TISSEL-200

Pumps with inverter

Clean water

Domestic use

Civil use

TS2-MK

TS2-FCR

TS2-PLURIJET

DESCRIPTION

- **TISSEL 200** are compact pumping units consisting of one centrifugal waterpump coupled with a variable speed device(inverter) with an external pressure sensor to be placed in a place inside the system.
- Sturdy and simple to use,**TISSEL 200** is ideal to keep always constant pressure inside system regardless variation of utilities.
- Built-in speed regulator with automatic fan ventilation and IP54 protection. Powered by single-phase alternate tension (230±10% V - 50/60 Hz) it gives an output alternate 3phase tension to run waterpump motor in IE3 class.
- Smooth start and stop of the pump .
- Lower wear of the waterpump due to modulation of running speed from the inverter.

PROTECTIONS

- **Dry running**
  Microchip action stops pump after few seconds and try scheduled set restarts to check water availability.
- **Running pressure lower than minimum set running**
  It stops the pump after few seconds
  (i.e. when there is a break in a pipe).
- **Currents-tensions-temperatures**
  It limits currents; it informs whether tension reaches the allowed limits, it protects from overheating as well as short circuits between the output phases.

CONSTRUCTION AND SAFETY STANDARDS

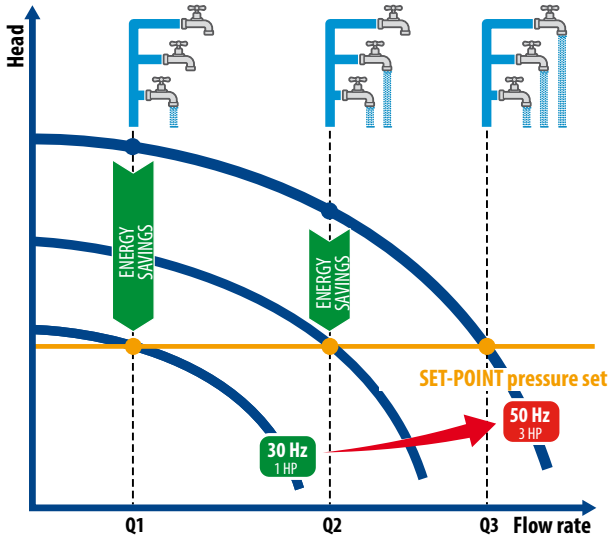
EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

CE

ENERGY SAVINGS

As it works at variable speed, TISSEL 200 uses only the necessary energy demand required by the system according to the water demand.



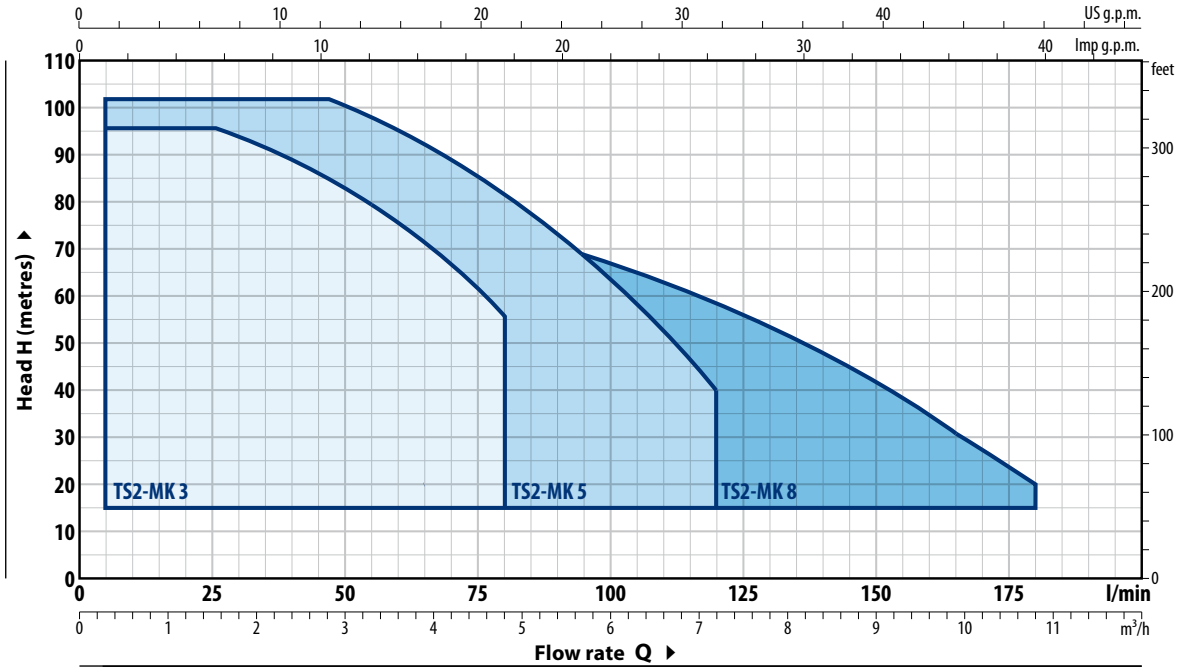
CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

