



UKW-Catalog



2020年8月

Looking ahead,
going beyond expectations

Ahead  *Beyond*

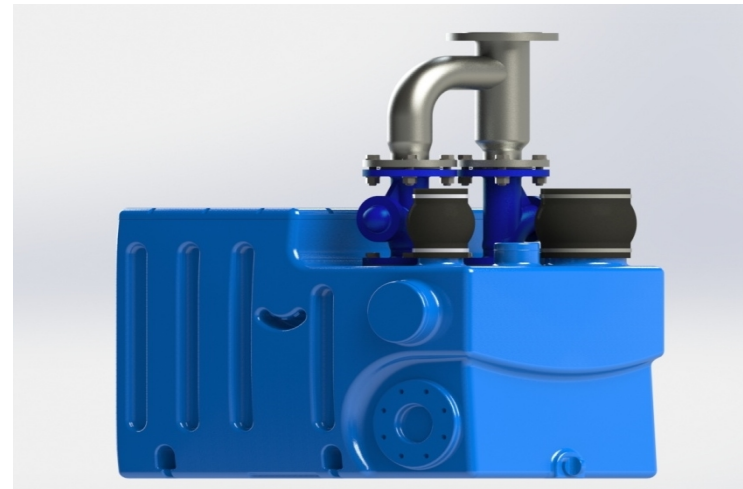
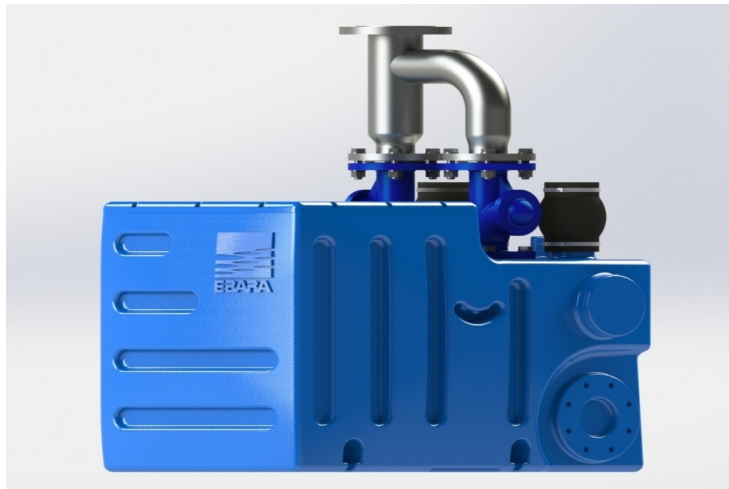
EBARA CORPORATION

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1. Product application

- The sewage lifting device is an efficient and economical underground sewage solution, specifically designed to collect and lift sewage that cannot flow to municipal sewage pipelines by gravity.
- Can be used in the following situations:
 - Collection and improvement of concentrated water from basement toilets such as villas, rain, wash basins, washing machines, and water treatment equipment ;
 - Large public buildings, such as supermarkets, commercial complexes, exhibition centers, train stations, sports venues, etc.



