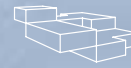


NEW TEKNOSPEED



TEKNOSPEED Series of
Variable Speed Electric Pumps
and Pressure Booster Units



- **TEKNOSPEED offers Constant pressure - Silent running**
- **Reliability and Ease of use.**



USER COMFORT

- *Constant pressure at your outlet.*

No more temperature variations when using water at home (the mixture of hot and cold water does not change even if other taps are opened).



RELIABILITY

- *Constant flow of water.*

If one of the two pumps in a Teknospeed unit fails, the other pump will continue to serve the user.

- *Maximum performance even in critical operating conditions.*

Mains voltage fluctuations are electronically compensated.

- *Pump protection.*

The system is fitted for use with a float switch to protect the pump from running dry.

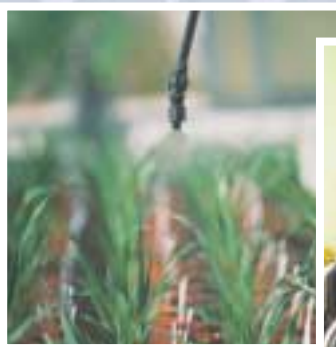


SILENT RUNNING

- *Sleep well with Teknospeed pumps.*

The motor works at variable speed and consequently has a reduced noise level.

APPLICATIONS



• **TEKNOSPEED for users requiring trouble-free pump operation.**



ENERGY SAVING

• *The pump pays for itself in a very short time.*
 With the new frequency converter, the pumps only consume the power that is strictly necessary.



EXTENDED PUMP LIFE-TIME

• *Minimum maintenance.*
 The variable speed motor reduces mechanical stress on the pump components and water hammering during stopping.



QUICK AND EASY INSTALLATION

• *Connect and go!*
 Easy to install and use, the Teknospeed pumps are supplied with a cable, plug and pressure transmitter; they can be adjusted by turning the potentiometer while the pressure is read directly on the pressure gauge.

AND BENEFITS



• Needs limited space - Large pressure vessels are no longer needed for control of the pumps




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TEKNOSPEED VARIABLE SPEED ELECTRIC PUMPS:

SINGLE-PHASE POWER INPUT 1 x (230 ± 10%) V 50/60 Hz

the supply includes a pressure transmitter, a power cable with plug and a motor heat probe (PTC).

PUMP TYPE*	Rated P [kW]	DNA	DNM	Input I [A]	Q1 [l/min]	Q2 [l/min]	H1 [m]	H2 [m]	
TKS/HMZ HORIZONTAL MULTI-STAGE WITH PLASTIC IMPELLERS									
	TKS/2HM3ZT	0.3	Rp 1" 1/4	Rp 1"	2.3	20	70	20.5	7.9
	TKS/2HM5ZT	0.55	Rp 1" 1/4	Rp 1"	3.5	20	70	40.0	16.5
	TKS/2HM7ZT	0.75	Rp 1" 1/4	Rp 1"	4.9	20	70	50.8	20.5
	TKS/4HM4ZT	0.45	Rp 1" 1/4	Rp 1"	3.0	40	120	19.3	7.6
	TKS/4HM5ZT	0.55	Rp 1" 1/4	Rp 1"	3.5	40	120	28.6	11.5
	TKS/4HM9ZT	1.1	Rp 1" 1/4	Rp 1"	6.8	40	120	49.9	21.2
TKS/BG SELF-PRIMING WITH AISI 304 STEEL IMPELLERS									
	TKS/BG7	0.75	Rp 1" 1/4	Rp 1"	4.9	20	60	38.1	25.6
	TKS/BG11	1.1	Rp 1" 1/4	Rp 1"	6.8	20	70	45.8	20.3
TKS/CA-CEA WITH AISI 304 STEEL SINGLE/TWIN IMPELLERS									
	TKS/CEA80/5	0.75	Rp 1" 1/4	Rp 1"	4.9	30	100	30.0	21.0
	TKS/CEA120/5	1.1	Rp 1" 1/4	Rp 1"	6.8	60	160	28.2	17.3
	TKS/CA70/33	0.75	Rp 1" 1/4	Rp 1"	4.9	30	80	38.8	23.9
	TKS/CA70/44	1.1	Rp 1" 1/4	Rp 1"	6.8	30	80	49.5	34.0
TKS/SV VERTICAL MULTI-STAGE WITH AISI 304 STEEL IMPELLERS									
	TKS/SV206F07T	0.75	DN25 (1")		4.9	20	70	56.0	22.0
	TKS/SV208F11T	1.1	DN25 (1")		6.8	20	70	75.0	30.0
	TKS/SV404F07T	0.75	DN32 (1" 1/4)		4.9	40	133	34.0	10.0
	TKS/SV407F11T	1.1	DN32 (1" 1/4)		6.8	40	133	59.5	18.0

