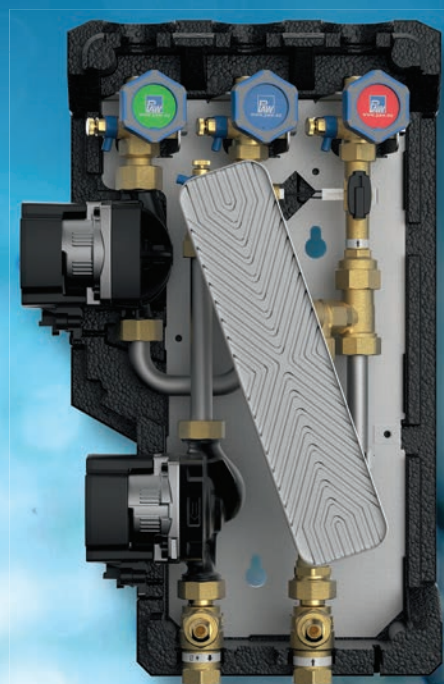




Friwa

Domestic hot water technology



Domestic hot water modules DN 15-32

Catalogue 04/2025

Solutions for domestic hot water technology

Valid for the EU





Design data FriwaMicro - DN 15 (½") - up to 20 l/min (acc. to SPF LK 1)*, cold water entry temperature = 10 °C			
Set hot water temperature	Withdrawal of hot water with 45 °C at the preset hot water temperature	Transmission performance	Primary required flow temperature
45 °C	20 l/min	49 kW	60 °C (LK 1)*
	23 l/min	57 kW	70 °C
60 °C	14 l/min	48 kW	70 °C (LK 2)*
Modules			
thermally controlled	6400010		
	6400030	(coated heat exchanger)	



Design data FriwaMini - DN 15 (½") - up to 28 l/min (acc. to SPF LK 1)*, cold water entry temperature = 10 °C			
Set hot water temperature	Withdrawal of hot water with 45 °C at the preset hot water temperature	Transmission performance	Primary required flow temperature
45 °C	28 l/min	69 kW	60 °C (LK 1)*
	38 l/min	93 kW	70 °C
60 °C	20 l/min	69 kW	70 °C (LK 2)*
Modules			
without circulation	6401511	6401531 (coated heat exchanger)	
with circulation**	6401516	6401536 (coated heat exchanger)	



Design data FriwaMidi - DN 20 (¾") - up to 50 l/min (acc. to SPF LK 1)*, cold water entry temperature = 10 °C			
Set hot water temperature	Withdrawal of hot water with 45 °C at the preset hot water temperature	Transmission performance	Primary required flow temperature
45 °C	50 l/min	121 kW	60 °C (LK 1)*
	63 l/min	155 kW	70 °C
60 °C	37 l/min	130 kW	70 °C (LK 2)*
Modules			
without circulation	6405511	6405531 (coated heat exchanger)	
with circulation (internal)**	6405516	6405536 (coated heat exchanger)	

Single-family house (up to two showers)
LK 1 = performance indicator 1
at a set hot water temperature of 45 °C
at a primary flow temperature of 60 °C

LK 2 = performance indicator 2
at a set hot water temperature of 60 °C
at a primary flow temperature of 70 °C

**Friwa modules can be equipped subsequently with internal circulation sets - see equipment



Design data FriwaMaxi - DN 25 (1") - up to 77 l/min (acc. to SPF LK 1)*, cold water entry temperature = 10 °C			
Set hot water temperature	Withdrawal of hot water with 45 °C at the preset hot water temperature	Transmission performance	Primary required flow temperature
45 °C	77 l/min	187 kW	60 °C (LK 1)*
	88 l/min	215 kW	70 °C
60 °C	58 l/min	201 kW	70 °C (LK 2)*
Modules			
without circulation	6406511	6406531 (coated heat exchanger)	
with circulation (internal)**	6406516	6406536 (coated heat exchanger)	

Friwa



Design data FriwaMega - DN 32 (1¼") - up to 123 l/min (acc. to SPF LK 1)*, cold water entry temperature = 10 °C			
Set hot water temperature	Withdrawal of hot water with 45 °C at the preset hot water temperature	Transmission performance	Primary required flow temperature
45 °C	123 l/min	300 kW	60 °C (LK 1)*
	130 l/min	317 kW	70 °C
60 °C	93 l/min	324 kW	70 °C (LK 2)*
Modules			
without circulation	6407511	6407530 (coated heat exchanger)	
with circulation (internal)**	6407517	6407535 (coated heat exchanger)	

Single-family house (up to two showers)
LK 1 = performance indicator 1
at a set hot water temperature of 45 °C
at a primary flow temperature of 60 °C

LK 2 = performance indicator 2
at a set hot water temperature of 60 °C
at a primary flow temperature of 70 °C

**Friwa modules can be equipped subsequently with internal circulation sets - see equipment



Example: FriwaMini
combined with a mixed
CoolBloC C34 and a heat
pump

Dimensioning Friwa

The performance of the Friwa primarily depends on the temperature in the buffer tank which delivers the energy to heat up the domestic hot water module.

