **Maximum particle size**  
1 mm
- **Ambient temperature**  
Max +50 °C
- **Liquid temperature**  
0 to +40 °C
- **pH-value range**  
4-9
- **Mains voltage**  
1 x 220-240 V, 50 Hz
- **Insulation class**  
IP68
- **Enclosure class**  
B
- **Max installation depth**  
10m
- **Approvals and markings**  
EAC, CSA, C-tick

# GRUNDFOS SB HF

Grundfos SB HF is a submersible pump designed for water supply and pressure boosting in domestic and rainwater applications. The pump is built from stainless-steel materials resistant to corrosion. The double mechanical shaft seal ensures trouble free operation. The maximum installation depth is 15 m below the water level, SB HF has an inlet strainer placed at the bottom of the pump. The stainless-steel strainer has 1 mm mesh to prevent large particles from entering the pump housing. The motor is placed in the pump sleeve and it is cooled by the pumped liquid.

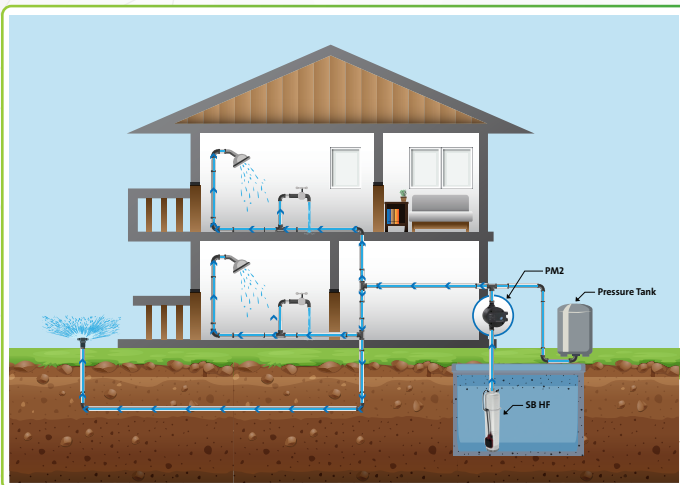


## APPLICATION

- Shallow wells
- Rainwater collection in tanks
- Boosting of public water collected in break tanks

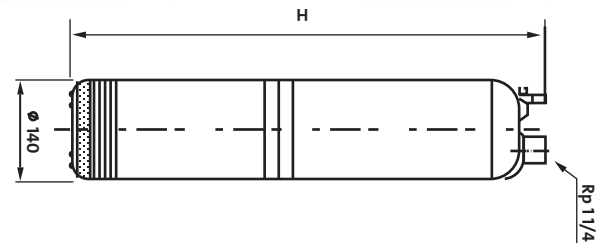
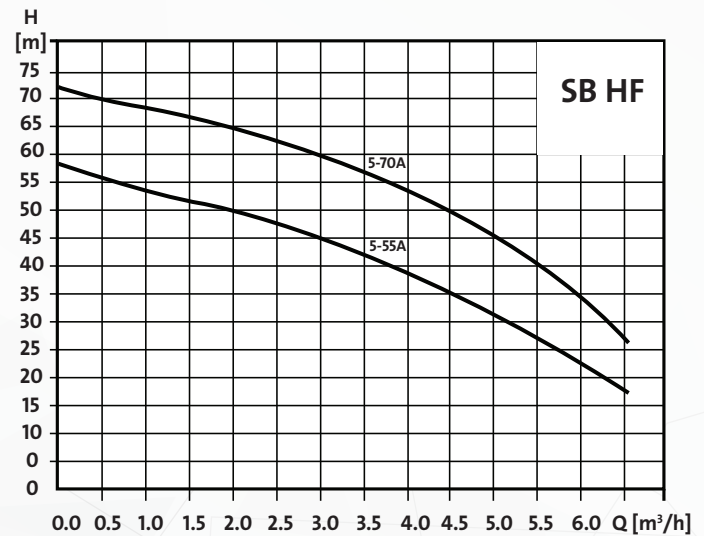
## FEATURES

- **High reliability**  
All hydraulic parts in stainless steel are resistant to corrosion. Furthermore, the pump has a stainless-steel strainer which prevents large particles from entering the pump housing.
- **Integrated protection**  
Built-in thermal protection immediately stops the pump in the case of over-heating. The pump automatically restarts when it has returned to the normal temperature.



## OPERATING CONDITIONS

- Liquid temperature : 0° - 40° [C]
- Ambient Temperature : max 50° C
- pH : 4-9
- Particles size : < 1mm
- Sand : < 0.05 g/l
- Max number of start/stop : 30 per hour
- Max instalation depth : 15 m
- Insulation class : IP68
- Mains voltage : 1 x 230 V, 50 Hz



## Product Range

PART CODE	MODEL	POWER		CURRENT	DIMENSIONS		OUTLET PIPE SIZE	WEIGHT (kg)	MRP ( ₹ )
		KW	[HP]	[A]	[mm]	[mm]			
99459334	SB HF 5-55	1	1.36	7	606	140	G 1 1/4"	20	39,700
99459336	SB HF 5-70	1.2	1.6	9.1	626		G 1 1/4"	22.4	44,990

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

The Grundfos SP is a 4-inch multi-stage submersible pump, designed for operation in boreholes. SP is made of corrosion resistant stainless steel, offering high operating reliability regardless of the application. The SP offers high efficiency along with high resistance to sand and other abrasive particles.



### APPLICATIONS

- Water lifting from borewell
- Water transfer from ground tank

### FEATURES

- **100% high-grade stainless steel inside and outside**  
As standard, all Grundfos SP pumps are made entirely of stainless steel DIN 1.4301 (AISI 304), where particularly aggressive liquids are encountered. The SP pumps are available in extra high grade stainless steel DIN 1.4401 (AISI 316), in the case of severe conditions, DIN 1.4539 (AISI 904 L) providing maximum reliability.
- **Bearings with sand channels**  
All bearings are water-lubricated and are squared shape, enabling sand particles, if any, to leave the pump together with the pumped liquid.
- **Inlet strainer**  
The pump is mounted with an inlet strainer preventing particles over a certain size from entering the pump.
- **Non-return valve**  
SP pumps have a built-in non-return valve preventing backflow in connection with pump stoppage.

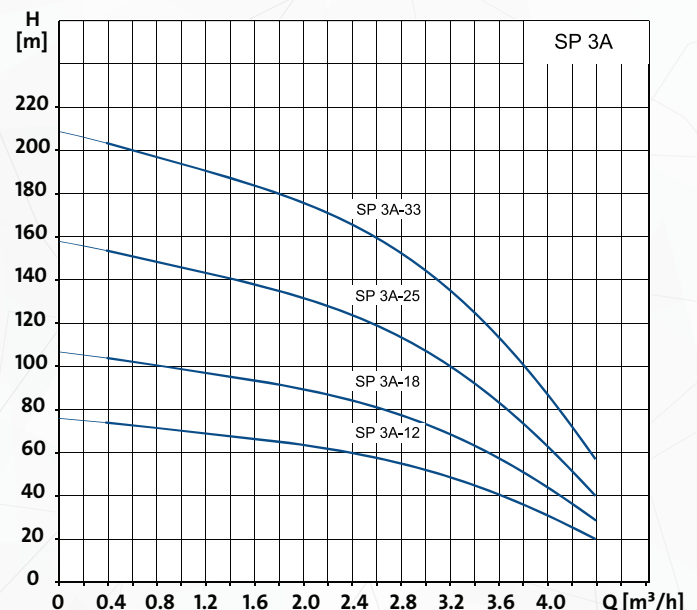
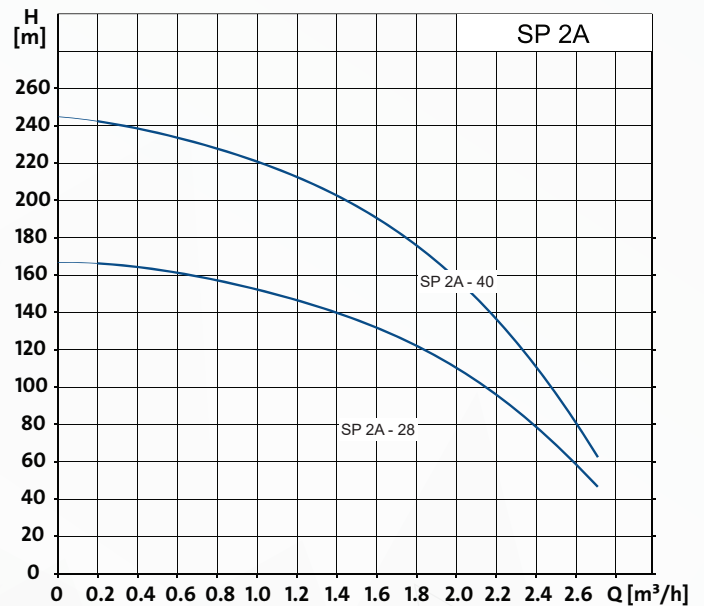
### TECHNICAL DATA

- **Liquid temperature** : 0 °C to 30 °C at 0.15 m/s
- **Mains voltage** : 1 x 240 V, 50 Hz
- **Enclosure class** : IP68
- **Insulation class** : F
- **Approvals and markings** : UL, CSA, VDE, CE

#### Product Range

PartNumber	Description	KW	HP	PHASE	PUMP OUTLET	MRP (₹)
98339969	SP2A-28	1.5	2	1	1 1/4"	42,440
98574797	SP 2A-40	2.2	3	1	1 1/4"	98,800
96946312	SP3A-33	2.2	3	1	1 1/4"	56,020
96946306	SP3A-12	0.75	1	1	1 1/4"	32,330
97921288	SP3A-18	1.1	1.5	1	1 1/4"	37,660
98148199	SP3A-25	1.5	2	1	1 1/4"	41,340

### PERFORMANCE CURVE



The Grundfos SQE is a small and compact submersible multi-stage pump. The motor of the SQE pump is a permanent magnet motor with a micro frequency converter ensuring optimum efficiency. The built-in frequency converter features protective functions and soft-starting, which reduces starting current and gives smooth and steady acceleration and dry running protection. The SQE pump is handy and user-friendly due to its low weight and 3-inch diameter.



## APPLICATIONS

- Water lifting from borewell
- Water transfer from ground tank
- Submersible booster through external controller (CU301) from underground tanks and roof tanks

## FEATURES

### • Excellent starting capabilities

The soft starter minimises the risk of wear & tear on the pump and prevents overloading of the mains during start-up. Its softstart system also reduces water hammering, light flickering and other electrical disturbances.

### • Overvoltage and undervoltage protection

The integrated protection prevents damage to the motor, in case the supply voltage moves outside the permissible voltage range.

### • Overload protection

The SQE eliminates the need for external motor protection. If the pump is exposed to a heavy load the motor will automatically reduce its speed, or if the pump is blocked it automatically stops.

### • Over-heating protection

As an extra protection, the electronic unit has a built-in temperature sensor. When the temperature exceeds a critical limit, the pump is stopped and when the temperature has dropped, the pump automatically starts.

### • Protection against upthrust

The SQE is fitted with an upthrust bearing, protecting both pump and motor against upthrust. thus, preventing breakdown during the critical start-up phase.

## TECHNICAL DATA

- **Liquid temperature** : 0 °C to 35 °C
- **Enclosure class** : IP68
- **Insulation class** : F
- **Installation depth** : Max. 150 m below static water level
- **Pump diameter** : 74 mm
- **Approvals and markings** : CE, UL, cUL

## PERFORMANCE CURVE



## Product Range

Part number	Model	kW	hp	MRP (₹)
96510071	SQE 1-35	0.7	0.95	69,260
96510141	SQE 1-50	0.7	0.95	69,350
96510142	SQE 1-65	0.7	0.95	72,330
96510143	SQE 1-80	1.15	1.56	79,380
96510144	SQE 1-95	1.15	1.56	83,170
96510145	SQE 1-110	1.15	1.56	86,170
96510146	SQE 1-125	1.55	2.11	1,03,130
96510147	SQE 1-140	1.55	2.11	1,06,190
96510148	SQE 1-155	1.85	2.52	1,09,700
96510150	SQE 2-35	0.7	0.95	47,910
96510151	SQE 2-55	0.7	0.95	50,760
96510152	SQE 2-70	1.15	1.56	55,870
96510153	SQE 2-85	1.15	1.56	62,490
96510154	SQE 2-100	1.55	2.11	77,210
96510155	SQE 2-115	1.85	2.52	80,070
96510156	SQE 3-30	0.7	0.95	46,440
96510157	SQE 3-40	0.7	0.95	48,710
96510158	SQE 3-55	1.15	1.56	56,500
96510159	SQE 3-65	1.15	1.56	62,490
96510160	SQE 3-80	1.55	2.11	77,210
96510161	SQE 3-95	1.55	2.11	80,410
96510162	SQE 3-105	1.85	2.52	83,280
96510163	SQE 5-15	0.7	0.95	45,310
96510164	SQE 5-25	0.7	0.95	47,640
96510165	SQE 5-35	1.15	1.56	56,500
96510166	SQE 5-50	1.55	2.11	62,830
96510167	SQE 5-60	1.55	2.11	79,970
96510168	SQE 5-70	1.85	2.52	82,660
96510169	SQE 7-15	0.7	0.95	61,410
96510170	SQE 7-30	1.15	1.56	67,960
96510171	SQE 7-40	1.55	2.11	85,720

# PRESSURE MANAGER - PM Range

## PM 1 – BASIC FLEXIBILITY

The Grundfos PM1 is suitable for applications where start/stop of the pump according to consumption needed. It is a solution offering the booster to start at 1.5 or 2.2 bar. PM1 starts the pump when reaching the starting pressure, and keeps running as long as there is a flow. PM1 offers dry-running protection and cycling alarm for increased safety in addition to the usual Grundfos quality, which guarantees high flexibility, robust electronics, and long life.



