

Series description Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5



Design

Glandless circulation pump with threaded connection.
EC motor with automatic power adjustment.
Standard delivery with cable for an easy electrical connection

Application

Hot-water heating systems of all kinds, closed cooling circuits, industrial circulation systems, circulation in solar thermal and geothermal systems.

Type key

Example:	Wilo-Stratos PARA 25/1-5 T1
Stratos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
25/	Nominal connection diameter
1-5	Nominal delivery head range [m]
T1	Type key for combinations of function and equipment
12 h	Position of electronic module, special version
(not specified)	Position of electronic module 6h, standard version

Special features/product benefits

- Energy efficiency class A
- Maximum efficiency thanks to ECM technology
- Up to 80% electricity savings compared to uncontrolled circulation pumps
- High starting torque for reliable starting
- For all heating and cooling systems in the temperature range of -10 °C to +95 °C
- Prevention of flow noise
- Safety and comfort during installation and operation
- Functions and space-saving design were specially adapted to the requirements of the OEM market. Optimum output even in narrow installation situations.
- Standard delivery with cable for an easy electrical connection
- Convenient setting of the pump via external control signals or the Red Button technology
- Cast iron pump housing with cataphoretic (KTL) coating for the prevention of corrosion from condensation formation

Options

- External control via 0-10V or PWM
- Control mode Δp -c (constant), Δp -v (variable)
- Control mode selection and differential pressure setpoint for Δp -c, Δp -v via operating button
- Special version without operating button
- All possible combinations of functions and equipment are available
- Version with cable according to customer specification
- Version with short overall length of 130 mm
- Delivery in collective packaging (196 pumps/package)
- Delivery with thermal insulation
- Cold insulation shell ClimaForm as accessories

Heating and cooling

High-efficiency pumps

Technical data Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

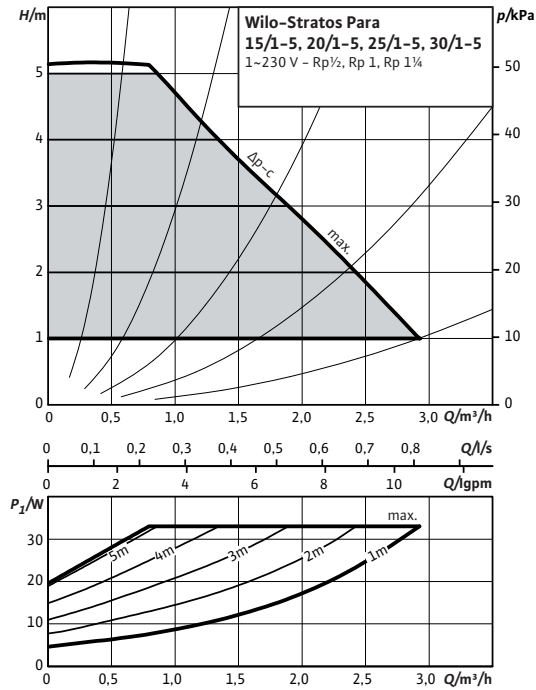
	Wilo-Stratos PARA...					
	15/1-5-130	20/1-5-130	25/1-5-130	25/1-5	30/1-5-130	30/1-5
Approved fluids (other fluids on request)						
Heating water (in accordance with VDI 2035)	•	•	•	•	•	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	•	•	•	•	•	•
Potable water and water for food-processing companies in accordance with TrinkwV 2001 (drinking water ordinance)	-	-	-	-	-	-
Power						
Max. delivery head	5 m	5 m	5 m	5 m	5 m	5 m
Max. volume flow	3.2 m ³ /h	3.2 m ³ /h	3.2 m ³ /h	3.2 m ³ /h	3.2 m ³ /h	3.2 m ³ /h
Speed	1200 – 3900 rpm					
Permitted field of application						
Temperature range for applications in HVAC systems	at max. ambient temperature of 25°C = -10 to 95°C at max. ambient temperature of 40°C = -10 to 95°C at max. ambient temperature of 45°C = -10 to 95°C at max. ambient temperature of 50°C = -10 to 90°C at max. ambient temperature of 55°C = -10 to 80°C at max. ambient temperature of 60°C = -10 to 70°C at max. ambient temperature of 65°C = -10 to 60°C					
Temperature range for applications in secondary hot water circulation systems	-					
Maximum static pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Special version for operating pressure	-	-	-	-	-	-
Pipe connections						
Screwed connection	Rp ½	Rp ¾	Rp 1	Rp 1	Rp 1¼	Rp 1¼
Thread	G 1	G 1¼	G 1½	G 1½	G 2	G 2
Electrical connection						
Mains connection 1~, standard version	230 V	230 V	230 V	230 V	230 V	230 V
Mains frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Motor/electronics						
Electromagnetic compatibility	EN 61800-3					
Emitted interference	EN 61000-6-3					
Interference resistance	EN 61000-6-2					
Power electronics	Frequency converter					
Protection class	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Insulation class	F	F	F	F	F	F
Materials						
Pump housing	Grey cast iron (EN-GJL-200)					
Impeller	Plastic (PPE), trade name: Noryl					
Pump shaft	Stainless steel (X46Cr13)					
Bearing	Carbon, metal impregnated					
Minimum suction head at suction port [m] for preventing cavitation at water pumping temperature						
Minimum suction head at 50°C	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m
Minimum suction head at 95°C	10.0 m	10.0 m	10.0 m	10.0 m	10.0 m	10.0 m
Minimum suction head at 110°C	-	-	-	-	-	-

• = available, - = not available

Pump curves Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

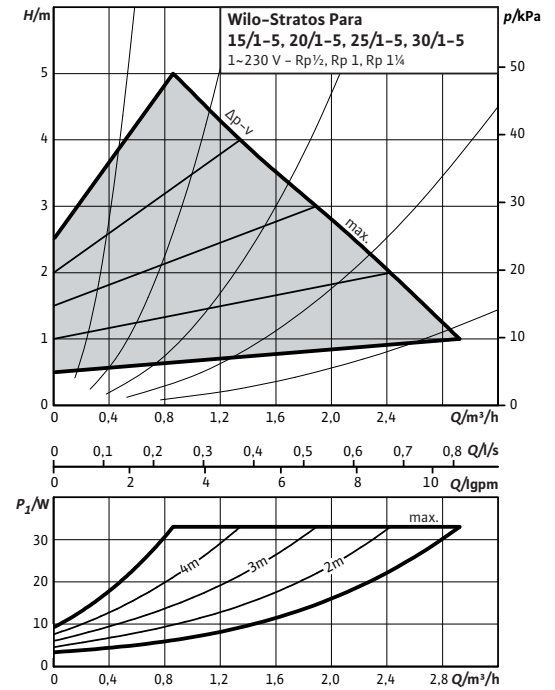
Δp-c (constant)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

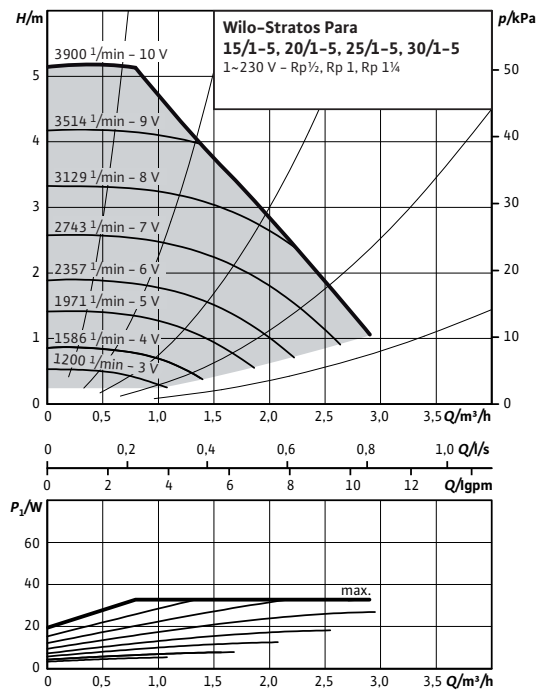
Δp-v (variable)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

