



Domestic Water Supply System

Fields of Application

Water supply for

- One- or two-family houses,
- Agricultural installations,
- Irrigation systems,
- Washing plants.

Medium Handled

Clean to turbid water not containing aggressive, abrasive or solid substances.

Operating Data

Q up to 8 m³/h, 2.22 l/s

H up to 54 m

H_s up to 8 m

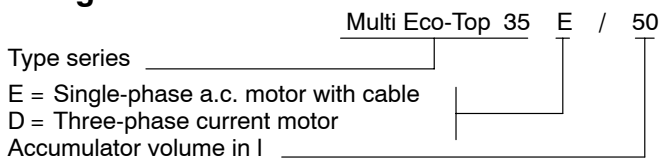
t up to 50 °C in continuous operation, 70 °C for 10 minutes

p_d see table

H_s = suction lift

p_d = max. pressure at pump discharge nozzle

Designation



Design

The domestic water supply systems comprises:

- Self-priming multistage centrifugal pump,
- Membrane-type accumulator, pre-pressurised in the factory,
- Pressure switch for automatic operation, preset in the factory. (The setting can be modified to match the output to the system requirements.)



Under no circumstances must the max. pressure p_d be exceeded.

Materials

Pump

| | |
|-----------------|--------------------------------------|
| Pump casing | Cast iron coated with anti-corrosive |
| Discharge cover | Cast iron coated with anti-corrosive |
| Stage casing | Noryl |
| Shroud | Stainless steel |
| Diffusers | Polypropylene |
| Impellers | Noryl |
| Shaft | Chrome steel |
| Motor housing | Aluminium |

Accumulator

Steel with replaceable membrane, drinking water quality.

Drive

Single-phase a.c. motor:

220-240 V / 50 Hz with integrated overload protection, IP 44, insulation class F.

Three-phase motor:

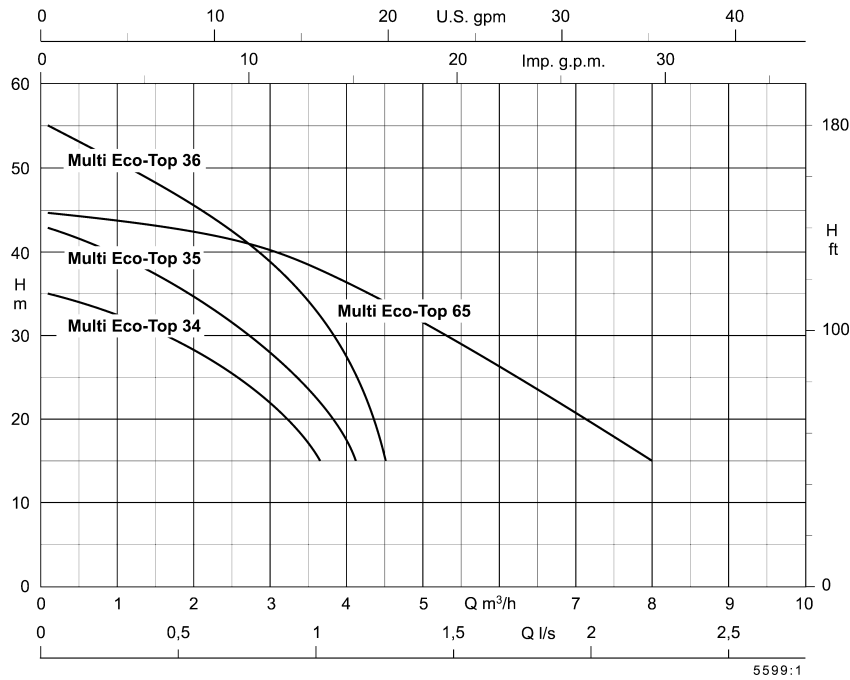
380-415 V / 50 Hz, IP 44, insulation class F.

With grease-lubricated deep-groove ball bearings sealed for life.