EAC

TISSEL-200 MK

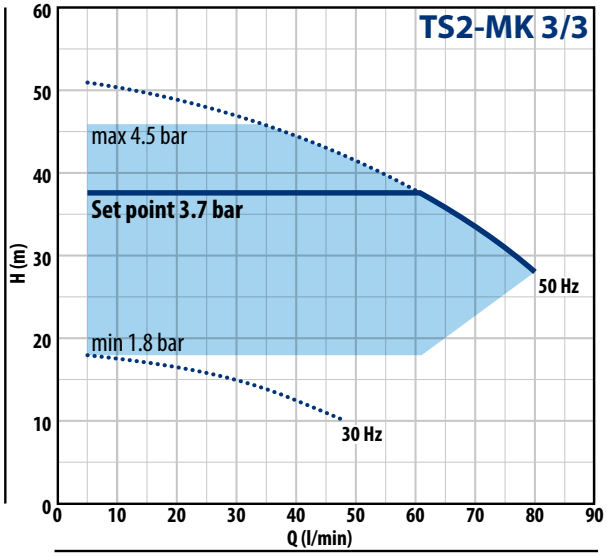
PERFORMANCE RANGE n= 2900 min^{-1}

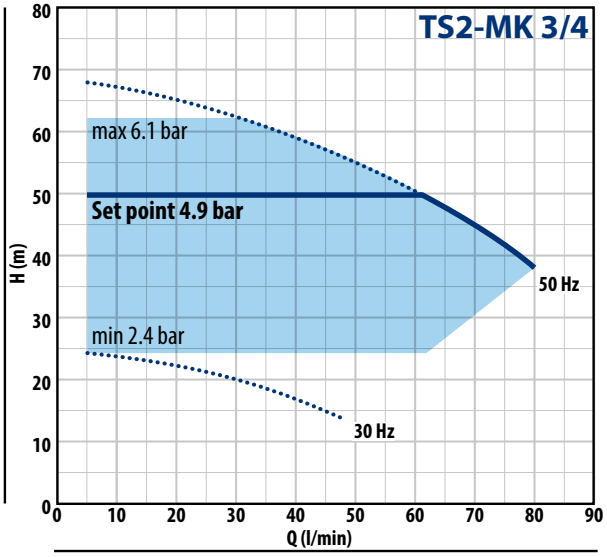


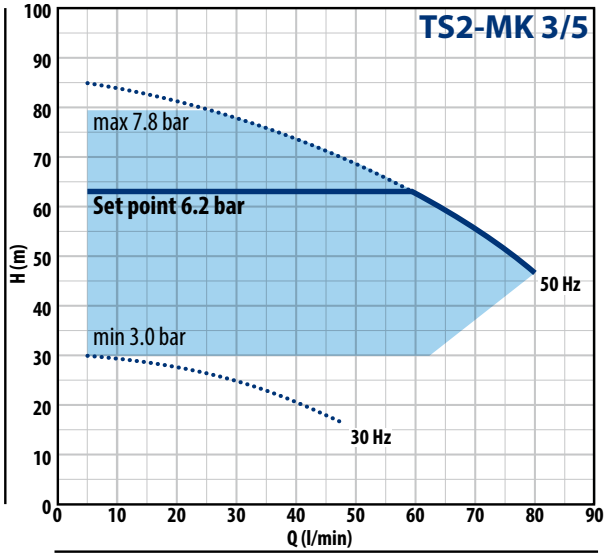
MODEL	POWER P2			ABSORPTION 230 V	MAX PERFORMANCES Q	MAX PERFORMANCES H	PERFORMANCES (ADJUSTABLE SET POINT) Min. Set Point		Set Point Stand. Setting		Max. Set Point	
Single-phase	kW	HP	▲		l/min	metres	bar	l/min	bar	l/min	bar	l/min
TS2-MK 3/3	0.75	1		9.0 **A**	5 – 80	46 – 28	1.8	5 – 63	**3.7**	5 – **58**	4.5	5 – 35
TS2-MK 3/4	1.1	1.5		9.0 **A**	5 – 80	62 – 38	2.4	5 – 62	**4.9**	5 – **58**	6.1	5 – 33
TS2-MK 3/5	1.1	1.5		13.0 **A**	5 – 80	80 – 47	3.0	5 – 62	**6.2**	5 – **58**	7.8	5 – 28
TS2-MK 3/6	1.5	2		13.0 **A**	5 – 80	96 – 56	3.6	5 – 63	**7.4**	5 – **58**	9.4	5 – 25
TS2-MK 5/4	1.1	1.5		10.0 **A**	5 – 120	50 – 20	2.0	5 – 120	**3.7**	5 – **85**	4.9	5 – 48
TS2-MK 5/5	1.1	1.5		12.0 **A**	5 – 120	63 – 25	2.5	5 – 120	**4.6**	5 – **85**	6.2	5 – 48
TS2-MK 5/6	1.5	2	**IE3**	13.5 **A**	5 – 120	78 – 30	3.0	5 – 120	**5.5**	5 – **85**	7.6	5 – 45
TS2-MK 5/7	1.8	2.5		16.0 **A**	5 – 120	92 – 34	3.5	5 – 118	**6.5**	5 – **85**	9.0	5 – 43
TS2-MK 5/8	2.2	3		17.5 **A**	5 – 120	102 – 40	4.0	5 – 120	**7.5**	5 – **85**	10.0	5 – 46
TS2-MK 8/4	1.5	2		14.0 **A**	5 – 180	50 – 15	2.0	5 – 167	**3.7**	5 – **120**	4.9	5 – 70
TS2-MK 8/5	1.8	2.5		15.0 **A**	5 – 180	64 – 18	2.5	5 – 167	**4.8**	5 – **120**	6.3	5 – 70
TS2-MK 8/6	2.2	3		16.0 **A**	5 – 180	80 – 20	3.1	5 – 163	**5.5**	5 – **120**	7.8	5 – 53