Manual control mode



Tolerances of each curve according to EN 1151-1:2006

Heating and cooling

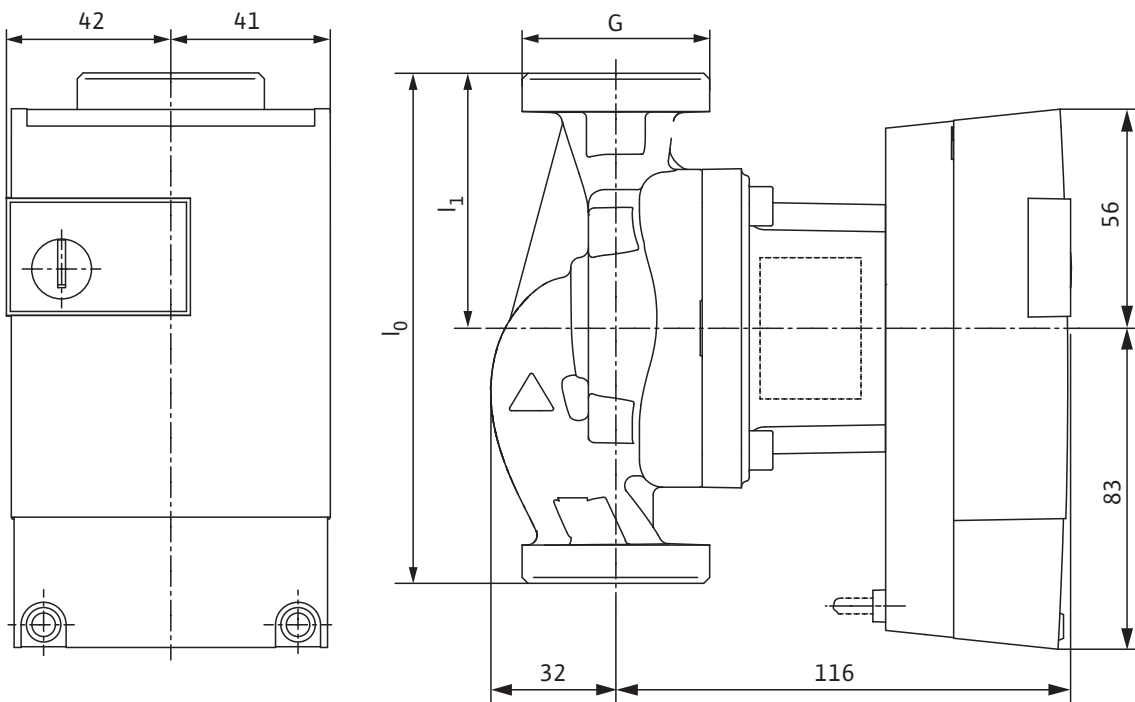
High-efficiency pumps

Dimensions, motor data Wilo-Stratos PARA 15/1-5, 20/1-5, 25/1-5, 30/1-5

Motor data

Wilo-Stratos PARA...	Nominal motor power	Speed	Power consumption 1~230 V	Current at 1~230V	Motor protection
	P_2	n	P_1	I	–
	W	rpm	W	A	–
15/1-5-130	30	1200 - 3900	5-33	0.06 - 0.29	integrated
20/1-5-130	30	1200 - 3900	5-33	0.06 - 0.29	integrated
25/1-5	30	1200 - 3900	5-33	0.06 - 0.29	integrated
25/1-5-130	30	1200 - 3900	5-33	0.06 - 0.29	integrated
30/1-5	30	1200 - 3900	5-33	0.06 - 0.29	integrated
30/1-5-130	30	1200 - 3900	5-33	0.06 - 0.29	integrated

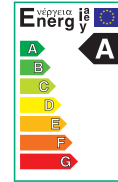
Dimension drawing



Dimensions, weights

Wilo-Stratos PARA...	Screwed connection	Thread	Overall length	Dimensions	Weight approx.
			l_0	l_1	M
			mm		kg
15/1-5-130	Rp 1/2	G 1	130	65	2.2
20/1-5-130	Rp 3/4	G 1 1/4	130	65	2.2
25/1-5	Rp 1	G 1 1/2	180	90	2.5
25/1-5-130	Rp 1	G 1 1/2	130	65	2.2
30/1-5	Rp 1 1/4	G 2	180	90	2.5
30/1-5-130	Rp 1 1/4	G 2	130	65	2.5

Series description Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7



Design

Glandless circulation pump with threaded connection.
EC motor with automatic power adjustment.
Standard delivery with cable for an easy electrical connection

Application

Hot-water heating systems of all kinds, closed cooling circuits, industrial circulation systems, circulation in solar thermal and geothermal systems.

Type key

Example:	Wilo-Stratos PARA 25/1-7 T1
Stratos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
25/	Nominal connection diameter
1-7	Nominal delivery head range [m]
T1	Type key for combinations of function and equipment
12 h	Position of electronic module, special version
(not specified)	Position of electronic module 6h, standard version

Special features/product benefits

- Energy efficiency class A
- Maximum efficiency thanks to ECM technology
- Up to 80% electricity savings compared to uncontrolled circulation pumps
- High starting torque for reliable starting
- For all heating and cooling systems in the temperature range of -10 °C to +95 °C
- Prevention of flow noise
- Safety and comfort during installation and operation
- Functions and space-saving design were specially adapted to the requirements of the OEM market. Optimum output even in narrow installation situations.
- Standard delivery with cable for an easy electrical connection
- Convenient setting of the pump via external control signals or the Red Button technology
- Cast iron pump housing with cataphoretic (KTL) coating for the prevention of corrosion from condensation formation

Options

- External control via 0-10V or PWM
- Control mode Δp -c (constant), Δp -v (variable)
- Control mode selection and differential pressure setpoint for Δp -c, Δp -v via operating button
- Special version without operating button
- All possible combinations of functions and equipment are available
- Version with cable according to customer specification
- Version with short overall length of 130 mm
- Delivery in collective packaging (196 pumps/package)
- Delivery with thermal insulation
- Cold insulation shell ClimaForm as accessories

Heating and cooling

High-efficiency pumps

Technical data Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

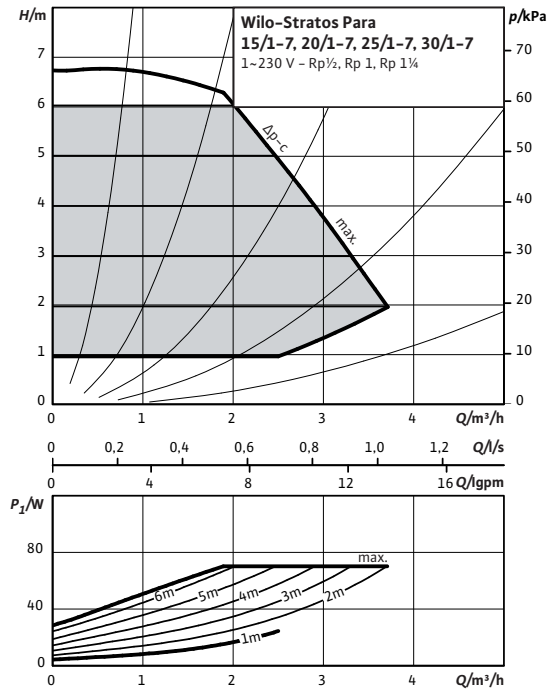
	Wilo-Stratos PARA...					
	15/1-7-130	20/1-7-130	25/1-7-130	25/1-7	30/1-7-130	30/1-7
Approved fluids (other fluids on request)						
Heating water (in accordance with VDI 2035)	•	•	•	•	•	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	•	•	•	•	•	•
Potable water and water for food-processing companies in accordance with TrinkwV 2001 (drinking water ordinance)	-	-	-	-	-	-
Power						
Max. delivery head	7 m	7 m	7 m	7 m	7 m	7 m
Max. volume flow	4.5 m ³ /h	4.5 m ³ /h	4.5 m ³ /h	4.5 m ³ /h	4.5 m ³ /h	4.5 m ³ /h
Speed	1200 - 4450 rpm					
Permitted field of application						
Temperature range for applications in HVAC systems	at max. ambient temperature of 25°C = -10 to 95°C at max. ambient temperature of 40°C = -10 to 95°C at max. ambient temperature of 45°C = -10 to 95°C at max. ambient temperature of 50°C = -10 to 90°C at max. ambient temperature of 55°C = -10 to 80°C at max. ambient temperature of 60°C = -10 to 70°C at max. ambient temperature of 65°C = -10 to 60°C					
Temperature range for applications in secondary hot water circulation systems	-					
Maximum static pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Special version for operating pressure	-	-	-	-	-	-
Pipe connections						
Screwed connection	Rp ½	Rp ¾	Rp 1	Rp 1	Rp 1¼	Rp 1¼
Thread	G 1	G 1¼	G 1½	G 1½	G 2	G 2
Electrical connection						
Mains connection 1~, standard version	230 V	230 V	230 V	230 V	230 V	230 V
Mains frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Motor/electronics						
Electromagnetic compatibility	EN 61800-3					
Emitted interference	EN 61000-6-3					
Interference resistance	EN 61000-6-2					
Power electronics	Frequency converter					
Protection class	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Insulation class	F	F	F	F	F	F
Materials						
Pump housing	Grey cast iron (EN-GJL-200)					
Impeller	Plastic (PPE), trade name: Noryl					
Pump shaft	Stainless steel (X46Cr13)					
Bearing	Carbon, metal impregnated					
Minimum suction head at suction port [m] for preventing cavitation at water pumping temperature						
Minimum suction head at 50°C	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m	3.0 m
Minimum suction head at 95°C	10.0 m	10.0 m	10.0 m	10.0 m	10.0 m	10.0 m
Minimum suction head at 110°C	-	-	-	-	-	-

• = available, - = not available

Pump curves Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

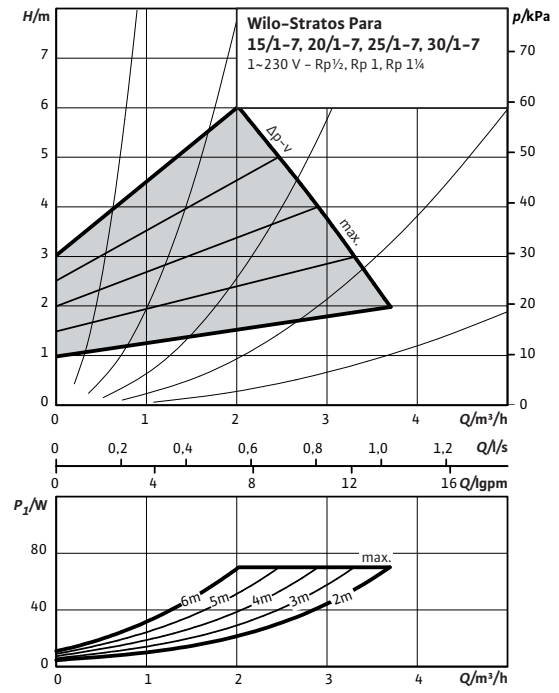
Δp-c (constant)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

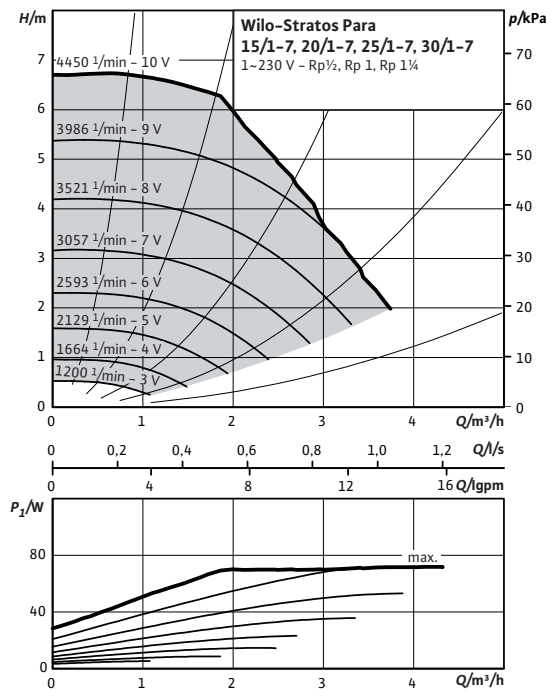
Δp-v (variable)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