Conformity Marks



CE Meets the European standards.

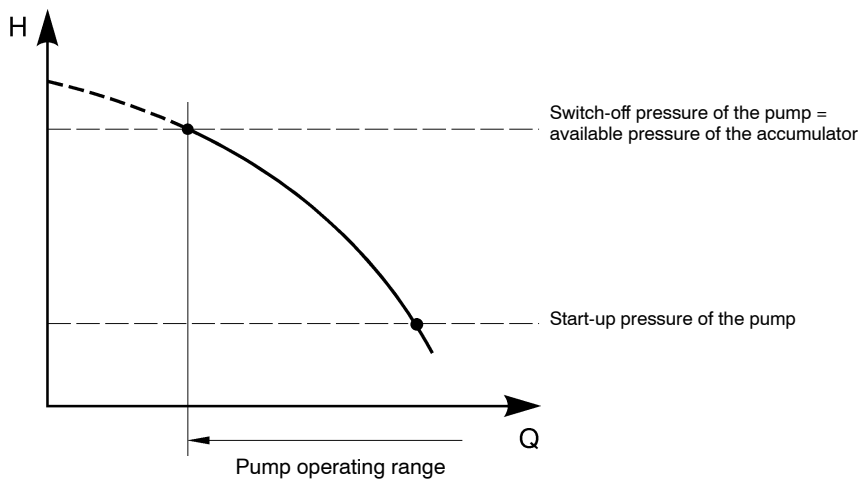


The discharge head is the sum of the suction lift + pressure head + friction losses in the suction and discharge lines + residual pressure.
 The flow rate depends on the relevant discharge head.
 Maximum suction lift for all pump sizes: approx. 8 m.

| | DN | | Total volume | Effective volume | Factory-set pressure | | P ₁ | 50 Hz, ≈2800 1/min | | | H07RN-F | | Ident No. | kg |
|------------------|--------------|-----------------|--------------|------------------|----------------------|-----|----------------|--------------------|---------|---------|---------|-----------------|------------|----|
| | Suction side | Dis-charge side | | | On | Off | | 1~230 V | 3~230 V | 3~400 V | m | mm ² | | |
| 34 E / 20 | Rp 1 | G 1 | 20 | 6.5 | 1.5 | 2.5 | 0.66 | 3.1 | - | - | 1.5 | 3x1 | 40 982 854 | 19 |
| 35 E / 20 | Rp 1 | G 1 | 20 | 7 | 1.5 | 3.0 | 0.8 | 3.7 | - | - | 1.5 | 3x1 | 40 982 855 | 19 |
| 35 E / 50 | Rp 1 | G 1 | 50 | 17 | 1.5 | 3.0 | 0.8 | 3.7 | - | - | 1.5 | 3x1 | 40 982 856 | 21 |
| 36 E / 50 | Rp 1 | G 1 | 50 | 17 | 1.5 | 3.0 | 1.1 | 5.0 | - | - | 1.5 | 3x1 | 40 982 857 | 24 |
| 36 D / 50 | Rp 1 | G 1 | 50 | 17 | 1.5 | 3.0 | 1.1 | - | 4.3 | 2.5 | - | - | 40 982 858 | 24 |
| 65 E / 50 | Rp 1 1/4 | G 1 | 50 | 17 | 1.5 | 3.0 | 1.3 | 6.1 | - | - | 1.5 | 3x1 | 40 982 859 | 24 |
| 65 D / 50 | Rp 1 1/4 | G 1 | 50 | 17 | 1.5 | 3.0 | 1.3 | - | 4.7 | 2.7 | - | - | 40 982 860 | 24 |

