



TISSEL 100 - 4CP 100

MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

TISSEL 100 - 4CP 100

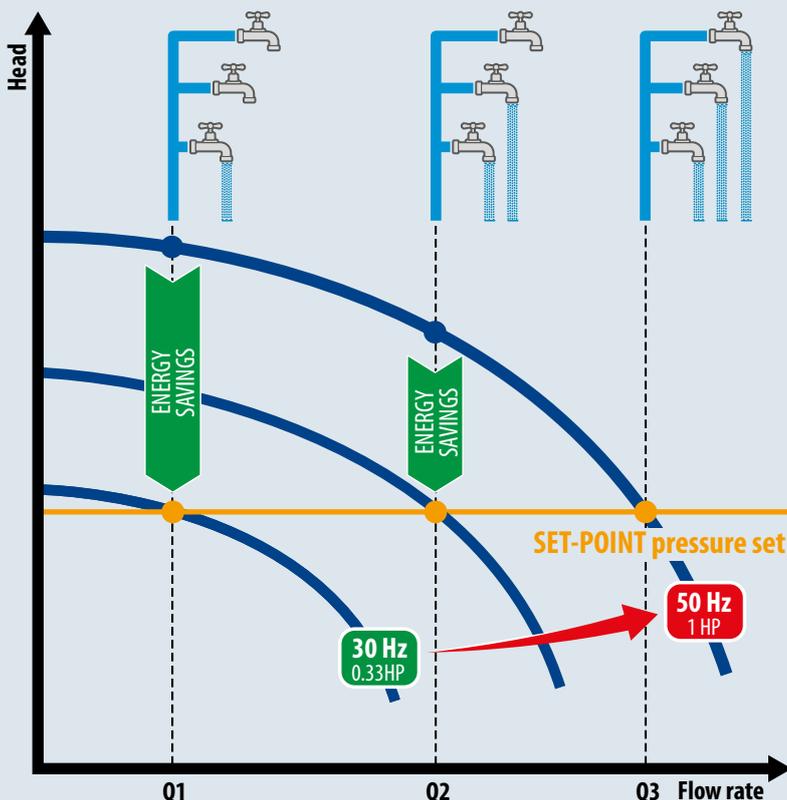
MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

- **TISSEL 100 - 4CP 100** are compact pumping units composed by a multistage centrifugal pump 4CP 100 with an integrated speed regulator (inverter) complete with a pressure sensing device built-in.
- Sturdy and very easy to use. They are the perfect solution to get a constant pressure in every tap of the system.
- The inverter is a water cooled type, and has an IP 65 protection grade. It receives a single-phase alternate voltage ($230\pm 10\%$ V - 50/60 Hz) and supplies a three-phase alternate output voltage which supplies the motor of the pump with an IE3 performance class.
- The wear of the water pump components is reduced due to the low speed of the motor during its duty life and it is progressively started and stopped.



ENERGY SAVINGS

A significant energy savings in terms of low flow rates. It is like running a lower power pump.



PROTECTIONS

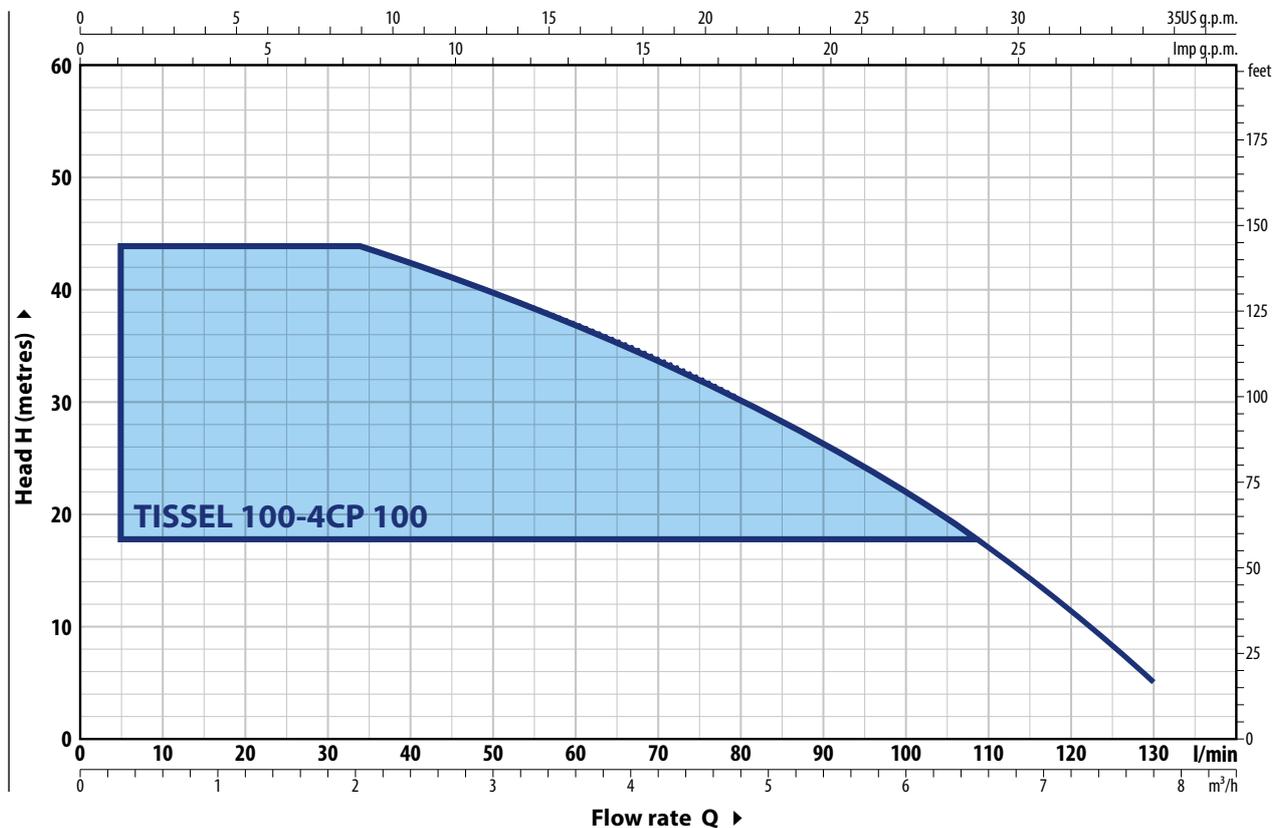
- Dry running protection.
Stops the pump after a few seconds and tries to resume at intervals of time in order to check whether the water is present or not in the system.
- Running with a pressure inferior than the minimum pressure set.
Stops the pump after a few seconds (for example, when a pipe is broken).
- Currents – Voltages - Temperatures.
Limits the currents; complete with an alarm for out-of-limit voltages; protects from over-temperature and short-circuit between the output phases.