Manual control mode



Tolerances of each curve according to EN 1151-1:2006

Heating and cooling

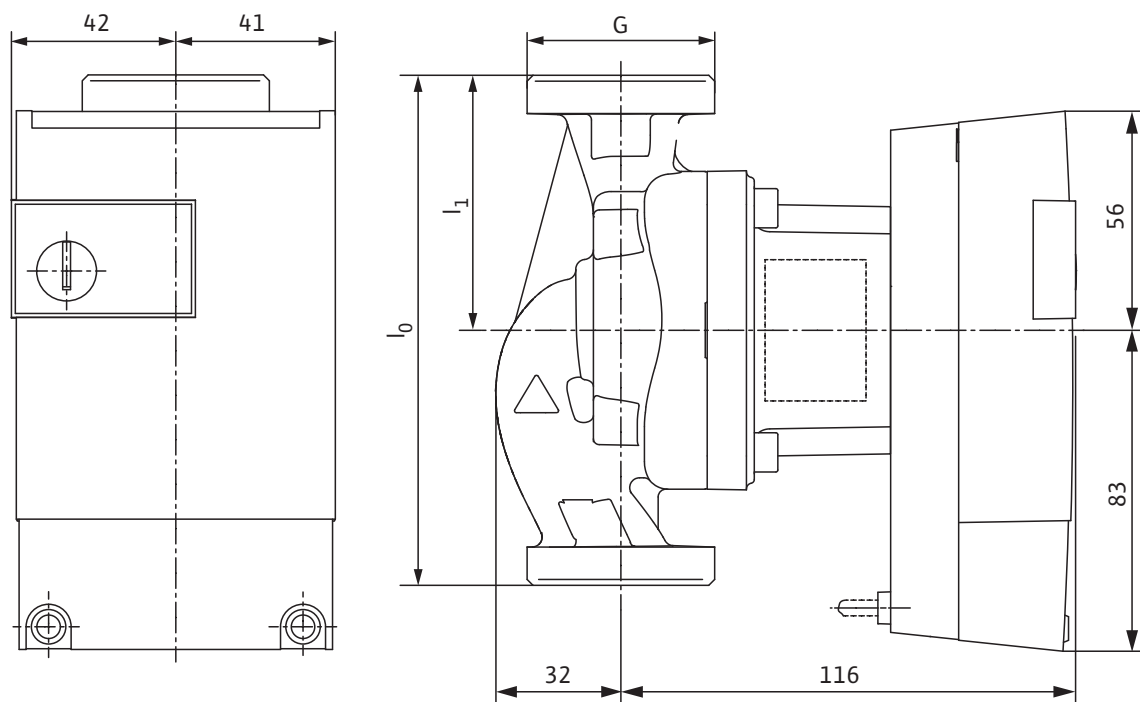
High-efficiency pumps

Dimensions, motor data Wilo-Stratos PARA 15/1-7, 20/1-7, 25/1-7, 30/1-7

Motor data

Wilo-Stratos PARA...	Nominal motor power	Speed	Power consumption 1~230 V	Current at 1~230V	Motor protection
	P_2	n	P_1	I	–
	W	rpm	W	A	–
15/1-7-130	50	1200 - 4450	5-70	0.06 - 0.58	integrated
20/1-7-130	50	1200 - 4450	5-70	0.06 - 0.58	integrated
25/1-7	50	1200 - 4450	5-70	0.06 - 0.58	integrated
25/1-7-130	50	1200 - 4450	5-70	0.06 - 0.58	integrated
30/1-7	50	1200 - 4450	5-70	0.06 - 0.58	integrated
30/1-7-130	50	1200 - 4450	5-70	0.06 - 0.58	integrated

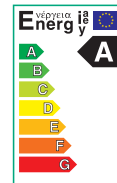
Dimension drawing



Dimensions, weights

Wilo-Stratos PARA...	Screwed connection	Thread	Overall length	Dimensions	Weight approx.
			l_0	l_1	M
			mm		kg
15/1-7-130	Rp 1/2	G 1	130	65	2.2
20/1-7-130	Rp 3/4	G 1 1/4	130	65	2.2
25/1-7	Rp 1	G 1 1/2	180	90	2.5
25/1-7-130	Rp 1	G 1 1/2	130	65	2.2
30/1-7	Rp 1 1/4	G 2	180	90	2.5
30/1-7-130	Rp 1 1/4	G 2	130	65	2.5

Series description Wilo-Stratos PARA 25/1-8, 30/1-8



Design

Glandless circulation pump with threaded connection.
EC motor with automatic power adjustment.
Standard delivery with cable for an easy electrical connection

Application

Hot-water heating systems of all kinds, closed cooling circuits, industrial circulation systems, circulation in solar thermal and geothermal systems.

Type key

Example:	Wilo-Stratos PARA 25/1-8 T1
Stratos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
25/	Nominal connection diameter
1-8	Nominal delivery head range [m]
T1	Type key for combinations of function and equipment
12 h	Position of electronic module, special version
(not specified)	Position of electronic module 6h, standard version

Special features/product benefits

- Energy efficiency class A
- Maximum efficiency thanks to ECM technology
- Up to 80% electricity savings compared to uncontrolled circulation pumps
- High starting torque for reliable starting
- For all heating and cooling systems in the temperature range of -10 °C to +110 °C
- Prevention of flow noise
- Safety and comfort during installation and operation
- Functions and space-saving design were specially adapted to the requirements of the OEM market. Optimum output even in narrow installation situations.
- Standard delivery with cable for an easy electrical connection
- Convenient setting of the pump via external control signals or the Red Button technology
- Cast iron pump housing with cataphoretic (KTL) coating for the prevention of corrosion from condensation formation

Options

- External control via 0-10V
- Control mode Δp -c (constant), Δp -v (variable)
- Control mode selection and differential pressure setpoint for Δp -c, Δp -v via operating button
- Further combinations of functions and equipment are available: T1-T5, T16, T17
- Version with cable according to customer specification
- Delivery in collective packaging (108 pumps/package)
- Delivery with thermal insulation
- Cold insulation shell ClimaForm as accessories

Heating and cooling

High-efficiency pumps

Technical data Wilo-Stratos PARA 25/1-8, 30/1-8

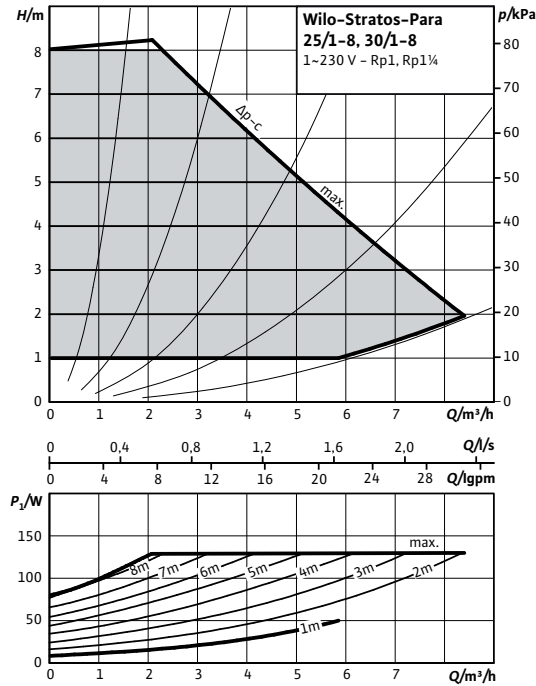
	Wilo-Stratos PARA...	
	25/1-8	30/1-8
Approved fluids (other fluids on request)		
Heating water (in accordance with VDI 2035)	•	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	•	•
Potable water and water for food-processing companies in accordance with TrinkwV 2001 (drinking water ordinance)	–	–
Power		
Max. delivery head	8 m	8 m
Max. volume flow	8.0 m ³ /h	8.0 m ³ /h
Speed	1400 - 3900 rpm	1400 - 3900 rpm
Permitted field of application		
Temperature range for applications in HVAC systems	at max. ambient temperature of 25°C = -10 to 110°C at max. ambient temperature of 40°C = -10 to 90°C at max. ambient temperature of 45°C = -10 to 80°C at max. ambient temperature of 50°C = -10 to 70°C at max. ambient temperature of 55°C = -10 to 60°C at max. ambient temperature of 60°C = -10 to 50°C at max. ambient temperature of 65°C = -10 to 40°C	
Temperature range for applications in secondary hot water circulation systems	–	
Maximum static pressure	10 bar	10 bar
Special version for operating pressure	–	–
Pipe connections		
Screwed connection	Rp 1	Rp 1¼
Thread	G 1½	G 2
Electrical connection		
Mains connection 1~, standard version	230 V	230 V
Mains frequency	50/60 Hz	50/60 Hz
Motor/electronics		
Electromagnetic compatibility	EN 61800-3	
Emitted interference	EN 61000-6-3	
Interference resistance	EN 61000-6-2	
Power electronics	Frequency converter	
Protection class	IP 44	IP 44
Insulation class	F	F
Materials		
Pump housing	Grey cast iron (EN-GJL-200)	
Impeller	Plastic (PPS - 40% GF)	
Pump shaft	Stainless steel (X46Cr13)	
Bearing	Carbon, metal impregnated	
Minimum suction head at suction port [m] for preventing cavitation at water pumping temperature		
Minimum suction head at 50°C	3.0 m	3.0 m
Minimum suction head at 95°C	10.0 m	10.0 m
Minimum suction head at 110°C	16.0 m	16.0 m

• = available, – = not available

Pump curves Wilo-Stratos PARA 25/1-8, 30/1-8

Wilo-Stratos PARA 25/1-8, 30/1-8

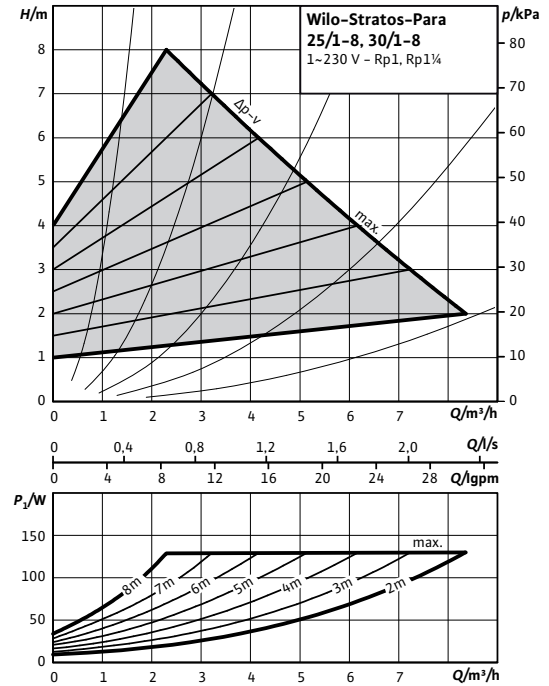
Δp-c (constant)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 25/1-8, 30/1-8

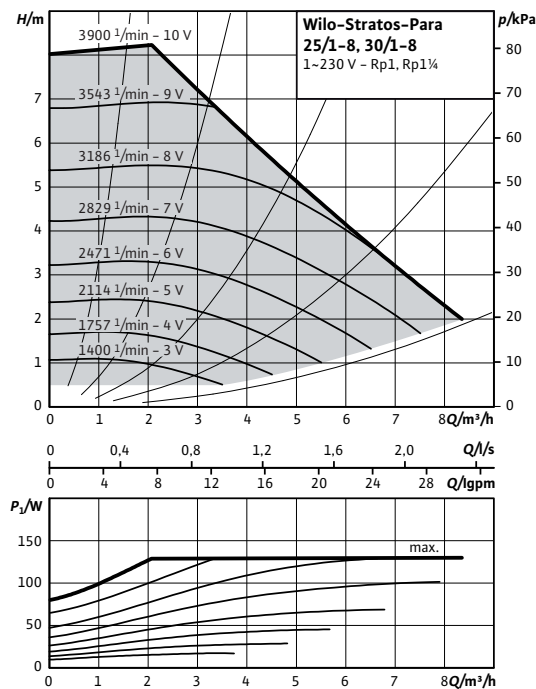
Δp-v (variable)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 25/1-8, 30/1-8

Manual control mode



Tolerances of each curve according to EN 1151-1:2006

Heating and cooling

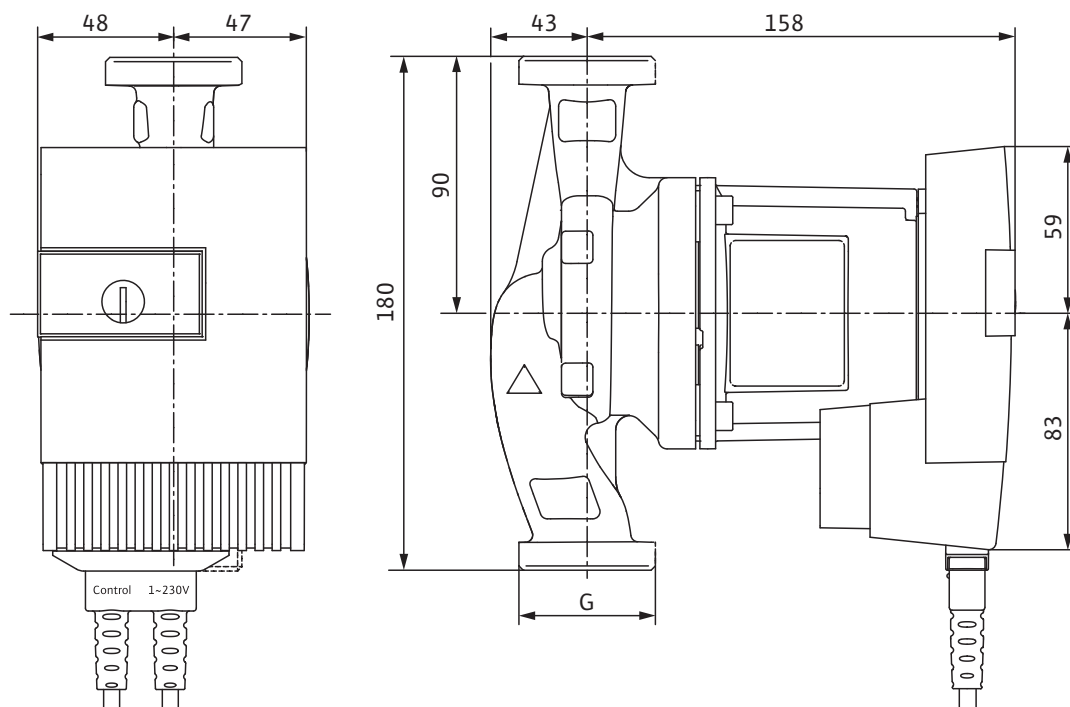
High-efficiency pumps

Dimensions, motor data Wilo-Stratos PARA 25/1-8, 30/1-8

Motor data

Wilo-Stratos PARA...	Nominal motor power	Speed	Power consumption 1~230 V	Current at 1~230V	Motor protection
	P_2	n	P_1	I	–
	W	rpm	W	A	–
25/1-8	100	1400 - 3900	8-130	0.07 - 0.95	integrated
30/1-8	100	1400 - 3900	8-130	0.07 - 0.95	integrated

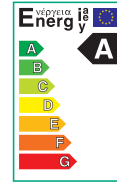
Dimension drawing



Dimensions, weights

Wilo-Stratos PARA...	Screwed connection	Thread	Weight approx.
		–	M
		–	kg
25/1-8	Rp 1	G 1½	4.7
30/1-8	Rp 1¼	G 2	4.7

Series description Wilo-Stratos PARA 25/1-11, 30/1-11



Design

Glandless circulation pump with threaded connection.
EC motor with automatic power adjustment.
Standard delivery with cable for an easy electrical connection

Application

Hot-water heating systems of all kinds, closed cooling circuits, industrial circulation systems, circulation in solar thermal and geothermal systems.

