JUNG PUMPEN COMPLI 1200-1600
SEWAGE LIFTING STATIONS - STAINLESS STEEL



Duplex system compli 1200 - stainless steel

- Ready to plug in
- Submersible
- High-class stainless steel tank
- Large storage volume
- Large free passage

APPLICATION

The sewage lifting stations compli 1200, 1400 and 1600 have been designed for use in multi-family houses and in industrial and communal areas with a large volume of wastewater, where special safety regulations have to be met, for example at underground stations, airports or parking decks.

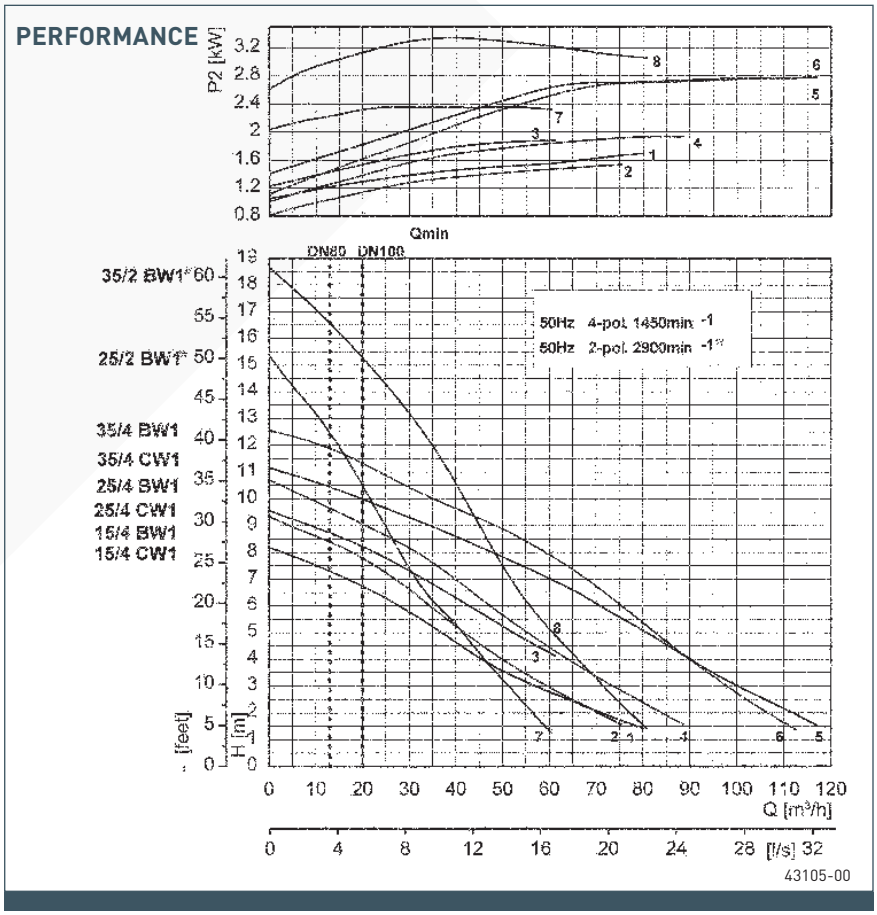
The submersible unit is permitted for general use in areas subject to flooding. The control unit has to be fitted in a well ventilated flood-proof room.

The stainless steel tank has freely accessible drains and a clamp-type inlet flange for easy installation. The top-mounted cleaning opening and the easy replaceability of the pre-mounted pumps also ensure time-saving servicing.

The vortex impeller with 80 mm (BW-pumps) or 100 mm (CW-pumps) free passage ensures a high operating safety.

Duplex systems have two pump units on one tank which are switched alternately or, if and when required, they are operated both in order to cope with peak load or reserve operation. This automatic switching sequence increase safety in particular for use in commercial or public buildings, and is always required in keeping with German / European standard DIN EN 12056-4 para. 5.1, when the wastewater inflow must not be interrupted.

PERFORMANCE



We reserve the right to change specifications without notice

Pump performance is subject to ISO 9906 tolerances

The minimum flow velocity in the pressure piping must be 0.7 m/s according to EN 12056.
This data is represented in the performance curve as a limit of application.

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SEWAGE LIFTING STATIONS

Type compli	Tank capacity l	Max. pump volume l	Inlet height mm	Free passage mm	Clamp- type inlet flange	Connecting flange PN 10	For connecting pipe	Ventilation	Weight approx.	**Code No.**
1215/4 BW1	270	110	700	80	DN 150	DN 80	DN 100	DN 70	238 kg	**JP42988**
1225/4 BW1	270	110	700	80	DN 150	DN 80	DN 100	DN 70	238 kg	**JP42989**
1235/4 BW1	270	110	700	80	DN 150	DN 80	DN 100	DN 70	242 kg	**JP42990**
1225/2 BW1	270	110	700	80	DN 150	DN 80	DN 100	DN 70	237 kg	**JP42991**
1235/2 BW1	270	110	700	80	DN 150	DN 80	DN 100	DN 70	240 kg	**JP42992**
1215/4 CW1	270	110	700	100	DN 150	DN 100	DN 100	DN 70	242 kg	**JP42985**
1225/4 CW1	270	110	700	100	DN 150	DN 100	DN 100	DN 70	242 kg	**JP42986**
1235/4 CW1	270	110	700	100	DN 150	DN 100	DN 100	DN 70	246 kg	**JP42987**
1415/4 BW1	540	225	800	80	DN 150	DN 80	DN 100	DN 70	291 kg	**JP42996**
1425/4 BW1	540	225	800	80	DN 150	DN 80	DN 100	DN 70	291 kg	**JP42997**
1435/4 BW1	540	225	800	80	DN 150	DN 80	DN 100	DN 70	295 kg	**JP42998**
1425/2 BW1	540	225	800	80	DN 150	DN 80	DN 100	DN 70	290 kg	**JP42999**
1435/2 BW1	540	225	800	80	DN 150	DN 80	DN 100	DN 70	293 kg	**JP43000**
1415/4 CW1	540	225	800	100	DN 150	DN 100	DN 100	DN 70	295 kg	**JP42993**
1425/4 CW1	540	225	800	100	DN 150	DN 100	DN 100	DN 70	295 kg	**JP42994**
1435/4 CW1	540	225	800	100	DN 150	DN 100	DN 100	DN 70	299 kg	**JP42995**
1615/4 BW1	900	400	800	80	DN 150	DN 80	DN 100	DN 70	333 kg	**JP43004**
1625/4 BW1	900	400	800	80	DN 150	DN 80	DN 100	DN 70	333 kg	**JP43005**
1635/4 BW1	900	400	800	80	DN 150	DN 80	DN 100	DN 70	337 kg	**JP43006**
1625/2 BW1	900	400	800	80	DN 150	DN 80	DN 100	DN 70	332 kg	**JP43007**
1635/2 BW1	900	400	800	80	DN 150	DN 80	DN 100	DN 70	335 kg	**JP43008**
1615/4 CW1	900	400	800	100	DN 150	DN 100	DN 100	DN 70	337 kg	**JP43001**
1625/4 CW1	900	400	800	100	DN 150	DN 100	DN 100	DN 70	337 kg	**JP43002**
1635/4 CW1	900	400	800	100	DN 150	DN 100	DN 100	DN 70	341 kg	**JP43003**

PERFORMANCE

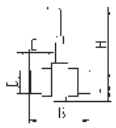
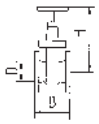
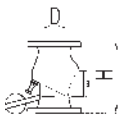
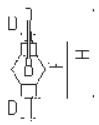
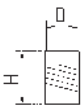
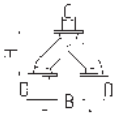
Type	Delivery head H [m]	1	2	3	4	5	6	7	8	9	10	12	14	16
compli ...15/4 BW1	Flow rate Q [m³/h]	80	70	60	50	42	35	27	18	5				
compli ...25/4 BW1		95	85	74	64	55	47	40	32	21	9			
compli ...35/4 BW1		115	107	98	90	82	75	68	59	49	35	10		
compli ...25/2 BW1		67	61	54	48	43	38	34	31	26	21	10		
compli ...35/2 BW1		80	74	68	64	58	52	48	45	42	38	31	20	10
compli ...15/4 CW1		87	71	57	46	37	28	17						
compli ...25/4 CW1					61	53	42	32	23					
compli ...35/4 CW1		122	112	100	90	81	71	60	48	35	20			

ELECTRICAL DATA

Type	Type of current	Voltage Volt	Motor rating kW P_1	P_2	Current Ampere	RPM min^{-1}	Cable (10 m) Tank control	Cabel (1.5 m) Control plug	Plug
compli ...15/4 BW1	D-Strom	3/N/PEp400	2.20	1.70	7.0/4.0	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...25/4 BW1	D-Strom	3/N/PEp400	2.80	2.10	8.2/4.7	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...35/4 BW1	D-Strom	3/N/PEp400	4.20	3.20	13.0/7.8	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...25/2 BW1	D-Strom	3/N/PEp400	3.25	2.54	9.4/5.4	2900	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...35/2 BW1	D-Strom	3/N/PEp400	4.20	3.43	12.6/7.3	2900	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...15/4 CW1	D-Strom	3/N/PEp400	2.40	1.90	7.3/4.2	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...25/4 CW1	D-Strom	3/N/PEp400	2.70	2.04	7.9/4.6	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-
compli ...35/4 CW1	D-Strom	3/N/PEp400	4.20	3.20	13.0/7.8	1450	H07RN-F-6 G 1.5	H05VV-F-5 G 1.5	CEE-

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ACCESSORIES

				Art.-Nr.
	1	**Seal leak detector DKG** Please consider one seal leak detector per pump		**JP44900**
	2	**Rechargeable battery** for control for mains-independent alarm		**JP44850**
	3	**PVC sluice valve** (with two pipe sockets) for 6" inlet (DN 150) PN 2.5	H B E F D 660 450 110 105 160	**JP28591**
	4	**Sluice valve*** for 3" pressure side (DN 80), PN 10, DIN EN 1171	H B D 315 180 DN 80	**JP00639**
		Sluice valve* for 4" pressure side (DN 100), PN 10, DIN EN 1171	H B D 345 190 DN 100	**JP00329**
	5	**Swing-type check valve* R 80**, PN 4, flange PN 10, DIN 3202 DIN EN 12050-4 without counterweight	H D/DN 260 80	**JP00706**
		**Swing-type check valve* R 80 G** PN 4, flange PN 10, DIN 3202 DIN EN 12050-4 with adjustable counterweight	H D/DN 260 80	**JP00707**
		Ball-type check valve* K 80 PN 4, flange PN 10, DIN 3202 DIN EN 12050-4	H D/DN 260 100	**JP44781**
		Swing-type check valve R 101* PN4, flange PN 10, DIN 3202 DIN EN 12050-4, without counterweight	H D/DN 300 100	**JP00325**
		Swing-type check valve R 101 G PN4, flange PN 10, DIN 3202 DIN EN 12050-4, with adjustable counterweight	H D/DN 300 100	**JP00324**
	6	**Hand diaphragm pump** for emergency purposes (bis H_{geod} 15 m)	H E D ca. 640 430 1½"	**JP00255**
	7	**Stop valve,** 1½" (DN 40), PN 16	H B D 125 max. 60 1½"	**JP44786**
	8	**Elastic connection** 1½" (DN 40), PN 4	H D 120 50	**JP44777**
	9	**Clamp** 1½"		**JP44763**
	10	**Y-piece*** DN 80/100/80	H B C/DN D/DN 355 480 100 80	**JP00202**
		DN 100/100/100, PN 10	355 480 100 100	**JP00203**

* with screws and seal

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TECHNISCHE DATEN

Pump
Vertical, single-stage, submersible, vortex impeller, spiral casing with vertical DN 100 (CW1) or rather DN 80 (BW1) outlet, flanged to stainless steel tank with cleaning opening.

Bearing
Common shaft for pump and motor, grease-packed ball bearing.

Seal
Silicon carbide mechanical seal independent of sense of rotation and safe to run dry. Oil chamber with duplex radial shaft seal as secondary seal towards the motor compartment. Connection possibility for seal leak detector.

Motor
Submersible, IP 68 type of protection, insulation class F, winding thermostats for the protection of the drives against overheating, automatic start-up by rotary level control and contact. Connection to mains by 16 A CEE plug, S 3 type of operation in keeping with German standard VDE

Materials
Tank made of high-class, corrosion resistand stainless steel (1.4301, on request also 1.4571), pumps, motor housing and vortex impeller made of wear-resistant grey cast iron, rubber insulated cable.