For details about the materials of the pump components, please see the General Catalogue

*Frequency converter connected to a three-phase pump with a 230 V delta connection

- The TEKNOSPEED single-phase electric pumps and pressure booster units were designed for residential applications to give customers all the benefits offered by **constant water pressure** in the home.
- They comprise a frequency converter integrated with the pump which **adjusts motor speed** in order to provide users with constant water pressure even when requirements vary.
- **Simplicity of use** is guaranteed by:
 - three simple signal LED's
 - a potentiometer for setting the required pressure
 - a standard kit (cable and power plug included) for **quick and easy installation (PLUG & PUMP)**.



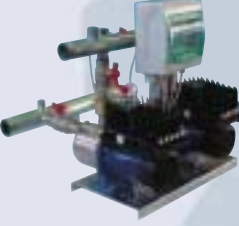
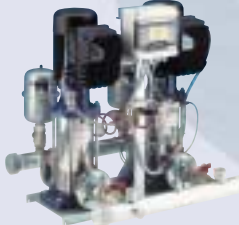
PRODUCT

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TEKNOSPEED VARIABLE SPEED TWIN-PUMP UNITS:

SINGLE-PHASE POWER INPUT 1 x (230 ±10%) V 50/60 Hz

UNIT TYPE*		Rated P [kW]	DNA	DNM	Input I [A]	Q Min [l/min]	Q Max [l/min]	H Max [m]	H Min [m]
GTKS20/HMZ HORIZONTAL MULTI-STAGE WITH PLASTIC IMPELLERS									
	GTKS20/2HM5ZT	2 x 0.55	Rp 2"	Rp 1" 1/2	7.0	20	140	39.8	16.3
	GTKS20/2HM7ZT	2 x 0.75	Rp 2"	Rp 1" 1/2	9.8	20	140	50.6	20.3
	GTKS20/4HM5ZT	2 x 0.55	Rp 2"	Rp 1" 1/2	7.0	40	240	28.4	11.3
	GTKS20/4HM9ZT	2 x 1.1	Rp 2"	Rp 1" 1/2	13.6	40	240	49.7	21.0
GTKS20/CA WITH AISI 304 STEEL TWIN IMPELLERS									
	GTKS20/CA70/33	2 x 0.75	Rp 2"	Rp 1" 1/2	9.8	30	160	38.6	23.7
	GTKS20/CA70/44	2 x 1.1	Rp 2"	Rp 1" 1/2	13.6	30	160	49.3	33.8
GTKS20/SV VERTICAL MULTI-STAGE WITH AISI 304 STEEL IMPELLERS									
	GTKS20/SV206F07T	2 x 0.75	Rp 2"	Rp 2"	9.8	20	140	55.8	21.8
	GTKS20/SV208F11T	2 x 1.1	Rp 2"	Rp 2"	13.6	20	140	74.8	29.8
	GTKS20/SV404F07T	2 x 0.75	Rp 2"	Rp 2"	9.8	40	266	33.8	9.8
	GTKS20/SV407F11T	2 x 1.1	Rp 2"	Rp 2"	13.6	40	266	59.3	17.8

For details about the materials of the pump components, please see the Pressure Booster Unit Catalogue.

*Frequency converter connected to a three-phase pump with a 230 V delta connection

- **Product reliability** is one of the most important features of Teknospeed pumps:
 - The IP55 level of protection allows the products to be installed both indoors and outdoors.
 - The electronics guarantee correct operation also in the presence of relatively unstable input voltages.
 - If one of the two pumps breaks down in a TEKNOSPEED twin-pump unit the whole system does not fail.
- The fitting of a float-switch protects the pump from dry running.
- A complete alarm diagnostic signals any anomalies and, if necessary, stops the pump to prevent the product from being damaged.
- The **product range** is **extensive** both as regards pump models and configurations (horizontal and vertical, single pump or two-pump booster package).

RANGE

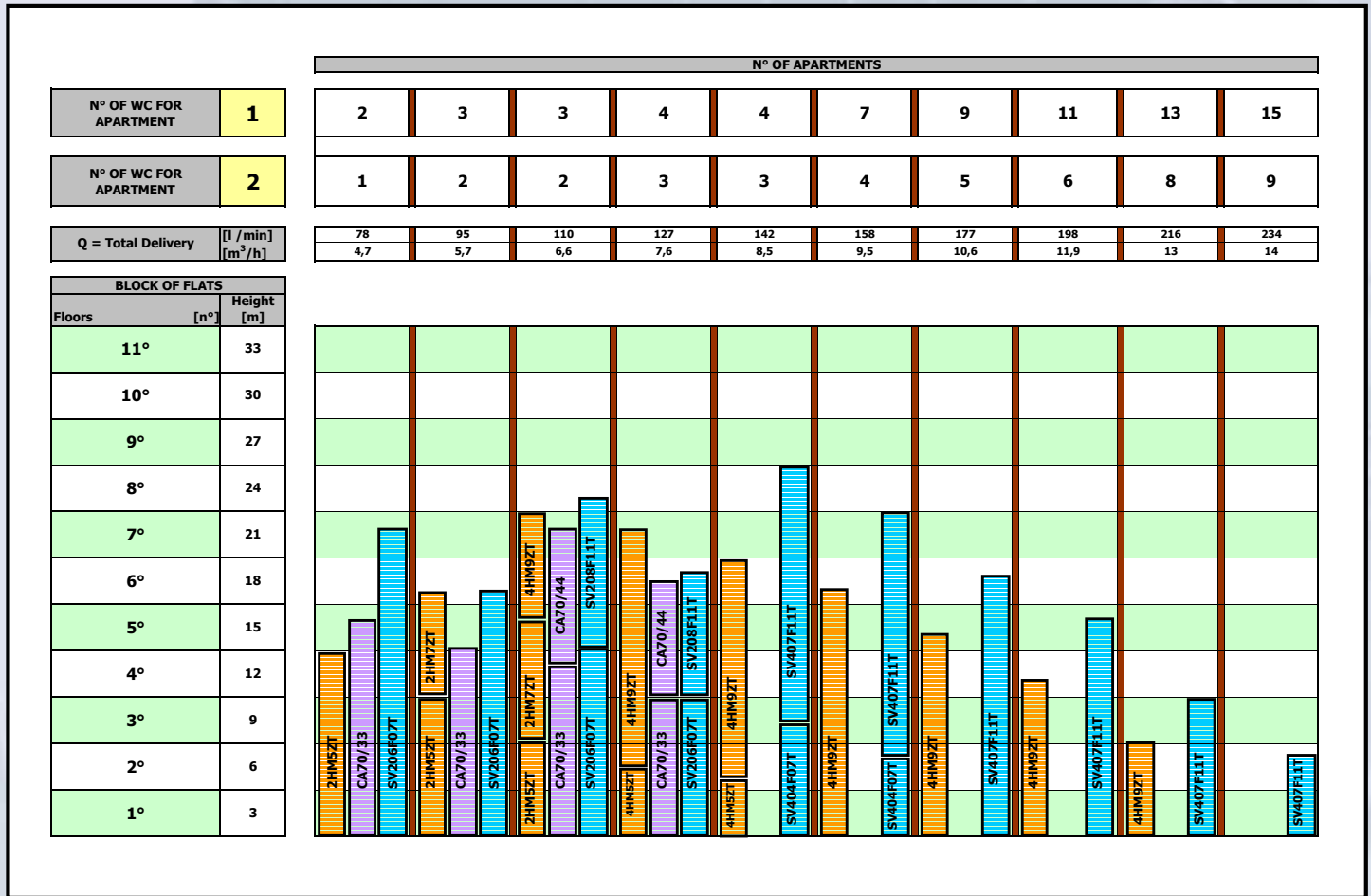


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DIRECT FLUSHING WC TYPE

To choose the right pressure booster unit, cross the row corresponding to the number of floors in the apartment block with the column corresponding to the number of apartments in the building (considering the number of WCs per apartment).



EXAMPLE OF HOW TO CHOOSE A PRESSURE BOOSTER UNIT (GTKS20):

FEATURES OF APARTMENT BLOCK:

- N° WCs PER APARTMENT: 1
- N° APARTMENTS: 6
(select column with n° apartments = 7)
- N° FLOORS: 3

POSSIBLE CHOICES:

UNIT MODEL

- GTKS20/4HM9ZT
- GTKS20/SV407F11T

PUMP TYPE

- Horizontal multistage - plastic impeller
- Vertical multistage - AISI304 steel impeller

N.B.:

- Useful head at highest user: 20 m for direct flushing WCs
- Estimated pressure drop in plant: 20% of reference flow head
- Inlet: from tank at the same level as the pressure booster unit

N.B.: For apartment blocks with large numbers of simultaneous requests (e.g.: holiday resorts), increase the number of apartments by at least 20%.

SELECTION GUIDE

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