## PM 2 – ALL-ROUND CONTROL

The Grundfos PM2 is an all-round control solution offering pressure setting range between 1.5 - 5 bar. The starting pressure is set inside the unit, whereas current pressure is read on the intuitive LED display on the front of the Pressure Manager. PM2 starts the pump when reaching the starting pressure and keeps running as long as there is a flow. PM2 is equipped with an internal pressure tank to minimise starts and stops in case of leakage in the installation. In addition, PM2 can be optimised for operation with large external pressure tank by enabling the 1 bar differential pressure functionality. This significantly reduces the number of start/stops of the pump.



## PM TWIN

The all-in-one Grundfos PM TWIN is an intelligent controller, that controls two pump solutions with duty/standby mode, in accordance with consumption in domestic water supply in the range of 1.5 - 5 bar. PM TWIN is designed for automatic start/stop control of Grundfos pumps and other water supply pumps in home environment. PM TWIN can be adapted to the individual installation through a number of DIP switches located behind the operating panel.



## FEATURES

- **User-friendly interface**  
PM Range has a user-friendly interface with LED indicators showing:
  - Power on
  - Pumps running
  - Alarm indication.
- **Flexible power supply**  
Due to robust electronic components, PM Range can be powered by a generator or other alternative power supplies.
- **Protective functions**  
PM TWIN incorporates a number of functions which protect both the pumps and the installation:
  - Dry-running protection
  - Cycling alarm
  - Maximum continuous operating time (30 min) except PM1
  - Auto-reset function which can be used to automatically restart the system in case of dry running, except PM1
- **Internal pressure tank**  
PM TWIN is equipped with a small internal pressure tank, which minimises the number of starts and stops of the pump in case of minor leakages.

## APPLICATIONS

Typical applications are water supply systems and rainwater systems in:

- One-family houses
- Blocks of flats
- Villas and cottages
- Horticulture and gardening
- Agriculture.

Features	PM1	PM2	PM TWIN
Power-on indication	•	•	•
Pump running indication	•	•	•
Alarm indication	•	•	•
Dry-running protection	•	•	•
Free position in installation	•	•	•
Suitable for generator supply	•	•	•
Flexible outlet connection	•	•	•
Integrated non-return valve	•	•	•
Cycling alarm	•	•	•
Integrated pressure sensor from GrundfosDirect Sensors™		•	•
Adjustable start pressure		•	•
Start/stop with 1 bar differential pressure		•	•
Automatic restarting after dry running		•	•
Maximum continuous operating time (30 min) (safety)		•	•
Internal pressure tank		•	•
Pressure indication		•	
Duty/standby twin operation			•

### Product Range

PART NUMBER	MODEL	START PRESSURE [BAR]	MAX LIQUID TEMP	MAX AMBIENT TEMP	PIPESIZE		MRP ( ₹ )
					INLET	OUTLET	
On Request	PM 1	1.5	60 °C	55 °C	G1"	G1"	On Request
On Request		2.2	60 °C	55 °C	G1"	G1"	On Request
96848738	PM 2	1.5 - 5	60 °C	55 °C	G1"	G1"	16,840
99370355	PM TWIN	1.25 - 5	60 °C	55 °C	G1"	G1"	22,280

For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz

# GT PRESSURE TANKS

The GT pressure tanks for cold-water applications are longlife tanks for both domestic and industrial applications. The GT tank ensures controlled pressure in your water supply. The result of this is better comfort in your installation by limiting the start/stop frequency of your pump, compensation for pressure drops and eliminating water hammer in pipework. GT tanks can be integrated in many different installations with a wide variety of pumps.



## FEATURES

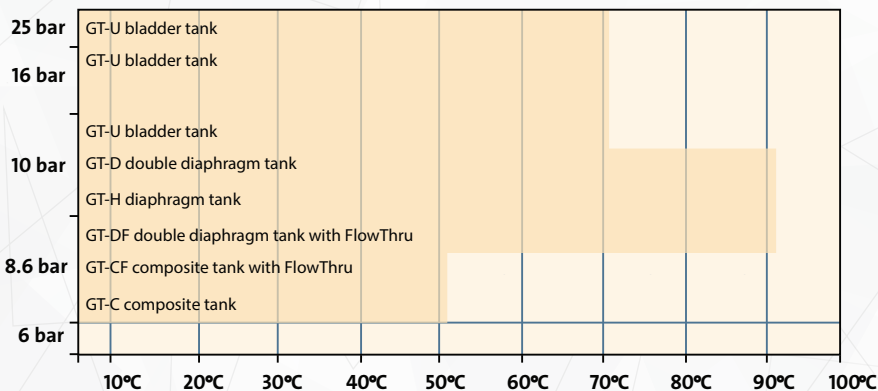
- Wide range of GT tanks**  
 The GT tanks are available in sizes from 8 to 5,000 litres, suitable for vertical installation.
- Approved for drinking water**  
 The Grundfos GT tanks are approved for use with drinking water.
- Reducing start/stop frequency**  
 The GT tanks ensure controlled pressure in the water supply and thereby limit the switching frequency of the pump in case of low water consumption or leakage loss.
- Optimise comfort**  
 The GT tanks increase system comfort by compensating for pressure drops when a tap is opened and reduces problems with water hammer in the pipe line.

## TECHNICAL DATA

- Max. operating pressure** :Max. 10 bar
- Liquid temperature** : Max. 90 °C
- Tank pre-charge recommended is 10% below cut in pressure for PT systems; 70% of maximum pump pressure on PM1 and PM2 units and 70% of set point on variable speed pumps
- Approvals and markings** : CE, GOST, NSF, WRAS, ACS

## PERFORMANCE CURVE

GT PRESSURE TANKS



## Product Range

PART CODE	MODEL	CAPACITY	CONNECTION SIZE	MRP (₹)
96528339	GT-H-24 PN10 G1 V	24	1" M	6,120
96528341	GT-H-60 PN10 G1 V	60	1" F	17,930
97527968	GT-H-100 PN10 G1 V	100	1" F	24,960
97792897	GT-D-200 PN10 G1 1/4 V	200	1¼" F	49,540

# COMFORT UP

The Grundfos COMFORT range is designed for re-circulation of domestic hot water in small family houses. The COMFORT PM range is a high efficiency choice with an energy usage of only 8 W. The intelligent COMFORT AUTOADAPT PM automatically adapts to the individual's hot water consumption pattern in the household and only runs when hot water is needed.



## KEY FEATURES

- **Minimise water waste**

Every year, a typical family of three living in a household with a conventional one string plumbing system, pours up to 16.000 Lts of clean water straight down the drain as they wait for the water to run hot. The COMFORT PM pump delivers instantly hot water, which in average amounts to 60 seconds – or 0.15 litres of wasted water per second. The tangible result of the COMFORT PM pump lower costs while increasing the comfort.

- **AUTOADAPT mode**

The COMFORT pump learns from the user pattern and automatically adapts to guarantee the best comfort and the highest energy savings.

- **Temperature control mode**

The water temperature is kept within a calculated range in the individual system, ensuring that the pump runs only when required to save energy.

- **100% mode**

The pump operates continuously at full speed.

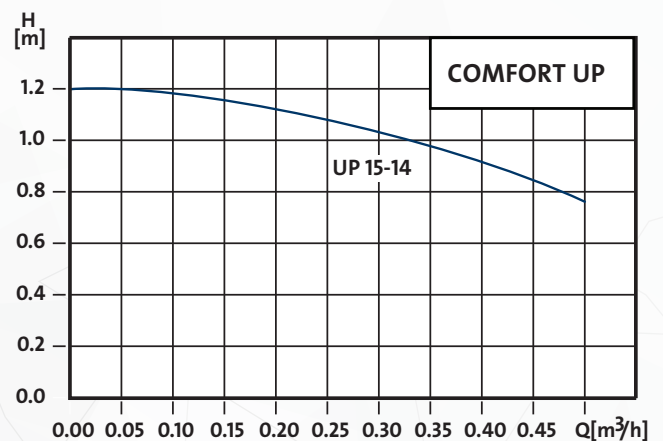
## Product Range

PART CODE	MODEL	CONNECTION SIZE	MRP (₹)
97916757	UP15-14BA PM	½" F	14,740

## TECHNICAL DATA

- **System pressure** : 10 bar
- **Liquid Temperature** : 2 to 110 °C
- **Ambient Temperature** : 40 °C
- **Relative Air Humidity** : 95 %
- **Mains voltage** : 1 x 240 V, 50 Hz
- **Enclosure class** : IP44
- **Insulation class** : F
- **Sound pressure level** : 43 dB
- **Approvals and markings** : AS4020

## PERFORMANCE CURVE





# MAGNA3

## TAKING PUMP INTELLIGENCE TO THE NEXT LEVEL

The Grundfos MAGNA3 is a circulator pump with permanent magnet motor that will fit both heating, cooling and domestic hot water circulation, making it the obvious choice for almost any building project old or new. With its unrivalled efficiency, all-encompassing range and built-in communication capabilities plus functionalities replacing system components, the MAGNA3 is ideal for building owners, engineers and specifiers looking to create high-performance systems for buildings.

The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.



### APPLICATIONS

- Heating
- Air-conditioning
- Cooling
- Domestic hot-water systems
- Domestic heat pump

### FEATURES

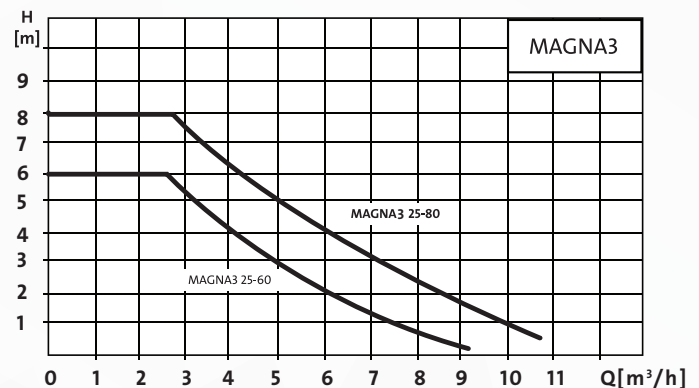
- **BEST EFFICIENCY**  
The best EEL on the market reduce energy costs up to 75%
- **HIGH INTELLIGENCE**  
The new FLOWLIMIT and FLOWADAPT functions along with the renowned AUTOADAPT enable complete system control
- **EASY INSTALLATION**  
Intuitive user interface saves time during installation
- **VERSATILE APPLICATION**  
The pump handles liquids from -10°C to 110°C independent of the ambient temperature – to make it suitable for both heating and cooling projects
- **BMS SYSTEM**  
Easy integration for building management systems

#### Product Range

PART CODE	MODEL	WATT	MAX LIQUID TEMPERATURE	PIPESIZE		WEIGHT (KG)	MRP ( ₹ )
				INLET	OUTLET		
97924245	MAGNA3 25-60	84	110 °C	1 1/2"	1 1/2"	4.81	36,540
97924246	MAGNA3 25-80	116	110 °C	1 1/2"	1 1/2"	4.81	46,700

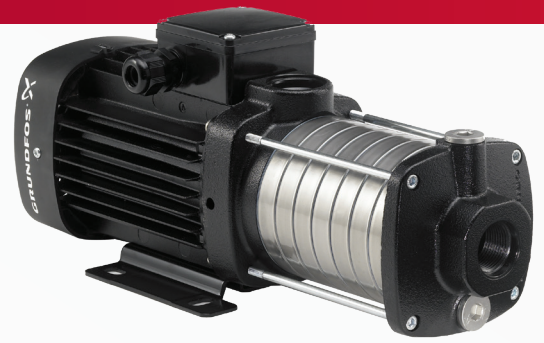
For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz

### PERFORMANCE CURVE



## 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. Adding reliability and quiet operation to the mix, another innovative pump solution from Grundfos is born.



Centrifugal Modular, the pump is basically composed of a series of interchangeable modules, all of which have been designed to work together seamlessly, whatever the application is.