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-0 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **6 bar**
- Continuous service **S1**



PERFORMANCE RANGE



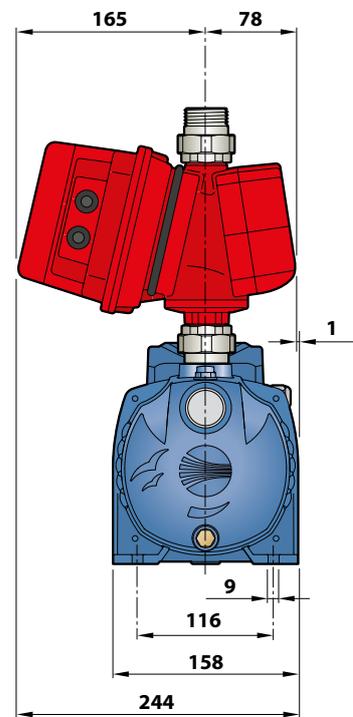
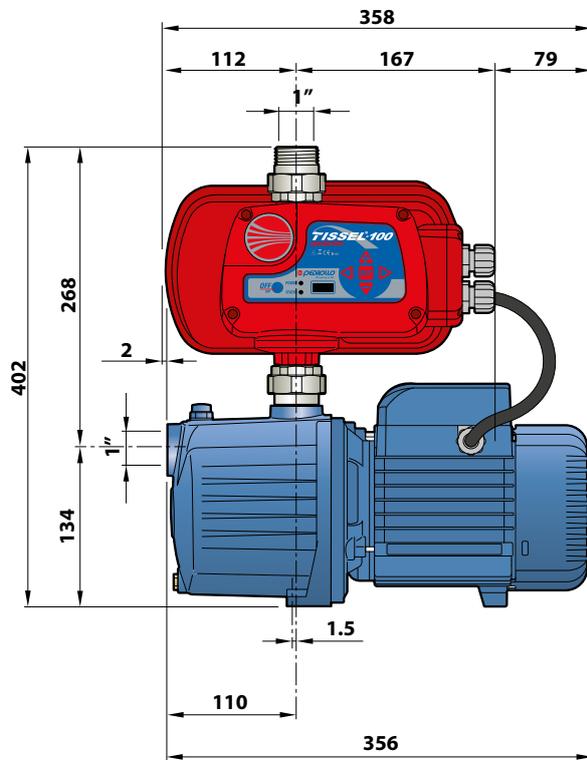
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2 kW	HP	▲	Q l/min	H metres	Min. Set Point		Set Point Stand. Setting		Max. Set Point	
Single-phase						bar	l/min	bar	l/min	bar	l/min
TS1-4CP 100	0.75	1	IE3	5 – 130	44 – 5	1.8	5 – 107	3.0	5 – 80	4.3	5 – 33

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three phase motor efficiency class (IEC 60034-30-1)

DIMENSIONS (mm)



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TISSEL 100 - 4CR 100

MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

TISSEL 100 - 4CR 100

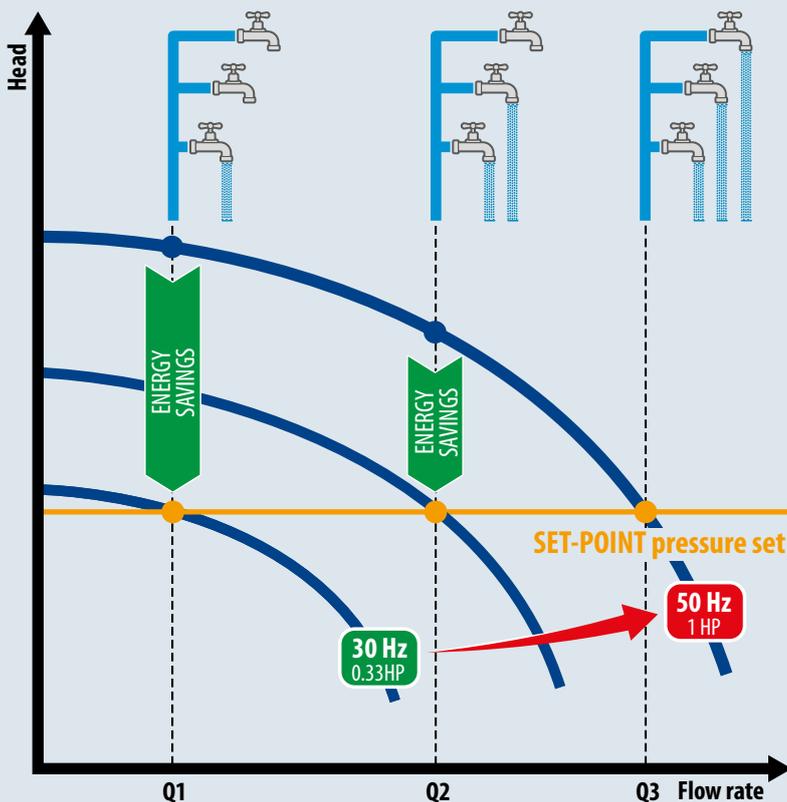
MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

- **TISSEL 100 - 4CR 100** are compact pumping units composed by a multistage centrifugal pump 4CR 100 with an integrated speed regulator (inverter) complete with a pressure sensing device built-in.
- Sturdy and very easy to use. They are the perfect solution to get a constant pressure in every tap of the system.
- The inverter is a water cooled type, and has an IP 65 protection grade. It receives a single-phase alternate voltage ($230\pm 10\%$ V - 50/60 Hz) and supplies a three-phase alternate output voltage which supplies the motor of the pump with an IE3 performance class.
- The wear of the water pump components is reduced due to the low speed of the motor during its duty life and it is progressively started and stopped.



ENERGY SAVINGS

A significant energy savings in terms of low flow rates. It is like running a lower power pump.