2. Standard specifications

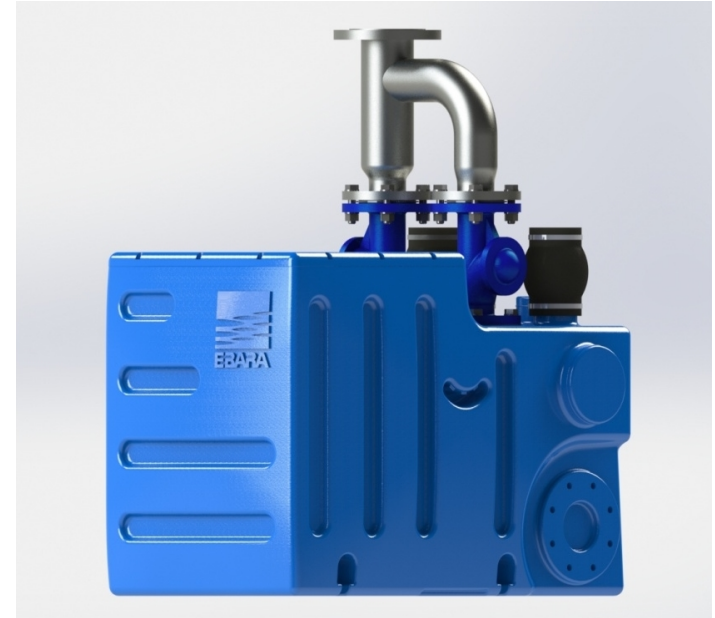
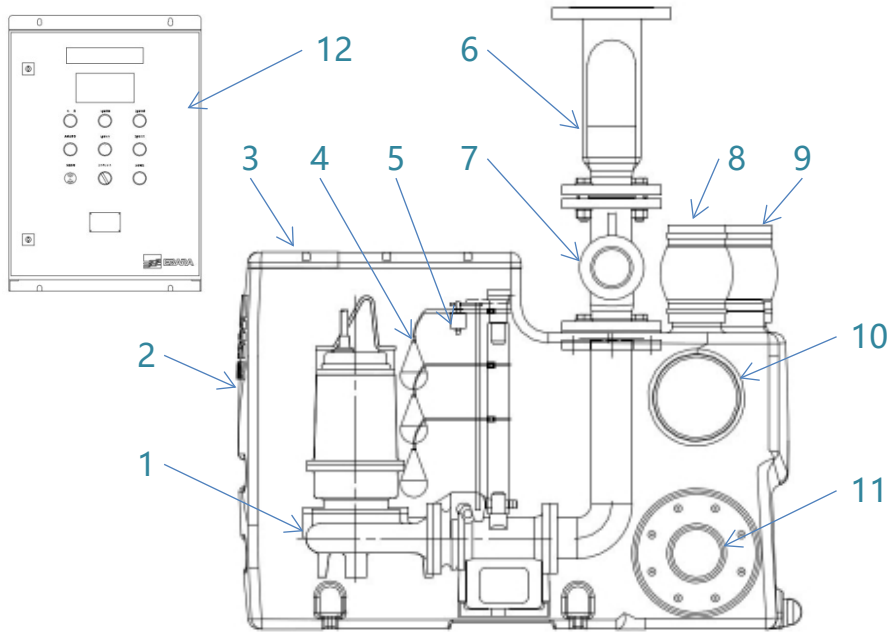
UKW Sewage lifting device

environment	Indoor: The ambient temperature is 0~40°C, the relative humidity is below 80% (there should be no dew condensation), the altitude is below 1000m, and there should be no corrosive and explosive gases and vapors.	
Sump tank	volume	350L, 700L (multiple water collection tanks can be connected in parallel)
	Material	PE (Rugged and Corrosion-Resistant)
	Temperature Resistance	Liquids can be conveyed up to 50 °C
power supply	Three-phase five-wire system, 380V (50Hz)	
How the pump operates	With backup pumps, alternate operation	
Level control mode	The float controls the liquid level	

UKW-Supporting sewage pump

Pump series	DVS	
caliber	DN50 / DN65	
Power	0.75kW、1.5kW、2.2kW、3.7kW、5.5kW、7.5kW	
fluids	Liquids	Impurity-containing liquids (PH5 ~ 9)
	temperature	0 ~ 40 °C (Automatic alternate type 0~32°C)
structure	impeller	Semi-flowing
	Shaft seals	Double mechanical seals
	bearing	Sealed ball bearings (in motors)
Material	Casing	FC200
	Impeller	FC200
	Shaft	SUS403
	encapsulation solution	VG32 Turbine oil (No. 90 turbine oil)
Motor	pole/degree	2pole / IP68
	Phase/Frequency/Voltage	三相 / 50Hz / 380V
Flange (mounting hole size only)	JIS 10K	

