





### **CONSTANT PRESSURE CONTROL**

Teknospeed: the new range of variable speed electric pumps and pressure booster units for constant pressure applications utilizing an integral frequency converter in the pump.

#### **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 can work on its own.
- Maximum performance even in critical operating conditions.

The PFC (Power Factor Controller) circuit maintains the required pressure even in the event of mains voltage fluctuations (sinusoidal input).

Pump protection.

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







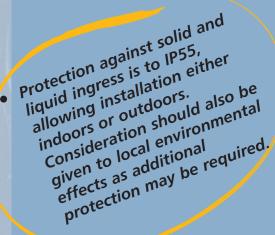




#### SILENT RUNNING

• Sleep well with Teknospeed pumps.

The motors work at variable speed and consequently have a reduced noise level.





#### **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.

Needs limited space?

Needs limited space?

Needs limited space?

Needs limited space?

Inger pressure vessels are no feed for control of the pumps the pump



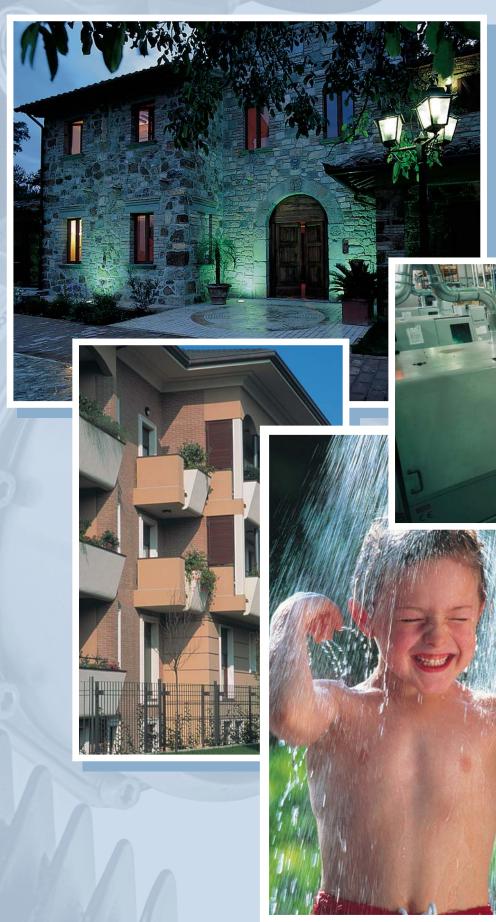
## EXTENDED PUMP LIFE-TIME

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



## **QUICK AND EASY INSTALLATION**

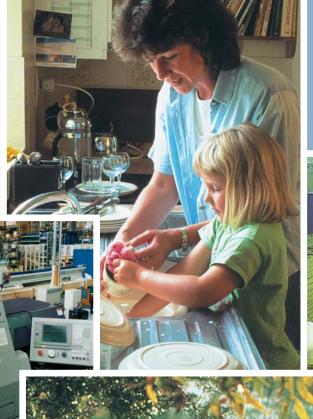
Connect and go! Easy to install and use, the Teknospeed pumps are supplied with a cable, plug and pressure transmitter; they can be adjusted by turning the potentiometer while the pressure is read directly on the pressure gauge.



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# THE MAIN APPLICATIONS











## NATURAL HEAT DISSIPATION

Cooling fins in black epoxy powder painted aluminium ensures adequate heat dissipation.

# TEKNOSPEED:

AN ESSENTIAL,

**COMPACT AND** 

EASY-TO-USE

**SOLUTION** 

#### **INDICATOR LED'S**

GREEN LED: power on.

YELLOW LED: converter working and in

operating mode.

Steady light: pressure control.

Flashing light: motor speed adjustment.

RED LED: alarm.



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## REGULATION DIP-SWITCHES

The dip-switches are easy to adjust for specific applications. For controlled pressure applications, the dip-switches are factory-set.

## USER AND ELECTRONICS PROTECTION

Two plastic covers offer maximum user electrical safety; the two electronic boards (power and control) are protected from accidental knocks.

## POWER CABLE WITH PLUG AND PRESSURE TRANSMITTER CABLE

The frequency converter leaves the factory with its power cable and plug connected to the relative terminals and the earth circuit screw terminal.

The pressure transmitter cable is connected to the relative terminals.

# TERMINAL BOARD FOR CONTROL SIGNALS

The control signal terminals are easy to access: pressure transmitter, serial line (for dialogue between the two pumps in booster units), no water input and fault signal output.

### PLUG FOR ADJUSTMENT SCREW

After setting the required pressure, screw in the plug to prevent the adjustment screw from being moved by accident.

#### **CABLE HOLDERS**

Cable holders are fitted at the pressure transmitter cable and serial interface inputs in order to connect the shielding braids to the earth circuit.

## WIRING DIAGRAM

The wiring diagram is directly printed on the plastic protection of the control board.