PROTECTIONS

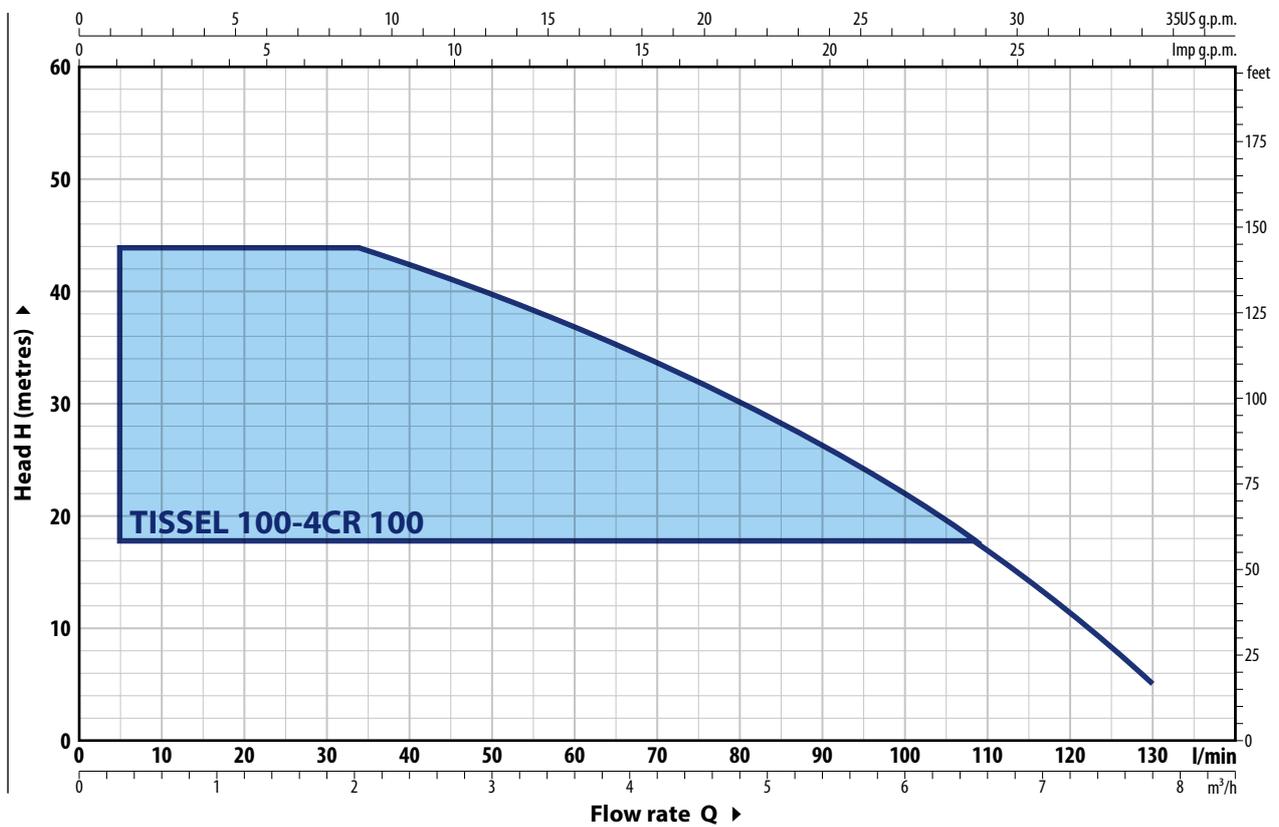
- Dry running protection.
Stops the pump after a few seconds and tries to resume at intervals of time in order to check whether the water is present or not in the system.
- Running with a pressure inferior than the minimum pressure set.
Stops the pump after a few seconds (for example, when a pipe is broken).
- Currents – Voltages - Temperatures.
Limits the currents; complete with an alarm for out-of-limit voltages; protects from over-temperature and short-circuit between the output phases.

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-0 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **7 bar**
- Continuous service **S1**



PERFORMANCE RANGE



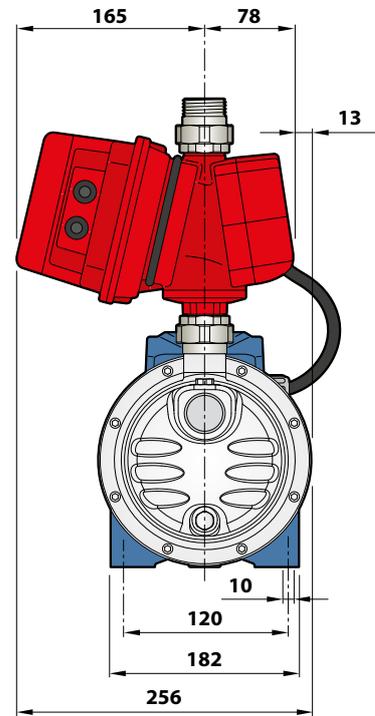
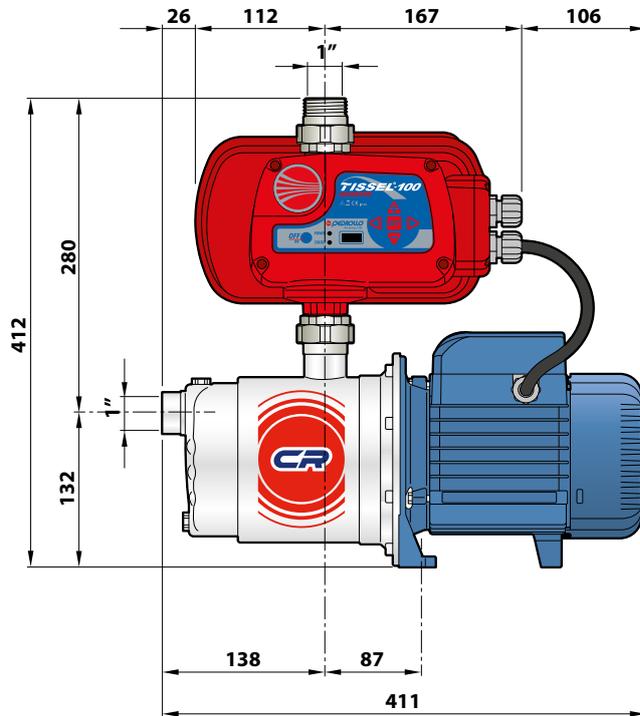
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2 kW	HP	▲	Q l/min	H metres	Min. Set Point bar	l/min	Set Point Stand. Setting		Max. Set Point	
Single-phase								bar	l/min	bar	l/min
TS1-4CR 100	0.75	1.1	IE3	5 – 130	44 – 5	1.8	5 – 107	3.0	5 – 80	4.3	5 – 33