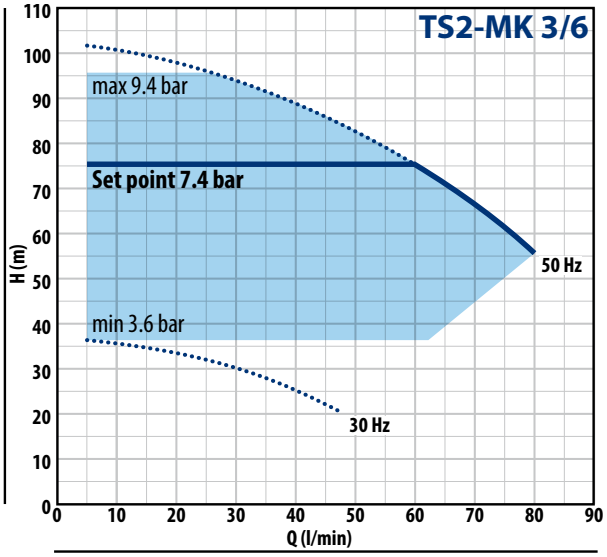
TISSEL-200 MK

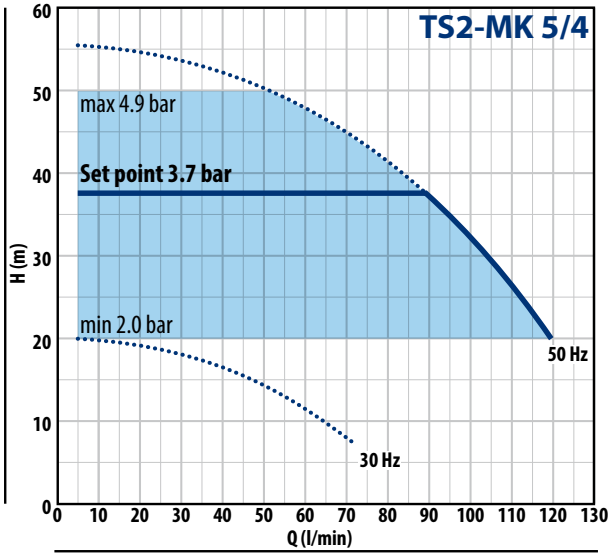
CHARACTERISTIC CURVES n= 2900 min^{-1}

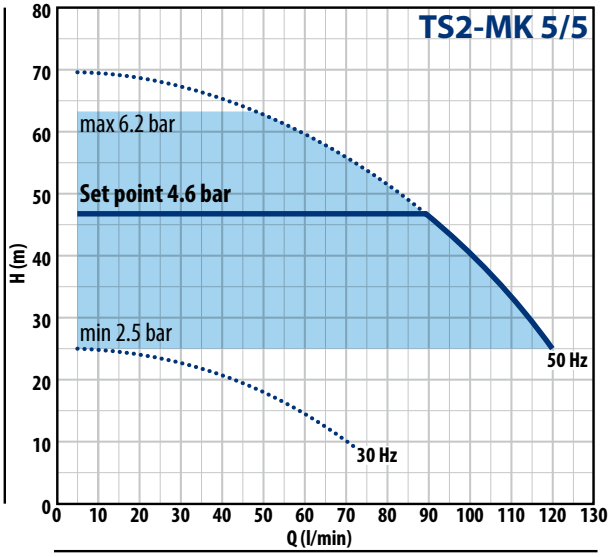




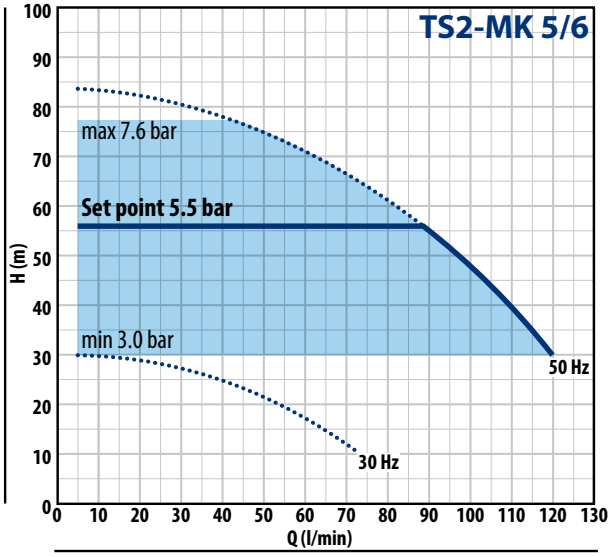


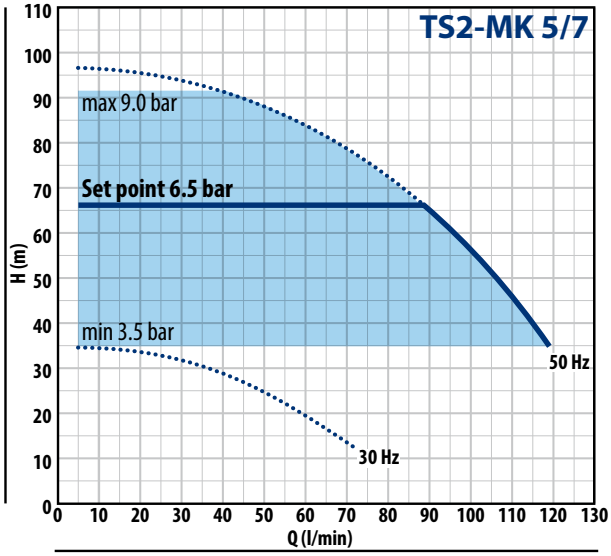


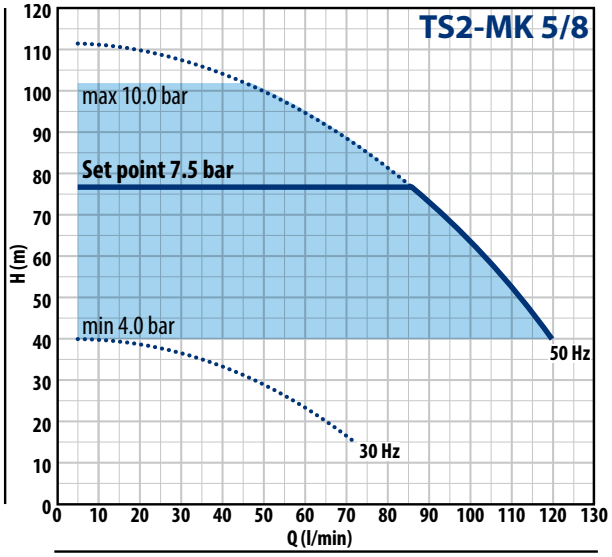


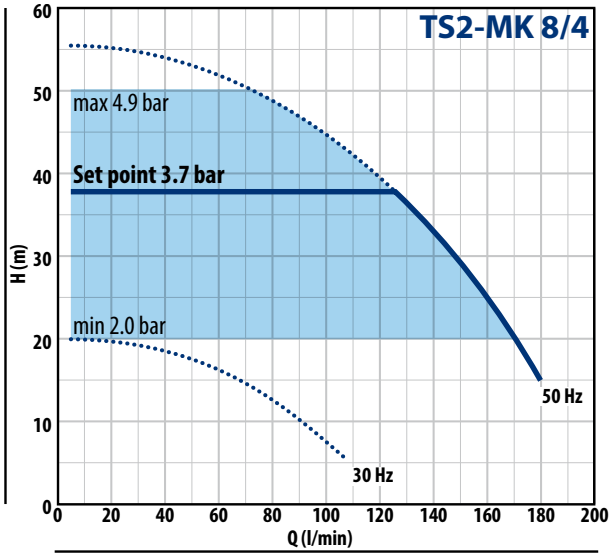


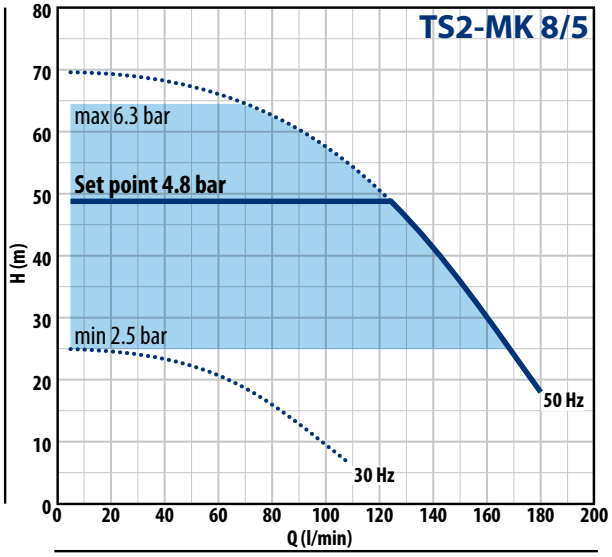
CHARACTERISTIC CURVES n= 2900 min^{-1}

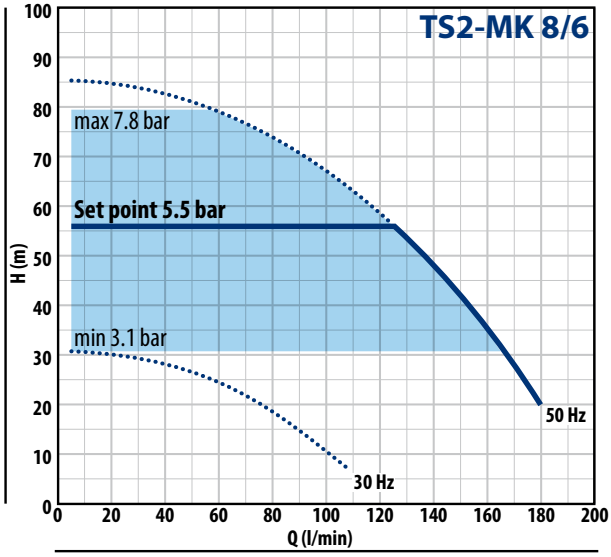






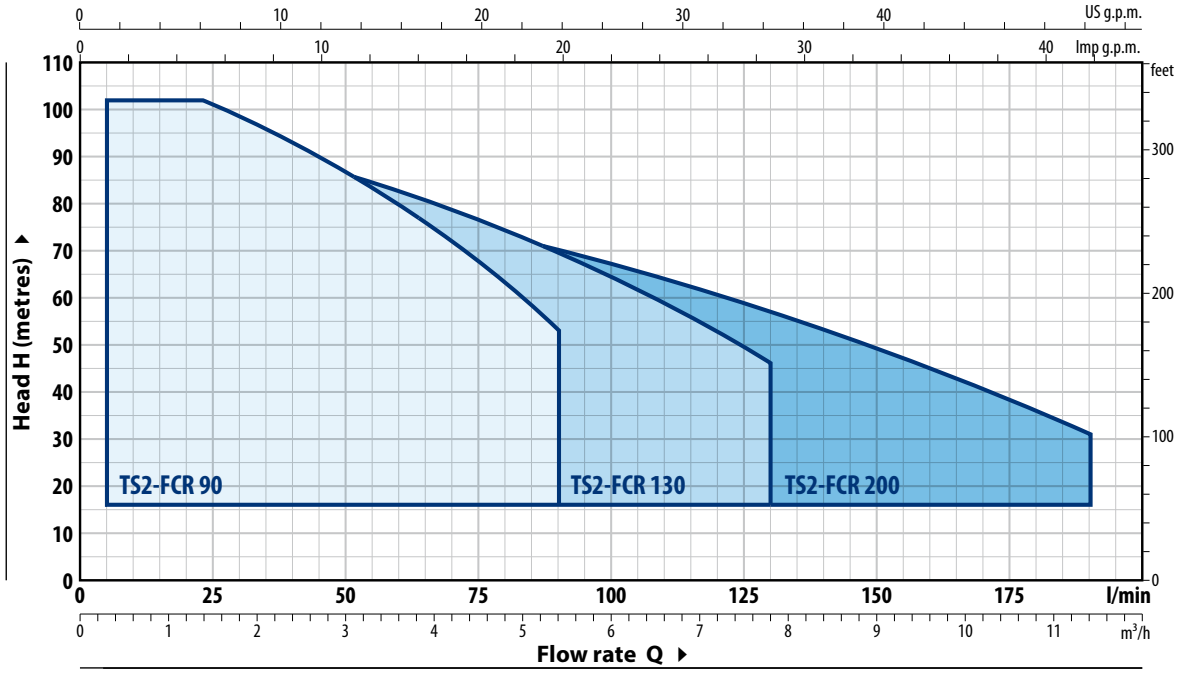






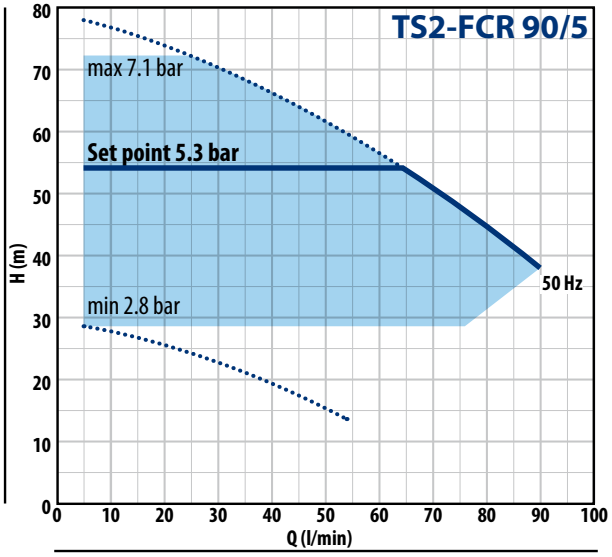
TISSEL-200 FCR

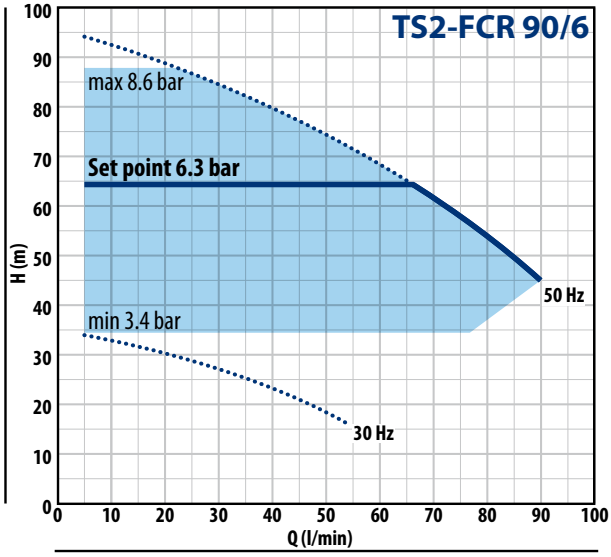
CHARACTERISTIC CURVES n= 2900 min^{-1}

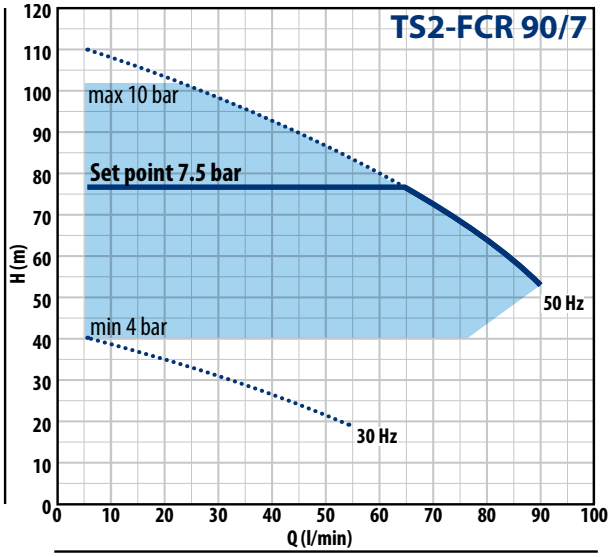


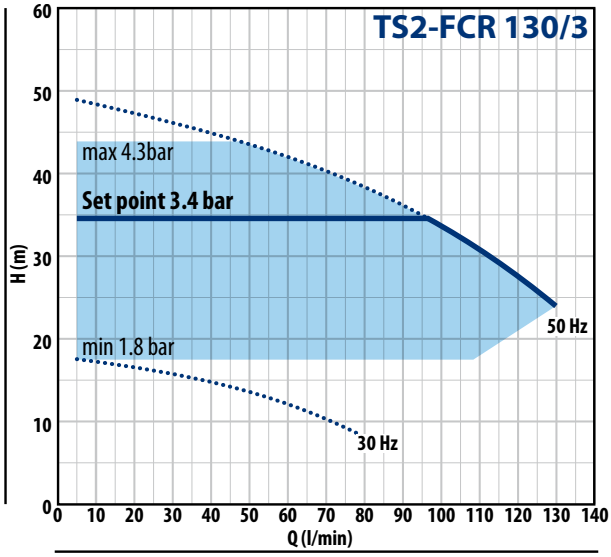
MODEL	POWER			ABSORPTION	MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2			230 V	Q	H	Min. Set Point		Set Point Stand. Setting		Max. Set Point	
Single-phase	kW	HP	▲		l/min	metres	bar	l/min	bar	l/min	bar	l/min
TS2-FCR 90/5	1.1	1.5		13.0 **A**	5 – 90	78 – 38	2.80	5 – 75	**5.30**	5 **– 65**	7.10	5 – 23
TS2-FCR 90/6	1.5	2		13.5 **A**	5 – 90	94 – 45	3.40	5 – 75	**6.30**	5 **– 65**	8.60	5 – 21
TS2-FCR 90/7	1.8	2.5		16.0 **A**	5 – 90	110 – 53	4.00	5 – 75	**7.50**	5 **– 65**	10.00	5 – 21
TS2-FCR 130/3	1.1	1.5		12.5 **A**	5 – 130	49 – 24	1.80	5 – 110	**3.40**	5 **– 92**	4.30	5 – 48