3. Structural specifications

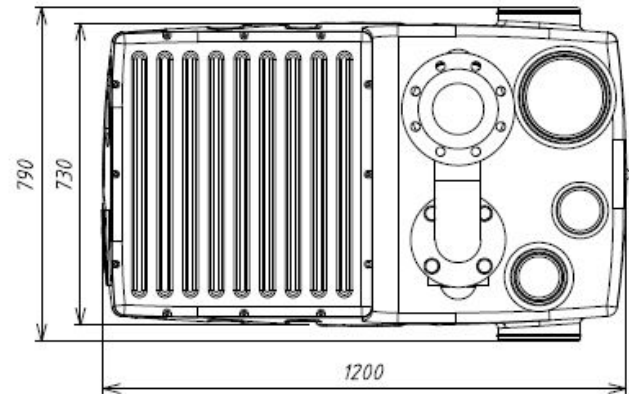
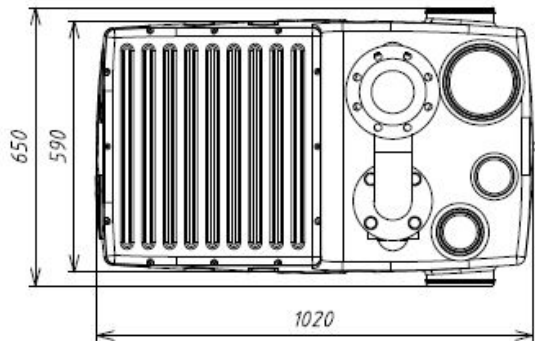
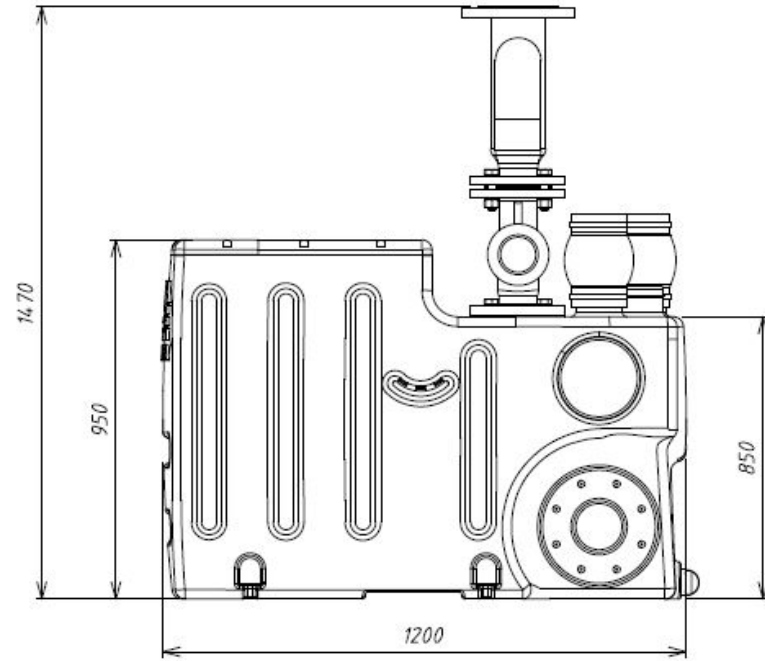
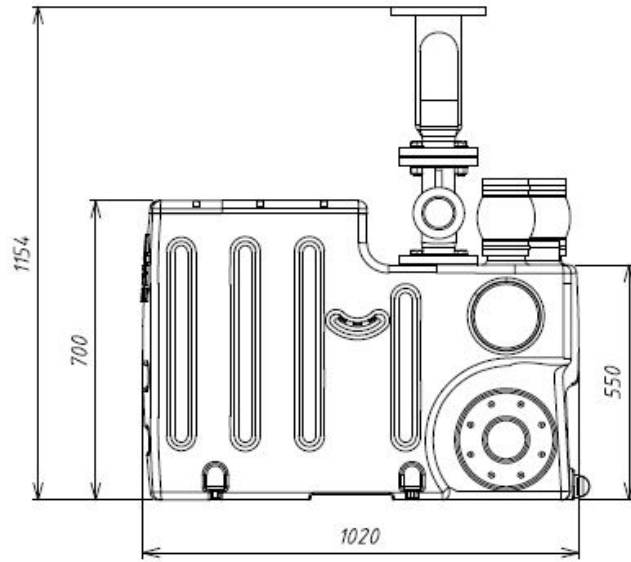


No.	Part Name	specification	Material
1	Sump pumps	DVS/DG	Standard
2	Sump tank	350L/700L	PE
3	Access hatches		PE
4	Level floats		PP
5	Alarm float		06Cr19Ni10
6	Spit-out tube		06Cr19Ni10
7	Ball check valve	DN65	QT450

No.	Part Name	specification	Material
8	Exhaust hose	DN80	EPDM
9	Water inlet hose	DN150	EPDM
10	Water inlet		PE
11	Cabinet connection port		DN150
12	Control cabinets		Standard

Note: The structural specifications of the equipment are for reference only, and the actual quantity supplied in the order shall prevail.