## CONVERTER/MOTOR CONNECTIONS

Simple and direct connection to the motor terminal board with factory-fitted cables.

#### **PROTECTED TO IP55**

Cable holders and metric plugs for the cable input and gasket between the radiator and base.



ELEC I RICAL	DAIA
POWER INPUT:	230V +/- 10% 1~ 50/60 Hz
INPUT CURRENT:	6.8 A
OUTPUT VOLTAGE:	230V 3~ variable according to the V/F curve (motor connected to 230V)
OUTPUT CURRENT:	4.6 A
OUTPUT FREQUENCY:	Variable 12÷50 Hz in the speed adjustment mode
	Variable 15÷50 Hz in the constant pressure control mode
RECOMMENDED MOTORS:	max. Lowara SM motor 1.1 kW 3~ max. overcurrent 5%
PRESSURE	4÷20 mA standard with two power
TRANSMITTER:	
ALARM RELAY:	NC (normally closed) contact 1A 230Vac resistive load;
	positive logic operation (the contact is open if there are no
118	alarm.
111166	It closes in the event of alarm or no power input)
MODULATION TYPE:	PWM Pulse Width Modulation
CONTROL TYPE:	PI (Proportional factor – Integral factor)
LINE PROTECTION	Magneto-thermal switch 16A curve-type C
(recommended):	
POWER CABLE:	minimum cross-section 1.5 mm <sup>2</sup>
PFC (POWER FACTOR	This circuit absorbs sinusoidal current from the power input
CONTROLLER) CIRCUIT	line, thereby ensuring the product complies with the
	EN 61000-3-2 standard; this is an indispensable requirement
	for complying with the EMC (Electromagnetic compatibility)
	Directive.
	It also guarantees a constant set outlet pressure if the
	input voltage varies (within the permitted range
	230V +/- 10%).

# **TECHNICAL**

# **DATA FOR**

# **FREQUENCY**

# CONVERTER

# UNIT

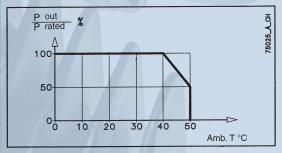
PROTECTION:	IP55
RECOMMENDED MOTORS:	Direct with standard Lowara SM motor terminal board
RADIATOR MATERIAL:	Die-cast aluminium
RADIATOR COLOUR:	Black

### **OPERATING RANGE**

*AMBIENT TEMPERATURE:	0÷40 °C
MAX. HUMIDITY (WITHOUT	95 %
CONDENSATION):	

<sup>\*</sup>For higher temperatures, please see derating curve

#### **DERATING CURVE**



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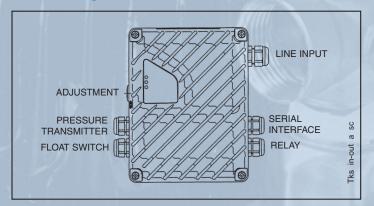


#### **STANDARDS AND MARKS**

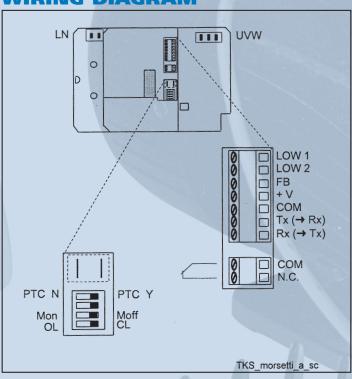
	98/037/EEC*
	(Machinery Directive)
	73/23/EEC
	(Low Voltage Directive)
	89/336/EEC
	(EMC Directive)
Harmonic emission limit	EN 61000-3-2

<sup>\*</sup>Applicable to variable speed electric pump system

#### **INPUTS/OUTPUTS**



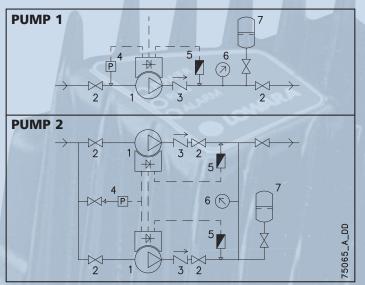
#### **WIRING DIAGRAM**



#### KEY

REF.	DESCRIPTION						
LN	230V single-phase power input						
UVW	230V three-phase motor power input						
LOW 1	Float switch input						
LOW 2	Float switch input						
FB	Pressure transmitter signal						
+ V	Pressure transmitter power input						
СОМ	Common serial line						
TX	Serial signal						
RX	Serial signal						
СОМ	Common relay contact						
N.C.	Normally closed relay contact						
	MICROSWITCHES						
PTC N/PTC Y	PTC configuration (Not used)						
Mon/Moff	Main pump /Secondary pump						
OL/CL	Motor speed adjustment mode (OL)						
	Pressure Control Mode (CL)						

#### **SYSTEM CONNECTION SCHEME**



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#### KEY

A 1000	
REF.	COMPONENT
1	Teknospeed pump
2	On/off valve
3	Check valve
4	Input pressure control
5	Pressure transmitter
6	Pressure gauge
7	Surge tank (5% Qmax)





### **OPERATING MODES**

#### **CONSTANT PRESSURE CONTROL**



#### • Operation:

The converter detects the instantaneous pressure in the system through the pressure transmitter and adjusts motor speed to keep it at the required value.