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three phase motor efficiency class (IEC 60034-30-1)

DIMENSIONS (mm)



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TISSEL 100 - 5CR 100

MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

TISSSEL 100 - 5CR 100

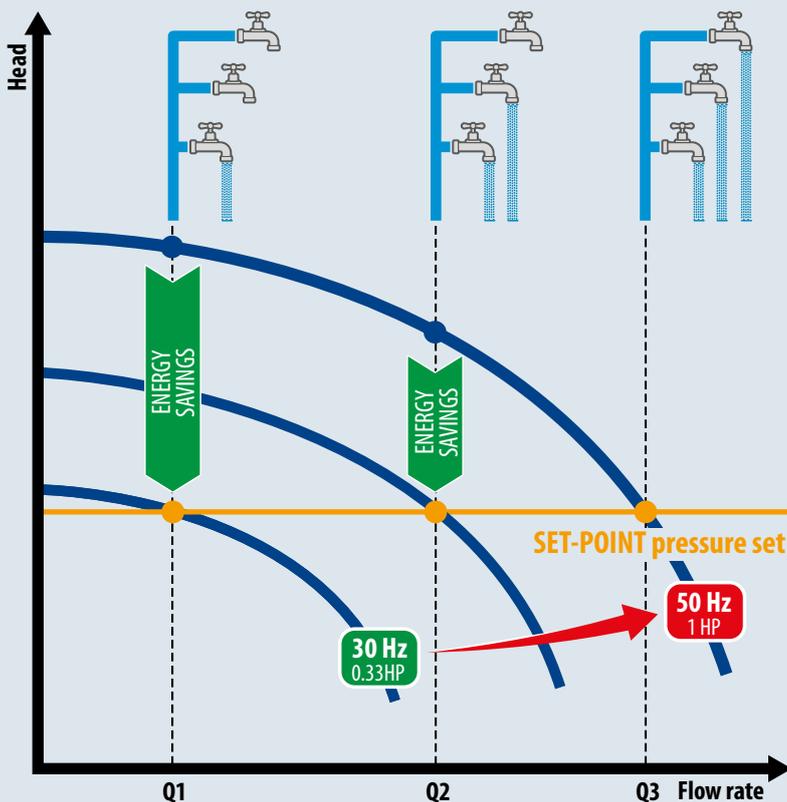
MULTI-STAGE CENTRIFUGAL PUMP WITH INVERTER

- **TISSSEL 100 - 5CR 100** are compact pumping units composed by a multistage centrifugal pump 5CR 100 with an integrated speed regulator (inverter) complete with a pressure sensing device built-in.
- Sturdy and very easy to use. They are the perfect solution to get a constant pressure in every tap of the system.
- The inverter is a water cooled type, and has an IP 65 protection grade. It receives a single-phase alternate voltage ($230\pm 10\%$ V - 50/60 Hz) and supplies a three-phase alternate output voltage which supplies the motor of the pump with an IE3 performance class.
- The wear of the water pump components is reduced due to the low speed of the motor during its duty life and it is progressively started and stopped.



ENERGY SAVINGS

A significant energy savings in terms of low flow rates. It is like running a lower power pump.



PROTECTIONS

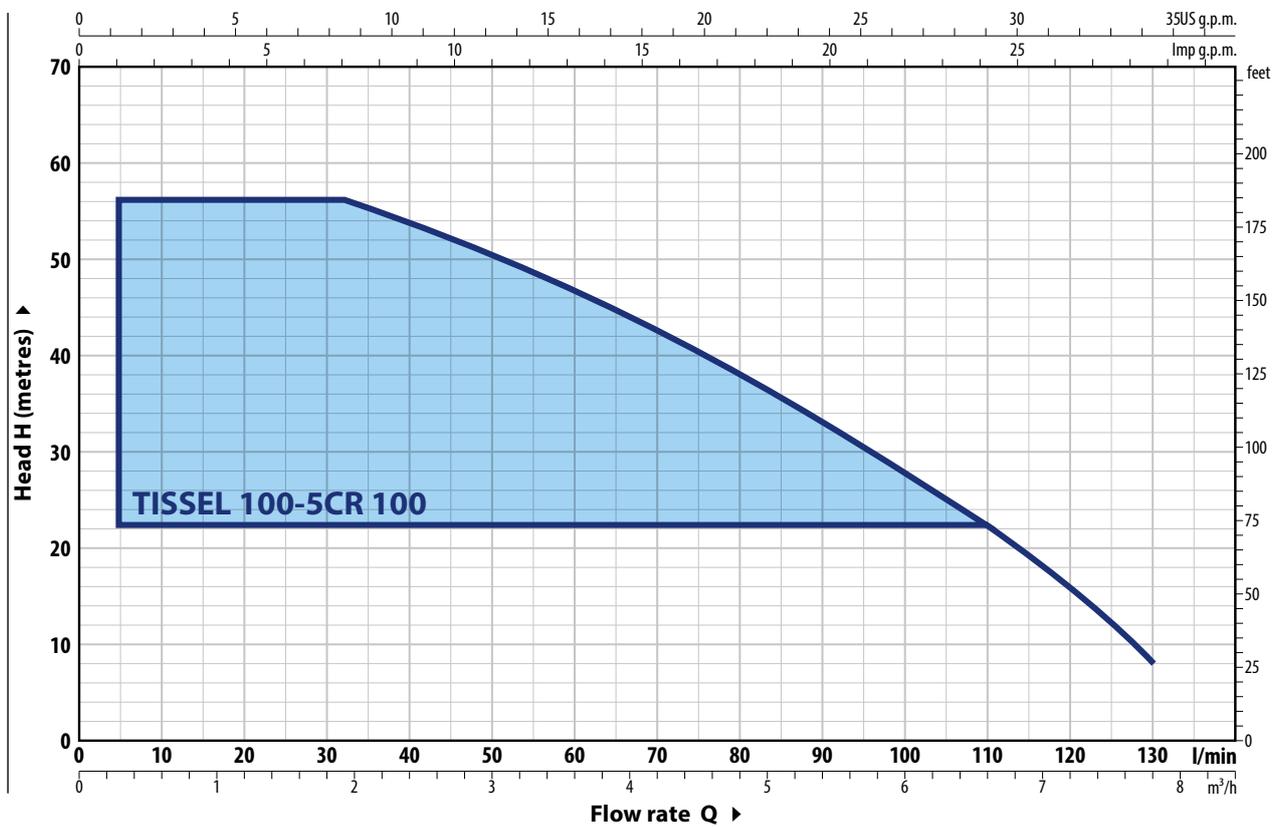
- Dry running protection.
Stops the pump after a few seconds and tries to resume at intervals of time in order to check whether the water is present or not in the system.
- Running with a pressure inferior than the minimum pressure set.
Stops the pump after a few seconds (for example, when a pipe is broken).
- Currents – Voltages - Temperatures.
Limits the currents; complete with an alarm for out-of-limit voltages; protects from over-temperature and short-circuit between the output phases.