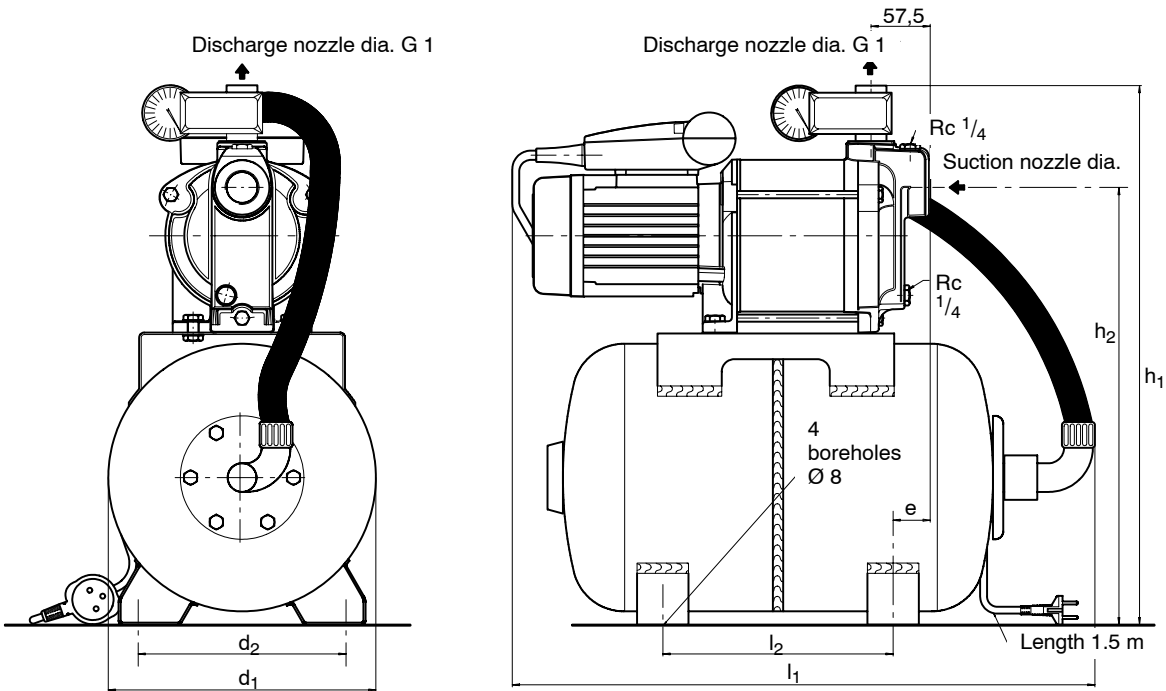
p_d = max. discharge pressure in bar as listed in the following table

| Multi Eco-Top | F | GB, DK, I, IRL | A, B, CH, CZ, D, E, NL, P, PL, S |
|---------------|-----|----------------|----------------------------------|
| 34 | 3.9 | 6 | 6 |
| 35 | 3.9 | 6 | 7 |
| 36 | 3.9 | 6 | 7 |
| 65 | 3.9 | 6 | 7 |



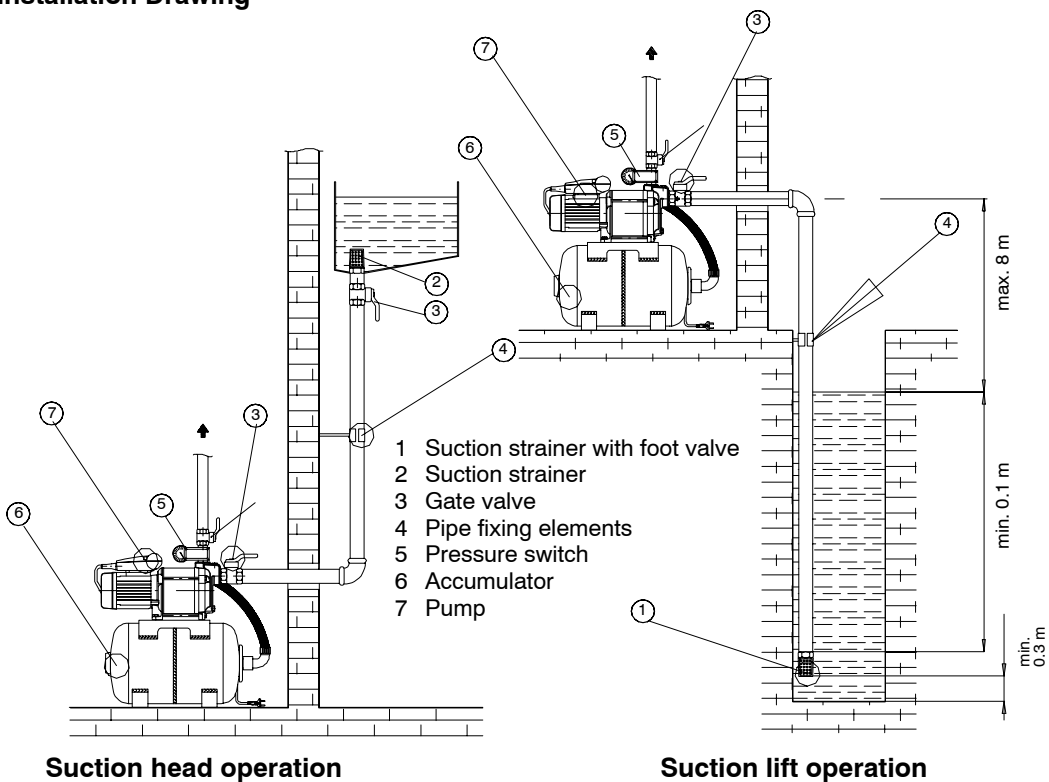
- The start-up and switch-off pressures can be set to meet the system requirements.
- Max. switch-off pressure p_d.
- The max. inlet pressure must be lower than the start-up pressure by at least 0.5 bar.

Multi Eco-Top
mm



| Multi Eco-Top | Suction nozzle dia. | d ₁ | d ₂ | l ₁ | l ₂ | h ₁ | h ₂ | e |
|---------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----|
| 34/20 | Rp 1 | 260 | 202 | 570 | 225 | 525 | 425 | 40 |
| 35/20 | Rp 1 | 260 | 202 | 570 | 225 | 525 | 425 | 40 |
| 35/50 | Rp 1 | 360 | 320 | 650 | 300 | 620 | 525 | 15 |
| 36/50 | Rp 1 | 360 | 320 | 650 | 300 | 620 | 525 | 15 |
| 65/50 | Rp 1 1/4 | 360 | 320 | 650 | 300 | 620 | 525 | 15 |