- The pressure is read directly on the pressure gauge.
- The water level can be monitored with a float switch.
- A clean 230V 1A alarm contact is available for signalling purposes (LED or buzzer).
- Membrane tank required; recommended size at least 8 litres (Pre-loading pressure: -20% of set pressure).
- Available both with horizontal (TKS/HMZ, TKS/BG, TKS/CEA, TKS/CA) and vertical (TKS/SV) pumps.

#### **CONSTANT PRESSURE CONTROL - TWIN-PUMP UNIT**



#### • Operation:

A request for water generates a pressure drop in the system; the first pump starts and if its capacity is sufficient to compensate the request, it keeps the pressure at the set value. Otherwise, when the first pump reaches maximum speed (50 Hz), the second pump starts to assist the first. When the request for water terminates, the system stops.

- Simple protection panel (the control takes place inside the converters)
- In the event of a fault in one of the two pumps or converters, the water supply is guaranteed because the system does not stop completely as the main pump can continue to deliver water.
- Cyclical changeover of pumps at every request of water.
- Reduced space.
- Available both with horizontal (GTKS20/HMZ, GTKS20/CA) and vertical (GTKS20/SV) units.



#### **MOTOR SPEED ADJUSTMENT**



#### • Operation:

Teknospeed can adjust motor speed in two ways:

- 1. With a potentiometer where the halfway position corresponds to a frequency of about 25 Hz (max. frequency 50 Hz).
- 2. With a 4÷20mA signal at the FB input (proportional speed)
- The LOW1 and LOW2 inputs work as START/STOP (run enable).
- The hydraulic performance of the pump is proportional to the motor speed.

### **DIAGNOSTICS**



LED N° OF FLASHES	TYPE OF ALARM
2	Converter overcurrent
3	Converter overtemperature
4	Motor overtemperature
5	No water (LOW1/LOW2)
6	No signal from pressure transmitter
7	Undervoltage
8	Serial interrupted (timeout)

#### TYPE OF ALARM

- The number of times the red LED flashes identifies the type of alarm (see table).
- An attempt is made to reset the alarm every 20 seconds; after three unsuccessful attempts, the converter stops.
- If at least 10 minutes elapse after an alarm without any other faults occurring, the reset attempts counter is reset.

#### **NO WATER ALARM**

- In the constant pressure control mode, the opening of the contacts between inputs LOW1 and LOW2 (float switch) generates the no water alarm.
- If the contact is reset, the pump starts automatically.



## **PRODUCT RANGE**

### **TECHNICAL DATA (HYDRAULIC PERFORMANCE AT 50HZ)**

**TEKNOSPEED VARIABLE SPEED ELECTRIC PUMPS: SINGLE-PHASE POWER INPUT** 1 x (230  $\pm$  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	Input I	Q1	Q2	H1	H2
PUMP TYPE*		[kW]	[A]	[l/min]	[l/min]	[m]	[m]
TKS/HMZ HORIZONTAL MULTI-STA	AGE WITH PLASTIC IMP	ELLERS					
	TKS/2HM3ZT	0.3	2.3	20	70	20.0	7.9
	TKS/2HM5ZT	0.55	3.5	20	70	40.0	16.5
	TKS/2HM7ZT	0.75	4.9	20	70	50.8	20.5
	TKS/4HM4ZT	0.45	3.0	40	120	19.3	7.6
	TKS/4HM5ZT	0.55	3.5	40	120	28.6	11.5
	TKS/4HM9ZT	1.1	6.8	40	120	48.3	20.3
TKS/BG SELF-PRIMING WITH AISI	304 STEEL IMPELLERS						
	TKS/BG7	0.75	4.9	20	60	38.1	25.6
	TKS/BG11	1.1	6.8	20	70	45.8	30.3
TKS/CA-CEA WITH AISI 304 STEEL	SINGLE/TWIN IMPELLE	RS					
	TKS/CEA80/5	0.75	4.9	30	100	30.0	21.0
	TKS/CEA120/5	1.1	6.8	60	160	28.2	17.3
	TKS/CA70/33	0.75	4.9	30	80	38.8	23.9
	TKS/CA70/44	1.1	6.8	30	80	49.5	34.0
TKS/SV VERTICAL MULTI-STAGE W	ITH AISI 304 STEEL IM	IPELLERS					
	TKS/SV206F07T	0.75	4.9	20	70	56.0	22.0
	TKS/SV208F11T	1.1	6.8	20	70	75.0	30.0
	TKS/SV404F07T	0.75	4.9	40	133	34.0	10.0
	TKS/SV407F11T	1.1	6.8	40	133	59.5	18.0

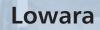
For details about the materials of the pump components, please see the General Catalogue

#### TEKNOSPEED VARIABLE SPEED TWIN-PUMP UNITS: SINGLE-PHASE POWER INPUT 1 x (230 ±10%) V 50/60 Hz

		Rated P	Input I	Q Min	Q Max	H Max	H Min
UNIT TYPE*		[kW]	[A]	[l/min]	[l/min]	[m]	[m]
GTKS20/HMZ HORIZONTAL MULT	I-STAGE WITH PLASTIC	IMPELLERS					
	GTKS20/2HM5ZT	2 x 0.55	7.0	40	140	40.0	16.5
	GTKS20/2HM7ZT	2 x 0.75	9.8	40	140	50.8	20.5
	GTKS20/4HM5ZT	2 x 0.55	7.0	80	240	28.6	11.5
	GTKS20/4HM9ZT	2 x 1.1	13.6	80	240	48.3	20.3
GTKS20/CA WITH AISI 304 STEEL	TWIN IMPELLERS						
	GTKS20/CA70/33	2 x 0.75	9.8	60	160	38.8	23.9
	GTKS20/CA70/44	2 x 1.1	13.6	60	160	49.5	34.0
GTKS20/SV VERTICAL MULTI-STA	GE WITH AISI 304 STEE	L IMPELLERS					
	GTKS20/SV206F07T	2 x 0.75	9.8	40	140	56.0	22.0
	GTKS20/SV208F11T	2 x 1.1	13.6	40	140	75.0	30.0
	GTKS20/SV404F07T	2 x 0.75	9.8	80	266	34.0	10.0
-10	GTKS20/SV407F11T	2 x 1.1	13.6	80	266	59.5	18.0

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

**<sup>★</sup>**Frequency converter connected to a three-phase pump with a 230 V delta connection





## **ACCESSORIES**

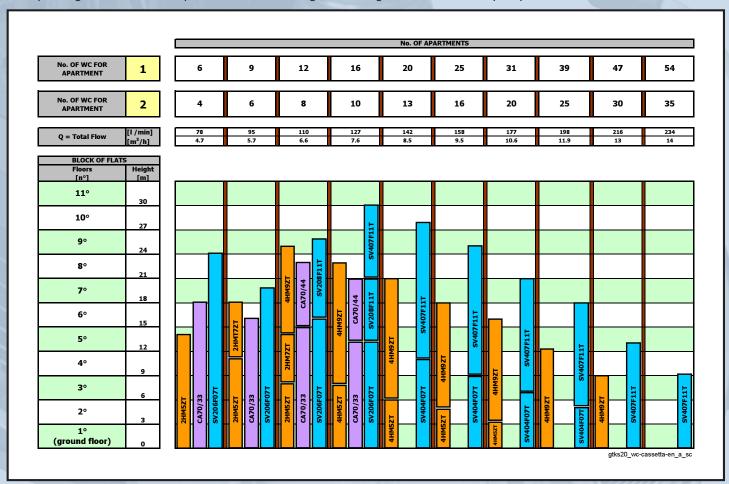
A	CCESSORY TYPE	DESCRIPTION
	TEKNOSPEED HYDRAULIC KIT	<ul> <li>For horizontal pumps:         TKS/HMZ, TKS/BG, TKS/CEA, TKS/CA</li> <li>Includes 8 litre Hydrotube / Pressure gauge /         5-way connector / Check valve / Pipe extension</li> </ul>
THE STATE OF THE S	PRESSURE GAUGE	<ul> <li>Pressure range: 0 ÷ 10 bar</li> <li>Inlet union 1/4"</li> </ul>
	8 LITRE HYDROTUBE KIT	<ul> <li>For horizontal units: GTKS20/HMZ, GTKS20/CA</li> <li>Includes: PN8 Hydrotube / ball valve</li> </ul>
	24 LITRE HYDROTUBE KIT	<ul> <li>For vertical units: GTKS20/SV</li> <li>Includes: PN10 Hydrotube / ball valve</li> </ul>
	FLOAT SWITCH	With 1,5 metre long cable
	PROBE UNIT KIT	<ul> <li>For twin-pump units GTKS20</li> <li>Can be fitted in electrical panel</li> <li>Includes: Probe unit (230 V) / three electrodes</li> </ul>



# GUIDE TO CHOOSING A GTKS20 PRESSURE BOOSTER UNIT

#### **WC WITH CISTERN**

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:

TYPE OF WC: WITH CISTERN

N° WC'S PER APARTMENT: 1
N° APARTMENTS: 12

N° FLOORS:

### POSSIBLE CHOICES:

UNIT MODEL PUMP TYPE

1. GTKS20/2HM7ZT Horizontal multistage – plastic impeller

4

2. GTKS20/CA70/33 Horizontal with twin-impeller – AISI304 steel impeller

3. GTKS20/SV206F07T Vertical multistage – AISI304 steel impeller

#### N.B.:

- Useful head at the highest user:
   1. 15 m for WCs with cistern
  - 2. 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

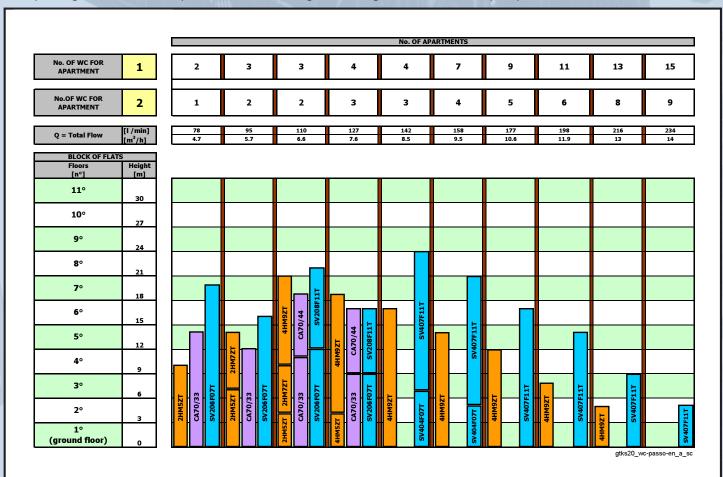
N.B.: For apartment blocks with large numbers of simultaneous requests (e.g.: holiday resorts), increase the number of apartments by at least 20%.



# GUIDE TO CHOOSING A GTKS20 PRESSURE BOOSTER UNIT

### **DIRECT FLUSHING WC'S**

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:

TYPE OF WC:

N° WC'S PER APARTMENT:

N° APARTMENTS:

N° FLOORS:

**POSSIBLE CHOICES:** 

UNIT MODEL

1. GTKS20/4HM9ZT

2. GTKS20/SV407F11T

**DIRECT FLUSHING** 

1

6 (select column with  $n^{\circ}$  apartments = 7)

3

**PUMP TYPE** 

Horizontal multistage – plastic impeller Vertical multistage – AISI304 steel impeller

#### N.B.:

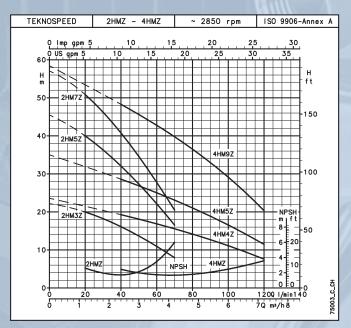
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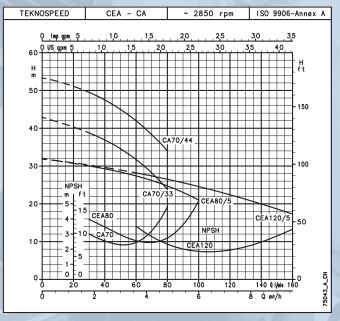




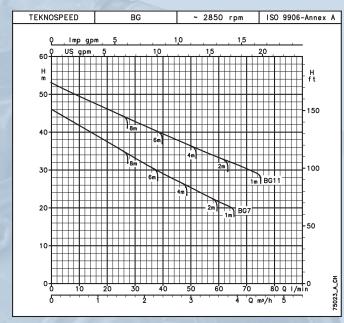
## PERFORMANCE CURVES FOR PUMP AT 2850 Hz min-1 50 Hz



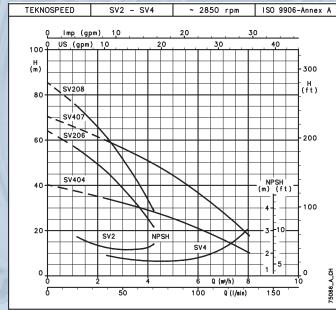
	RAT	FD	O = FLOW									
PUMP TYPE	POWER		l/min 0	20	30	40	50	60	70	80	100	120
			m <sup>3</sup> /h 0	1,2	1,8	2,4	3	3,6	4,2	4,8	6	7,2
	kW	HP	H = TOTAL HEAD IN METRES OF WATER COLUMN									
TKS/2HM3ZT	0,3	0,4	22,2	20,0	18,2	16,1	13,7	10,9	7,9			
TKS/2HM5ZT	0,55	0,75	45,5	40,0	36,3	32,1	27,3	22,1	16,5			
TKS/2HM7ZT	0,75	1	57,0	50,8	46,2	40,8	34,6	27,8	20,5			
TKS/4HM4ZT	0,45	0,6	23,6			19,3	18,1	16,9	15,6	14,2	11,1	7,6
TKS/4HM5ZT	0,55	0,75	35,0			28,6	26,9	25,0	23,1	21,0	16,6	11,5
TKS/4HM9ZT	1,1	1,5	58,4			48,3	45,6	42,8	39,8	36,5	29,1	20,3