Type key

Example:	Wilo-Stratos PARA 25/1-11 T1
Stratos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
25/	Nominal connection diameter
1-11	Nominal delivery head range [m]
T1	Type key for combinations of function and equipment
12 h	Position of electronic module, special version
(not specified)	Position of electronic module 6h, standard version

Special features/product benefits

- Energy efficiency class A
- Maximum efficiency thanks to ECM technology
- Up to 80% electricity savings compared to uncontrolled circulation pumps
- High starting torque for reliable starting
- For all heating and cooling systems in the temperature range of -10 °C to +110 °C
- Prevention of flow noise
- Safety and comfort during installation and operation
- Functions and space-saving design were specially adapted to the requirements of the OEM market. Optimum output even in narrow installation situations.
- Standard delivery with cable for an easy electrical connection
- Convenient setting of the pump via external control signals or the Red Button technology
- Cast iron pump housing with cataphoretic (KTL) coating for the prevention of corrosion from condensation formation

Options

- External control via 0-10V
- Control mode Δp -c (constant), Δp -v (variable)
- Control mode selection and differential pressure setpoint for Δp -c, Δp -v via operating button
- Further combinations of functions and equipment are available: T1-T5, T16, T17
- Version with cable according to customer specification
- Version with short overall length of 130 mm
- Delivery in collective packaging (108 pumps/packaging)
- Delivery with thermal insulation
- Cold insulation shell ClimaForm as accessories

Heating and cooling

High-efficiency pumps

Technical data Wilo-Stratos PARA 25/1-11, 30/1-11

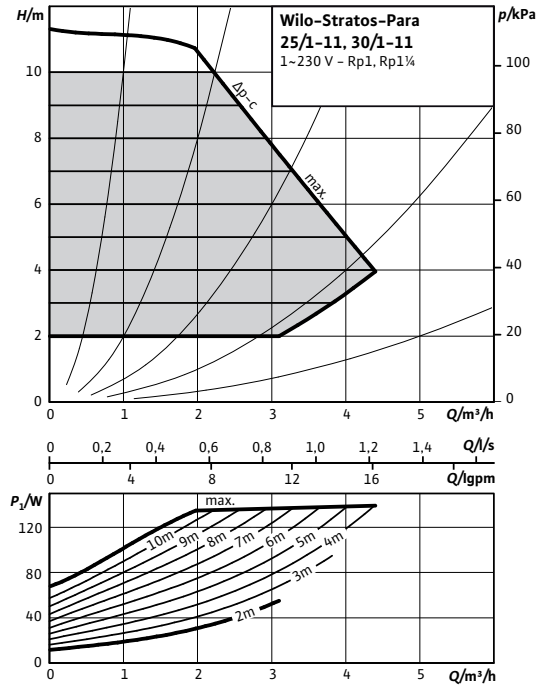
	Wilo-Stratos PARA...		
	25/1-11-130	25/1-11	30/1-11
Approved fluids (other fluids on request)			
Heating water (in accordance with VDI 2035)	•	•	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	•	•	•
Potable water and water for food-processing companies in accordance with TrinkwV 2001 (drinking water ordinance)	–	–	–
Power			
Max. delivery head	11 m	11 m	11 m
Max. volume flow	4.5 m ³ /h	4.5 m ³ /h	4.5 m ³ /h
Speed	1400 - 4850 rpm	1400 - 4850 rpm	1400 - 4850 rpm
Permitted field of application			
Temperature range for applications in HVAC systems	at max. ambient temperature of 25°C = -10 to 110°C at max. ambient temperature of 40°C = -10 to 90°C at max. ambient temperature of 45°C = -10 to 80°C at max. ambient temperature of 50°C = -10 to 70°C at max. ambient temperature of 55°C = -10 to 60°C at max. ambient temperature of 60°C = -10 to 50°C at max. ambient temperature of 65°C = -10 to 40°C		
Temperature range for applications in secondary hot water circulation systems	–		
Maximum static pressure	10 bar	10 bar	10 bar
Special version for operating pressure	–	–	–
Pipe connections			
Screwed connection	Rp 1	Rp 1	Rp 1¼
Thread	G 1½	G 1½	G 2
Electrical connection			
Mains connection 1~, standard version	230 V	230 V	230 V
Mains frequency	50/60 Hz	50/60 Hz	50/60 Hz
Motor/electronics			
Electromagnetic compatibility	EN 61800-3		
Emitted interference	EN 61000-6-3		
Interference resistance	EN 61000-6-2		
Power electronics	Frequency converter		
Protection class	IP 44	IP 44	IP 44
Insulation class	F	F	F
Materials			
Pump housing	Grey cast iron (EN-GJL-200)		
Impeller	Plastic (PPE), trade name: Noryl		
Pump shaft	Stainless steel (X46Cr13)		
Bearing	Carbon, metal impregnated		
Minimum suction head at suction port [m] for preventing cavitation at water pumping temperature			
Minimum suction head at 50°C	3.0 m	3.0 m	3.0 m
Minimum suction head at 95°C	10.0 m	10.0 m	10.0 m
Minimum suction head at 110°C	16.0 m	16.0 m	16.0 m

• = available, – = not available

Pump curves Wilo-Stratos PARA 25/1-11, 30/1-11

Wilo-Stratos PARA 25/1-11, 30/1-11

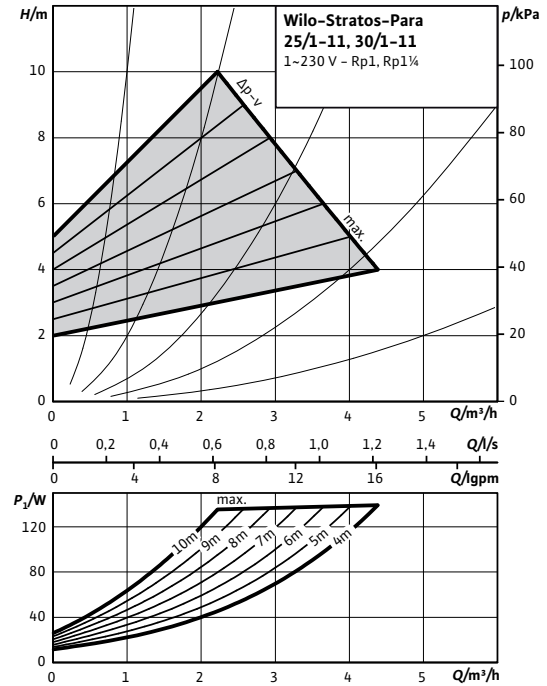
Δp-c (constant)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 25/1-11, 30/1-11

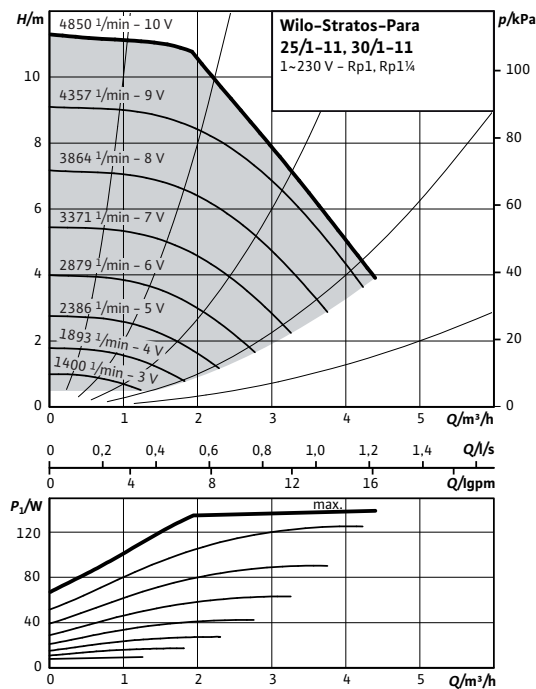
Δp-v (variable)