The demand of domestic hot water depends on the flow and the number of consumers. In larger apartment buildings, a certain statistic distribution of withdrawals can be observed. The following table gives a general overview of the application range of the different Friwa modules.

Housing unit	70 °C / 60 °C / 10 °C	70 °C / 45 °C / 10 °C ***	60 °C / 50 °C / 10 °C ***
Single-family house (up to two showers)	FriwaMicro	FriwaMicro	FriwaMicro
Single-family house (three or more showers)	FriwaMini	FriwaMini	FriwaMini
Two-family house	FriwaMidi	FriwaMidi	FriwaMidi
3	FriwaMidi	FriwaMidi	FriwaMidi
5	FriwaMidi	FriwaMidi	FriwaMidi
10	FriwaMidi	FriwaMidi	FriwaMidi
15	FriwaMaxi	FriwaMidi	FriwaMaxi
20	FriwaMaxi	FriwaMidi	FriwaMaxi
30	2x FriwaMidi	FriwaMaxi	2x FriwaMidi
50	FriwaMega	2x FriwaMidi	FriwaMega
70	2x FriwaMaxi	FriwaMega	2x FriwaMaxi
100	2x FriwaMega	2x FriwaMaxi	2x FriwaMega

***A DHW temperature below 60 °C during operation does not comply with DVGW 551 (German association for gas and water). The compliance with water quality standards must be observed.

70 °C / 60 °C / 10 °C flow temperature 70 °C / Hot water temperature 60 °C / Cold water temperature 10 °C
The DHW demand of max. 12 l/min and the simultaneity factor according to DIN 4708 represent the basis of calculation.



Optional accessories - WiFi3.10

Internet Gateway module - item no. 1339003

- ✓ For the connection of DHW modules to an Internet platform with the controller FC3.10
- ✓ System monitoring and parametrisation
- ✓ Display of the activated functions and graphic overview of the nominal values
- ✓ E-mail notification in case of error messages
- ✓ Display of the alarms history



Optional accessories - MB3.10

Modbus RTU module - item no. 1339002

- ✓ Connection of a cascade to a BMS
- ✓ The controller FC3.10 offers 2500 registers that can be processed by means of the MB3.10
- ✓ Communication status visible via LED codification
- ✓ Modbus RTU protocol
- ✓ Modbus specific parameters can be set at the controller – high flexibility and possibility to adapt to an existing BMS

Required module and pipe set for double cascade*** - example FriwaMini

Example:				
	2x	Basic module	Pipe set for cascade	Return distribution set
		FriwaMini		
Basic modules	2x 6401510			
	2x 6401530 (coated heat exchanger)			
Pipe set for cascade	64042933			
Return distribution set	5675431			
Optional: circulation line	6404111			
Optional accessories: WiFi3.10 Internet Gateway module and MB3.10 Modbus RTU module				

Required module and pipe set for double cascade*** - example FriwaMidi

Example:				
	2x	Basic module	Pipe set for cascade	Return distribution set
				Circulation line
			FriwaMidi	FriwaMaxi
Basic modules		2x 6405511	2x 6406511	2x 6407511
		2x 6405531 (coated heat exchanger)	2x 6406531 (coated heat exchanger)	2x 6407530 (coated heat exchanger)
Pipe set for cascade		64042943	64042953	1x 64042963
Return distribution set		5675431	6404242	6404244
Optional: circulation line		6404136GM7	6404136GM7	6404136GM7
		6404136GH10	6404136GH10	6404136GH10
		6404136GH12	6404136GH12	6404136GH12
Optional accessories: WiFi3.10 Internet Gateway module and MB3.10 Modbus RTU module				