4. Dimension



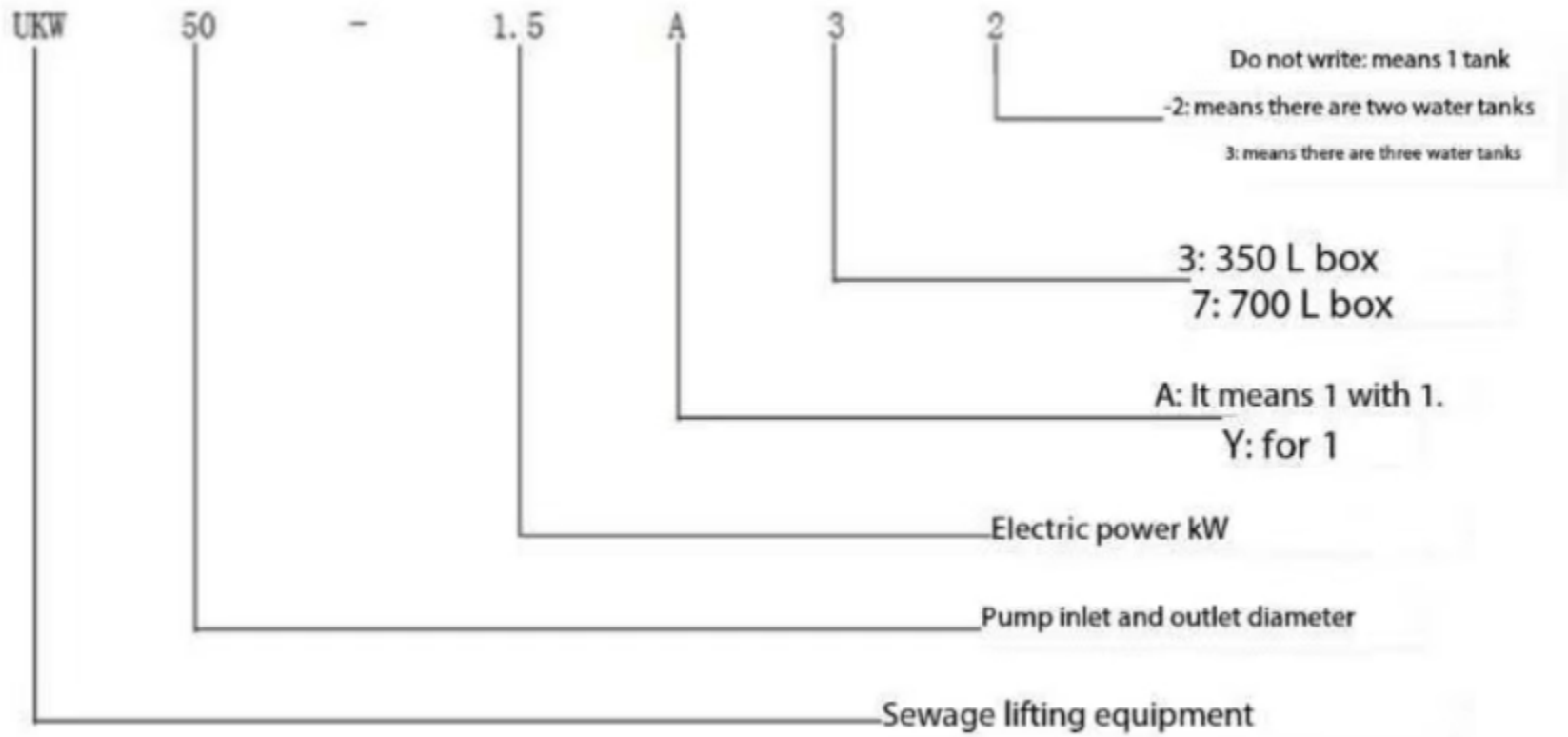
5. Product parameters

UKW has two volume series, and the specific parameters of the matching pump types that can be selected are as follows:

series	pump type*	Box size (L*W*H)mm	Number-of pumps	Flow m ³ /h	Head m	Flow-Single pump m ³ /h	Head-Single pump m
350L	50DVS5.75	1020*590*700	2 pumps (1use1backup)	2.15~33.6	21.5~3.8	2.15-12.0	15.5-5.7
	50DVS51.5					2.15-13.2	21.5-9
	65DVSP5.75					11.0-24.0	9.5-3.8
	65DVSP51.5					10.5-33.6	15.2-4.2
700L	65DVSP52.2	1240*730*950	2 pumps (1use1backup)	1.2~66.0	43.0~1.6	9.0-46.5	18.5-6.0
	65DVSP54.0					9.0-54.6	23.5-6.0
	50DVS55.5					5.3-22.4	39.0-18.0
	50DVS57.5					6.0-23.8	43.0-27.0
	65DVS55.5					20.4-27.3	32.0-12.0
	65DVS57.5					22.8-66.0	39.0-17.5

※The 700L series is compatible with the matching pump types of the 350L series

6. Naming rules



7. Control system

1. There are power indicator lights, fault indicator lights for each pump, operation indicator lights for each pump, and high liquid level alarm indicator lights on the outer door of the control box. Fault alarm buzzer, manual stop automatic knob, cancel flashing knob, and start button for each pump.
2. Manual state: Each water pump can be started by pressing the button on the control box door.
3. Automatic state: automatically start and stop the water pump based on the actual liquid level value measured by the float in the bucket; When the operating pump fails, the standby pump can be automatically put into operation; The water pump can rotate alternately.
4. During automatic operation, when the high liquid level is reached, a buzzer will sound and two water pumps will run simultaneously.
5. Reserve dry contact points: Provide operating signals, fault signals, and dry contact point signals for high liquid level faults for each pump.
6. Equipped with one full water alarm float, providing dual protection.
7. Equipped with 3 liquid level float balls, the action diagram is as follows:

