



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

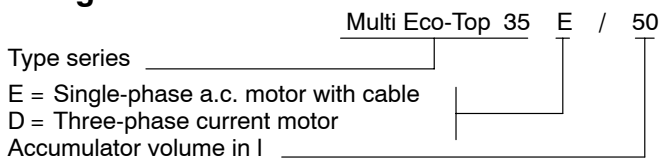
t up to 50 °C in continuous operation, 70 °C for 10 minutes

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:

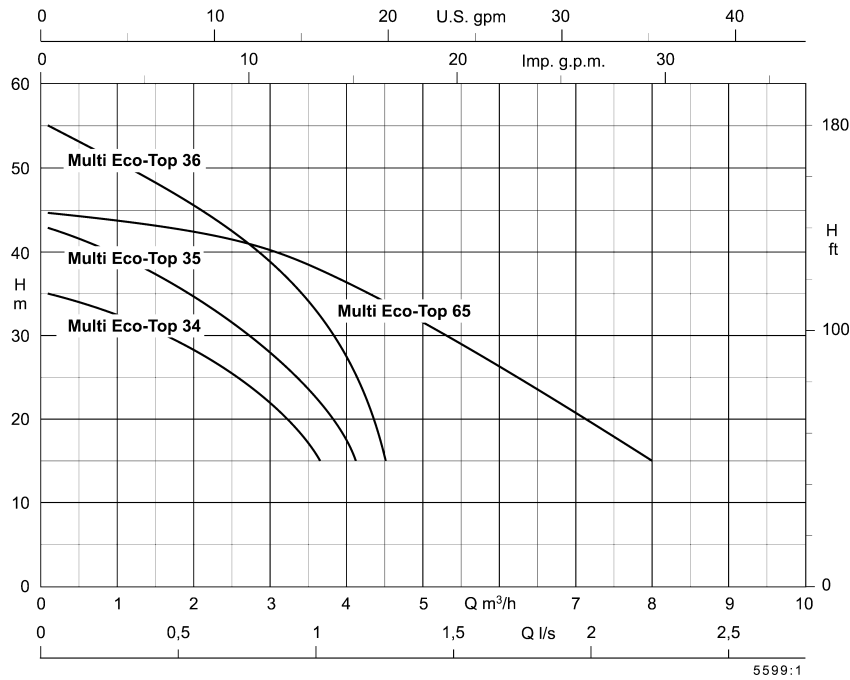
380-415 V / 50 Hz, IP 44, insulation class F.

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

Conformity Marks



CE Meets the European standards.

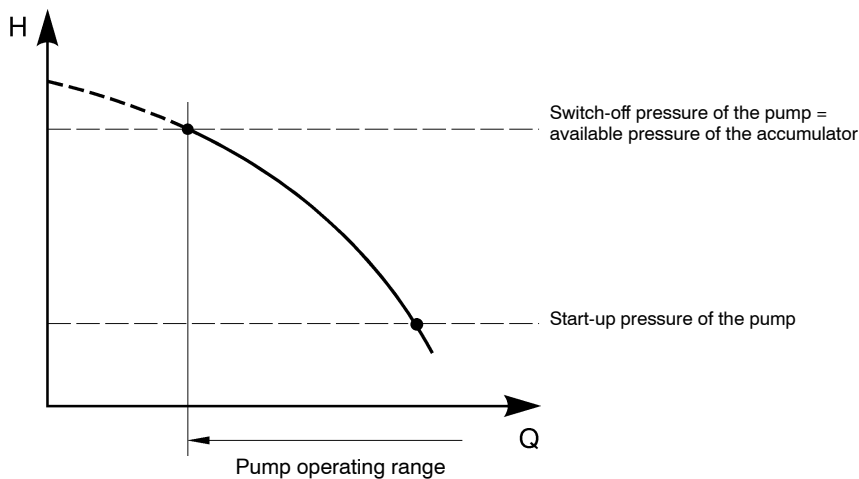


The discharge head is the sum of the suction lift + pressure head + friction losses in the suction and discharge lines + residual pressure.
 The flow rate depends on the relevant discharge head.
 Maximum suction lift for all pump sizes: approx. 8 m.

	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

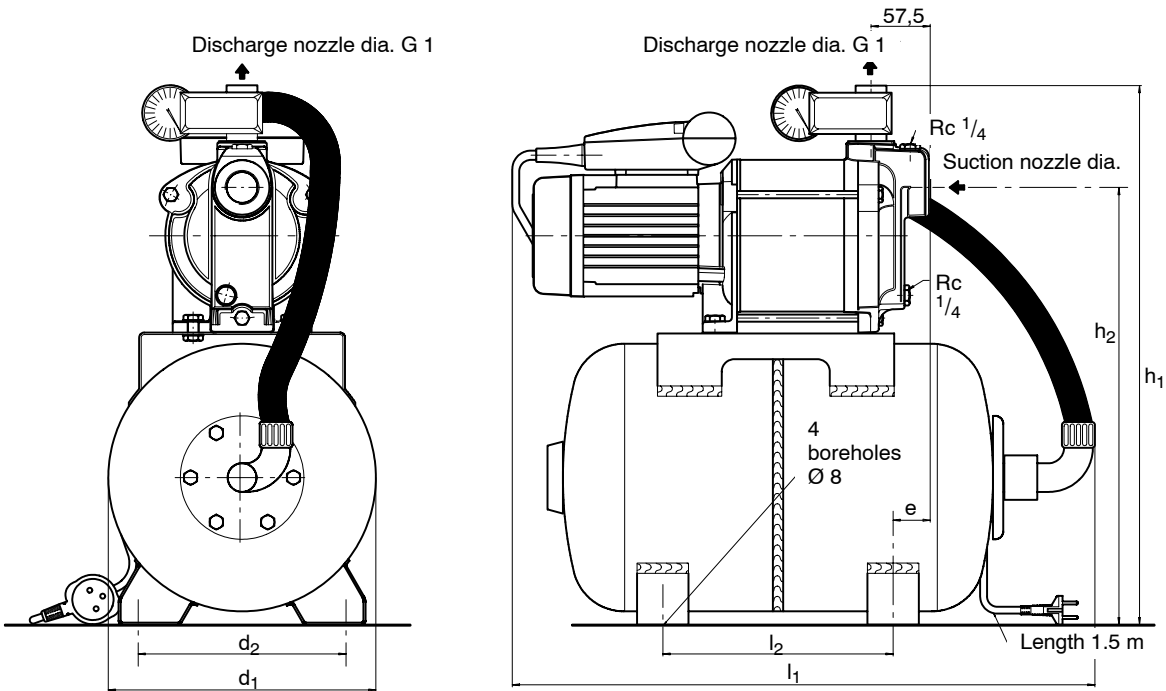
p_d = max. discharge pressure in bar as listed in the following table

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



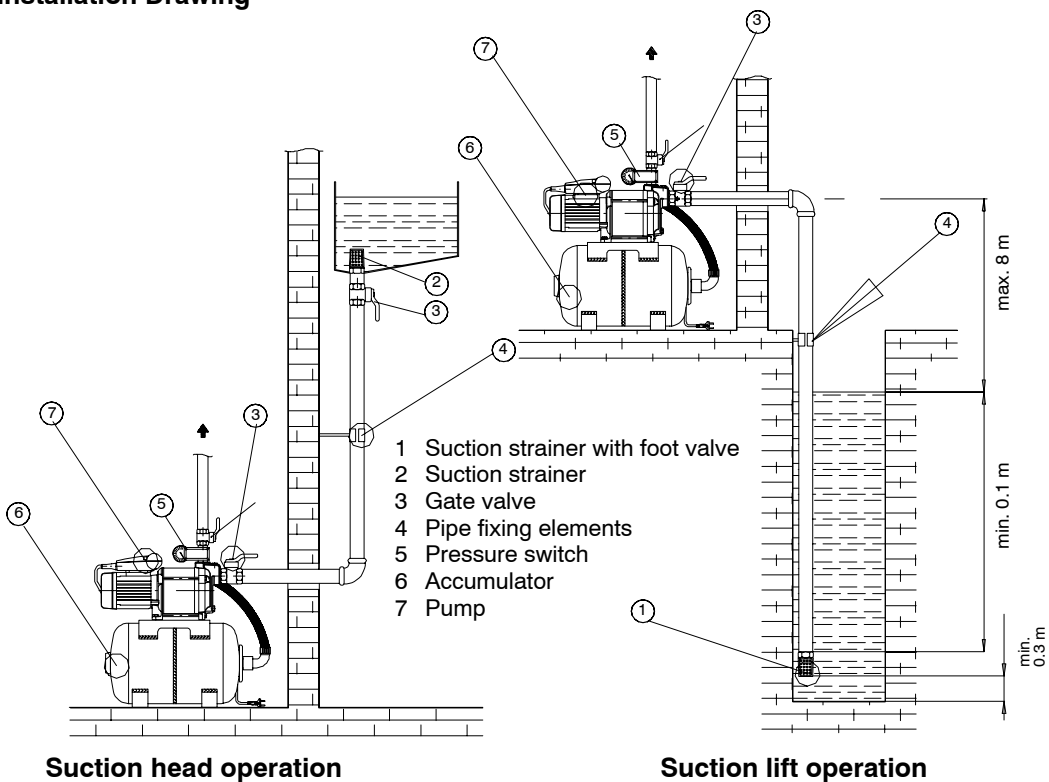
- The start-up and switch-off pressures can be set to meet the system requirements.
- Max. switch-off pressure p_d.
- The max. inlet pressure must be lower than the start-up pressure by at least 0.5 bar.

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

Wear-resistant multistage hydraulics with good efficiency

- Low noise
- Low energy input

Capacitor for single-phase a.c. motor integrated in the terminal box

The capacitor is thus protected against shocks and humidity

High reliability of the mechanical seal

Long service life, no maintenance

Adjustable pressure switch for switching the pump on and off (preset when leaving the factory)

- The pump is automatically started up if the system pressure drops
- The pump is automatically switched off if the required pressure is available
- The start-up and switch-off pressures of the pump can be adjusted to meet the system requirements

Single-phase a.c. motor units: pump with cable and plug. Three-phase motor units: pump with pressure switch, precabled.

Easy to install

Self-priming device (KSB-patented)

- Suction lift up to 8 m.
- Automatic fast priming after filling the pump casing

Accumulator limiting the pump's switching frequency; in case of low water consumption water stored in the accumulator is withdrawn

Economic operation if the quantity tapped is low or in case of minor leakage (for example slow filling of the flushing box)

Subject to technical modifications without prior notice.

5181.5-10 / 1.5.2003