### APPLICATIONS

- Water treatment
- Water Transfer
- Water circulation (liquid temp 20° C - 120° C)

### FEATURES

- Compactness
- Reliability
- Flexibility

#### Product Range

PART CODE	MODEL	POWER		FLOW	HYDRAULIC DATA						PIPESIZE (mm)		MRP (₹)	
					M³/hr	0	0.4	0.8	1.2	1.6	2	2.4		SUCTION
		Kw	Hp	LPM	0	6.6	13.3	20	26.6	33.3	40			
96935383	CM 1-2	0.3	0.4	Head (Mts)	18	17	16	14.5	12.5	10	7	25	25	27,870
96806792	CM 1-3	0.3	0.4		27	26	24	21	18	14.5	10.5	25	25	29,020
96935390	CM 1-4	0.5	0.7		36	34.5	32	28.5	24.5	19.5	14	25	25	30,980
96806794	CM 1-5	0.5	0.7		44.5	43	39.5	35	30	24	17	25	25	32,120
96935407	CM 1-6	0.5	0.7		53.5	51	47	42	35	28	20	25	25	34,420
PART CODE	MODEL	POWER		M³/hr	HYDRAULIC DATA						SUCTION	DELIVERY	MRP (₹)	
		Kw	Hp		LPM	0	0.8	1.6	2	2.4				3.2
		0	13.3	26.6	33.3	40	53.3	66.6						
96806802	CM 3-2	0.3	0.4	Head (Mts)	18.5	17.5	16.5	16	15	13	10	25	25	28,080
96806803	CM 3-3	0.5	0.7		28	26.5	25	24	23	19.5	15	25	25	30,250
96806858	CM 3-4	0.5	0.7		37	35	33	31	30	25	19	25	25	31,700
96806804	CM 3-5	0.5	0.7		46	43.5	40	38	35.5	29.5	22	25	25	33,690
96806805	CM 3-6	0.7	0.9		56	53	49	46.5	43.5	37	27	25	25	37,010
PART CODE	MODEL	POWER		M³/hr	HYDRAULIC DATA						SUCTION	DELIVERY	MRP (₹)	
		Kw	Hp		LPM	0	1	2	3	4				5
		0	16.6	33.3	50	66.6	83.3	100						
96806811	CM 5-2	0.5	0.7	Head (Mts)	19	18	17	16	15	13.5	11	32	25	30,250
96806812	CM 5-3	0.5	0.7		28	26.5	25.5	24	22	19	15	32	25	30,450
96806833	CM 5-4	0.7	0.9		38	36	34	32	30	26	20	32	25	32,650
96806813	CM 5-5	0.9	1.2		47.5	45.5	43.5	41.5	38.5	34	26.5	32	25	45,140
96935462	CM 5-6	1.3	1.7		57.5	56	54	51	47.5	41.5	33	32	25	56,110
PART CODE	MODEL	POWER		M³/hr	HYDRAULIC DATA						SUCTION	DELIVERY	MRP (₹)	
		Kw	Hp		LPM	0	3	6	8	10				12
		0	50	100	133.3	166.6	200	233.3						
96935481	CM 10-2	1.3	1.7	Head (Mts)	32.5	32	30	28	25	21	17	40	40	54,550
On request	CM 10-3	1.7	2.3		47	46	43	39.5	35	30	24	40	40	On request

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# UP Basic

The Grundfos UP Basic range of domestic circulator pumps are suitable for circulation of liquid in domestic heating and hot water systems. These pumps with wet - rotor circulators are whisper-quiet and maintenance-free. They feature an integrated pump and motor design. The 2-speed switch on the UP Basic motor allows you to adjust the pump speed to meet the needs of your system, thereby reducing energy consumption and saving you money.

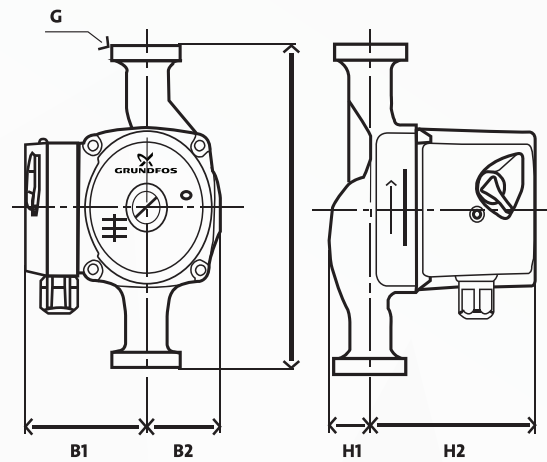


## APPLICATIONS

- It is specially used in heating system, condenser and air conditioning system.
- Hot Water system in villas and apartments.
- Domestic hot water recirculation system.
- Heating system.

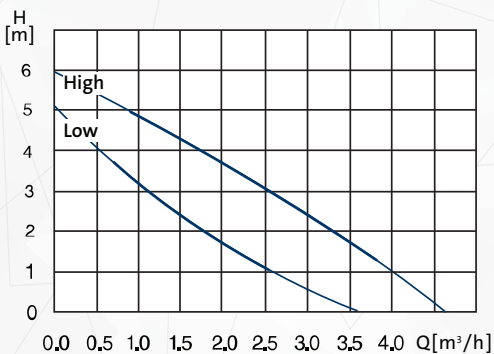
## FEATURES

- Pumping liquids: Thin, clean non-corrosive, non-erosion
- Non-explosive tools without solid particles and fiberliquids.
- Environmental conditions: 0°C-65°C.
- Maximum pressure of the pump: 10bar
- Rated voltate 1\*220-240V,50Hz

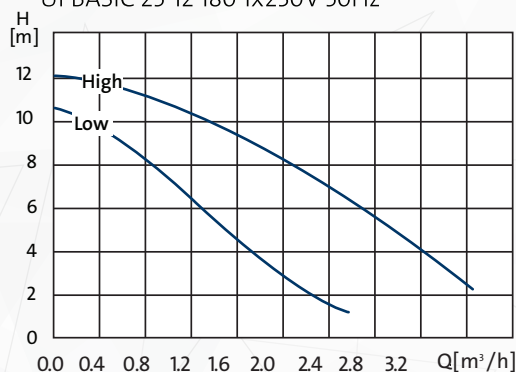


## OPERATING CONDITIONS

UPBASIC 15-6 130 G1 1x230V,50Hz



UPBASIC 25-12 180 1x230V 50Hz



### Product Range

PART CODE	MODEL	VOLTAGE (V)	PUMP DIM						WEIGHT [kg]	MRP (₹)
			L	H1	H2	B1	B2	G		
98419569	UPBASIC 15-6	1 x 220/240	130	28	102	75	51	1"	2.8	4,110
98419696	UPBASIC 25-12	1 x 220/240	180	32	130	82	69	1 1/2"	4.6	6,810

# KPC Series

## SUBMERSIBLE PUMPS FOR YOUR HOME

The Grundfos KPC Series Designed mainly for automatically operated fixed applications in domestic use, draining basements and garages which are subject to flooding. Its compact, easy-to-handle form makes it a portable pump for emergencies such as lifting water from tanks or rivers, emptying swimming pools, fountains, excavations and underpasses. They are also ideal for gardening and fish pond.

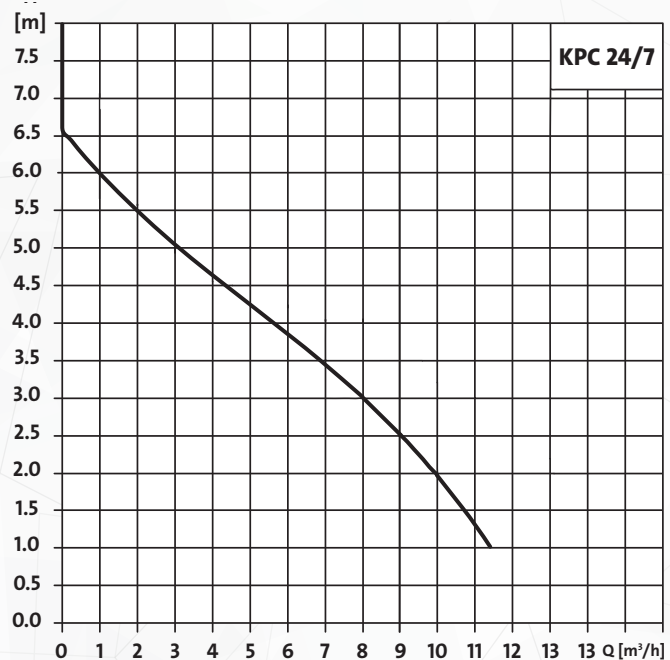
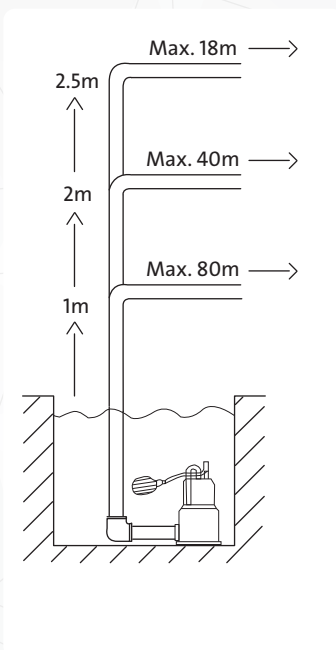


### TECHNICAL DATA

- Pump body, impeller, pressure disc and suction grid in Composite Noryl GFN 2  
Stainless steel screws and rotor shaft
- **Performance range:**  
from 1 to 17m<sup>3</sup>/h, with head up to 10 metres
- **Liquid quality requirements**  
Grey water without fibres
- **Minimum water depth**  
KPC 24/7 210 : 8mm  
KPC 300A : 85mm  
KPC 600A : 175mm

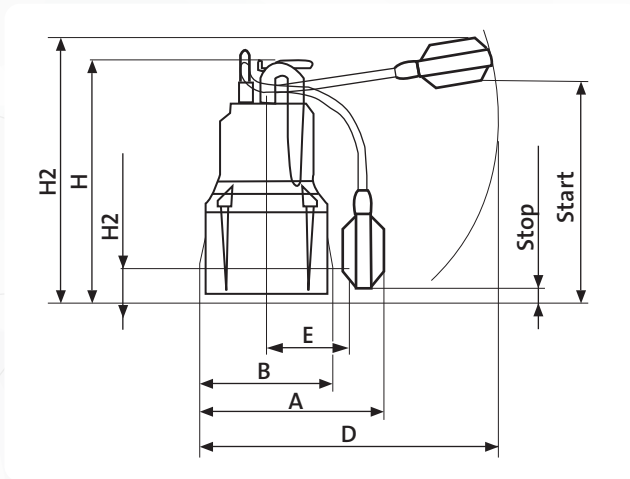
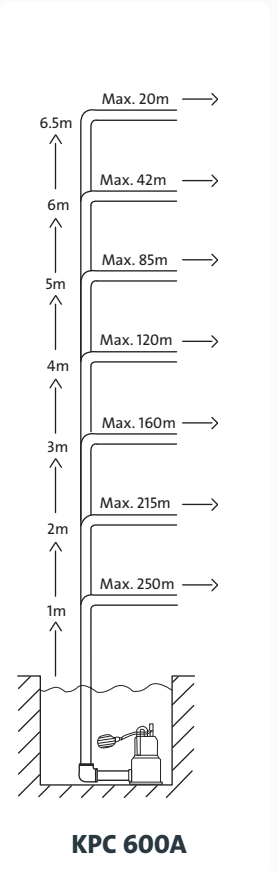
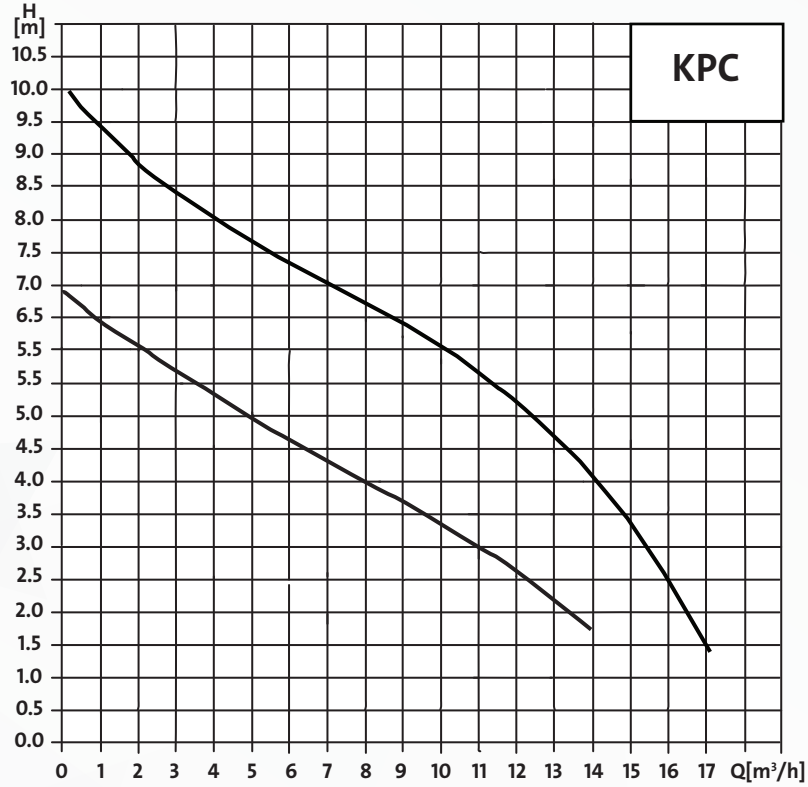
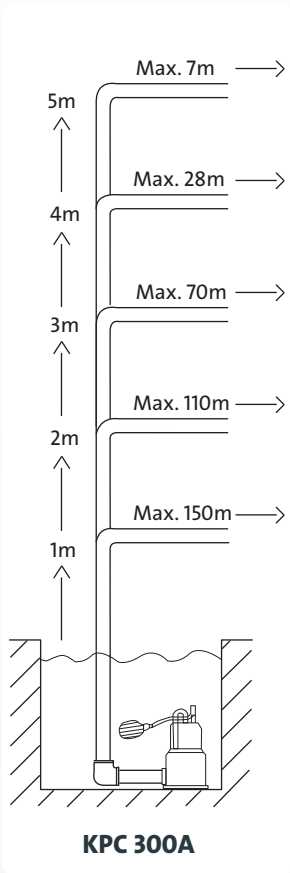
## KPC 24/7 210 – Fountain Pump

Performance curves and range :



# KPC 300A & KPC 600A – Dewatering Pumps

## Performance curves and range



### Product Range

PART CODE	MODEL	POWER		CURRENT I (A)	DIMENSION								WEIGHT (kg)	MRP (₹)		
		kw P1	[hp]		A	B	D	E	H	H1	H2	START			STOP	PIPE SIZE
98851057	KPC 24/7 210	0.35	0.47	1.5	-	140	-	82	266	-	38.5	-	-	1"	4.1	12,210
98851053	KPC 300 A 1x220 50Hz	0.35	0.47	1.5	185	140	225	82	275	390	47.5	350	100	1"	4.1	12,580
98851054	KPC 600 A 1x220 50Hz	0.8	1.07	3.4	200	160	225	90	376	490	73	450	200	1 1/4"	6.5	18,060

For all pumps, electrical supply is 1 phase 220 Volts AC, 50 Hz

# UNILIFT CC

The Grundfos Unilift CC pumps are single-stage submersible pumps that can pump up to 3mm water level. The pumps are designed for pumping rainwater and grey wastewater from:

- Washing machines, bath tubs, showers, sinks from low-lying parts of the buildings up to sewer level
- Cellars or buildings prone to flooding
- Draining wells
- Collecting wells for surface water with inlets from roof gutters, tunnels.
- Swimming pools, ponds or fountains. The pumps are suitable for permanent installation or as a portable pump.