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-0 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **7 bar**
- Continuous service **S1**



PERFORMANCE RANGE



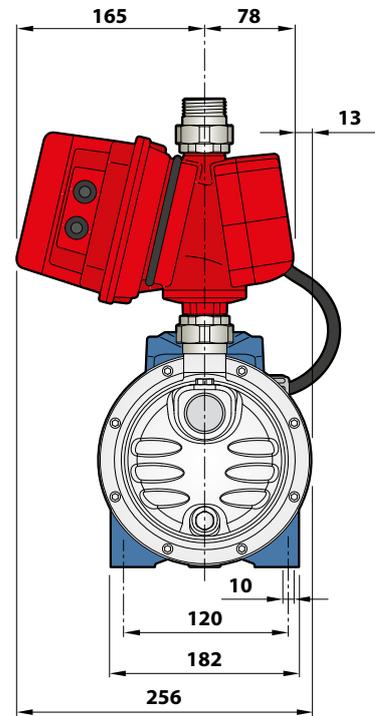
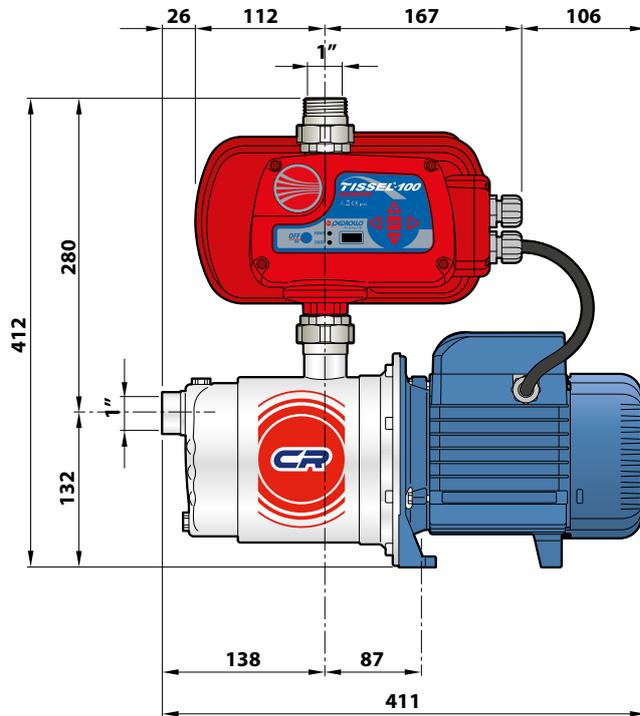
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2 kW	HP	▲	Q l/min	H metres	Min. Set Point bar	l/min	Set Point Stand. Setting		Max. Set Point	
Single-phase								bar	l/min	bar	l/min
TS1-5CR 100	1.1	1.5	IE3	5 – 130	56 – 8	2.2	5 – 107	3.7	5 – 80	5.5	5 – 33

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three phase motor efficiency class (IEC 60034-30-1)

DIMENSIONS (mm)



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TISSEL 100 - 2CP 25/130

CENTRIFUGAL TWIN-IMPELLER PUMP WITH INVERTER

TISSSEL 100 - 2CP 25/130

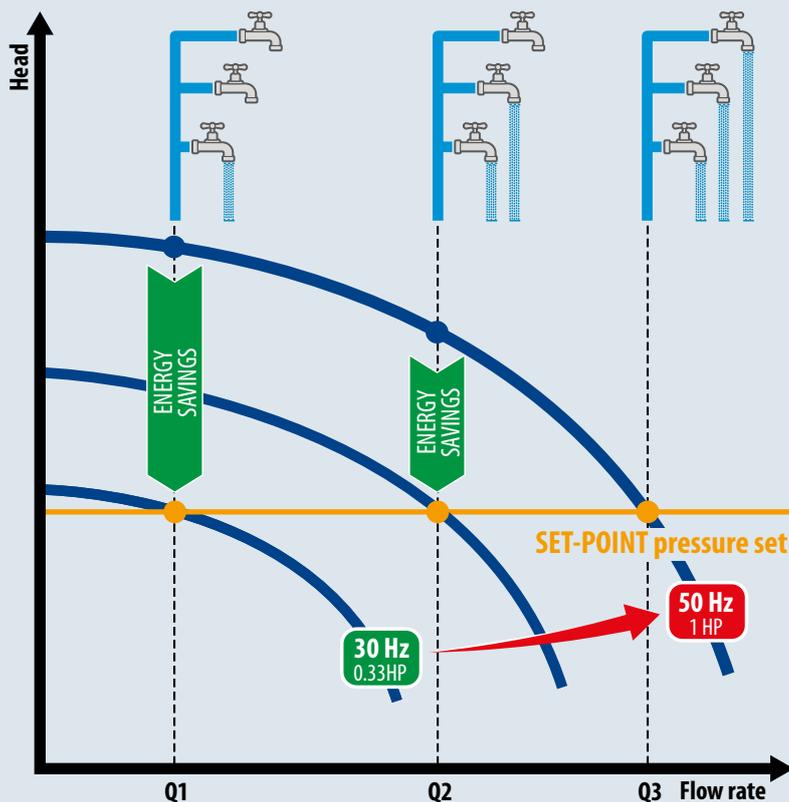
CENTRIFUGAL TWIN-IMPELLER PUMP WITH INVERTER

- **TISSSEL 100 - 2CP 25/130** are compact pumping units composed by a centrifugal twin-impeller pump 2CP 25/130 with an integrated speed regulator (inverter) complete with a pressure sensing device built-in.
- Sturdy and very easy to use. They are the perfect solution to get a constant pressure in every tap of the system.
- The inverter is a water cooled type, and has an IP 65 protection grade. It receives a single-phase alternate voltage ($230\pm 10\%$ V - 50/60 Hz) and supplies a three-phase alternate output voltage which supplies the motor of the pump with an IE3 performance class.
- The wear of the water pump components is reduced due to the low speed of the motor during its duty life and it is progressively started and stopped.