PUMP TYPE RATED		Q = FLOW									
POWIF TIPE	POWER		l/min 0	30	40	60	80	100	120	140	160
			m <sup>3</sup> /h 0	1,8	2,4	3,6	4,8	6	7,2	8,4	9,6
	kW	HP	H = TOTAL HEAD IN METRES OF WATER CO						TER CO	LUMN	
TKS/CA 70/33	0,75	1	42,9	38,8	36,9	31,7	23,9				
TKS/CA 70/44	1,1	1,5	53,3	49,5	47,5	42,0	34,0				
TKS/CEA 80/5	0,75	1	32,0	30,0	29,3	27,4	24,7	21,0			
TKS/CEA 120/5 1,1 1,5		31,8			28,2	26,5	24,6	22,4	20,0	17,3	
	,					,	,	t	ks ca-c	ea-2p5	) b th



PUMP TYPE	RA	ΓED				Q =	FLOW	ı			
TOWN TITE	POV	VER	l/min 0	10	20	30	40	50	60	65	70
				0.6	1.2	1.8	2.4	3	3.6	3.9	4.2
	kW			TOTAL	HEAD	IN ME	TRES O	F WAT	ER CO	LUMN	
TKS/BG7	0.75	1	45.4		38.1	34.8	31.7	28.6	25.6		
TKS/BG11	1.1	1.5	53.2		45.8	42.5	39.5	36.5	33.5	31.9	30.3



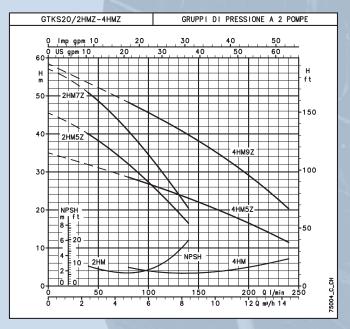
PUMP TYPE	RA <sup>*</sup>				Q = FLOW							
PUIVIP I TPE	PO\	NER	l/min C	20	30	40	60	70	80	100	133	
			m³/h 0	1.2	1.8	2.4	3.6	4.2	4.8	6.0	8.0	
	kW	HP	H =	TOTAL	HEAD	IN M	ETRES	OF W	ATER (	OLUN	1N	
TKS/SV206F07T	0.75	1	64.0	56.0	51.0	45.5	31.0	22.0				
TKS/SV208F11T	1.1	1.5	85.5	75.0	68.0	61.0	41.5	30.0				
TKS/SV404F07T	0.75	1	40.0			34.0	30.5	28.0	26.0	21.0	10.0	
TKS/SV407F11T	1.1	1.5	70.0			59.5	53.0	49.0	46.0	37.0	18.0	

tks sv-2p50 a th



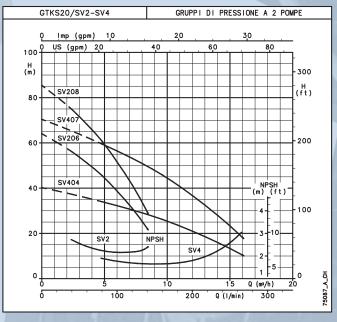


## PERFORMANCE CURVES FOR PUMP AT 2850 Hz min<sup>-1</sup> 50 Hz

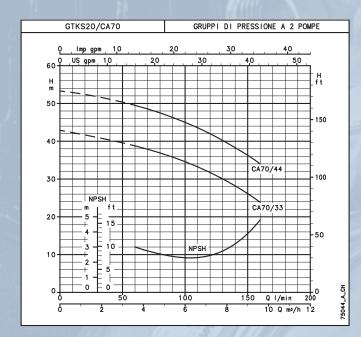


PUMP TYPE	RAT	ED	Q = FLOW								
FOIVIF TTFE	POV	VER	l/min 0	40	60	80	120	140	160	200	240
			$m^3/h$ 0	2,4	3,6	4,8	7,2	8,4	9,6	12	14
	kW	HP	H = To	DTAL I	HEAD	IN ME	TRES	OF WATER COLUMN			
GTKS20/2HM5ZT	2x0,55	2x0,75	45,5	40,0	36,3	32,1	22,1	16,5			
GTKS20/2HM7ZT	2x0,75	2x1	57,0	50,8	46,2	40,8	27,8	20,5			
GTKS20/4HM5ZT	2x0,55	2x0,75	35,0			28,6	25,0	23,1	21,0	16,6	11,5
GTKS20/4HM9ZT	2x1.1	2x1,5	58,4			48,3	42,8	39.8	36.5	29,1	20.3

gtks20\_hm-2p50\_c\_th



PUMP TYPE	RA	ΓED	Q = FLOW								
PUMP TYPE	POV	VER	l/min 0	40	60	80	120	140	160	200	266
		r		2.4	3.6	4.8	7.2	8.4	9.6	12	16
	kW	HP	H = T	OTAL	HEAD	IN ME	TRES	OF W	ATER (	OLUN	ΛN
GTKS20/SV206F07T	2x0.75	2x1	64.0	56.0	51.0	45.5	31.0	22.0			
GTKS20/SV208F11T	2x1.1	2x1.5	85.5	75.0	68.0	61.0	41.5	30.0			
GTKS20/SV404F07T	2x0.75	2x1	40.0			34.0	30.5	28.0	26.0	21.0	10.0
GTKS20/SV407F11T	2x1.1	2x1.5	70.0			59.5	53.0	49.0	46.0	37.0	18.0
		•	·					gtk	cs20 s	v-2p50	a th