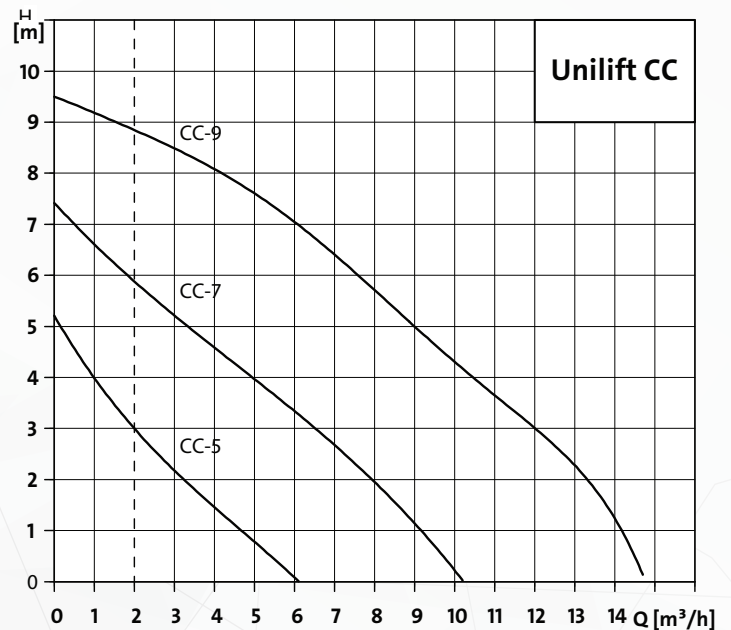
## KEY FEATURES

- Pumping down to a level of 3 mm above floor
- Prevention of backflow
- Thermal overload protection
- Handy and easy to transport
- Self-venting valve
- Auto-restart
- Connectivity to different outlets through adaptor

## TECHNICAL DATA

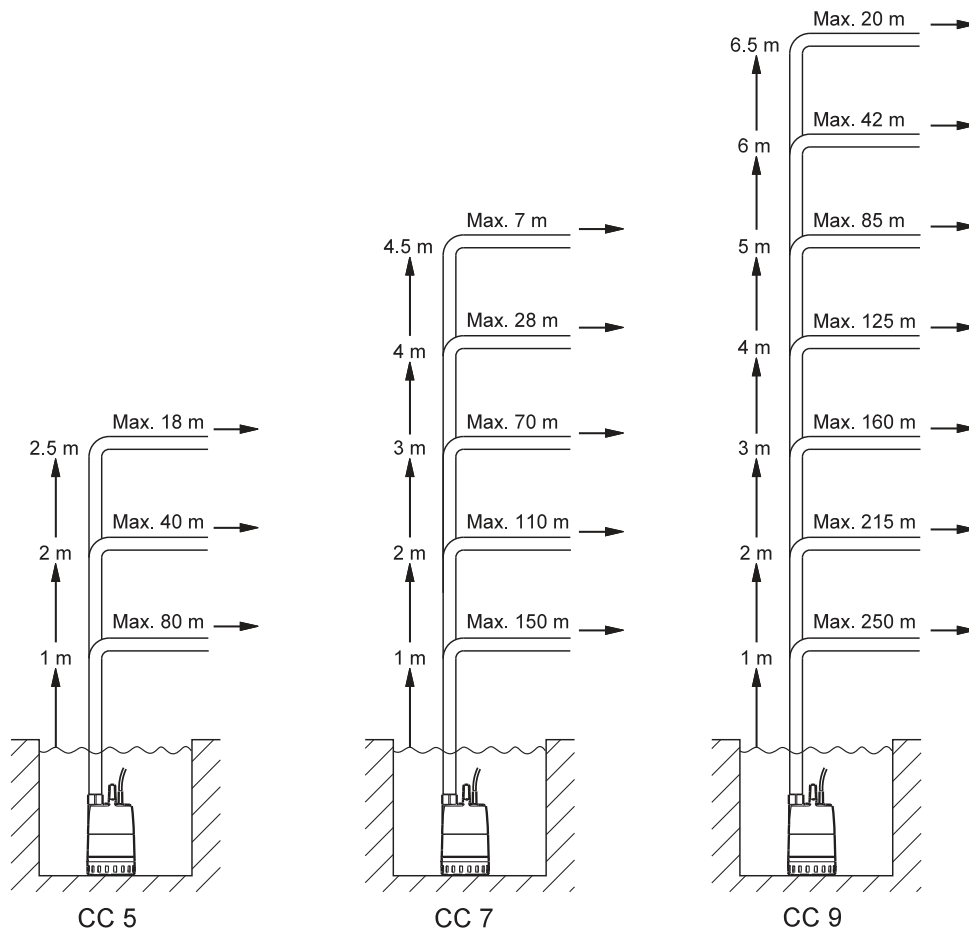
- **Max. flow rate, Q** : 14 m<sup>3</sup>/h
- **Max. head, H** : 9 m
- **Liquid temp.** : 0 °C to +40 °C
- **Max. particle size** : 10 mm
- **Material** : Composite
- **Installation depth** : Max. 10 metres below liquid level

## PERFORMANCE CURVE

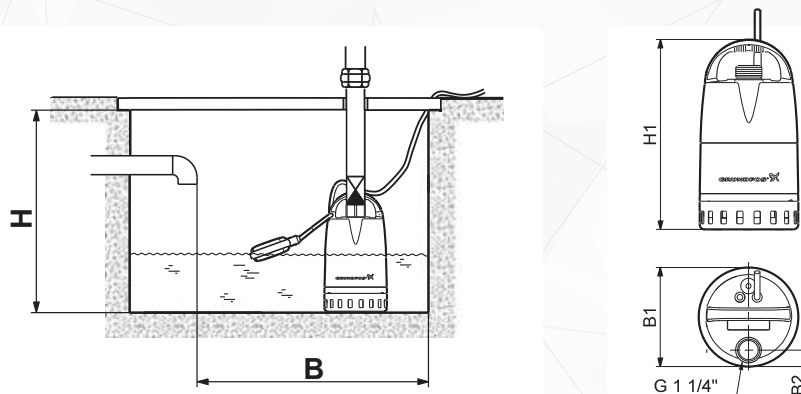


## SELECTION

The overview below is suitable for the selection of the correct size of Unilift CC pumps used in stationary applications. The flow velocity through the discharge pipe must be minimum 0.7 m/s to ensure self-cleaning.



## INSTALLATION



### Product Range

PART CODE	MODEL	POWER		CURRENT I (A)	MIN TANK SIZE		PUMP DIM			OUTLET PIPE SIZE	WEIGHT [kg]	MRP (₹)
		kw P1	[HP]		H	B	H1	B1	B2			
96280966	UniliftCC5-A1	0.24	0.32	1.1	520	400	305	160	26.5	1 1/4"	4.35	15,670
96280968	UniliftCC7-A1	0.38	0.51	1.7	520	400	305	160	26.5	1 1/4"	4.60	18,140
96280970	UniliftCC9-A1	0.78	1.05	3.7	570	500	340	160	26.5	1 1/4"	6.50	23,470

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# UNILIFT KP

The Grundfos Unilift KP is a single-stage, stainless steel drainage pump, compact in design with hermetically sealed stator housing (canned motor). The pump can be installed permanently or used as a portable pump. It may be operated fully or partially submerged.



The pump is suitable for the following applications:

- Pumping in drainage collecting wells
- Pumping of wastewater without discharge from toilets
- Drainage of flooded cellars or buildings
- Emptying of swimming pools, tanks and fountains
- Applications within agriculture, horticulture, dairies, breweries and the process industry

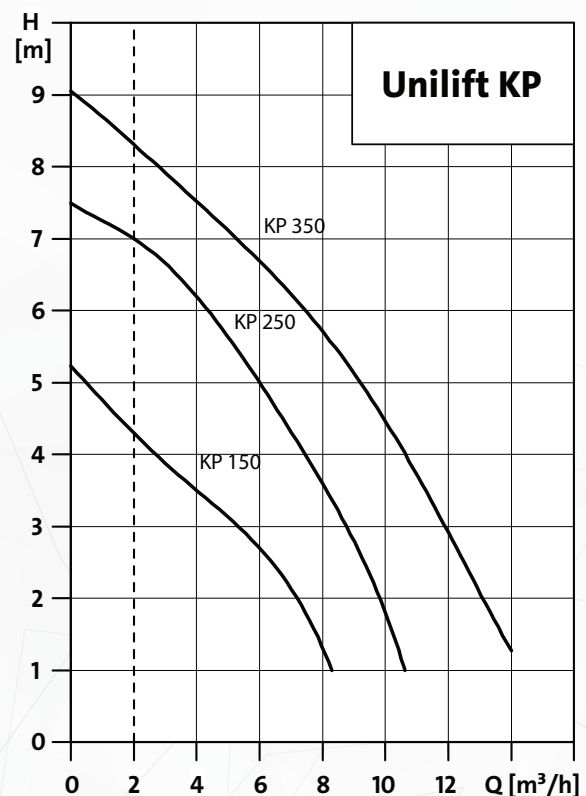
## KEY FEATURES

- Thermal overload protection
- Auto-restart
- Handy and easy to transport
- Clip-on strainer for easy maintenance

## TECHNICAL DATA

- **Max. flow rate, Q** : 14 m<sup>3</sup>/h
- **Max. head, H** : 9 m
- **Liquid temp.** : 0 °C to +50 °C
- **Max. particle size** : Ø10
- **Material** : Stainless steel
- **Installation depth** : Max. 10 metres below liquid level