ENERGY SAVINGS

A significant energy savings in terms of low flow rates. It is like running a lower power pump.



PROTECTIONS

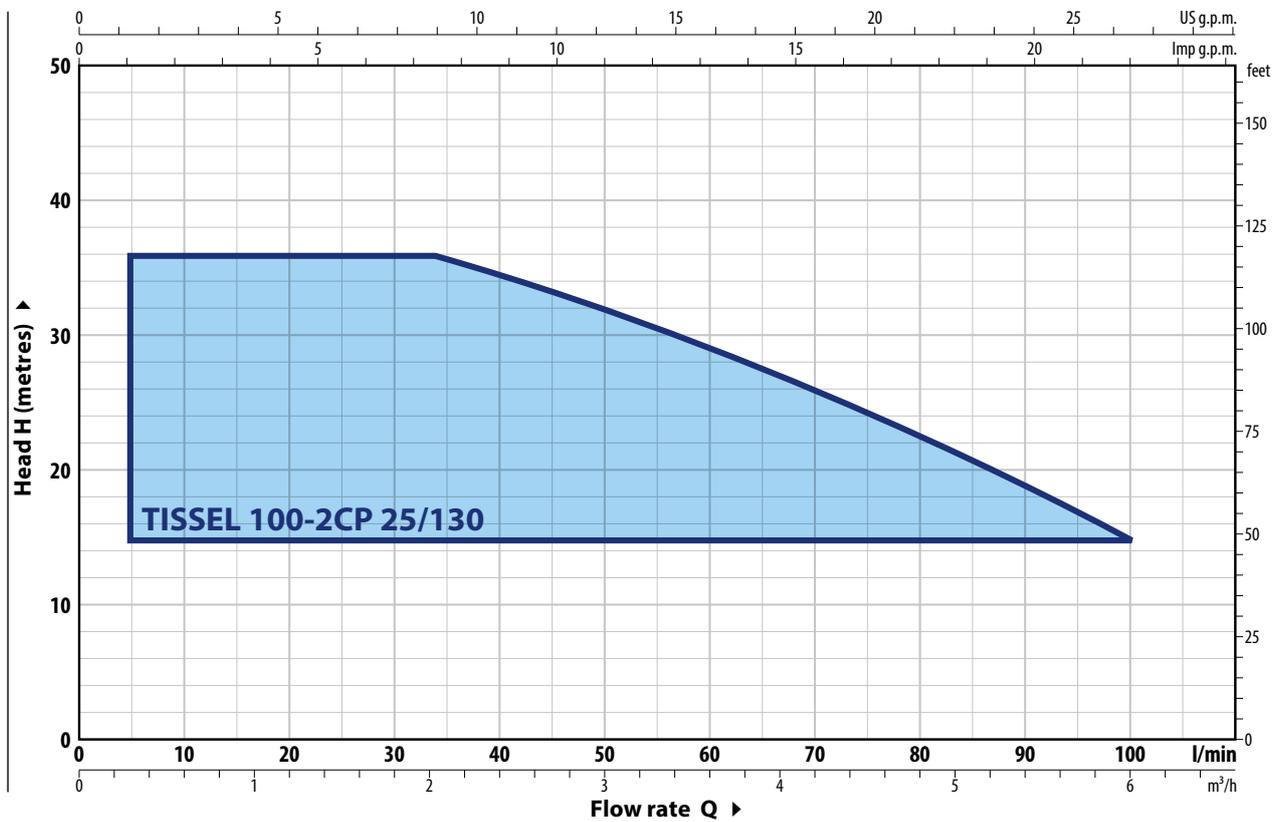
- Dry running protection.
Stops the pump after a few seconds and tries to resume at intervals of time in order to check whether the water is present or not in the system.
- Running with a pressure inferior than the minimum pressure set.
Stops the pump after a few seconds (for example, when a pipe is broken).
- Currents – Voltages - Temperatures.
Limits the currents; complete with an alarm for out-of-limit voltages; protects from over-temperature and short-circuit between the output phases.

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-0 °C** and **+55 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **6 bar**
- Continuous service **S1**



PERFORMANCE RANGE



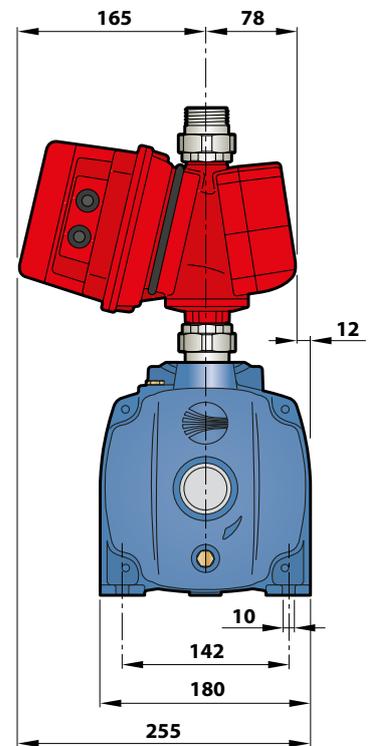
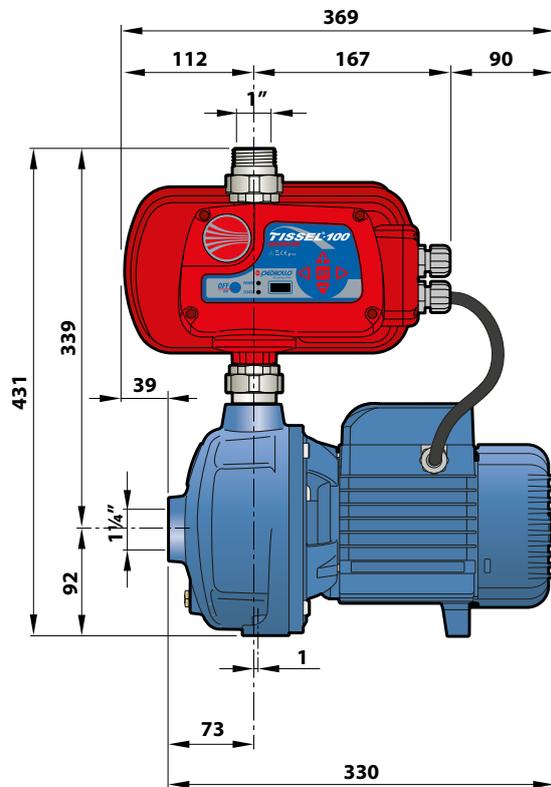
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2 kW	HP	▲	Q l/min	H metres	Min. Set Point bar	l/min	Set Point Stand. Setting		Max. Set Point	
Single-phase								bar	l/min	bar	l/min
TS1-2CP 25/130	0.75	1	IE3	20 – 100	36 – 15	1.5	5 – 100	2.5	5 – 67	3.5	5 – 34

