



JUNHE PUMPS

ADEO_20R09P05

ADEO_20R09P05_N1_EDW_2

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Brief summarize	Unit	Validation threshold
Category of product	cm	Evacuation pump Dirty Water
Product based on product	Sup ref	750 DW-3
Quick description of uses	-	pump to evacuate dirty water, up to 7 meter with a maximum debit of 13000 L/H in output
Quality of water	-	dirty water
Flowrate	L / h	13000
Ratted power	Watt	750
Maximun dirt/particule diameter	mm	35
Maximun heigth of expulsion	Mètres	7
Maximun immersion depth	Mètres	7
Heigth of remaining water	mm	40

Technical specifications

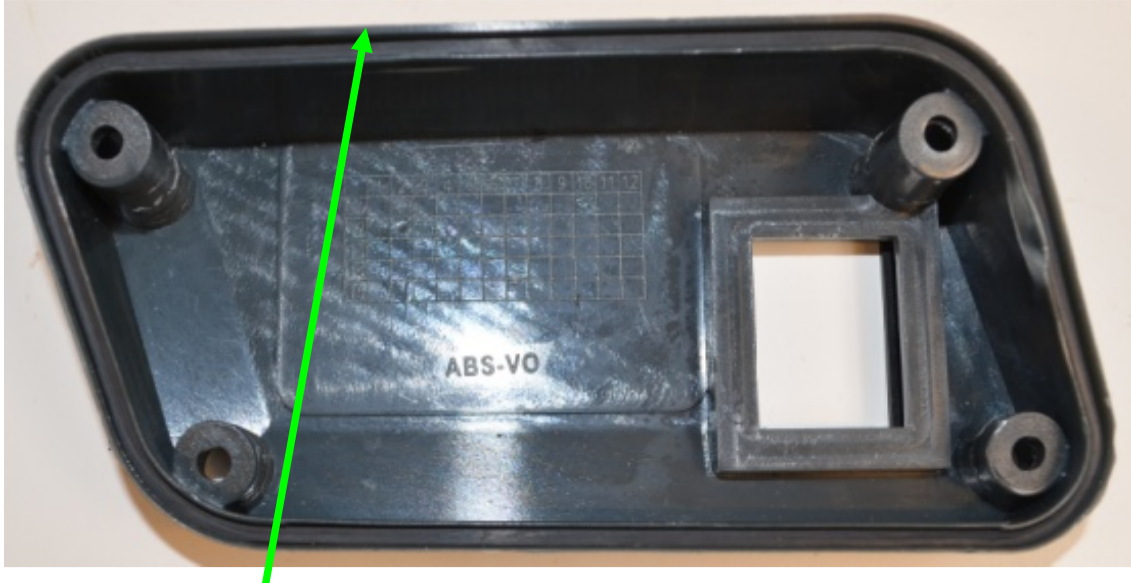







FFU specifications
Technical specifications (to change for each products)
Current technical specifications

Reply "Yes" means requirement is accepted and included in quotation
Reply "No" means requirement is not accepted. Justification and alternative proposal expected