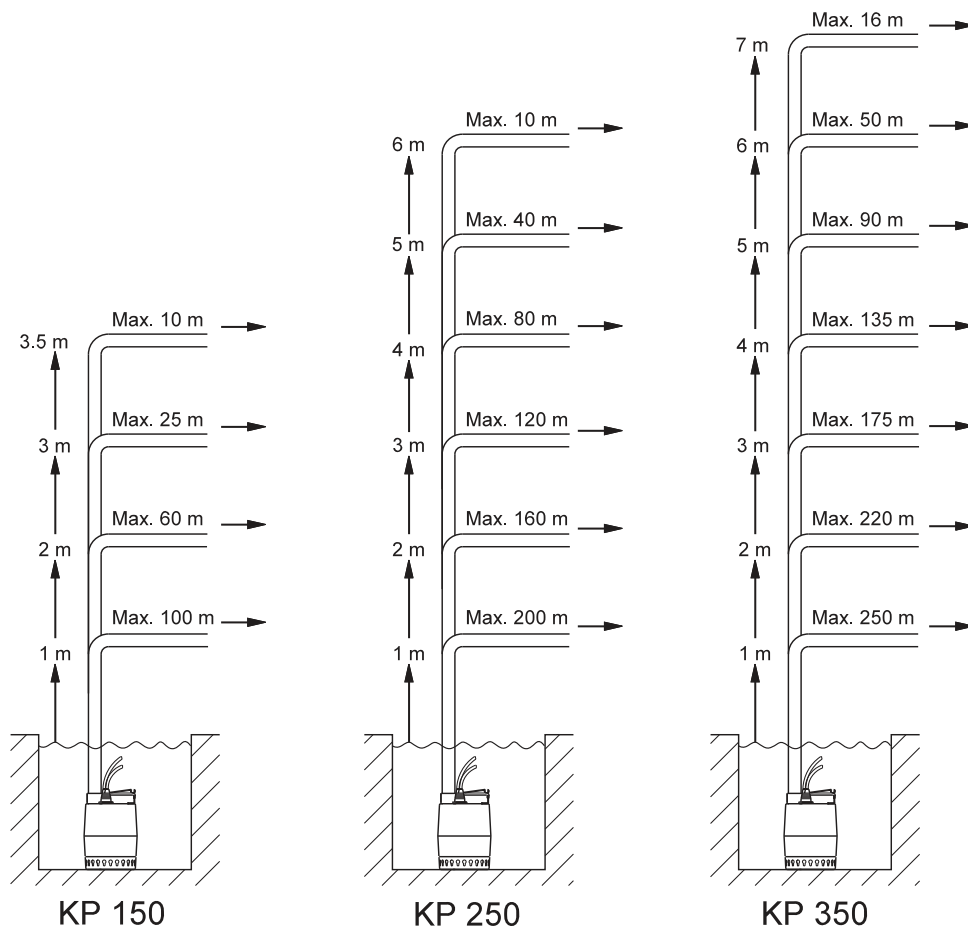
## PERFORMANCE CURVE





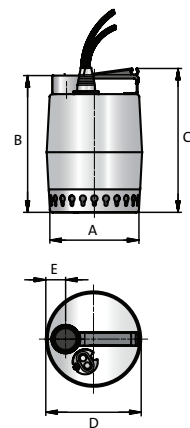
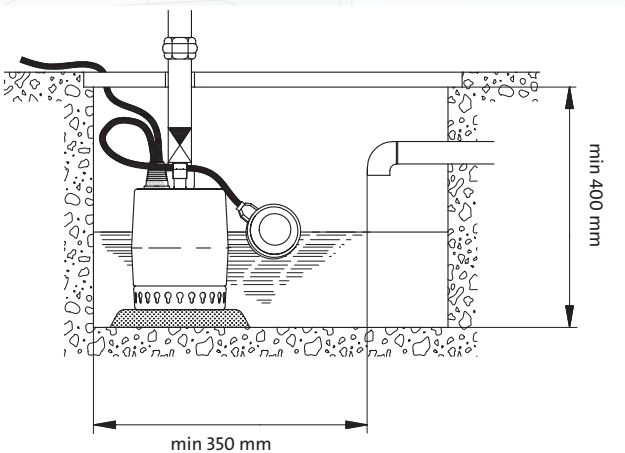
## SELECTION

The overview below is suitable for the selection of the correct size of Unilift KP pumps used in stationary applications. The flow velocity through the discharge pipe must be minimum 0.7 m/s to ensure self-cleaning.



## INSTALLATION

Dimensions :



### Product Range

PART CODE	MODEL	POWER		CURRENT I (A)	PUMP DIMENSION					OUTLET PIPE SIZE	WEIGHT [kg]	MRP ( ₹ )
		kw P1	[hp]		A	B	C	D	E			
011K4700	Unilift KP 150 A1	0.3	0.4	1.3	140	220	226	148	30	1 1/4"	7	19,800
012K4700	Unilift KP 250 A1	0.48	0.64	2.3	140	220	226	148	30	1 1/4"	7	23,360
013N4700	Unilift KP 350 A1	0.7	0.94	3.2	140	220	226	148	30	1 1/4"	7.3	30,500

For all pumps, electrical supply is 1 phase 200-240 Volts AC, 50 Hz

# UNILIFT AP

Grundfos UNILIFT AP submersible wastewater pumps are suitable for temporary as well as permanent free-standing installation. All pumps are fitted with carrying handles. The UNILIFT AP pumps have a stainless steel sleeve for cooling during operation

## BENEFITS

- Permanent as well as portable installation
- Easy to install
- Service friendly
- Optional automatic operation

## APPLICATIONS

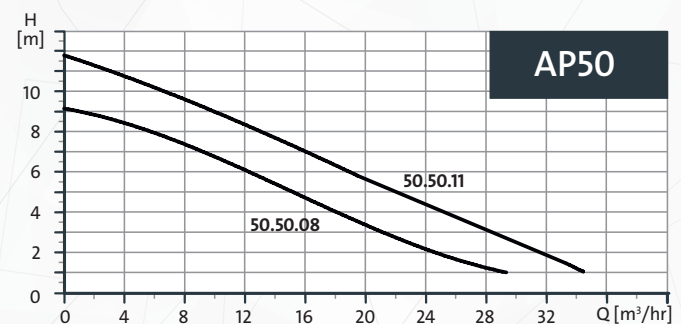
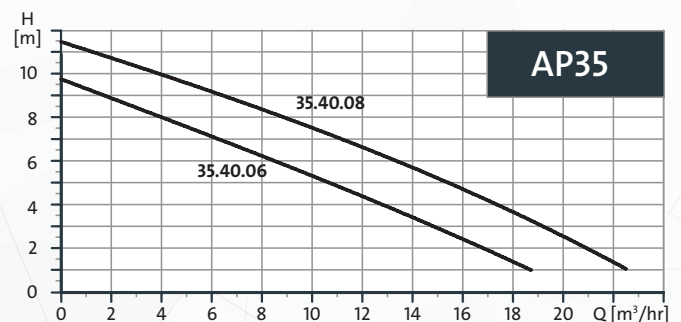
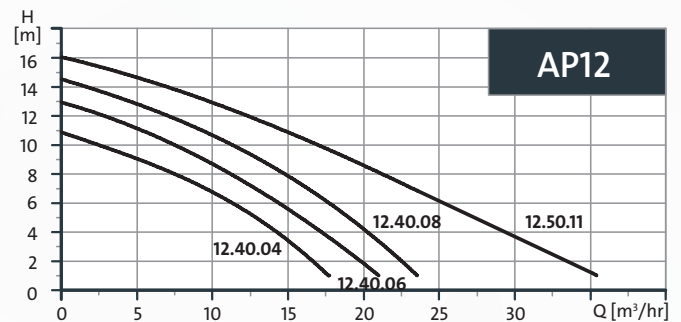
- Rainwater, drainage water and water from flooding Pools water
- Effluents from showers, washing machines and sinks below sewer level
- Water and rainwater in horticulture

## FEATURES

- Stainless steel
- Mechanical shaft seal
- Replaceable cable
- High single-phase protection - no additional motor protection needed
- Semi-open or vortex impeller
- Handy and easy to transport
- Clip-on strainer prevents large particles from entering

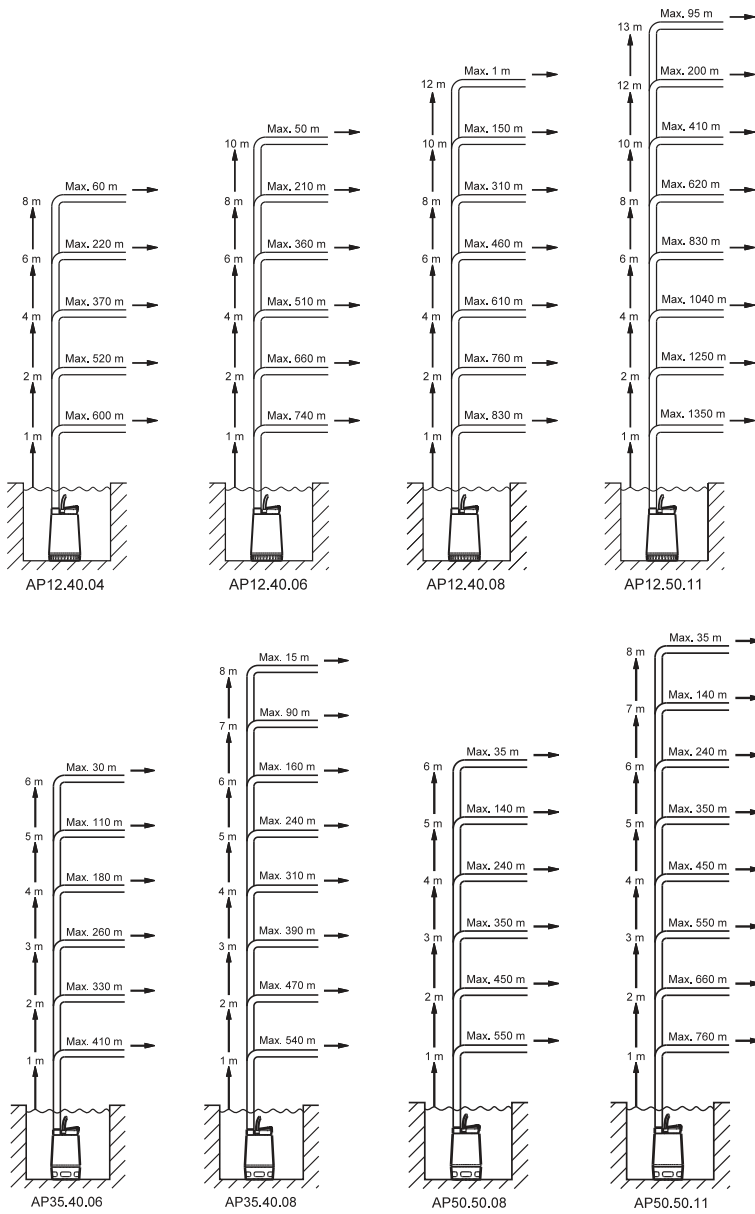


## PERFORMANCE CURVE

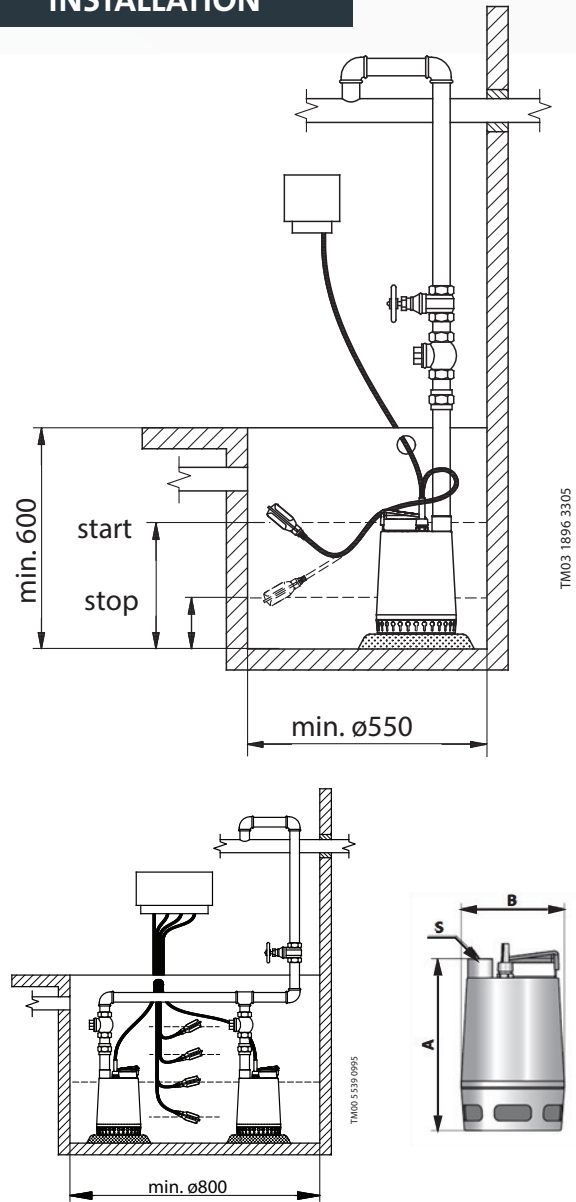


# SELECTION

The overview below is suitable for the selection of the correct size of Unilift AP12 pumps used in the stationary applications. To ensure that the discharge pipe is self-cleaning, the calculation of the pipe lengths are based on these requirements



# INSTALLATION



## Product Range

PART CODE	MODEL	POWER		CURRENT I (A)	FLOW M3/hr	HYDRAULIC DATA							SOLID HANDLING mm	PUMP DIM			WEIGHT Kg	MRP (₹)
		kw P2	[hp]			0	5	10	15	20	25	30		A	B	S		
96023914	AP.12.40.04.A1	0.4	0.54	3	HEAD Mts	11	9	7	3.5				12	321	216	RP 1 1/2"	11	38,870
96023929	AP.12.40.06.A1	0.6	0.8	4.4		13	11	8.5	6	2			12	321	216	RP 1 1/2"	11	41,310
96023930	AP.12.40.08.A1	0.8	1.07	5.9		14.5	13	10.5	8	4			12	346	216	RP 1 1/2"	12.6	45,680
96023931	AP.12.50.11.A1	1.1	1.48	8.5		16	15	14	11	8.5	6	4	12	357	241	RP 2	15.1	63,610

PART CODE	MODEL	POWER		CURRENT I (A)	FLOW M3/hr	HYDRAULIC DATA							SOLID HANDLING mm	PUMP DIM			WEIGHT Kg	MRP (₹)
		kw P2	[hp]			0	2	4	6	8	10	12		A	B	S		
96023932	AP35.40.06.A1V	0.6	0.8	4	HEAD	10	9	8	7	6	5	4.5	35	376	216	RP 1 1/2"	11.4	46,090
96023933	AP35.40.08.A1V	0.8	1.07	5.5	Mts	11.5	11	10	9	8.5	7.5	6.5	35	410	216	RP 1 1/2"	12.7	48,920

PART CODE	MODEL	POWER		CURRENT I (A)	FLOW M3/hr	HYDRAULIC DATA							SOLID HANDLING mm	PUMP DIM			WEIGHT Kg	MRP (₹)
		kw P2	[hp]			0	5	10	15	20	25	30		A	B	S		
96023934	AP50.50.08.A1V	0.8	1.07	5.9	HEAD	9	8	7	5	3	2		50	436	241	RP 2	15.1	65,000
96023935	AP50.50.11.A1V	1.1	1.48	8	Mts	12	10.5	9	7	5.5	4	2	50	436	241	RP 2	15.1	95,390

For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz

# SEG GRINDER

## TOUGH WASTEWATER PUMPS

The Grundfos SEG pumps are specifically designed for pumping untreated wastewater from domestic, commercial or municipal sources. The high discharge pressure enables transfer of wastewater over longer distances. To reduce maintenance time, the effective grinder system is easily and quickly dismantled in the event of replacement.