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three phase motor efficiency class (IEC 60034-30-1)

DIMENSIONS (mm)



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TISSEL 100 - 2CP

CENTRIFUGAL TWIN-IMPELLER PUMPS WITH INVERTER

TISSSEL 100 - 2CP

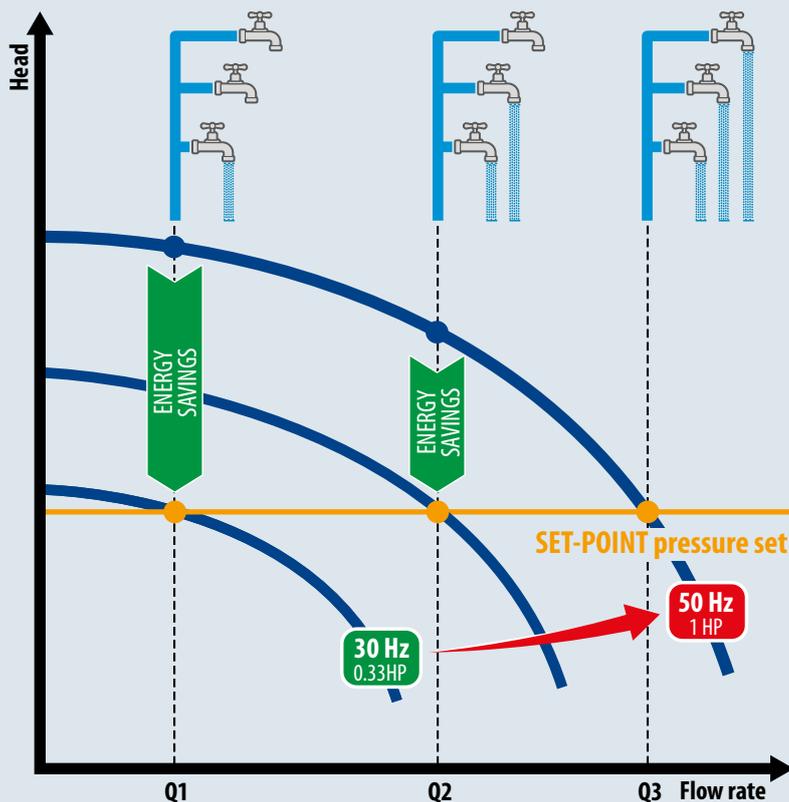
CENTRIFUGAL TWIN-IMPELLER PUMPS WITH INVERTER

- **TISSSEL 100 - 2CP** are compact pumping units composed by a centrifugal twin-impeller pump 2CP with an integrated speed regulator (inverter) complete with a pressure sensing device built-in.
- Sturdy and very easy to use. They are the perfect solution to get a constant pressure in every tap of the system.
- The inverter is a water cooled type, and has an IP 65 protection grade. It receives a single-phase alternate voltage ($230\pm 10\%$ V - 50/60 Hz) and supplies a three-phase alternate output voltage which supplies the motor of the pump with an IE3 performance class.
- The wear of the water pump components is reduced due to the low speed of the motor during its duty life and it is progressively started and stopped.



ENERGY SAVINGS

A significant energy savings in terms of low flow rates. It is like running a lower power pump.



PROTECTIONS

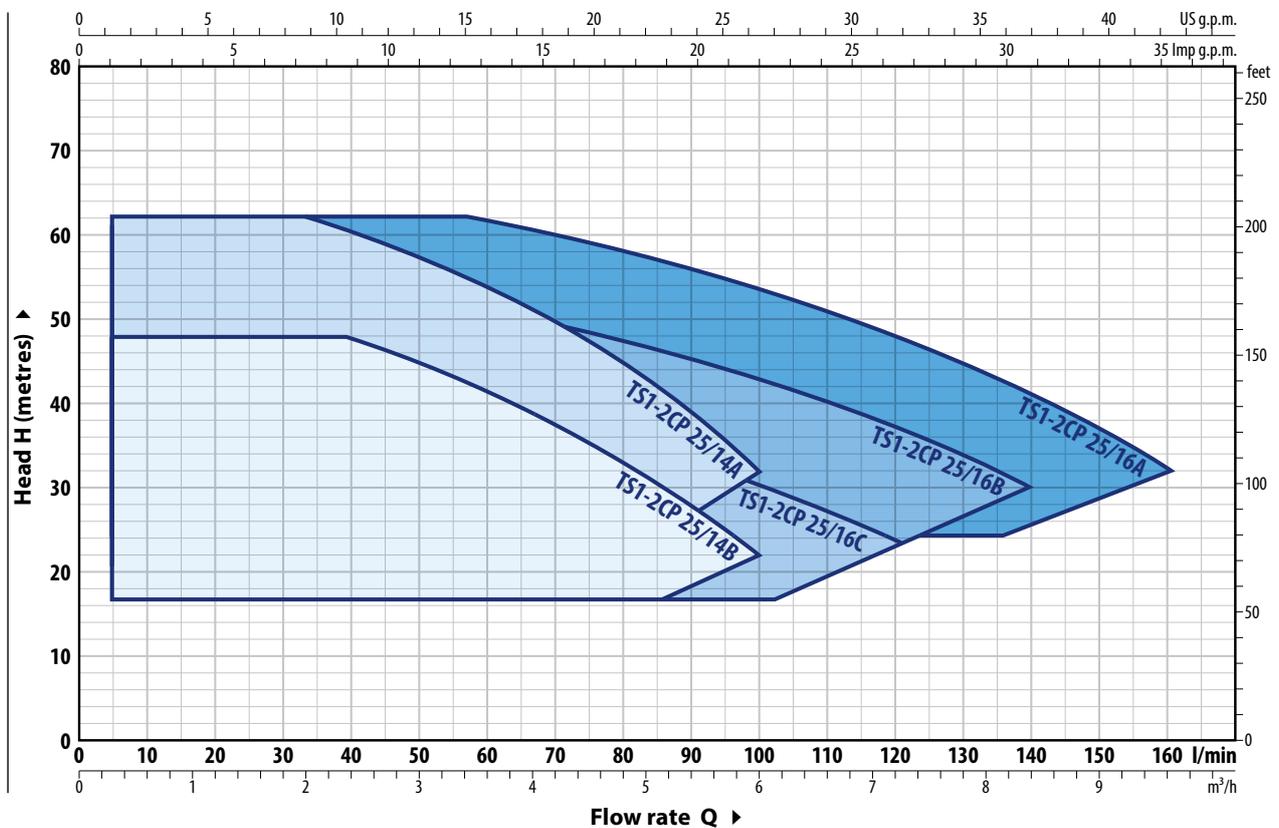
- Dry running protection.
Stops the pump after a few seconds and tries to resume at intervals of time in order to check whether the water is present or not in the system.
- Running with a pressure inferior than the minimum pressure set.
Stops the pump after a few seconds (for example, when a pipe is broken).
- Currents – Voltages - Temperatures.
Limits the currents; complete with an alarm for out-of-limit voltages; protects from over-temperature and short-circuit between the output phases.