TS2-FCR 130/4	1.5	2		14.5 **A**	5 – 130	65 – 31	2.30	5 – 110	**4.40**	5 **– 92**	5.80	5 – 45
TS2-FCR 130/5	1.8	2.5	**IE3**	18.5 **A**	5 – 130	81 – 39	2.90	5 – 110	**5.50**	5 **– 92**	7.40	5 – 38
TS2-FCR 130/6	2.2	3		20.5 **A**	5 – 130	97 – 45	3.50	5 – 110	**6.50**	5 **– 92**	9.00	5 – 33
TS2-FCR 200/3	1.1	1.5		10.0 **A**	5 – 200	43 – 13	1.60	5 – 185	**2.80**	5 **– 133**	3.80	5 – 72
TS2-FCR 200/4	1.5	2		13.0 **A**	5 – 200	57 – 17	2.10	5 – 185	**3.60**	5 **– 133**	5.10	5 – 65
TS2-FCR 200/5	1.8	2.5		16.0 **A**	5 – 200	72 – 22	2.60	5 – 185	**4.60**	5 **– 133**	6.50	5 – 56
TS2-FCR 200/6	2.2	3		22.0 **A**	5 – 200	86 – 26	3.10	5 – 185	**5.50**	5 **– 133**	7.90	5 – 45

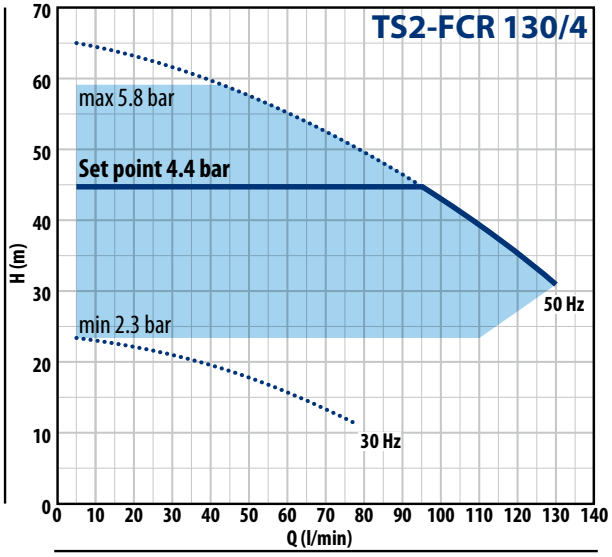
CHARACTERISTIC CURVES n= 2900 min^{-1}

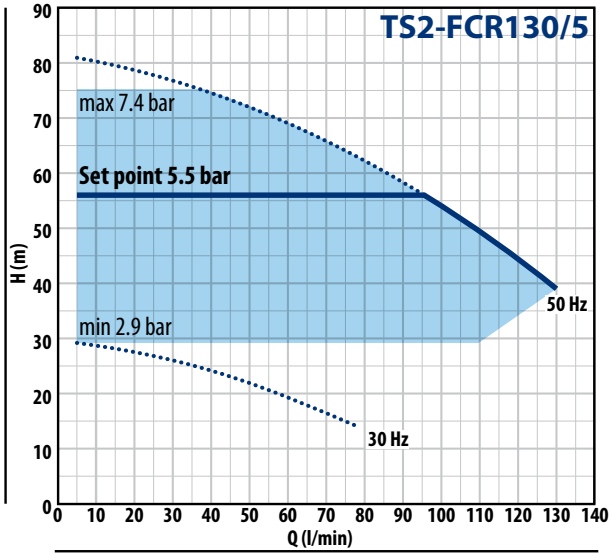






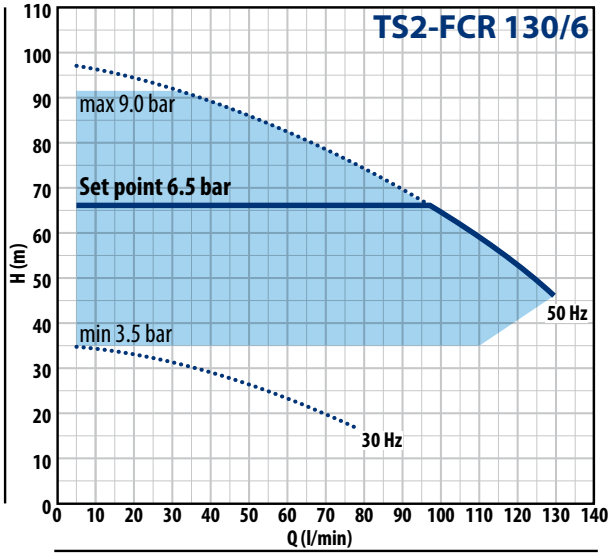


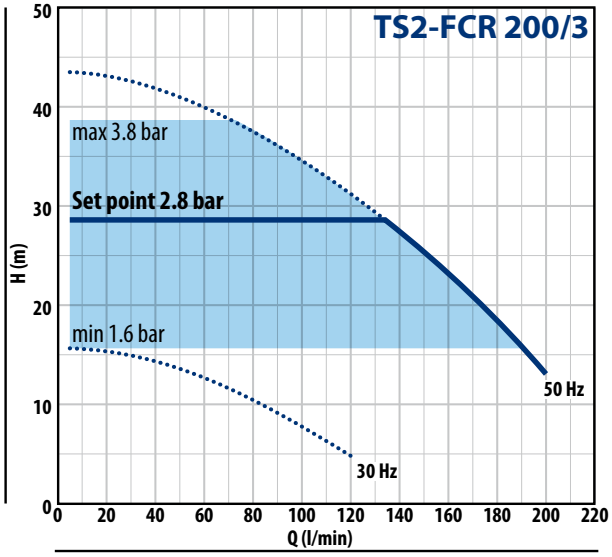


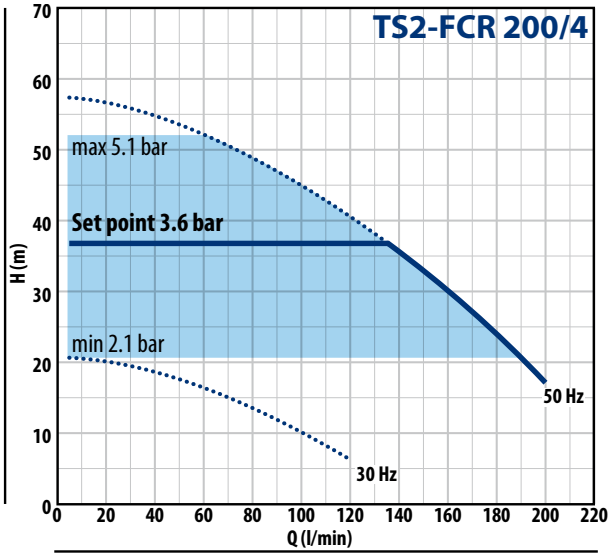


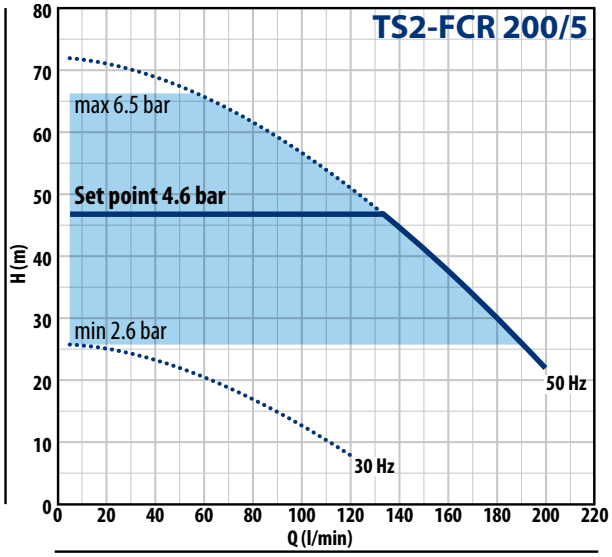
TISSEL-200 FCR

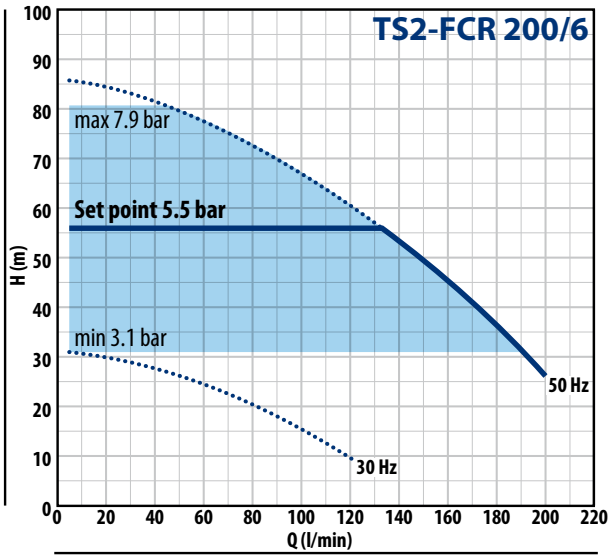
CHARACTERISTIC CURVES n= 2900 min^{-1}





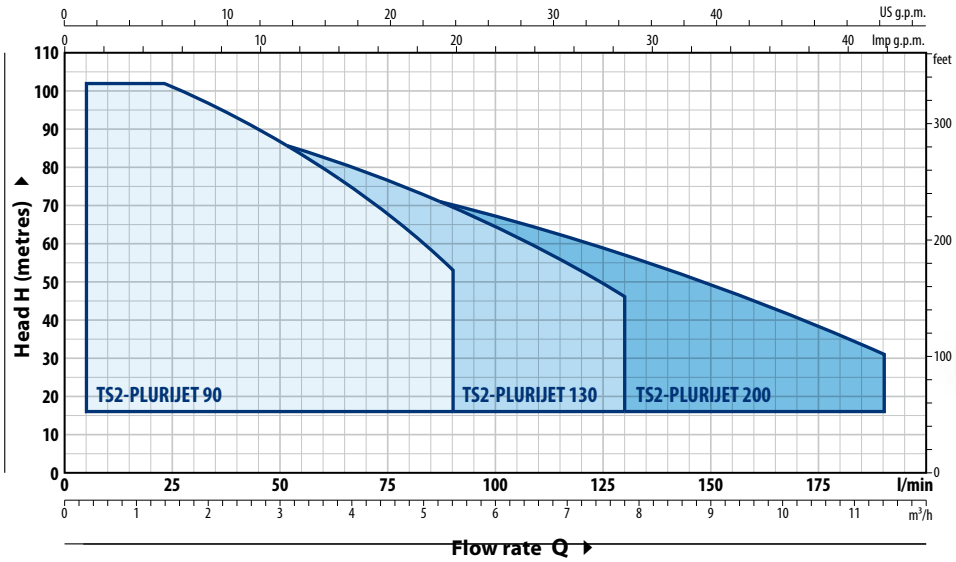






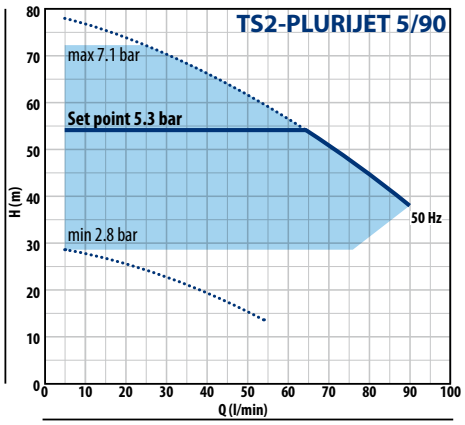
TISSEL-200 PLURIJET

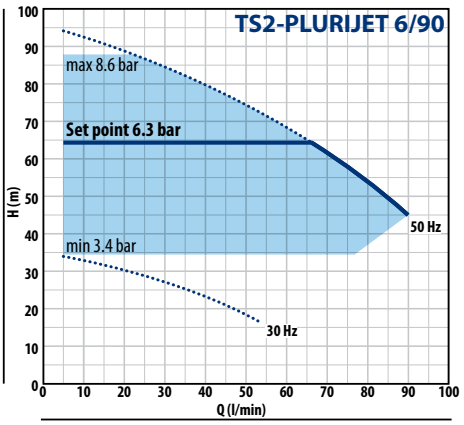
CHARACTERISTIC CURVES n= 2900 min⁻¹

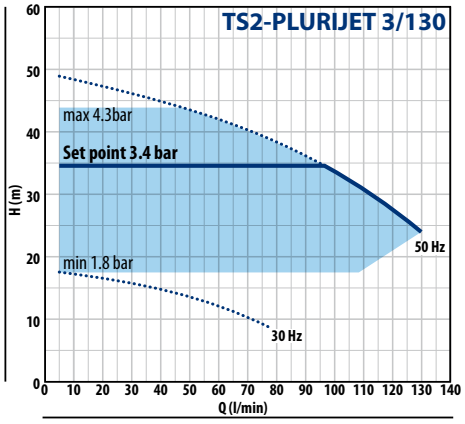


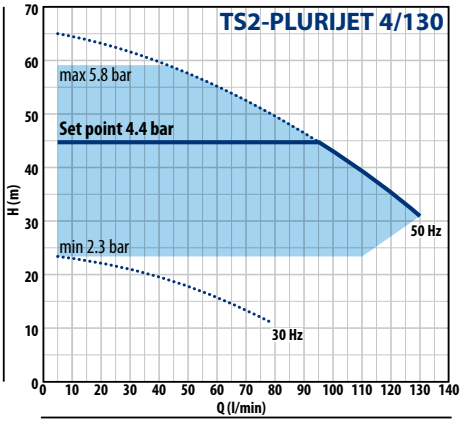
MODEL	POWER P2			ABSORPTION	MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
				230 V	Q	H	Min. Set Point		Set Point Stand. Setting		Max. Set Point	
Single-phase	kW	HP	▲		l/min	metres	bar	l/min	bar	l/min	bar	l/min
TS2-PLURIJET 5/90	1.1	1.5	IE3	11.5 **A**	5 – 90	78 – 38	2.80	5 – 75	**5.30**	5 – **65**	7.10	5 – 23
TS2-PLURIJET 6/90	1.5	2		13.5 **A**	5 – 90	94 – 45	3.40	5 – 75	**6.30**	5 – **65**	8.60	5 – 21
TS2-PLURIJET 3/130	1.1	1.5		12.5 **A**	5 – 130	49 – 24	1.80	5 – 110	**3.40**	5 – **92**	4.30	5 – 48
TS2-PLURIJET 4/130	1.5	2		14.5 **A**	5 – 130	65 – 31	2.30	5 – 110	**4.40**	5 – **92**	5.80	5 – 45
TS2-PLURIJET 5/130	1.8	2.5		18.5 **A**	5 – 130	81 – 39	2.90	5 – 110	**5.50**	5 – **92**	7.40	5 – 38
TS2-PLURIJET 6/130	2.2	3		20.0 **A**	5 – 130	97 – 45	3.50	5 – 110	**6.50**	5 – **92**	9.00	5 – 33
TS2-PLURIJET 3/200	1.1	1.5		10.0 **A**	5 – 200	43 – 13	1.60	5 – 185	**2.80**	5 – **133**	3.80	5 – 72
TS2-PLURIJET 4/200	1.5	2		16.0 **A**	5 – 200	57 – 17	2.10	5 – 185	**3.60**	5 – **133**	5.10	5 – 65
TS2-PLURIJET 5/200	1.8	2.5		16.0 **A**	5 – 200	72 – 22	2.60	5 – 185	**4.60**	5 – **133**	6.50	5 – 56
TS2-PLURIJET 6/200	2.2	3		22.0 **A**	5 – 200	86 – 26	3.10	5 – 185	**5.50**	5 – **133**	7.90	5 – 45

CHARACTERISTIC CURVES n= 2900 min⁻¹



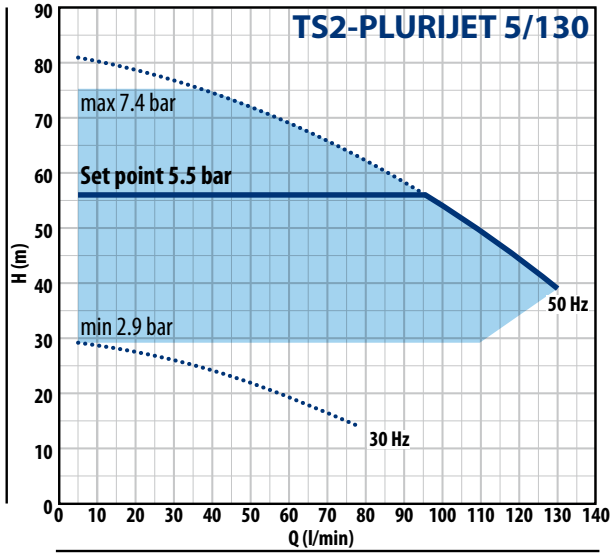


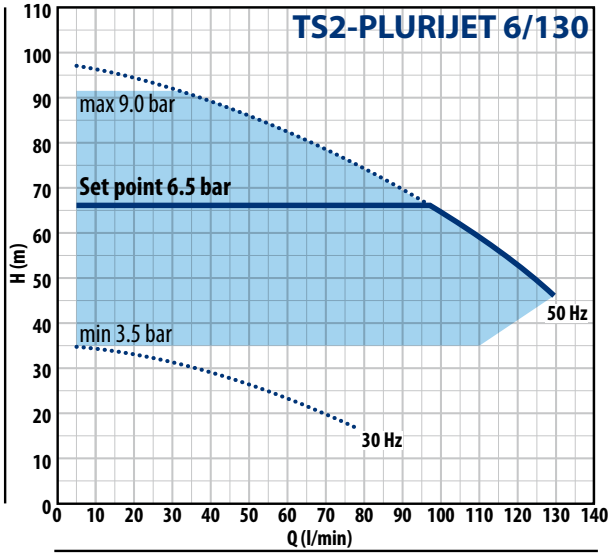


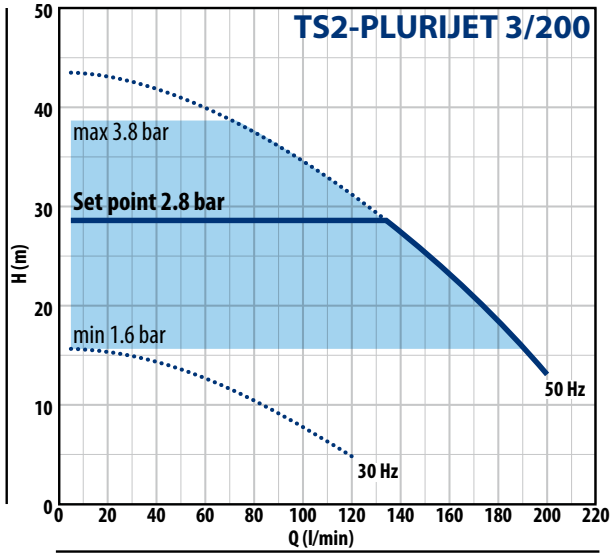


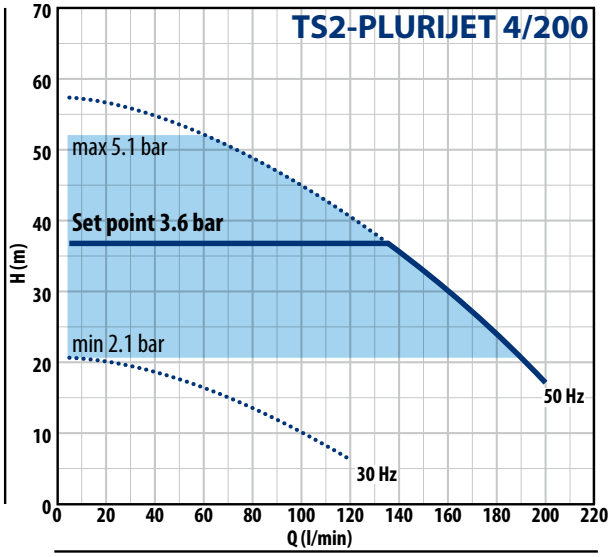
TISSEL-200 PLURIJET

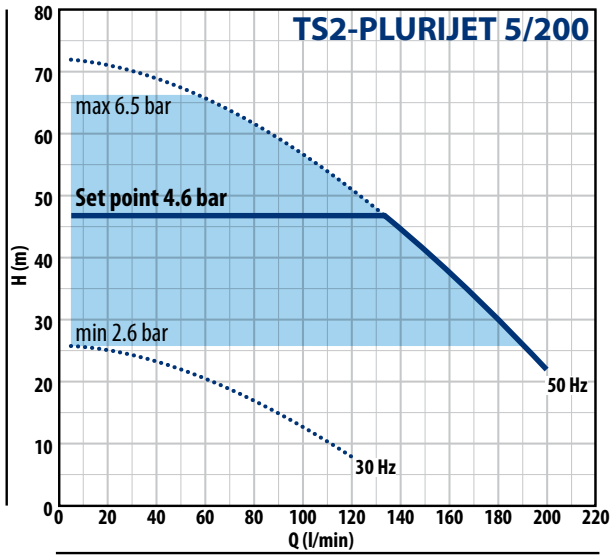
CHARACTERISTIC CURVES n= 2900 min^{-1}

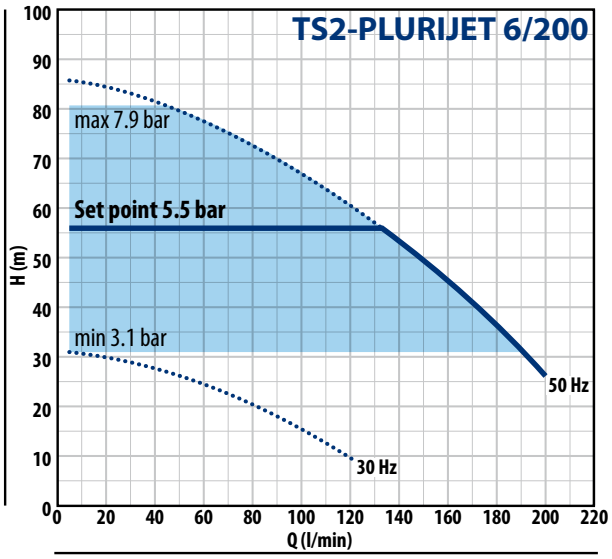




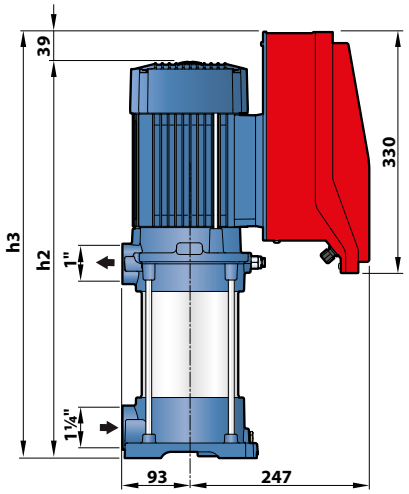


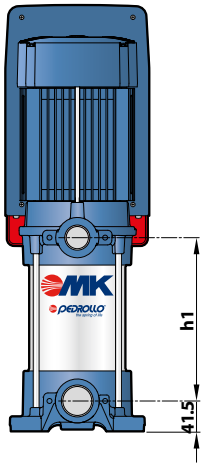


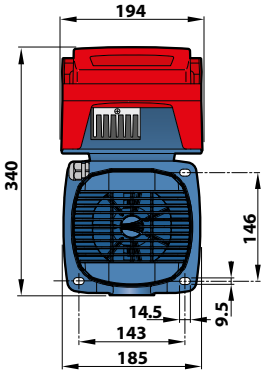




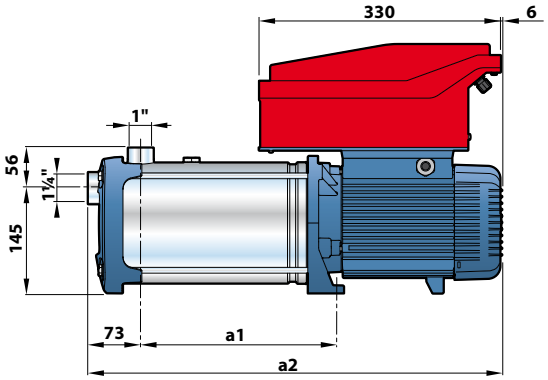
DIMENSIONS (mm)

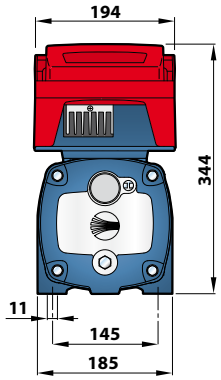






MODEL	h1	h2	h3	kg
TS2-MK 3/3	132.5	450	489	**26.7**
TS2-MK 3/4	159.5	477	516	**27.0**
TS2-MK 3/5	186.5	504	543	**28.6**
TS2-MK 3/6	213.5	531	570	**30.1**
TS2-MK 5/4	159.5	477	516	**26.9**
TS2-MK 5/5	186.5	504	543	**28.5**
TS2-MK 5/6	213.5	531	570	**30.3**
TS2-MK 5/7	240.5	558	597	**30.7**
TS2-MK 5/8	267.5	585	624	**30.9**
TS2-MK 8/4	159.5	477	516	**28.0**
TS2-MK 8/5	186.5	504	543	**29.6**
TS2-MK 8/6	213.5	531	570	**30.4**





MODEL	a1	a2	kg
TS2-FCR 90/5	193	497	**26.3**
TS2-FCR 90/6	219	523	**28.4**
TS2-FCR 90/7	245	569	**32.5**
TS2-FCR 130/3	141	445	**25.0**
TS2-FCR 130/4	167	471	**26.9**
TS2-FCR 130/5	193	517	**30.3**
TS2-FCR 130/6	219	543	**31.2**
TS2-FCR 200/3	141	445	**25.0**
TS2-FCR 200/4	167	471	**26.9**
TS2-FCR 200/5	193	517	**30.3**
TS2-FCR 200/6	219	543	**31.2**

MODEL	a1	a2	kg
TS2-PLURIJET 5/90	245	549	**27.0**
TS2-PLURIJET 6/90	271	575	**29.0**
TS2-PLURIJET 3/130	193	497	**25.1**
TS2-PLURIJET 4/130	219	523	**27.1**
TS2-PLURIJET 5/130	245	569	**30.7**
TS2-PLURIJET 6/130	271	595	**31.8**
TS2-PLURIJET 3/200	193	497	**25.1**
TS2-PLURIJET 4/200	219	523	**27.1**
TS2-PLURIJET 5/200	245	569	**30.7**
TS2-PLURIJET 6/200	271	595	**31.8**