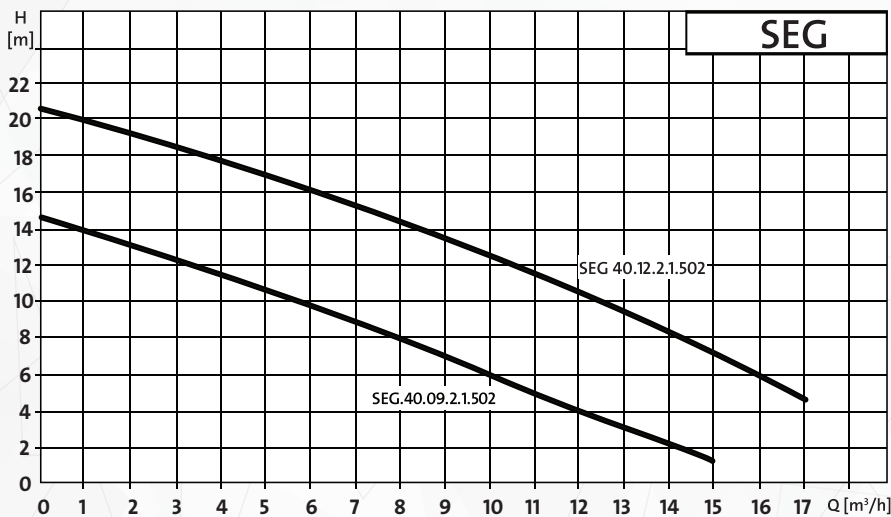
In areas with no sewer systems or where gravitation systems are unsuitable, these pumps can transfer wastewater to the sewer mains.



### BENEFITS

- Enhanced reliability
- Improved discharge pressure over longer distances
- Highly effective grinder system enables smaller pressure pipes
- SmartTrim system maintains high pressure by simple adjusting the impeller clearance
- Cable plug is sealed against the moisture entering through the cable core

### PERFORMANCE CURVE



Highly effective grinder Effective cutting by a highly reliable, patented grinder



Three loose feet to be fitted to the pump housing for free-standing pumps

### Product Range

PART CODE	MODEL	POWER		CURRENT	FLOW	HYDRAULIC DATA								FLANGE	OUTLET PIPE SIZE	WEIGHT [kg]	MRP (₹)
		kw	P2	HP	I (A)	M3/hr	0	2	4	6	8	10	12				
96075893	SEG.40.09.2.1.502	0.9		1.2	6	HEAD	14.5	13	11.5	9.5	8	6	4	DN 40	1 1/2"	42	91,510
96075901	SEG.40.12.2.1.502	1.2		1.6	8	Mts	20.5	19	18	16	14.5	12.5	10.5	DN 40	1 1/2"	42.1	91,510
96076196	Kit Feet																7,510

For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz

# SOLOLIFT2

The Grundfos SOLOLIFT2 is a unique range of compact macerators, enabling drainage of any domestic sanitary appliance without worrying about the location of the existing gravity drain system. Whether it is an extra toilet in the attic or a new bathroom below the sewer level in the basement, SOLOLIFT2 will efficiently dispose the wastewater and provide maximum protection against backflow from sewer systems.

The SOLOLIFT2 range comprises of five compact macerators, all designed to collect and pump wastewater from the sanitary appliance to the nearest down pipe.



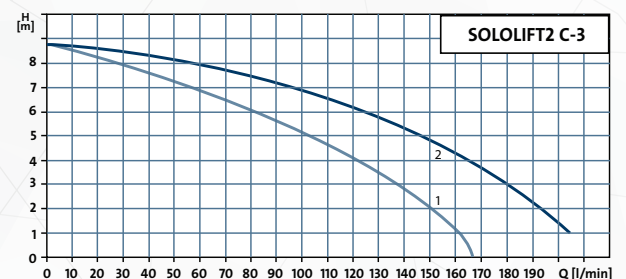
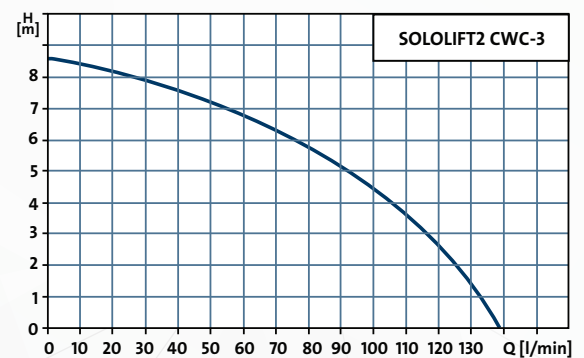
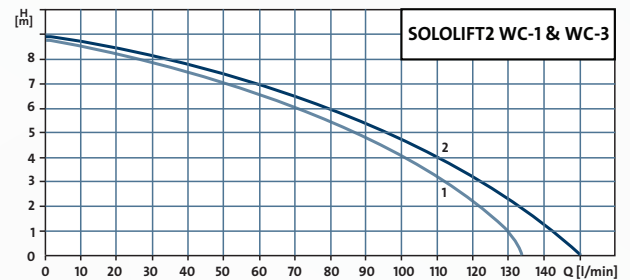
## APPLICATIONS

- Extra bathrooms even away from drainage stack (e.g attics)
- Backwater protection of sanitary
- Appliances when placed below the sewer level
- Added rest room and wellness facilities in guest houses and holiday cottages
- Office and building renovation

## FEATURES

- **Robustness and operational reliability**
  - Powerful motors with strong starting torque for professional cutter (WC-1, -3 and CWC-3)
  - Hot water resistant components up to 90°C for 30 minutes (C-3)
  - Pressure tight tanks withstanding up to 2.5m water column
  - Accessories for outstanding safety like add-on alarm devices
- **Easy installation and replacement**
  - Adjustable discharge 360° turnable and for horizontal or vertical assembly
  - Flexible discharge connection with 6 different pipe diameters to connect
  - Flexible inlet connection and 4 different diameters to connect
  - Adjustable start level according to the application (C-3)
  - Including non return valve - ready to install
- **Maintenance and service friendly**
  - The removable and dry compact pump-motor unit
  - Dry and clean access to the level switch unit
  - Separate drain function of the tank

## PERFORMANCE CURVE



## Product Range

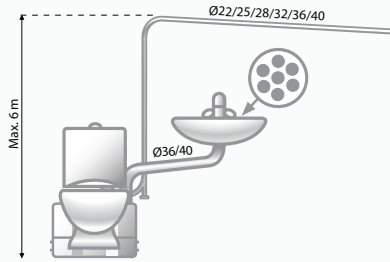
PART CODE	MODEL	POWER		DIMENSIONS (MM)		WEIGHT (kg)	MRP (₹)
		(KW)	hp	H	L		
97775314	SOLOLIFT2 WC-1	0.62	0.8	347	453	7.2	28,160
97775315	SOLOLIFT2 WC-3	0.62	0.8	347	453	7.5	34,170
97775331	SOLOLIFT2 CWC-3	0.62	0.8	368	495	7	35,400
97775332	SOLOLIFT2 C-3	0.64	0.85	255	373	6.5	31,710

For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz

### WC-1 key features

- Suitable for pumping wastewater from:
  - 1 x toilet (base stand)
- Additional sanitary appliances optional e.g:
  - 1 x washbasin

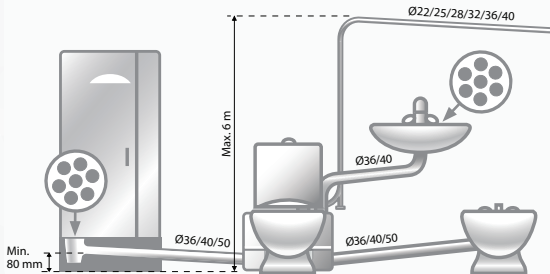
#### SOLOLIFT2 WC-1 for single toilet and washbasin



### WC-3 key features

- Suitable for pumping wastewater from:
  - 1 x toilet (base stand)
- Additional sanitary appliances optional e.g:
  - 1 x washbasin
  - 1 x cabinet shower
  - 1 x a bidet or urinal

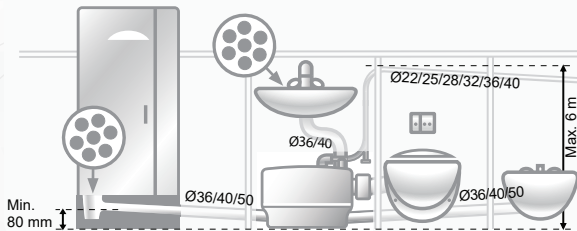
#### SOLOLIFT2 WC-3 for toilet, washbasin, bidet and a shower



### CWC-3 key features

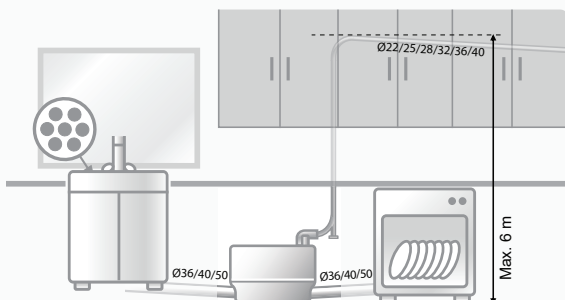
- Suitable for pumping wastewater from:
  - 1 x toilet wall hung
- Additional sanitary appliances optional e.g:
  - 1 x washbasin
  - 1 x cabinet shower
  - 1 x bidet or urinal

#### SOLOLIFT2 CWC-3 for wall-hung toilet, washbasin, bidet and a shower



### C-3 key features

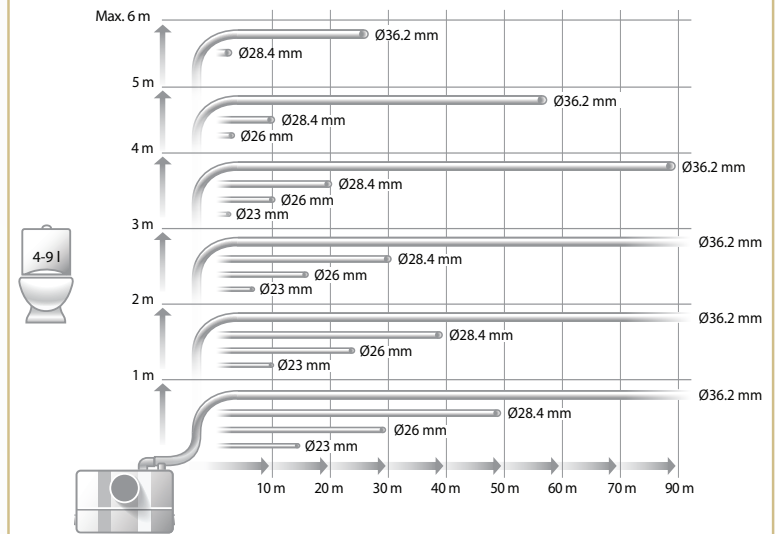
- Suitable for pumping grey wastewater from 3 different appliances in total e.g:
  - 1 x washing machine and/or dishwasher (hot water resistant up to 90°C for 30 minutes)
  - 1 x bathtub and/or cabinet shower
  - 1 x washbasin or kitchen sink
- Fits into pre-wall installations and has 20 mm free passage



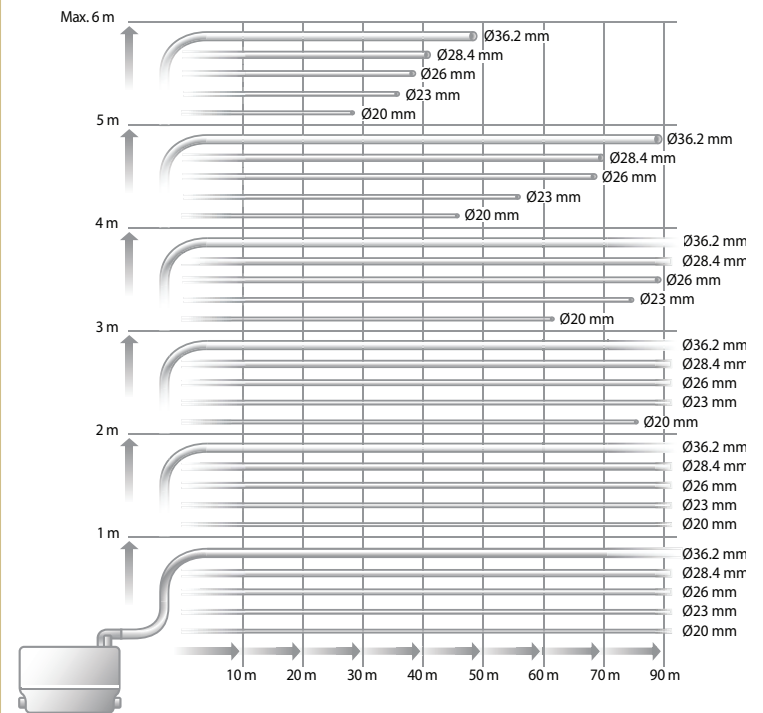
### SOLOLIFT2 WC-1

### SOLOLIFT2 WC-3

### SOLOLIFT2 CWC-3



### SOLOLIFT2 C-3



# MULTILIFT MSS

The Grundfos Multilift MSS is designed to collect and transfer wastewater (with faeces) in single family houses from a complete dwelling located below sewer level where drainage by gravity is impossible. The MULTILIFT MSS consists of a dry installed pump, collecting tank, level sensor, wired controller and a non-return valve, which are ready for installation and fully automatic, low-noise operation. The pump is made of stainless steel and has a clog-free vortex impeller. The collecting tank is pressure tight, gas and odour proof. Together with a blockage free level sensor, the MULTILIFT MSS ensures trouble-free, reliable operation.



## APPLICATIONS

- Collection and disposal of wastewater in single-family houses or light commercial applications.

## FEATURES

- **Easy to operate**  
LC 220 controller with the setting of inlet level, safety functions and separate alarm indications for convenient operation
- **Overload protection**  
Single phase motors are protected by a thermal switch in the windings and an additional thermal circuit breaker to cut out the motor in case of overload. If the motor is overloaded, it will stop automatically. When it has cooled down to normal operating temperature, it will restart automatically.
- **Fast and clean service**  
Servicing the dry installation pumps is easy, just empty the tank with the manual mode on the controller and dismantle the pump. The non-return valve is easily accessed for servicing.
- **Flooded basements**  
In a flood situation, the MSS continues to operate without problems. It is tested to withstand a flooding height of up to 2m for one week. Pump and tank are IP68 proof.

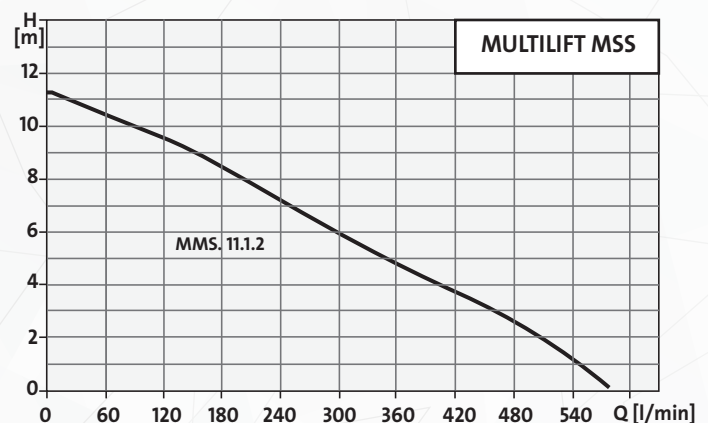
### • Powerful pumps

Designed for dry installation and intermittent operation, the motor can easily handle 40 starts per hour, which perfectly fits the needs of a single-family house or a light commercial application.

### • Strong and resistant tank

The special design of the light, seamlessly molded polyethylene (PE) tank with a wall thickness of upto 8mm, makes the MULTILIFT tank exceptionally pressure stable (pressure proof upto a 5m water column conforming to EN12050-1).

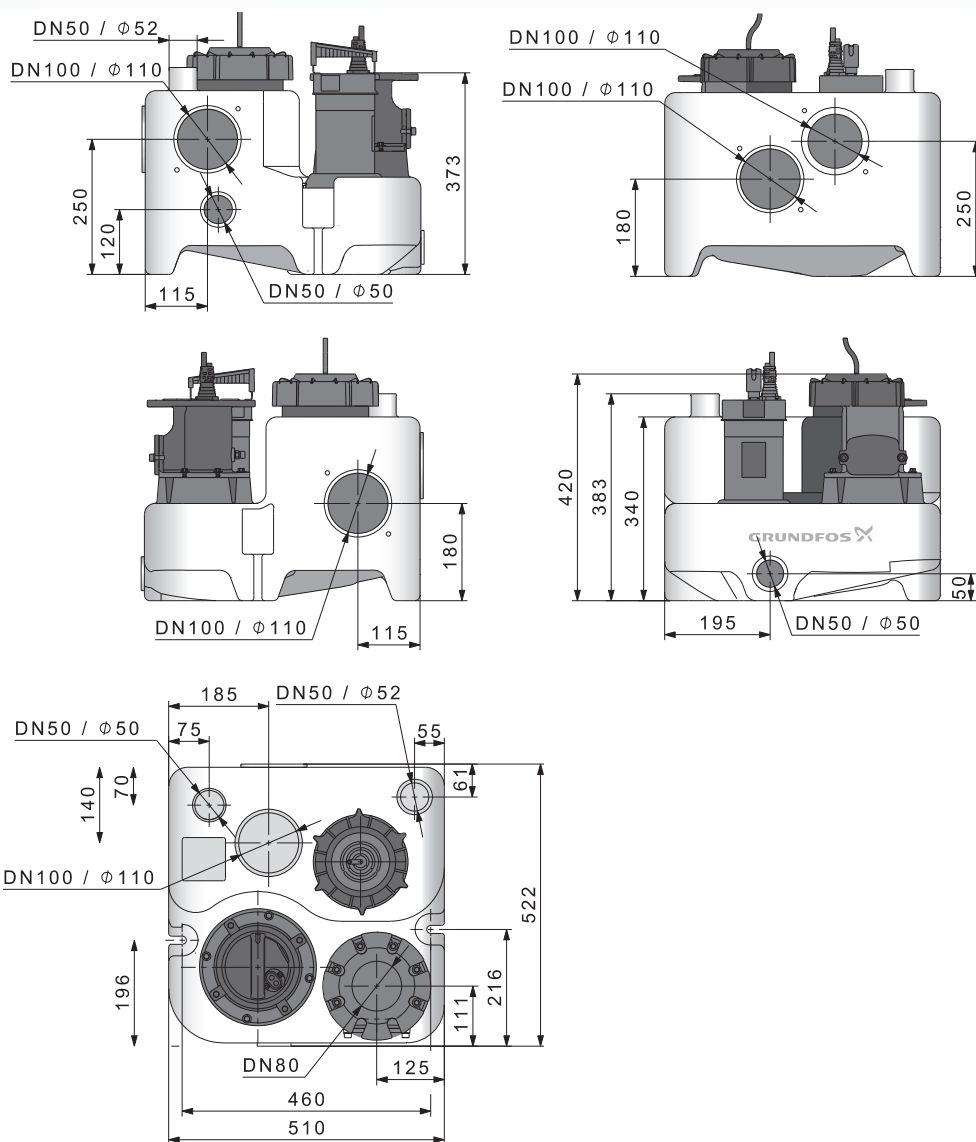
## PERFORMANCE CURVE



## OPERATING CONDITION

- **Liquid temperature**  
0° C to +40° C
- **Ambient temperature**  
0° C to +40° C
- **Relative air humidity**  
Max. 95%

## DIMENSIONS (mm)



## TECHNICAL DATA

- **Mains voltage**  
1 x 220-240 V, 50Hz
- **Enclosure class**  
IP68 (lifting station and motor)  
IP56 (controller)
- **Sound pressure level**  
< 70 dB (A)
- **Approvals and markings**  
CE, LGA, VDE GROST/EAC, CB and EMW.

### Product Range

PART CODE	MODEL	POWER		CURRENT I (A)	TANK VOLUME (Lts)			Max Practical Size (mm)	MRP
		KW	HP		TOTAL	AT 250 mm INLET	AT 180 mm INLET		
97901037	MSS.11.1.2	1.1	1.5	8	44	28	20	40	1,07,440

For all pumps, electrical supply is 1 phase 230 Volts AC, 50 Hz



# GIDPC DOT

GIDPC DOT is a Digital Pump Controller for Domestic application, which is easy to use programmable device for single phase pumps (mono-block or submersibles which require only running capacitor). It can be used to control the pumps up to 15 A.



## APPLICATIONS

- GI DPC DOT is designed and built for managing and controlling residential water i.e. the water used for indoor and outdoor household purposes, such as water transfer, tank filling, tank emptying, drainage application or pressure boosting. It is an ideal choice in residential segments, where water and energy conservation are of utmost importance.

## FEATURES

- LCD screen displays pump running information
- Push button calibration
- Overload protection
- Motor stalled protection
- Dry run protection without installing a float switch
- Under voltage protection (Default settings can be changed)
- Over voltage protection (Default settings can be changed)
- Transient surge protection
- Memory function retention during power off & power recovery
- Visual & audio alarm for fault prompt
- DIP switch settings to make it suitable for different applications like water supply,
- Drainage or pressure boosting
- Auto/Manual switch
- One set (03 nos.) of liquid level probes for clear water comes along with the panel.

## CONTROLLER COMPONENTS:

### Dip switch settings

Item	Switch Position	Messages & In Voltage Displaying Area	Item
1		000	Applied for water supply by liquid level control through probe/float switch
2		222	Applied for water supply by pressure control through pressure switch & pressure tank
3		1 1 1	Applied for drainage by liquid level control through float switch

## PARAMETER AND SPECIFICATIONS:

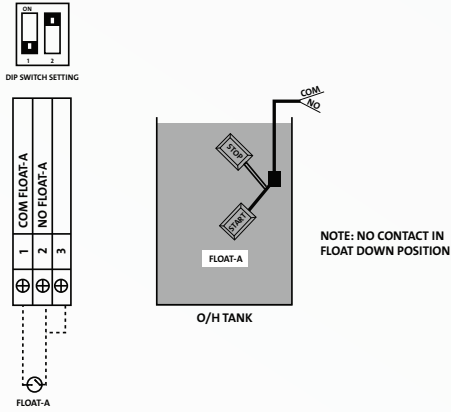
Main Technical Characteristics	
Control characteristic	Level control (with probes for clear water or with floats)
	Pressure control (with pressure switch)
Working modes	Manual/Auto
Main Technical Data	
Rated output current (amperes)	1.5 to 15 A
Rated input voltage	AC 220V / 50 HZ / Single Phase
Trip response time of over load	5sec - 5min
Trip response time short circuit	Less than 0.1 sec
Trip response time of under/over voltage	Less than 5 sec
Trip response time of dry run	6 sec
Recovery time of over load	30 min
Recovery time of under/over voltage	5 min
Recovery time of dry run	30 min (or this can be set manually)
Trip voltage of over voltage	253 Volts (or this can be set manually)
Trip voltage of under voltage	175 Volts (or this can be set manually)
PROTECTIONS COVERED	Dry run (without float/probe)
	Current Overload
	Transient surge
	Under voltage
	Over voltage
	Pump stalled

## CAPACITOR

Grundfos SmART Sub/Submersible Pumps does not require the starting capacitor. It only requires the running capacitor. The ratings of the capacitors are explained in the below table.

Motor Type	Rating (HP/KW)	Running Capacitor (mfd)	Capacitor Make
Gylcol+Water Filled - Tesla	0.5 / 0.37	16	EPCOS
Gylcol+Water Filled - Tesla	0.75 / 0.55	20	EPCOS
Gylcol+Water Filled - Tesla	1 / 0.75	25	EPCOS
Gylcol+Water Filled - Tesla	1.5 / 1.1	35	EPCOS
Gylcol+Water Filled - Tesla	2 / 1.5	40	EPCOS
SmART Sub HOS1/037	0.5 / 0.37	20	EPCOS
SmART Sub HOS1/075	1 / 0.75	30	EPCOS
SmART Sub HOS2/075	1 / 0.75	30	EPCOS
SmART Sub HOSD1//110	1.5 / 1.1	45	EPCOS
SmART Sub HOSD1.5/150	2 / 1.5	60	EPCOS

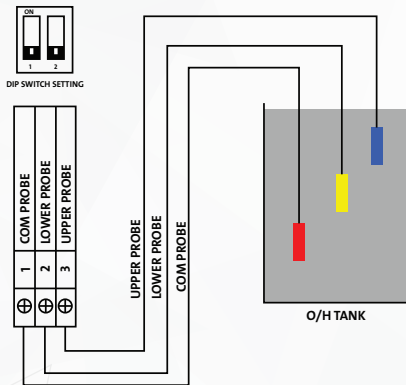
## DRAINAGE APPLICATION BY INSTALLING FLOAT SWITCH



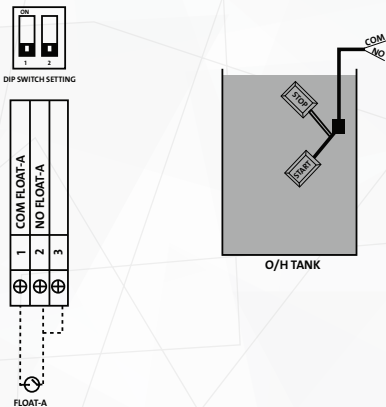
**Start condition:** When the “float switch A” reaches the up position, the controller will run the pump.  
**Stop condition:** When the “float switch A” reaches the dow position, the controller will stop the pump.