Tolerances of each curve according to EN 1151-1:2006

Wilo-Stratos PARA 25/1-11, 30/1-11

Manual control mode



Tolerances of each curve according to EN 1151-1:2006

Heating and cooling

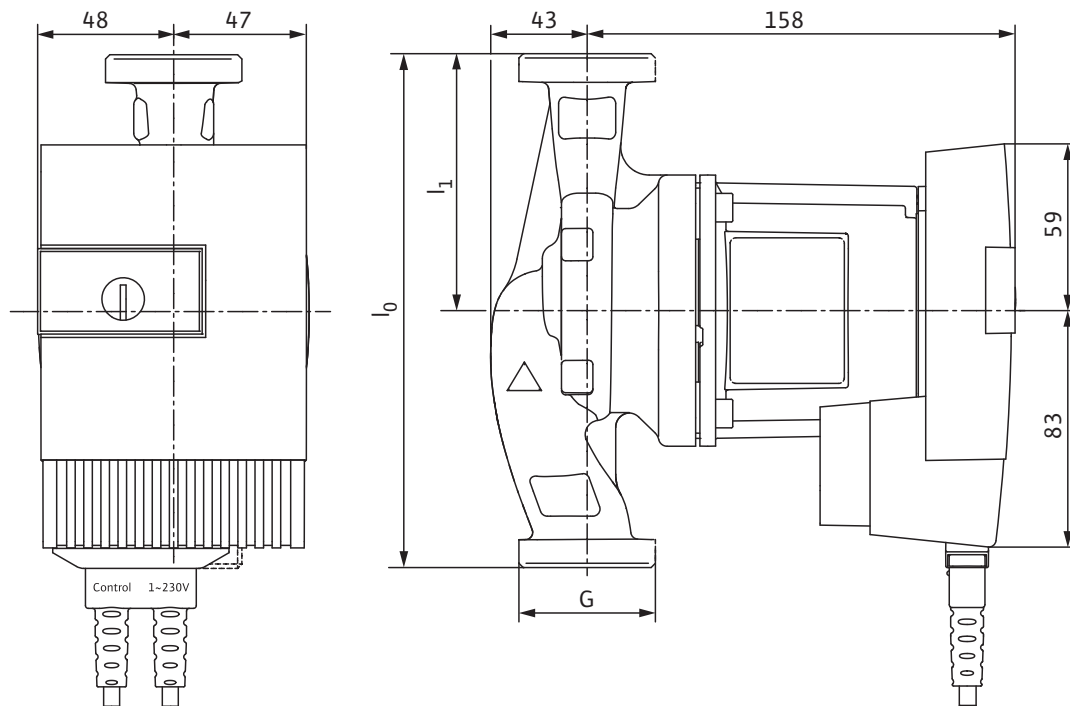
High-efficiency pumps

Dimensions, motor data Wilo-Stratos PARA 25/1-11, 30/1-11

Motor data

Wilo-Stratos PARA...	Nominal motor power	Speed	Power consumption 1~230 V	Current at 1~230V	Motor protection
	P_2	n	P_1	I	–
	W	rpm	W	A	–
25/1-11	105	1400 - 4850	8-140	0.07 - 1.05	integrated
25/1-11-130	105	1400 - 4850	8-140	0.07 - 1.05	integrated
30/1-11	105	1400 - 4850	8-140	0.07 - 1.05	integrated

Dimension drawing



Dimensions, weights

Wilo-Stratos PARA...	Screwed connection	Thread	Overall length	Dimensions	Weight approx.
	–	–	l_0	l_1	M
	–	–		mm	kg
25/1-11	Rp 1	G 1½	180	90	4.3
25/1-11-130	Rp 1	G 1½	130	65	4.3
30/1-11	Rp 1¼	G 2	180	90	4.3

Series description Wilo-Stratos PARA 25/1-12, 30/1-12



Design

Glandless circulation pump with threaded connection.
EC motor with automatic power adjustment.
Standard delivery with cable for an easy electrical connection

Application

Hot-water heating systems of all kinds, closed cooling circuits, industrial circulation systems, circulation in solar thermal and geothermal systems.

Type key

Example:	Wilo-Stratos PARA 25/1-12 T1
Stratos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
25/	Nominal connection diameter
1-12	Nominal delivery head range [m]
T1	Type key for combinations of function and equipment
12 h	Position of electronic module, special version
(not specified)	Position of electronic module 6h, standard version

Special features/product benefits

- Energy efficiency class A
- Maximum efficiency thanks to ECM technology
- Up to 80% electricity savings compared to uncontrolled circulation pumps
- High starting torque for reliable starting
- For all heating and cooling systems in the temperature range of -10 °C to +110 °C
- Prevention of flow noise
- Safety and comfort during installation and operation
- Functions and space-saving design were specially adapted to the requirements of the OEM market. Optimum output even in narrow installation situations.
- Standard delivery with cable for an easy electrical connection
- Convenient setting of the pump via external control signals or the Red Button technology
- Cast iron pump housing with cataphoretic (KTL) coating for the prevention of corrosion from condensation formation

Options

- External control via 0-10V
- Control mode Δp -c (constant), Δp -v (variable)
- Control mode selection and differential pressure setpoint for Δp -c, Δp -v via operating button
- Further combinations of functions and equipment are available: T1-T5, T16, T17
- Version with cable according to customer specification
- Delivery in collective packaging (72 pumps/packaging)
- Delivery with thermal insulation
- Cold insulation shell ClimaForm as accessories

Heating and cooling

High-efficiency pumps

Technical data Wilo-Stratos PARA 25/1-12, 30/1-12

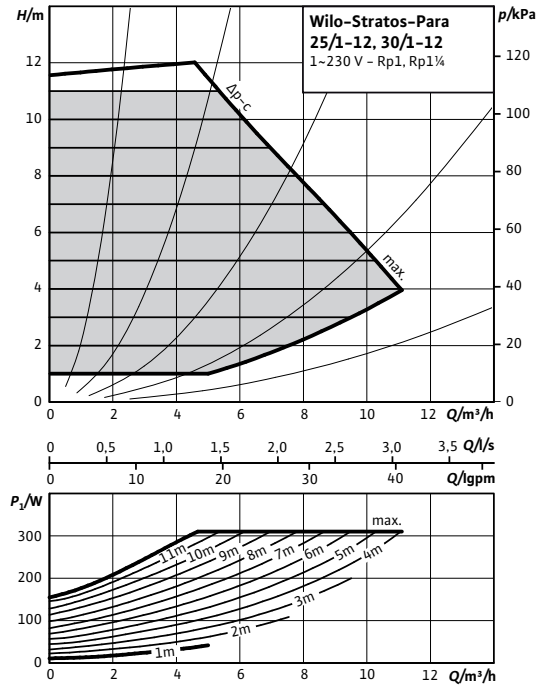
	Wilo-Stratos PARA...	
	25/1-12	30/1-12
Approved fluids (other fluids on request)		
Heating water (in accordance with VDI 2035)	•	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	•	•
Potable water and water for food-processing companies in accordance with TrinkwV 2001 (drinking water ordinance)	–	–
Power		
Max. delivery head	12 m	12 m
Max. volume flow	10.0 m ³ /h	10.0 m ³ /h
Speed	1400 - 4800 rpm	1400 - 4800 rpm
Permitted field of application		
Temperature range for applications in HVAC systems	at max. ambient temperature of 25°C = -10 to 110°C at max. ambient temperature of 40°C = -10 to 90°C at max. ambient temperature of 45°C = -10 to 80°C at max. ambient temperature of 50°C = -10 to 65°C at max. ambient temperature of 55°C = -10 to 50°C at max. ambient temperature of 60°C = -10 to 35°C at max. ambient temperature of 65°C = -10 to 20°C	
Temperature range for applications in secondary hot water circulation systems	–	
Maximum static pressure	10 bar	10 bar
Special version for operating pressure	–	–
Pipe connections		
Screwed connection	Rp 1	Rp 1¼
Thread	G 1½	G 2
Electrical connection		
Mains connection 1~, standard version	230 V	230 V
Mains frequency	50/60 Hz	50/60 Hz
Motor/electronics		
Electromagnetic compatibility	EN 61800-3	
Emitted interference	EN 61000-6-3	
Interference resistance	EN 61000-6-2	
Power electronics	Frequency converter	
Protection class	IP 44	IP 44
Insulation class	F	F
Materials		
Pump housing	Grey cast iron (EN-GJL-200)	
Impeller	Plastic (PPS - 40% GF)	
Pump shaft	Stainless steel (X46Cr13)	
Bearing	Carbon, metal impregnated	
Minimum suction head at suction port [m] for preventing cavitation at water pumping temperature		
Minimum suction head at 50°C	3.0 m	3.0 m
Minimum suction head at 95°C	10.0 m	10.0 m
Minimum suction head at 110°C	16.0 m	16.0 m