Required module for triple or quadruple cascade*** - example FriwaMidi

Example:				
	3x or 4x	Basic module	Accessory kit for cascade	Return distribution set
				Circulation line
			FriwaMidi	FriwaMaxi
Basic modules		3x or 4x 6405511	3x or 4x 6406511	3x or 4x 6407511
		3x or 4x 6405531 (coated heat exchanger)	3x or 4x 6406531 (coated heat exchanger)	3x or 4x 6407530 (coated heat exchanger)
Accessory set for Friwa cascade		64042622 (2-fold)	64042722 (2-fold)	64042820 (2-fold)
		64042632 (3-fold)	64042732 (3-fold)	64042830 (3-fold)
		64042642 (4-fold)	64042742 (4-fold)	64042840 (4-fold)
Return distribution set		6404242	6404242	6404244
Optional: circulation line		6404136GM7	6404136GM7	6404136GM7
		6404136GH10	6404136GH10	6404136GH10
		6404136GH12	6404136GH12	6404136GH12
Optional accessories: WiFi3.10 Internet Gateway module and MB3.10 Modbus RTU module				

*** The cascade solution is available on request; / = not possible



Application range

- Domestic hot water preparation operating on the principle of a flow-type water heater

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with solid fuel boilers, oil or gas boilers
- connection to a buffer tank

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	80 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1*as per SPF LK1*	20 l/min
Transmission performanceas per SPF LK1*	48 kW

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

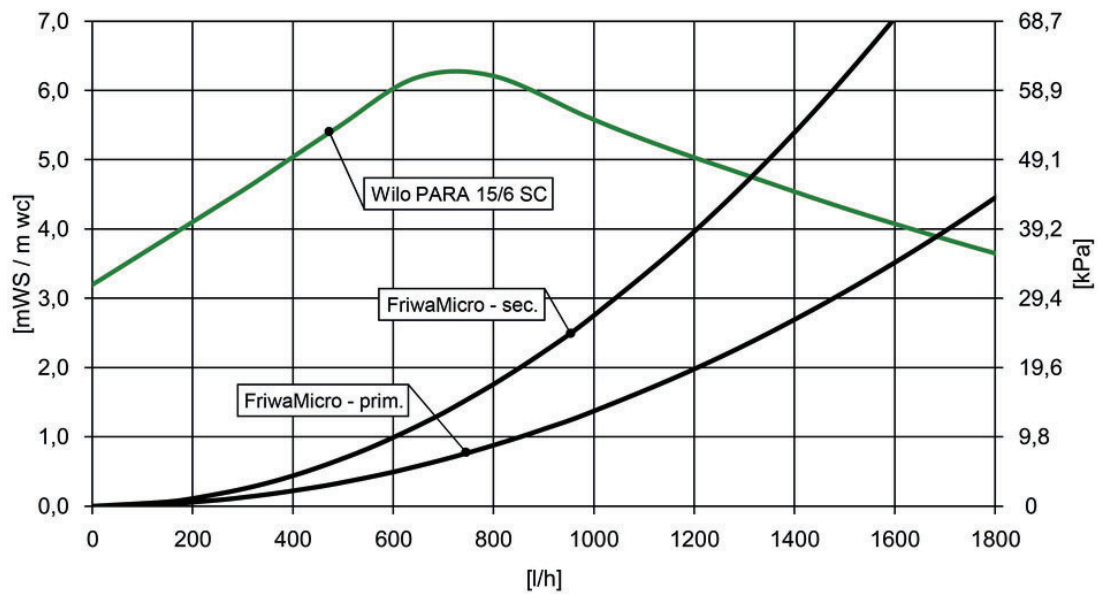
Heat exchanger	E8ASH, 24 plates
Cartridge sensor	30-60 °C
Flow switch	Type 1.3 l/min


Materials

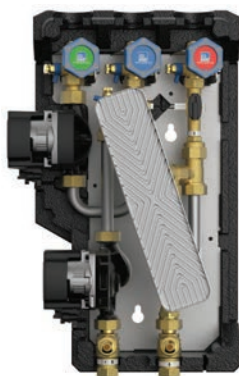
Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Cartridge sensor	Stainless steel
Flow switch	Noryl
Thermostatic valve	Housing / valve plate: brass
Heat exchanger	coating (optional): based on silica; Solder: copper; Plates + connecting pieces: stainless steel

Dimensions

Height	420 mm
Width	282 mm
Depth	265 mm
Installation length	418 mm
Centre distance	65 mm
Centre distance sec.	65 mm
Nominal diameter	DN 15 (½")
Connections	¾" int. thread



FriwaMicro - DN 15 (½")		Item no.
	FriwaMicro, thermally controlled Wilo Para SC 15/6-43	6400010
	FriwaMicro, thermally controlled, coated heat exchanger Wilo Para SC 15/6-43	6400030



Application range

- Domestic hot water preparation operating on the principle of a flow-type water heater

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with solid fuel boilers, oil or gas boilers
- connection to a buffer tank

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	28 l/min
Transmission performance as per SPF LK1*	69 kW
Kvs value	primary: 3,1 secondary: 2.4