## WORKING APPLICATIONS

### Water supply/transfer by installing probes or Float switch



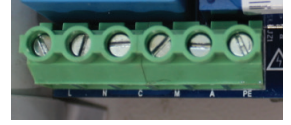
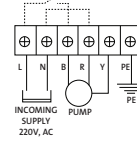
Application: Clear water supply - liquid level control (using probes)



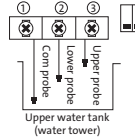
Application: Water supply - liquid level control (using float switch)

## TERMINALS

### Power terminals



### Control terminals



## PARAMETER

Please read this manual carefully before starting installation and operation. Any damage to the equipment caused due to failure to comply with the descriptions in this manual in installation or operation will be beyond the scope of the company’s quality guarantee.

### Calibration:

Setting of parameters (calibration of unit according to the connected load):



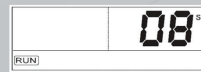
Press the **MODE** key to switch to manual mode. Make sure the pump is not running and LCD screen looks as shown on the left

1



Press the **START** key to run the pump, confirm the pump is running OK and drawing rated current. Also confirm the mains supply is healthy and incoming voltage is normal, LCD screen will display voltage and current being drawn by pump

2



Again press **START** key approximately for 3 secs and release when the unit makes a “Beep” sound and a countdown timer starts on the screen. LCD screen display looks like the image on the left

3



Pump stops running and parameter calibration completes. LCD screen display looks like the image on the left

4

## Product Range

PART CODE	MODEL	CURRENT (A)	NUMBER OF PUMP	PUMP DIM			PANEL PROTECTION	WEIGHT [kg]	MRP (₹)
				L	W	H			
99591666	CP 1 Pump 1 Phase 15A GIDPC DOT	Upto 15 AMPS	1 W	160	225	100	IP 54	1.5	8,040

For all pumps, electrical supply is 1 phase 220 Volts AC, 50 Hz

# GIDPC SINGLE PHASE

## SINGLE PUMP, SINGLE PHASE (1.5 TO 16A EACH) TWO PUMP, SINGLE PHASE (1.5 TO 16A EACH)

GIDPC single phase is a Digital Pump Controller for Domestic application, which is easy to use - programmable device for single phase pumps (mono-block or submersibles which require only running capacitor). It can be used to control the pumps up to 15A



### FEATURES

- LCD screen displays pump running information
- Push button calibration
- Overload protection
- Motor stalled protection
- Dry run protection without installing a float switch
- Under voltage protection (Default settings can be changed)
- Over voltage protection (Default settings can be changed)
- Transient surge protection
- Memory function retention during power off & power recovery
- Visual & audio alarm for fault prompt
- DIP switch settings to make it suitable for different applications like water supply, Drainage or pressure boosting
- Auto/Manual switch
- One set (03 nos.) of liquid level probes for clear water comes along with the panel.

### Product Range

PART CODE	MODEL	CURRENT (A)	NUMBER OF PUMP	PUMP DIM			PANEL PROTECTION	WEIGHT [kg]	MRP (₹)
				L	W	H			
98719424	GI DPC 1 Pump, 1 Phase, up to 15A	Upto 15 AMPS	1 W	225	225	100	IP 55	1.5	10,900
99575830	2 Pump, 1 Phase, 15 A	Upto 15 AMPS	1W+1S	320	420	138	IP 55	5.5	29,856

For all pumps, electrical supply is 1 phase 220 Volts AC, 50 Hz

### Main Technical Characteristics

Control characteristic	Level control (with probes for clear water or with floats)
	Pressure control (with pressure switch)
Working modes	Manual/Auto
Main Technical Data	
Rated output current (amperes)	1.5 to 15 A
Rated input voltage	AC 220V / 50 HZ / Single Phase
Trip response time of over load	5sec - 5min
Trip response time short circuit	Less than 0.1 sec
Trip response time of under/over voltage	Less than 5 sec
Trip response time of dry run	6 sec
Recovery time of over load	30 min
Recovery time of under/over voltage	5 min
Recovery time of dry run	30 min (or this can be set manually)
Trip voltage of over voltage	253 Volts (or this can be set manually)
Trip voltage of under voltage	175 Volts (or this can be set manually)
PROTECTIONS COVERED	Dry run (without float/probe)
	Current Overload
	Transient surge
	Under voltage
	Over voltage
	Pump stalled
Permissible ambient temperature	-5 to +50 deg C
Degree of protection	IP 55

# GIDPC THREE PHASE

## SINGLE PUMP, THREE PHASE (1.5 TO 16A EACH)

## TWO PUMP, THREE PHASE (1.5 TO 16A EACH)

The GIDPC 3phase digital pump controller model is easy to use programmable controller and protection device for direct start. The equipment is in three phase, with output power ranging from 0.75kW – 7.5kW (1.5 - 16A). The controller has many operation modes for adapting different pumping applications. Important features that distinguish the GIDPC Series Digital Pump Controllers from other controllers are the push button calibration for overload and the ability of dry run protection without float switches. It shows pump parameter, status and faults, etc..

The controller is useful in all cases where there is a need to control and protect pump installations and managing the automatic operation by a variety of switching methods.



### TYPICAL APPLICATIONS

- Storm Water
- Sewage
- Booster sets
- Rainwater reuse
- Irrigation
- Water supply

### FEATURES

- Built-in function switch for:
  - Drainage by Water level control through float switches
  - Boosting water supply by pressure control through pressure switch
  - Transfer of water by Water level control through float switches
- Dry run protection without float switches
- Auto/ manual switch with screen lock in AUTO mode
- Dynamic LCD displaying for pump running status
- Protect the pump against many faults
- Push button calibration
- Pump accumulative run time
- Last five fault records
- RS485 communication (Modbus)
- Starts and stops the pump in accordance with liquid levels or pressure settings
- Pump shaft anti-rust features

#### Product Range

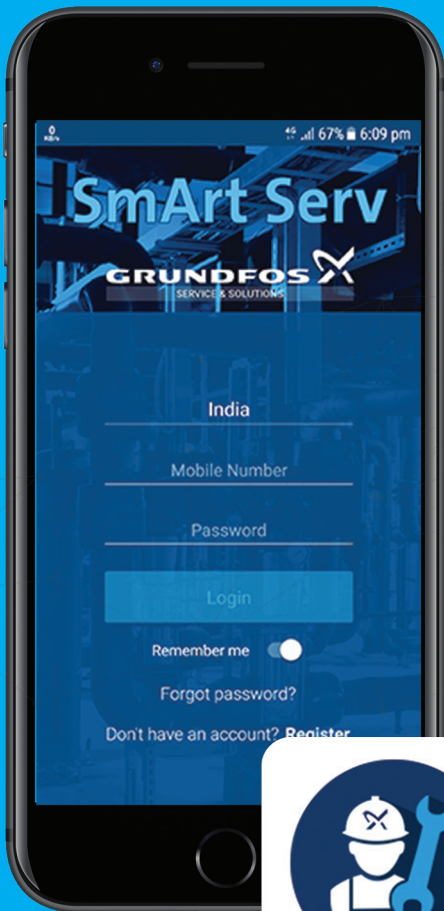
PART CODE	MODEL	CURRENT (A)	NUMBER OF PUMP	PUMP DIM			PANEL PROTECTION	WEIGHT [KG]	MRP (₹)
				L	W	H			
98719402	1 Pump, 3 Phase, 8 A, Auto	Upto 8 AMPS	1 W	225	300	100	IP 55	3	18,570
98719406	1 Pump, 3 Phase, 12 A, Auto	Upto 12 AMPS	1 W	225	300	100	IP 55	3	20,070
98719408	1 Pump, 3 Phase, 16 A, Auto	Upto 16 AMPS	1 W	225	300	100	IP 55	3	22,980
99210628	2 Pump, 3 Phase, 8 A, Auto	Upto 8 AMPS	1W+1S	320	420	138	IP 55	5.5	45,570
99210629	2 Pump, 3 Phase, 12 A, Auto	Upto 12 AMPS	1W+1S	320	420	138	IP 55	5.5	47,080
99140817	2 Pump, 3 Phase, 16 A, Auto	Upto 16 AMPS	1W+1S	320	420	138	IP 55	5.5	51,870

For all pumps, electrical supply is 1 phase 380-415 Volts AC, 50 Hz

Main Technical Characteristics	
Control characteristic	Double liquid level control Pressure control
Working modes	Manual / auto
Drainage application	By using float switch
Pressure Boosting application	By using pressure switch
Water Transfer application	By using float switch
Main Technical Data	
Rated output power (amperes)	8 A, 12 A and 16 A
Rated input voltage	415 V
Trip response time of over load	5 sec - 5 min
Trip response time of open phase	< 2 sec
Trip response time short circuit	Less than 0.1 sec
Trip response time of under/over voltage	Less than 5 sec
Trip response time of dry run	6 sec (adjustable)
Recovery time of over load	30 min (adjustable)
Recovery time of under/over voltage	5 min
Recovery time of dry run	30 min (adjustable)
Trip voltage of over voltage	115 % of rated input voltage
Trip voltage of under voltage	80 % of rated input voltage
PROTECTIONS COVERED	
	Dry run (without float/ probe)
	Overload (auto-calibrated or can be set)
	Transient surge
	Under voltage
	Over voltage
	Pump stalled
	Short circuit
	Phase loss (incoming & outgoing)
	Phase reversal
	Pump shaft anti rust protection
Other Technical Data	
Permissible ambient temperature	-5 to +50 deg C
Degree of protection	IP 55

# NEED SERVICE FOR GRUNDFOS PRODUCTS & SOLUTIONS USE GRUNDFOS SmArt Serv APP

Being the world's largest pump manufacturer, we are always committed to delivering service excellence to our customers. In an endeavor to providing prompt service, we have come up with an intelligent solution - the Grundfos SmArt Serv app. It is the quickest way of getting service support for Grundfos products and solutions



## With SmArt Serv App You can :

- Find the nearest service provider
- Track the status of service requests
- Escalate late responses
- Get a service report/quotation for spare parts
- Provide feedback on service quality



SmArt Serv

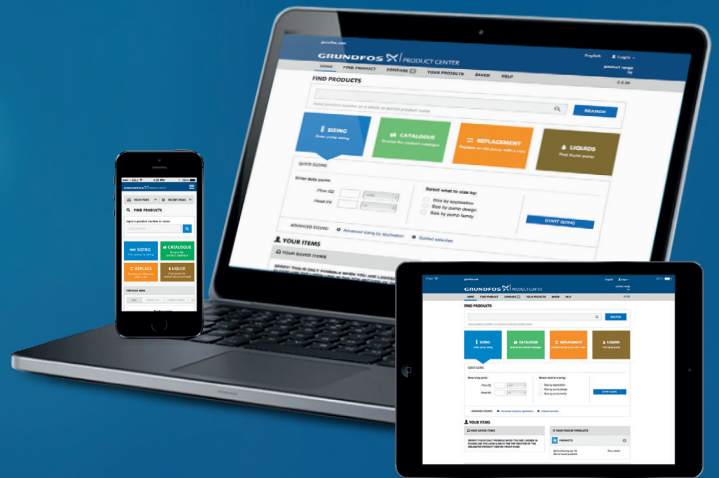


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# WORLD OF GRUNDFOS IN YOUR HAND



THE GRUNDFOS PRODUCT CENTER ONLINE TOOL LETS YOU SIZE PUMPS, BROWSE THE GRUNDFOS PRODUCT CATALOGUE, FIND APPROPRIATE REPLACEMENT PUMPS AND FIND PUMPS FOR HANDLING SPECIFIC LIQUIDS

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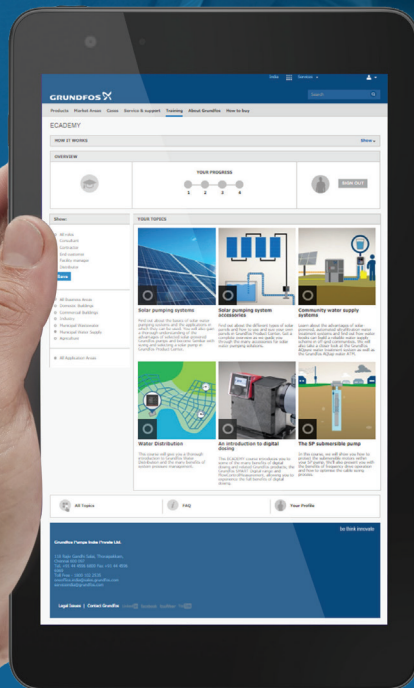


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Grundfos Academy is a free digital training tool and information platform that keeps you abreast of the latest developments within Grundfos and the pump industry. Once you sign up, you have free access to the entire Grundfos Academy online training platform, tailored specifically to your needs.

This easy to use online tool offers you training videos, downloadable presentations and in-depth articles you can work through at your own pace on your smart-phone, tablet or computer.

Enter the Grundfos academy or visit <https://in.grundfos.com/ecademy.html>



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