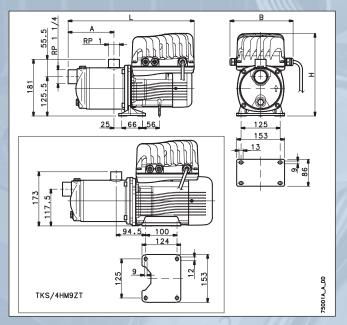
	PUMP TYPE	RAT	ΈD	Q = FLOW					
	PUIVIP I TPE	POV	VER	l/min 0	60	80	120	160	
				m <sup>3</sup> /h 0	3.6	4.8	7.2	9.6	
٦		kW	HP	H = TOTAL	HEAD IN N	IETRES OF	WATER CO	DLUMN	
	GTKS20/CA 70/33	2x0.75	2x1	42.9	38.8	36.9	31.7	23.9	
	GTKS20/CA 70/44	2x1.1	2x1.5	53.3	49.5	47.5	42.0	34.0	
ı									
							ntks20_ca-	2n50 a th	

Figures refer to two pumps working at the same time. For just one pump, reduce flow rates by 50%.



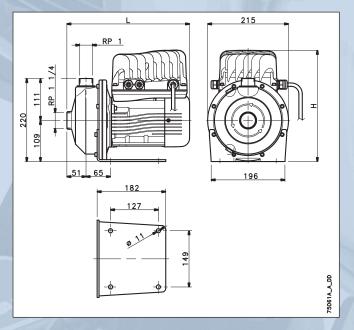


## **DIMENSION AND WEIGHT OF PUMP**

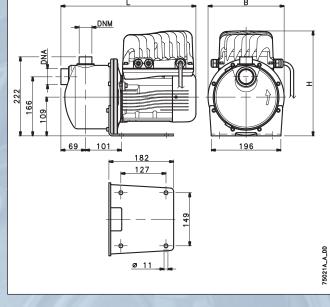


PUMP TYPE		DIME	NSIONS (n	nm)		WEIGHT		
	Nr STAGES H L B A							
TKS / 2HM3ZT	2	264	354	202	96	9,6		
TKS / 2HM5ZT	4	264	404	202	146	11,4		
TKS / 2HM7ZT	5	274	435	202	171	14,2		
TKS / 4HM4ZT	2	264	354	202	96	10,1		
TKS / 4HM5ZT	3	264	379	202	121	10,9		
TKS / 4HM9ZT	5	274	479	202	171	14,7		

tks\_hm-2p50\_b\_td

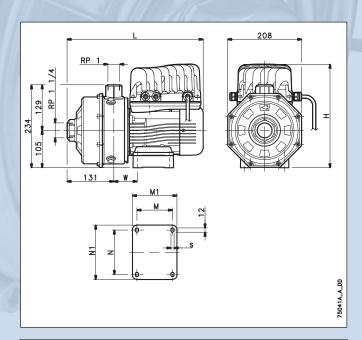


PUMP TYPE	DIMENSIO	ONS (mm)	WEIGHT
	L	Н	kg
TKS/CEA 80/5	325	295	15
TKS/CEA 120/5	370	303	15.5
		-	tks_cea-2p50_a_td



PUMP TYPE		WEIGHT				
	Н	L	В	DNA	DNM	kg
TKS / BG7	295	380	215	Rp 11/4	Rp 1	15.5
TKS / BG11	303	425	215	Rp 11/4	Rp 1	18.5

tks\_bg-2p50\_a\_td



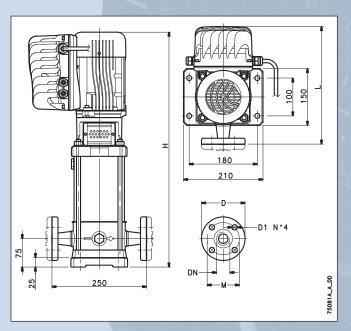
PUMP TYPE		DIMENSIONS (mm)									
	Н	L	M	M1	N	N1	S	W	kg		
TKS/CA 70/33	291	383	90	113	112	135	7	66	17.5		
TKS/CA 70/44	299	420	100	125	125	153	9	76	21		