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-0 °C** and **+55 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **9 bar**
- Continuous service **S1**



PERFORMANCE RANGE



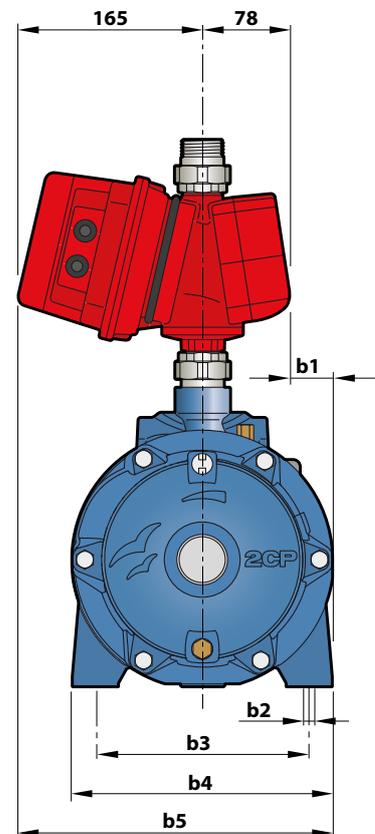
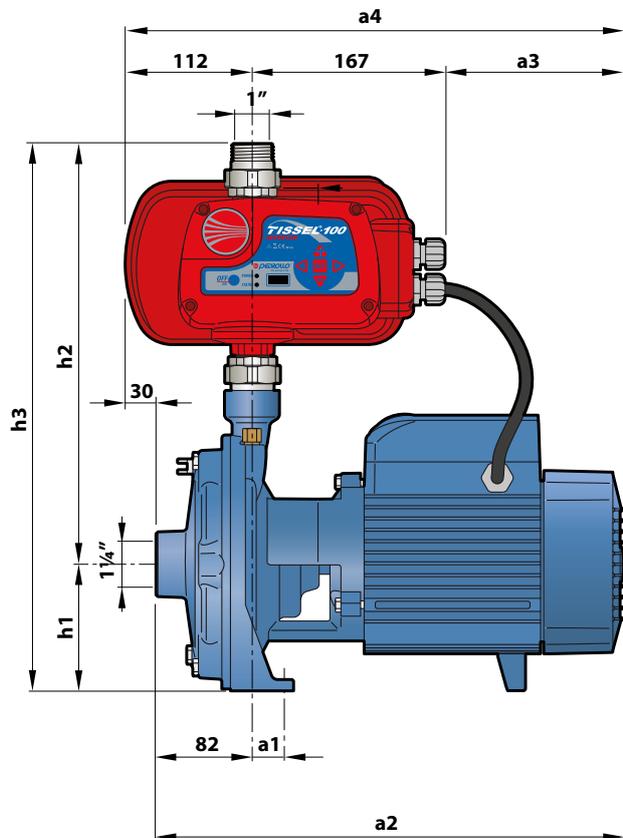
MODEL	POWER			MAX PERFORMANCES		PERFORMANCES (ADJUSTABLE SET POINT)					
	P2		▲	Q	H	Min. Set Point	Set Point Stand. Setting	Max. Set Point			
Single-phase	kW	HP		l/min	metres	bar	l/min	bar	l/min	bar	l/min
TS1-2CP 25/14B	1.1	1.5	IE3	5 – 100	48 – 22	1.90	5 – 92	3.60	5 – 70	4.70	5 – 35
TS1-2CP 25/14A	1.5	2		5 – 100	61 – 32	2.40	5 – 85	4.80	5 – 70	6.00	5 – 35
TS1-2CP 25/16C	1.1	1.5		5 – 120	41 – 24	1.70	5 – 100	3.20	5 – 85	4.00	5 – 52
TS1-2CP 25/16B	1.5	2		5 – 140	52 – 30	2.00	5 – 110	4.10	5 – 100	5.10	5 – 52
TS1-2CP 25/16A	2.2	3		5 – 160	62 – 32	2.40	5 – 135	4.80	5 – 115	6.10	5 – 52

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three phase motor efficiency class (IEC 60034-30-1)

DIMENSIONS (mm)



MODEL	a1	a2	a3	a4	b1	b2	b3	b4	b5	h1	h2	h3
TS1-2CP 25/14B	17	404	155	434	22	10	162	200	265	93	360	453
TS1-2CP 25/14A	26	404	155	434	34	11	185	225	278	110	381	491
TS1-2CP 25/16C	17	404	155	434	22	10	162	200	265	93	360	453
TS1-2CP 25/16B	26	404	155	434	34	11	185	225	278	110	381	491
TS1-2CP 25/16A	26	424	175	454	34	11	185	225	278	110	381	491

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