Installation Drawing



Pump Accessories

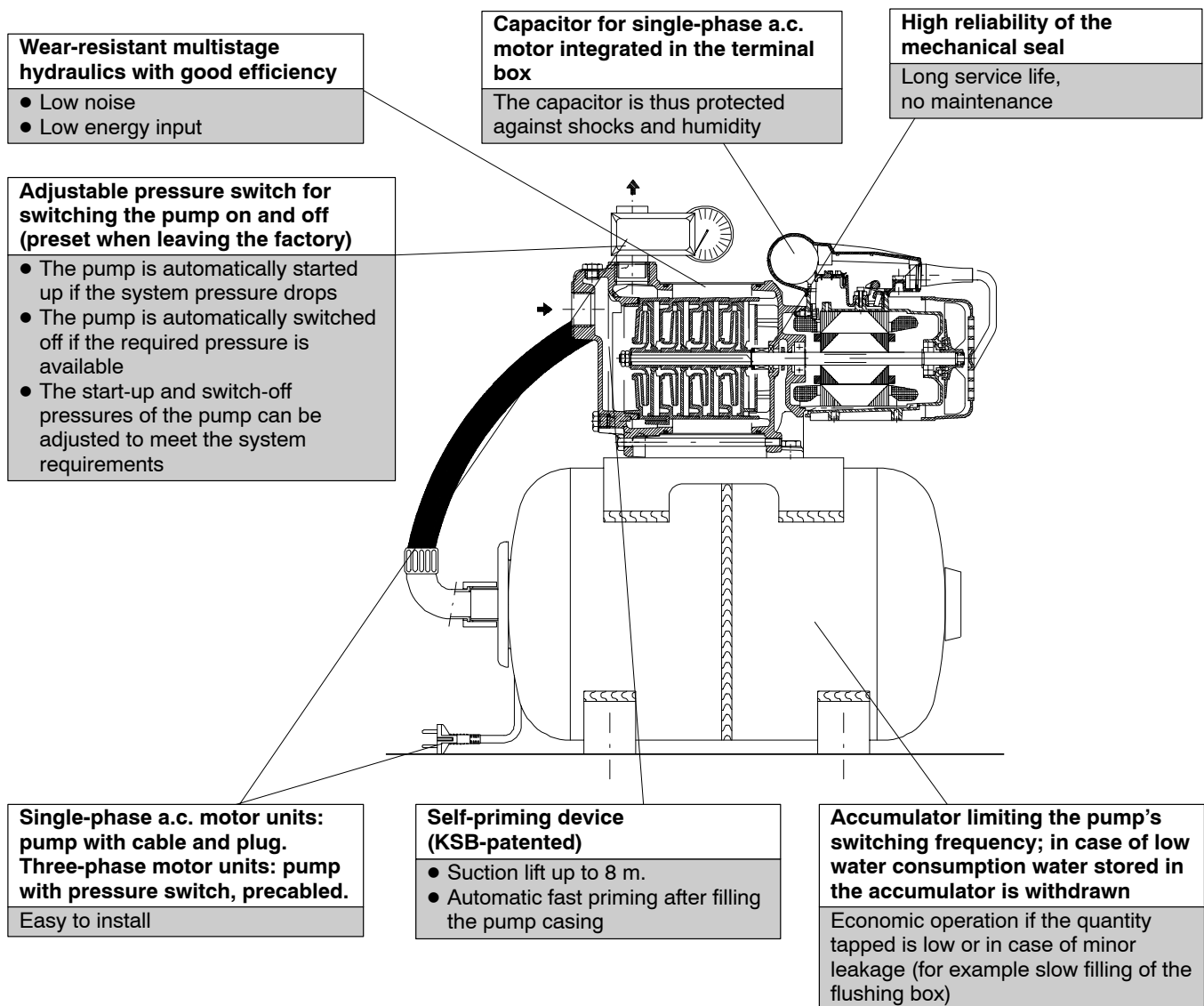
| | | ≈kg |
|--|------------|-----|
| Suction strainer with foot valve, PVC, G 1 (for DN 25 pipe) | 40 980 710 | 0.1 |
| Suction hose kit, complete with suction strainer and foot valve, 7 m, G 1 (DN 25) | 40 980 203 | 1.5 |
| Float switch for filling 3 m | 11 037 759 | 0.6 |
| with shockproof adaptor plug 5 m | 11 037 760 | 0.9 |
| (NC contact); circuit open when switch floats on top 230 V AC, 50 Hz, max. 8 A, (H 07 RN-F3G1) | | |
| Weight for float switch | 01 076 688 | 0.3 |

Electric Accessories

| | | ≈ kg |
|--|------------|------|
| Steckmat safety switch 1~230 V, 10 A., fast switch-off in approx. 0.03 seconds even in the event of slight and harmless leakage currents as low as approx. 0.03 amp | 00 534 217 | 0.4 |
| Mains water back-up equipment consisting of: | | |
| Float switch and switching plug | | |
| cable length 10 m | 40 981 828 | 1.4 |
| cable length 20 m | 40 981 043 | 2.6 |
| Solenoid valve with 3 m cable and shock- proof plug | | |
| R 1/2 | 40 981 618 | 2.3 |
| R 1 | 42 207 828 | 3.0 |
| R 2 | 19 071 879 | 4.5 |

Product Features

To Our Customers' Benefit



Subject to technical modifications without prior notice.

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