tks\_ca-2p50\_a\_td





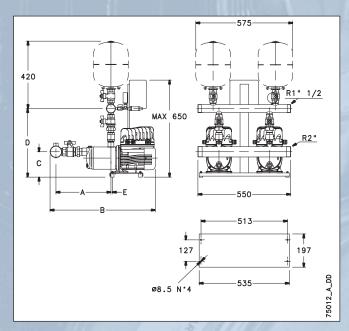
## **DIMENSION AND WEIGHT OF PUMP**



PUMP TYPE			DIME	NSION	(mm)		WEIGHT
	Н	L	D	D1	M	DN	kg
TKS/SV206F07T	621	311	115	14	85	DN25 (Rp1)	24.5
TKS/SV208F11T	708	319	115	14	85	DN25 (Rp1)	25.5
TKS/SV404F07T	571	311	140	18	100	DN32(Rp1 1/4)	23.5
TKS/SV407F11T	683	319	140	18	100	DN32(Rp1 1/4)	25.5

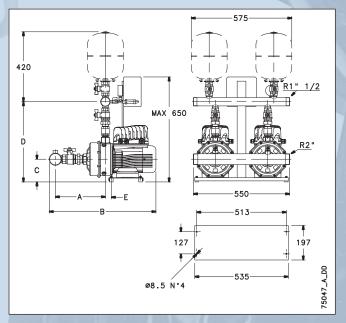
tks\_sv-2p50\_a\_td

## **DIMENSION AND WEIGHT OF UNITS**

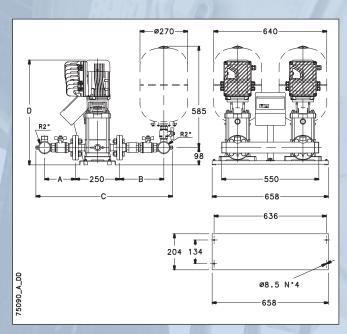


		the same of the sa									
PUMP TYPE		DIMENSIONS (mm)									
	PUMP	Α	В	c	D	E	kg				
GTKS20 / 2HM5ZT	2HM5ZT	306	594	149	419	28	37				
GTKS20 / 2HM7ZT	2HH7ZT	331	625	149	419	28	48				
GTKS20 / 4HM5ZT	4HM5ZT	281	569	149	486	28	47				
GTKS20 / 4HM9ZT	4HM9ZT	331	670	141	478	97,5	49				
	PUMP TYPE  GTKS20 / 2HM5ZT  GTKS20 / 2HM7ZT  GTKS20 / 4HM5ZT  GTKS20 / 4HM9ZT	PUMP           GTKS20 / 2HM5ZT         2HM5ZT           GTKS20 / 2HM7ZT         2HH7ZT           GTKS20 / 4HM5ZT         4HM5ZT	PUMP         A           GTKS20 / 2HM5ZT         2HM5ZT         306           GTKS20 / 2HM7ZT         2HH7ZT         331           GTKS20 / 4HM5ZT         4HM5ZT         281	PUMP         A         B           GTKS20 / 2HM5ZT         2HM5ZT         306         594           GTKS20 / 2HM7ZT         2HH7ZT         331         625           GTKS20 / 4HM5ZT         4HM5ZT         281         569	PUMP         A         B         C           GTKS20 / 2HM5ZT         2HM5ZT         306         594         149           GTKS20 / 2HM7ZT         2HH7ZT         331         625         149           GTKS20 / 4HM5ZT         4HM5ZT         281         569         149	PUMP         A         B         C         D           GTKS20 / 2HM5ZT         2HM5ZT         306         594         149         419           GTKS20 / 2HM7ZT         2HH7ZT         331         625         149         419           GTKS20 / 4HM5ZT         4HM5ZT         281         569         149         486	PUMP         A         B         C         D         E           GTKS20 / 2HM5ZT         2HM5ZT         306         594         149         419         28           GTKS20 / 2HM7ZT         2HH7ZT         331         625         149         419         28           GTKS20 / 4HM5ZT         4HM5ZT         281         569         149         486         28				

gtks20\_hm-2p50\_b\_td



PUMP TYPE			WEIGHT					
TOWN TITE	PUMP	Α	В	C	D	E	kg	
GTKS20/CA70/33	CA70/33	291	574	128	472	39	43	
GTKS20/CA70/44	CA70/44	291	612	128	472	79	43	
gtks20_ca-2p50_a_td								



PUMP TYPE		DIMENSIONS (mm)				WEIGHT
''''' ''''	PUMP	Α	В	C	D	kg
GTKS20/SV206F07T	SV206F07T	125	195	655	644	50
GTKS20/SV208F11T	SV208F11T	125	195	655	731	52
GTKS20/SV404F07T	SV404F07T	130	200	665	594	49
GTKS20/SV407F11T	SV407F11T	130	200	665	706	51

gtks20\_sv\_2p50\_a\_td





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#### ITT RESIDENTIAL AND COMMERCIAL WATER DIVISION - EMEA

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