

Submersible Supply Pump Packages

Accessory for Aqua-Control 600, 750, 1100S, 1500Eco, 2100S, 2500Eco, AC-HT Break / Header Tank Systems

230 V versions - for Aqua-Control 600, 750, 1100S, 1500Eco, AC-HT Break / Header Tank Systems,
Item N^o: G13330, G13331, G13332, G13333, G13380, G13481, G13482, G13484, G13486, G13488, G13490,
G13492, G13494, G13496

400 V versions - for Aqua-Control 2100S and 2500Eco),
Item N^o: G13373, G13374, G13375, G13376, G13377



Typical applications:

- For use within commercial rainwater harvesting and greywater recycling systems. Low pressure pump range I to VII for lifting applications. High pressure range VIII to XV for pressurized distribution. For pumping of prefiltered water.
- For Aqua-Control systems to pump water from the non-potable water storage tank to the Aqua-Control unit.
- For AC-HT Break Tank Systems to pump water from the main non-potable water storage tank to the break tank.
- For AC-HT Header Tank Systems to pump water from the main non-potable water storage tank to the header tank.

Features:

- Single or multi-stage submersible pump with hydraulic assembly positioned under the motor which is cooled by the pumped liquid. Silent running lifting or pressure pump with continuous service asynchronous submersible induction motor, standard or double mechanical seal, corrosion resistant stainless steel hardware and casing with integrated handle
- Suction side kit with 1.5 m x 40 mm floating extraction including coarse filter, non return valve, float ball, brass fittings and hose clamps
- Pressure side kit with 2.5 m x 40 mm pressure hose including brass fittings - reducer, hose connector and 90° elbow hose-connector to MDPE Pipe (1 ½" x 50 mm)
- Nylon lifting rope with stainless steel carabiner and fixing kit
- Connection box including fixing kit for the extension of the power supply cable

Functioning principle:

The submersible supply pump packages are used in non-potable water systems, mainly in such with underground storage tanks. The floating extraction on the suction side of the submersible pump ensures optimal water quality by extracting the non-potable water from the cleanest layer, approx. 15 cm below the surface.

For Aqua-Control units 600, 750, 1100 S and 1500 Eco, the submersible supply pumps are used in water reclamation systems where the non-potable water storage tank is located outside the maximum suction distance of the self-priming booster pump set of integrated the Aqua-Control unit (refer to diagram in relevant Aqua-Control specification sheet).

For Aqua-Control 2100 S and 2500 Eco the submersible supply pumps are used if the end of the suction pipe within the non-potable water storage tank is below the installation level of the integrated non-self priming booster pump set.

In water reclamation systems using the AC-HT Break Tank concept the submersible supply pumps are used to lift the water from the main non-potable water storage tank to the Break Tank for further distribution to non-potable water applications via booster pump set.

In water reclamation systems using the AC Header Tank concept the submersible supply pumps are used to lift the water from the main non-potable water storage tank to the Header Tank for further distribution to non-potable water applications via gravity.

Powersupply, on/off switch and dry-run protection of the submersible pumps are provided via the Aqua-Control unit or respective via the AC-HT Break / Header Tank System control panel. Possible supply pump arrangements are single duty pump, duty/assist double pump set or duty/standby double pump set.

Recommended accessories:

Connection set for second supply pump (G 13335) – for double submersible pump arrangement.

Technical data for submersible supply pumps I to III:

Supply pump package:	For the AC:	Product code:	General details						Electrical details						
			Height (mm)	Diameter (mm)	Weight (kg)	Max. pressure head (m)	Max. flow rate (l/min)	Max. temperature	Main power supply	Nominal current	Power output	µF	Class of protection:	Class of isolation:	Number of revolutions (min-1):
I	600-1100-1500	G13330	273	167	4.8	8.25	170	50°C	230 V 50 Hz	2.3 A	0.25 kW	8	IP 68	F	2800
	2100-2500	G13373							400 V 50 Hz	0.8 A					
II	600-1100-1500	G13331	352	210	12	12.2	260	35°C	230 V 50 Hz	4.4 A	0.55 kW	16	IP 68	F	2800
	2100-2500	G13374							400 V - 50 Hz	2.0 A					
III	600-1100-1500	G13332	352	210	12.7	13.6	280		230 V 50 Hz	5.6 A	0.74 kW	20	IP 68	F	2800
	2100-2500	G13375							400 V 50 Hz	2.4 A					