• = available, – = not available

Pump curves Wilo-Stratos PARA 25/1-12, 30/1-12

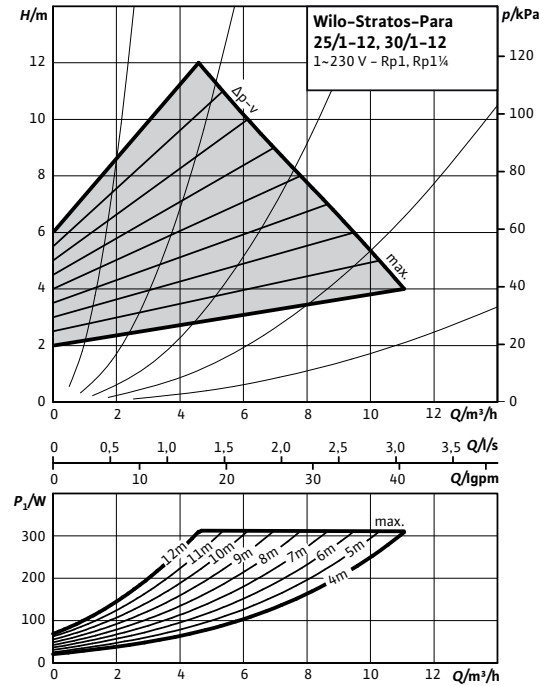
Wilo-Stratos PARA 25/1-12, 30/1-12

Δp-c (constant)



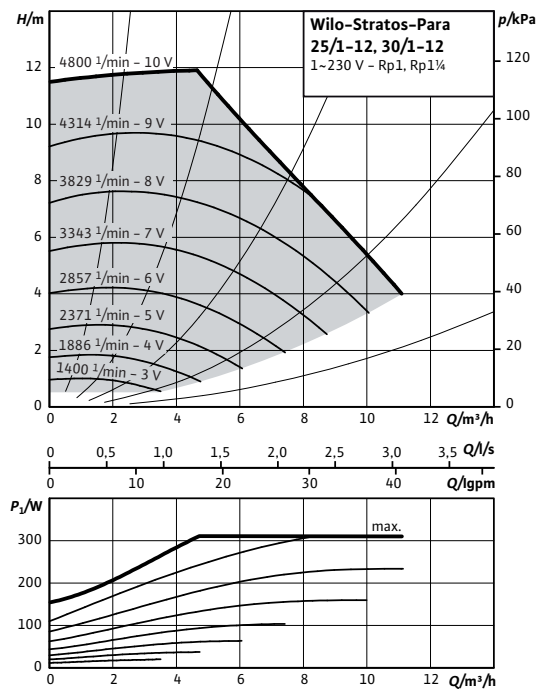
Wilo-Stratos PARA 25/1-12, 30/1-12

Δp-v (variable)



Wilo-Stratos PARA 25/1-12, 30/1-12

Manual control mode



Heating and cooling

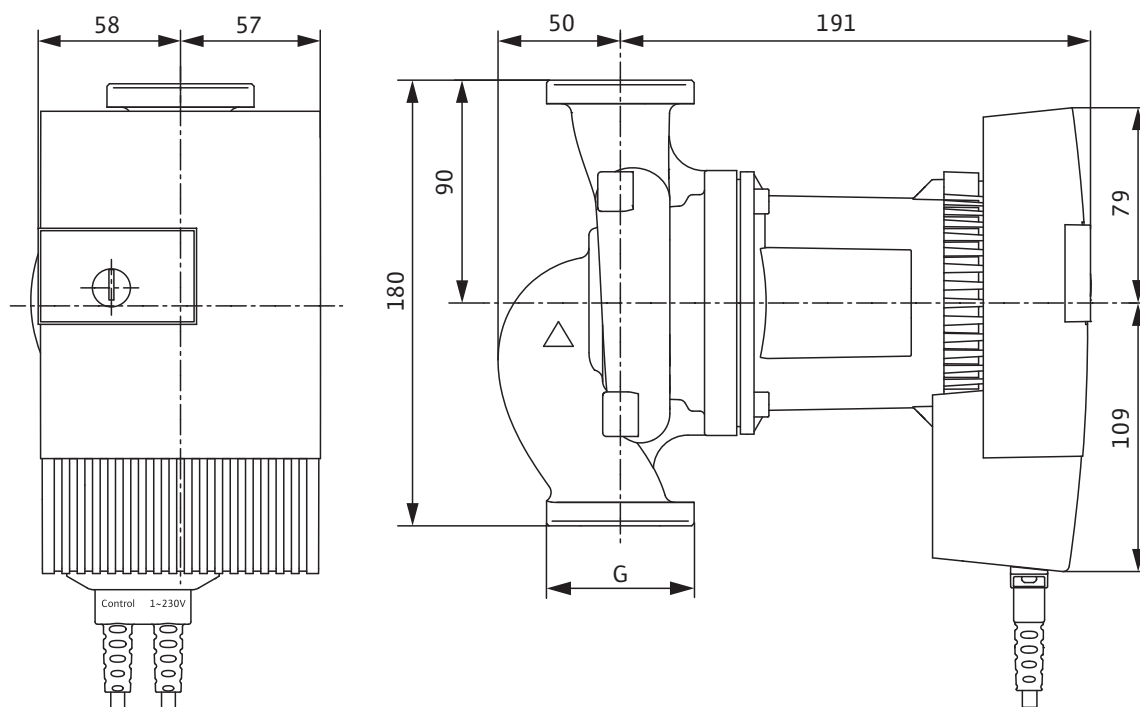
High-efficiency pumps

Dimensions, motor data Wilo-Stratos PARA 25/1-12, 30/1-12

Motor data

Wilo-Stratos PARA...	Nominal motor power	Speed	Power consumption 1~230 V	Current at 1~230V	Motor protection
	P_2	n	P_1	I	–
	W	rpm	W	A	–
25/1-12	200	1400 - 4800	16-310	0.16 - 1.37	integrated
30/1-12	200	1400 - 4800	16-310	0.16 - 1.37	integrated

Dimension drawing



Dimensions, weights

Wilo-Stratos PARA...	Screwed connection	Thread	Weight approx.
		–	M
		–	kg
25/1-12	Rp 1	G 1½	6.2
30/1-12	Rp 1¼	G 2	6.2