Scope of supply
Ready to connect sewage lifting station in keeping with German / European standard DIN EN 12050-1 with clamp-type inlet DN 150, pre-mounted submersible pump and connecting flange, an elastic connection with clamps for plastic pressure pipe DN 100, collar DN 70 for ventilation and automatic rotary level control. Control (IP 44 type of protection) with motor protection, contractor, transformer, mains-dependent alarm system and potential-free make contact for collective failure messages, with optical display of sense of rotation, alarm and operation, manual-0-automatic switch and automatic changeover system and peak load function.

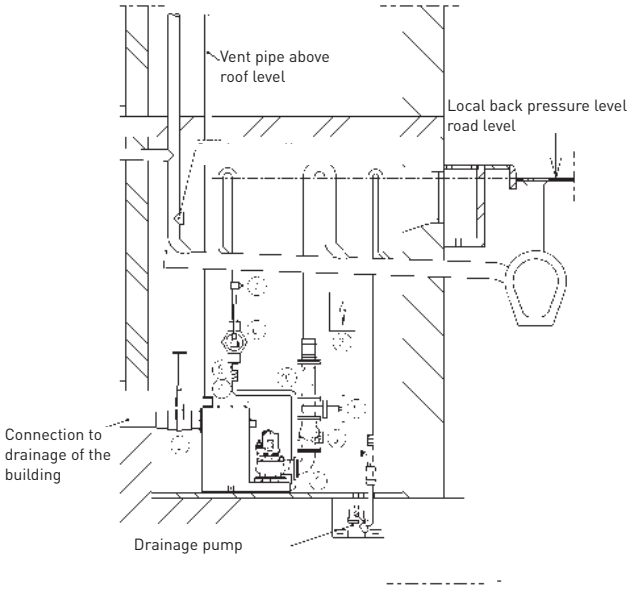
To be fitted with a micro-processor control as well upon request.

Cable: Tank–control 10 m, control–plug 1,5 m

Accessories to be ordered according to mounting drawing.

LGA Type tested and monitored

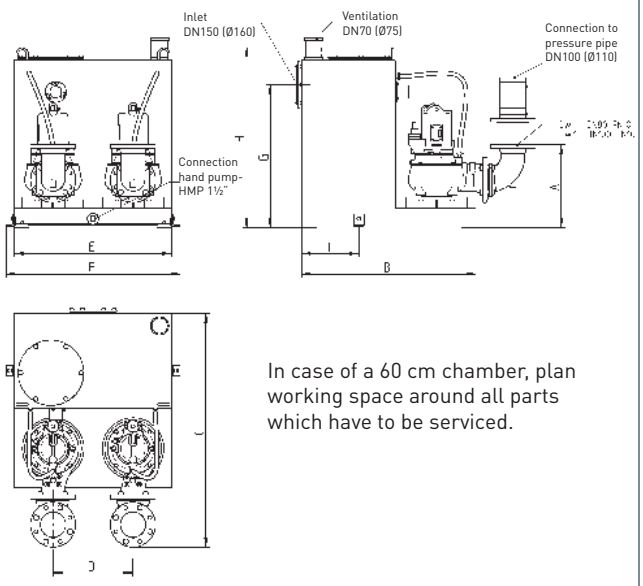
Mounting arrangement



In keeping with the construction and testing principles of German / European standard DIN EN 12050, sewage disposal units are to be used for the transport of faecal matter and domestic waste-water in building drainage systems as described in German standard DIN 1983 T3. In keeping with the stipulations of German / European standard DIN EN 12056-4 they have to be mounted with collecting tanks inside building permitting a free space of 60 cm for operation and repair. The pressure pipe has to be passed above the locally defined backpressure level and a non-return valve tested in keeping with German / European standard 12050-4 has to be mounted. In keeping with German / European standard 12056 the ventilation pipe has to be passed up to the roof.

43240-00

Dimensions compli 1200 | 1400 | 1600 (mm)



In case of a 60 cm chamber, plan working space around all parts which have to be serviced.

	A	B	C	D	L	I	G	I	I
comp. 1200 BW 1	770	850	1142	390	770	850	700	850	280
comp. 1200 BW 1	368	850	1097	390	770	850	700	850	280
comp. 1400 BW 1	455	1030	1375	450	970	1050	800	985	340
comp. 1400 BW 1	423	1090	1527	450	970	1050	800	985	340
comp. 1600 BW 1	455	1630	1882	450	970	1050	800	985	555
comp. 1600 BW 1	423	1630	1837	450	970	1050	800	985	555

A / 3068-02