Technical data submersible supply pumps IV to XI:

Supply pump package:	For the AC:	Product code:	General details						Electrical details							
			Hight (mm)	Diameter (mm)	Weight (kg)	Max. pressure head (m)	Max. flow rate (l/min)	Max. temperature	Main power supply	Nominal current	Power output	µF	Class of protection:	Class of isolation:	Number of revolutions (min-1):	
IV	600-1100-1500	G13333	377	210	13.8	17.4	330		230 V 50 Hz	7.3 A	1.1 kW	30				2800
	2100-2500	G13376							400 V 50 Hz	3.0 A						
V	2100-2500	G13377	377	210	13.5	18.74	360	35 ^o C	400 V 50 Hz	3.3 A	1.5 kW					
VI	600-1100-1500	G 13380	474	160	11	13.5	275	40 ^o C	230 V 50 Hz	5.0 A	1.1 kW	16				2900
VII	600-1100-1500	G 13481	584	219	43.3	19.2	500	55 ^o C	230 V 50 Hz	9.2 A	1.1 kW	40				
VIII	600-1100-1500	G 13482			16.5					230 V 50 Hz	3.7 A	0.55 kW	20			
	2100-2500	G 13483			17					400 V 50 Hz	1.62 A					
IX	600-1100-1500	G 13484	603	224	16.7	42				230 V 50 Hz	4.4 A	0.55 kW	16			
	2100-2500	G 13485			17.3					400 V 50 Hz	1.65 A					
X	600-1100-1500	G 13486			17	56				230 V 50 Hz	5.2 A	0.75 kW	16			
	2100-2500	G 13487			17.5					400 V 50 Hz	1.85 A					
XI	600-1100-1500	G 13488	670		18	72				230 V 50 Hz	6.5 A	1.0 kW	25			
	2100-2500	G 13489			18.5					400 V 50 Hz	2.4 A					

Technical data submersible supply pumps IV to XI:

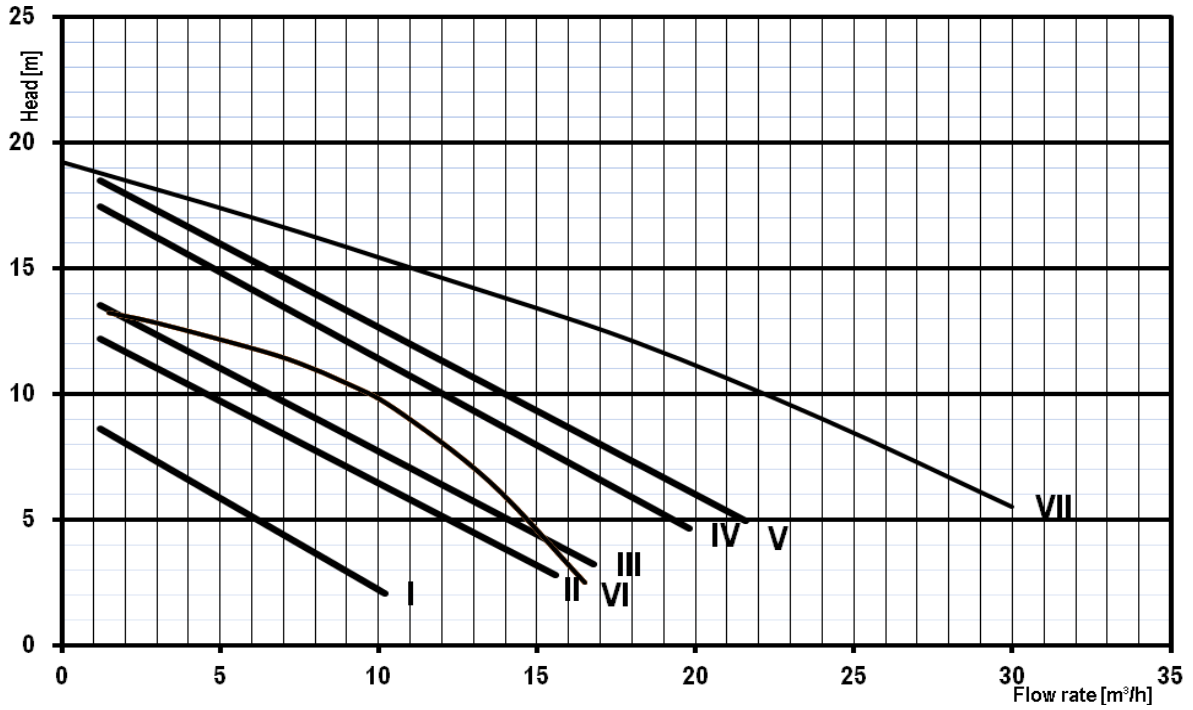
Supply pump package:	For the AC:	Product code:	General details						Electrical details											
			Hight (mm)	Diameter (mm)	Weight (kg)	Max. pressure head (m)	Max. flow rate (l/min)	Max. temperature	Main power supply	Nominal current	Power output	µF	Class of protection:	Class of isolation:	Number of revolutions (min-1):					
XI	600-1100-1500	G 13488	670	224	18	72	80	40°C	230 V 50 Hz	6.5 A	1.0 kW	25	IP68	F	2800					
	2100-2500	G 13489			18.5				400 V 50 Hz	2.4 A										
XII	600-1100-1500	G 13490	697		19	86			80	40°C	230 V 50 Hz	7.8 A				1.2 kW	30	IP68	F	2800
	2100-2500	G 13491			19.5						400 V 50 Hz	2.9 A								
XII I	600-1100-1500	G 13492	603		17	51			120	40°C	230 V 50 Hz	5.2 A				0.75 kW	16	IP68	F	2800
	2100-2500	G 13493			17.5						400 V 50 Hz	1.85 A								
XI V	600-1100-1500	G 13494	670		18	64	120			40°C	230 V 50 Hz	6.5 A				1.0 kW	25	IP68	F	2800
	2100-2500	G 13495			18.5						400 V 50 Hz	2.4 A								
XV	600-1100-1500	G 13496	697		19	77	120			40°C	230 V 50 Hz	7.8 A				1.2 kW	30	IP68	F	2800
	2100-2500	G 13497			19.5						400 V 50 Hz	2.9 A								

Materials and general dimensions:

Component	SP package # I	SP package # II, III, IV, V	SP package # VI	SP package # VII	SP package # VIII, IX, X, XI, XII, XIII, XIV, XV, XVI
Pump casing, pumpcasing cover, motor casing;	Stainless steel AISI 304			CAST IRON 200 UNI ISO 185	Stainless steel AISI 304
Pump impeller	Stainless steel AISI 304		elastomeric plastic, reinforced with bichromate iron	CAST IRON 200 UNI ISO 185	Techno polymer
Base Material	Stainless steel AISI 304		glass loaded polypropylene	Stainless steel AISI 304	
Motor Shaft	AISI 303 + AISI 303 ceramic coated shaft sleeve	AISI 303 (wet extension)	stainless steel AISI 420	CAST IRON 200 UNI ISO 185	Stainless steel AISI 304
Mechanical Seal	Ceramic/Carbon/NBR/ Lip seal: NBR	Double, with interposed oil chamber upper in carbon-ceramic/NBR - lower in SiC/SiC/NBR	Silicon carbide alumina oxide.	SiC	Double, with interposed oil chamber upper in carbon-ceramic/NBR - lower in SiC/SiC/NBR
Power supply cable length	5 m	10 m			15 m
Power supply cable type	H05 RNF	H07 RNF	H07 RNF	neoprene rubber power cable 6x(4x1,5)+(2x0,5)	H07 RNF
Pressure hose length	2.5 m				
Floating extraction length	1.5 m				
Lifting rope length	3 m				
Pressure hose connection	50 mm dia				

Aquality Trading and Consulting Ltd. reserves the right to make technical changes.

Pumps curves low pressure pump range I to VII for lifting applications



Pumps curves high pressure range VIII to XV for pressurization