	Description of function	Unit	Validation threshold	Additional precision	Yes/No (If YES it's included in the price)	If No, supplier's alternative proposal	ADEO comments/ acceptance	
Product specifications	Category of product	cm	Evacuation pump Dirty Water		Yes			
	Product based on product	Sup ref	750 DW-3		/			
	Quick description of uses	-	pump to evacuate dirty water, up to 7 meter with a maximum debit of 13000 L/H in output		No	Flowrate:13000		
	Quality of water	-	dirty water		Yes			
	Flowrate	L / h	13000		No	13000		
	Rated power	Watt	750		Yes			
	Recommended working volume	m3	To be filled by the supplier		7.82 m3/h			
	Maximum outside temperature	° C	4 < 50		/			
	Maximum temperature of liquid to pump	° C	MAX 35		Yes			
	Maximum dirt/particle diameter	mm	35		Yes			
	Clean liquids with low amount of non-abrasive particles	%	Not concerned		/			
	Chemical environment accepted	-	None		Yes	Can't accept		
	Electrical network - EUROPEAN market product	Voltage	Volt	230		No	230	
		Frequency	Hz	50		Yes		
		Type of plug	-	Male E/F plug (non-grounded)		No	VDE	
		Motor technology	-	To be filled by the supplier		/		
		Motor curve	-	To be provide by supplier	English report	Yes	Attachment No.1 (A1)	
		Current at No Load	Ampères	To be filled by the supplier		/		
		Torque at No Load	N.m	To be filled by the supplier		/		
		Speed at No Load	rpm	To be filled by the supplier		/		
		Input power at No Load	W	To be filled by the supplier		/		
		Current at maximum efficiency	Ampères	To be filled by the supplier		Yes	2.225	
		Torque at maximum efficiency	N.m	To be filled by the supplier		Yes	0.894	
		Speed at maximum efficiency	rpm	To be filled by the supplier		Yes	2659.4	
		Input power at maximum efficiency	W	To be filled by the supplier		Yes	505.33	
		Efficiency at maximum efficiency	%	To be filled by the supplier		Yes	49.2	
		Current at maximum output power	Ampères	To be filled by the supplier		Yes	2.739	
		Torque at maximum output power	N.m	To be filled by the supplier		Yes	1.091	
		Speed at maximum output power	rpm	To be filled by the supplier		Yes	2194.1	
		Input power at maximum output power	W	To be filled by the supplier		Yes	623.21	
		Efficiency at maximum output power	%	To be filled by the supplier		Yes	45.9	
		Current at maximum flow rate of the pump	Ampères	To be filled by the supplier		Yes	2.67	
		Torque at maximum flow rate of the pump	N.m	To be filled by the supplier		Yes	1.066	
		Speed at maximum flow rate of the pump	rpm	To be filled by the supplier		Yes	2417	
		Input power at flow rate of the pump	W	To be filled by the supplier		Yes	607	
		Efficiency at flow rate of the pump	%	To be filled by the supplier		Yes	13.14	
		Indice de protection IP	-	IPX8		Yes		
		Motor Isolation	Cl	B (130°)		No	B	
		Heat security of motor	-	ES/Spec have to be provide by sup.		Yes	A(125°)	
		Automatic purge	-	Not concerned		/		
	Filtering grid	-	No		Yes	No filtering grid		
	Security of missing water	-	Yes with float		Yes			
	Check valve	-	No		Yes	No check valve		
	Maximum flow	L/h	13000		No	13000		
	Maximum height of expulsion	Metres	7		Yes			
	Maximum immersion depth	Metres	7		Yes			
	Maximum working Pressure	Bar	Not concerned		/			
	Height of remaining water	mm	40		No	50		
	Minimum water level to switch on	cm	42		No	59		
	electrical Cable length	Metres	10		Yes			
	Cord length	Metres	Not concerned		/			
	type of cord	-	Not concerned		/			
	Gauge pressure	-	Not concerned		/			
	Volume of the tank	-	Not concerned		/			
	Maximum pressure of the tank	-	Not concerned		/			
	Automatic switch	-	YES		Yes			
	type of switch	-	Integrated floating switch		Yes			
	Pipe connecting possibilities	mm	40 - 25 Hose with hose clamp 15 - 19 garden hose with tap nose		No	25-32 Hose		
	O-Ring specification	-	precise data sheets of O-rings used in this pump must be provide by supplier (brand, material, certification, type, tests applied, compliance with environment of the pump and material of the pump,...)	English files	Yes	pressure coefficient: ≤25%		
	Accessories compatible with this pump	-	current Sterwins range		/			
	List of accesories	-	Instruction manual Curve pipe Coupling Pipe		Yes			
	General perception of quality	-	Matt aspect		No	Plastic pump housing		
	Height of pump (approx value - to be optimize with the amount on pallet)	mm	< 325		No	347		
	Pump weight	Kilos	< 5		No	5.45		
	Pump handle	-	Yes		Yes			
	Easy priming (filling)	-	Not concerned		/			
	Drain Screw	-	Not concerned		/			
	Ability to 'Run' the engine	-	Not concerned		/			
	Way to place the pump in the well	-	need to add a string		Yes			
	Filters and accesories cleaning	-	Not concerned		/			
	Protection against rust	Hours	Not concerned		/			
	Maximum flow at the pump outflow	L/h	13000		Yes	with filter flow 14660 L/h		
	Maximum flow at the pump outflow with filter accessory	L/h	Not concerned		/			
	Flow at 2m	L/h	11000 with 40mm hose		Yes			
	Flow at 4m	L/h	9000 with 40mm hose		Yes			
	Flow at 6m	L/h	5000 with 40mm hose		Yes			
	Flow at 8m	L/h	Not concerned		/			
	Flow at 10m	L/h	Not concerned		/			
	Flow at 12m	L/h	Not concerned		/			
	Interior pressure tolerance (at the output)	Bar	To be provide by supplier		0.1			
	Working time of the sensor	-	> 50000 cycle ON/OFF		Yes			
	Tolerance of working efficiency	%	75% of indicated flow rate at the pump outflow after 200 hours		Yes			
	Security sensor detecting leak of water preventing the pump's deterioration	-	Yes with float		No	No security sensor		
	Working time when being used - waterproof	Hours	> 2000		Yes			
	Noise level	Db	Not concerned		/			
	Multicellular pump	-	No		Yes			
	Number of cellule	-	Not concerned		/			
	Type of electric cable	-	To be filled by the supplier	Based on 700 DW-3	5RN-F3G1.0mm²			
	Number of copper strands	-	To be filled by the supplier	Based on 700 DW-3	32			
	Diameter of copper wire	-	To be filled by the supplier	Based on 700 DW-3	193 - 0.195mm			
	Cable seal / Cable jacket	-	To be filled by the supplier	Based on 700 DW-3	Yes			
	Electrical box (electrical input)	-	To be filled by the supplier	Based on 700 DW-3	No	No electrical box		
	Material of pump body	-	To be filled by the supplier	Based on 700 DW-3	PP-GF20			
	Material of handle	-	To be filled by the supplier	Based on 700 DW-3	PP-GF20			
	Material of other pieces	-	To be filled by the supplier	Based on 700 DW-3	/			
	Motor type	-	To be provide by supplier (ex: Aluminium / Copper)	Based on 700 DW-3	Copper			
	Material of Stator shaft	-	To be provide by supplier	Based on 700 DW-3	Q195			
	Material of Stator shield	-	To be provide by supplier	Based on 700 DW-3	409			
	Material of the bladder	-	Not concerned		/			
	Material of tank	-	Not concerned		/			
	Material of the Fan	-	To be provide by supplier	Based on 700 DW-3	/			
	Material of Fan cover	-	To be provide by supplier	Based on 700 DW-3	/			
	Bearing	-	To be provide by supplier	Based on 700 DW-3	6/TZ76-620132			
	Material of Turbine (impeller)	-	To be provide by supplier	Based on 700 DW-3	P466-GF30			
	Seal of shaft inside motor	-	Superior quality	Based on 700 DW-3	inforced seal			
	Mechanical gland packing	-	Superior quality	Based on 700 DW-3	/			
	Toric seal / O-rings	-	Superior quality	Based on 700 DW-3	NBR			
	3D technical files of global product	-	To be provide by supplier	Preferred STEP file	/			
	The customer can open the pump and repair it by himself	-	No		Yes			
	A qualified after sales center can open the pump and repair it by himself	-	YES		Yes			
	Possibility to replace the capacitor	-	No		Yes			
	Possibility to replace the turbine (impeller)	-	YES		Yes			
	Possibility to fix the motor	-	No		Yes			
	Possibility to fix the blower	-	No		Yes			
	Possibility to change the bladder by after sales services	-	Not concerned		/			
	Filters and accesories cleaning	-	Not concerned		/			
	Turbine (impeller) cleaning and suction foot (pump base)	-	Yes / Disassembledly the pump base		Yes			
	Vibration level on maximum usage	m/sec2	max. 2.5 m/sec2		/			
	Dimension of the cardboard unit	cm x cm x cm	To be filled by the supplier		22x16x36			
	Weight of the product (ready to use, with all the accessories)	kg	To be filled by the supplier		4.83			
	Weight of the product (logistic data, including cardboard)	kg	To be filled by the supplier		5.6			
	Balance of the product → weight to apply on the pump before it overturns	N	min. 15 N		/			
	Anti-UV treatment	-	Yes (test report to provide)		/			
	Humidity revealing device	Quantity	1 place in the body of the pump		/			
	Security seal	Quantity	1 to detect opening of pump body		Yes			
	Front label	Quantity	0 label		/			
	Rating label	Quantity	1 label		Yes			
	Indication labels	Quantity	1 label vertical pump & do not pull on the power cable		Yes			
	Safety instruction on separate card	Quantity	0 card		/			
	Sterwins marking on the body of the pump	Quantity	2 prints		Yes			
	Warranty	Product	YEARS		3			

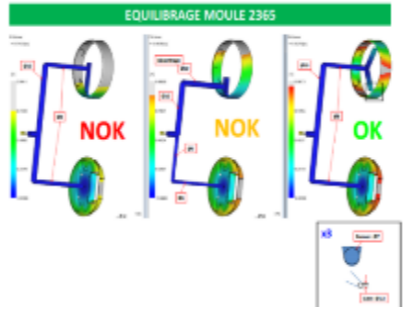




Construction recommendations

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Importants point	Current solution	Improvement	Prohibited	Yes/No	If No, supplier's alternative proposal	ADEO comments/ acceptance
1	Electrical waterproofing 		 If the water penetrates through the cable seal or the toric seal, the water will get inside the motor	NO	just like this , nee new model	
2	Electrical waterproofing  Waterproof switch			NO	the size is different	
3	Hydraulic seal: favoring double lip seals (oil seal)  Hydraulic seal: prefer double lip seals (oil seal)			NO	just make it , parts need redesign	
4	Easy boost / Start Secure all air intakes to favor the quick start + clear IM a					
5	Limit the number of spare parts 		 Too much spare parts, so too much assembly	NO	according to our company products structure , need so many parts . if develope new products , can consider it	
6	Handle molded around the pump to solidify this handle, and to make the pump more stable 					
7						
8						
9						
10						
8						
12						
13						
14						
15						

Injection specifications

Reply "Yes" means requirement is **accepted and included in quotation**
Reply "No" means requirement is **not accepted. Justification and alternative proposal expected**

Item n°	Item name	Characteristic	Specifications for each plastic part or tooling	Example if applicable	Yes/No	If No, supplier's alternative proposal	ADEO comments/ acceptance
1	2D/3D tooling studies	Tooling conception	Tooling studies of ADEO's molds must be sent to ADEO to check tooling conception Necessary to check the bellow items 3 to 10		YES		
2	Rheology studies	Tooling conception	Rheology study needed in order to check: - Fill time / good filling = no lack of raw material - Thickness - Deformation after shrinkage/ cooling - Welding line - Balance of the mold if several cavities (see example on picture enclosed)		YES		
3	Injection points	Quantity	Enough to ensure a good filling during the injection molding		YES		
		Location	On non-visible and non-functional surfaces		YES		
		Type	To be precised by the supplier for each tooling		YES		
4	Ejector pins	Quantity	Enough to demould the plastic part easily		YES		
		Tooling conception	As flat as possible		YES		
5	Parting line	Location	On non-visible and non-functional surfaces		YES		
		Aspect	The less visible on the part → on edges for example		YES		
6	Burrs	Aspect	As smooth as possible (polishing possible)		YES		
7	Venting system	Tooling conception	No burrs accepted on visible parts (smooth aspect on visible parts)		YES		
8	Cooling system	Tooling conception	Enough to avoid burns. To be showed on the tooling 2D/3D studies by the supplier		NO	Difficult to see from the 2D/3D or the Rheology studies	
9	End of filling	Tooling conception	To be showed on the tooling 2D/3D studies by the supplier Necessary to avoid burns		NO	Difficult to see from the 2D/3D or the Rheology studies	
10	Welding line	Tooling conception	To be placed on a parting line as much as possible > If not located on a parting line, events to add to avoid burns > If difficulties with end of filling: plan to have masselote to ensure a good filling		YES		
		Aspect	As less visible as possible on visible parts		YES		
11	Sink mark	Robustness	Cannot be located on technical areas Cannot be located where impacts can occur (risk of part breakage)		YES		
		Tooling conception + Aspect	Thicknesses must be calculated and adapted to avoid sink marks on visible parts		YES		
12	Columns	Tooling conception	Standard parts to be used (reference + supplier name to provide)		YES		
13	Mold material	Tooling conception	Type of steel to precise for each tooling if different steels considered > Core + cavity must have a higher quality of steel than the rest of the mold		YES		
		Lifetime	Quantity of <u>conformed parts</u> to be confirmed for each tool		YES		
14	Adjustment areas	Tooling conception	Inserts to be preferred for adjusment areas		YES		
15	Mold Finition	Polishing	To do to give a good aspect on the smooth parts before graining (no orange peel)		YES		
		Graining	To do as soon as "smooth" parts are validated by ADEO (parts ready to be grained) According to the textures required by ADEO (Moldtech references)		YES		
16	Release agent	Tooling conception + Aspect	Not allowed to be used > design of the part must allow a natural unmolding		YES		
17	Mold Marking/ Graving	Identification	Raw material + Recycling data for each part		NO	Not applicable for the parts with weight less than 30g	
			Cavity n° (1, 2, 3, 4...*) if applicable		NO	Not applicable for the parts with weight less than 30g	
			Configuration follow-up (traceability) > Part number + revision index		NO	Not applicable for the parts with weight less than 30g	
			Date of injection batch (Month + Year)		NO	Not applicable for the parts with weight less than 50g	
18	Mold Identification	Identification	Identification to put on each ADEO's tooling with part number/ specific color, etc...	STERWINS's logo + identification plate with part number	YES		



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Exploded view related to BOM

Supplier acceptance of Specifications	Supplier comments/ If the box is not checked, please propose an alternative solution
<input type="checkbox"/> Supplier agrees with Specifications	

The exploded view must be given in order to organize our after-sales services.

The exploded view must be transferred in vector format (native PDF)

The exploded view must be linked with the bill of material.

The bill of material must have different kind of information :

Part n°	Reference	Description	Quantity	Availability	Kit n°
1	Part ref 1	English name 1	Quantity 1	YES / NO	-

The bill of material must show the spare-parts kit (as soon as they are defined)

Part n°	Reference	Description	Quantity	Availability	Kit n°	Repair process required
1	Part ref 1	English name 1	Quantity 1	YES / NO	-	
2	Part ref 2	English name 2	Quantity 2	YES / NO	-	
3	Part ref 3	English name 3	Quantity 3	YES / NO	-	
4	Part ref 4	English name 4	Quantity 4	YES / NO	A	YES
5	Part ref 4	English name 5	Quantity 5	YES / NO	A	YES
6	Part ref 5	English name 6	Quantity 6	YES / NO	-	
7	Part ref 6	English name 7	Quantity 7	YES / NO	-	
8	Part ref 7	English name 8	Quantity 8	YES / NO	B	YES
9	Part ref 8	English name 9	Quantity 9	YES / NO	B	YES
10	Part ref 9	English name 10	Quantity 10	YES / NO	B	YES

On the Description name, when it's a screw or a bold, the Diameter , lenth, torque must be given.

After-sales service specification

	Unit	Validation threshold	Yes/ No	If No, supplier's alternative proposal	ADEO comments/ acceptance
Spare parts kits must be ready to send at the same time as the first product order shipment					
Exploded view and classification aligned. All document in English (not in Chinese)					
All torque must be indicated to help the after sales services					
After sales services file must be original pdf (no scan)	Mo	Max 3 Mo			

Supplier acceptance of Specifications	Supplier comments/ If the box is not checked, please propose an
<input type="checkbox"/> Supplier agrees with after-sales Specifications	