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

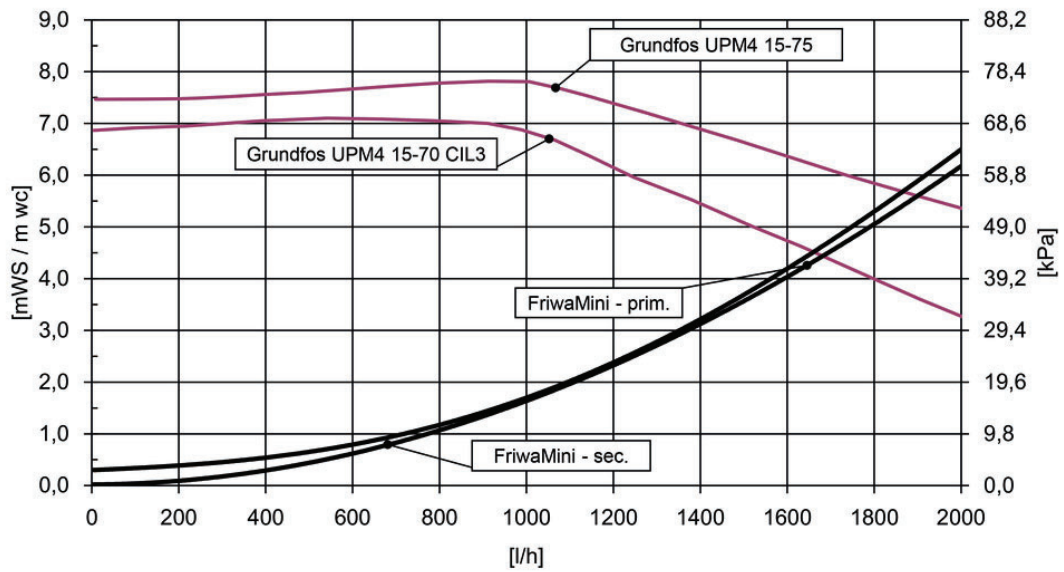
Check valves	primary: 1 x 200 mm wc
Controller	FC3.10
Sensors	2 x Pt1000
Heat exchanger	E8ASW-N, 32 plates
Circulation line	optional
Communication module (WiFi3.10/MB3.10)	optional

Materials

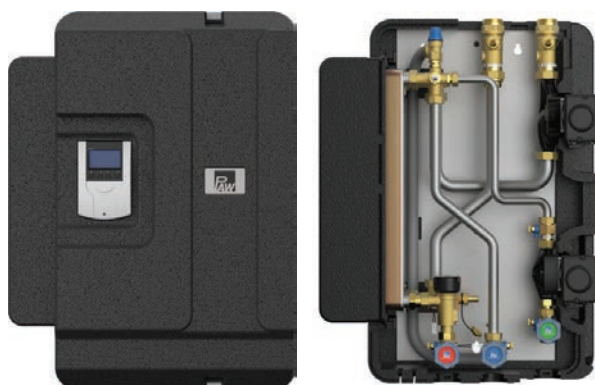
Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	coating (optional): based on silica; Solder: copper; Plates + connecting pieces: stainless steel

Dimensions

Height	539 mm
Width	309 mm
Depth	314 mm
Installation length	494 mm
Centre distance prim.	90 mm
Centre distance sec.	90 mm
Nominal diameter	DN 15 (½")
Connections	primary: ¾" int. thread secondary: ¾" ext. thread
Connection circulation line	1" ext. thread



FriwaMini - DN 15 (½")		Item no.
	FriwaMini, without circulation Primary pump: Grundfos UPM4 15-75	6401510
	FriwaMini, with circulation Primary pump: Grundfos UPM4 15-75 Secondary pump: Grundfos UPM4 15-70 CIL3	6401515
	FriwaMini, without circulation, coated heat exchanger Primary pump: Grundfos UPM4 15-75	6401530
	FriwaMini, with circulation, coated heat exchanger Primary pump: Grundfos UPM4 15-75 Secondary pump: Grundfos UPM4 15-70 CIL3	6401535



Application range

- Domestic hot water preparation operating on the principle of a flow-type water heater

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with a heat pump, a solid fuel boiler, oil or gas boiler
- connection to a buffer tank
- as a quadruple cascade up to 200 l/min (as per SPF LK 1)*

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	50 l/min
Transmission performance as per SPF LK1*	129 kW
Kvs value	primary: 4,5 secondary: 3.9

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

Check valves	primary: 2 x 190 mm wc
Heat exchanger	40 plates, copper solder/coated
Sensors	primary: 1 x Pt1000 / secondary: 2 x Pt1000 / 1 x flow meter

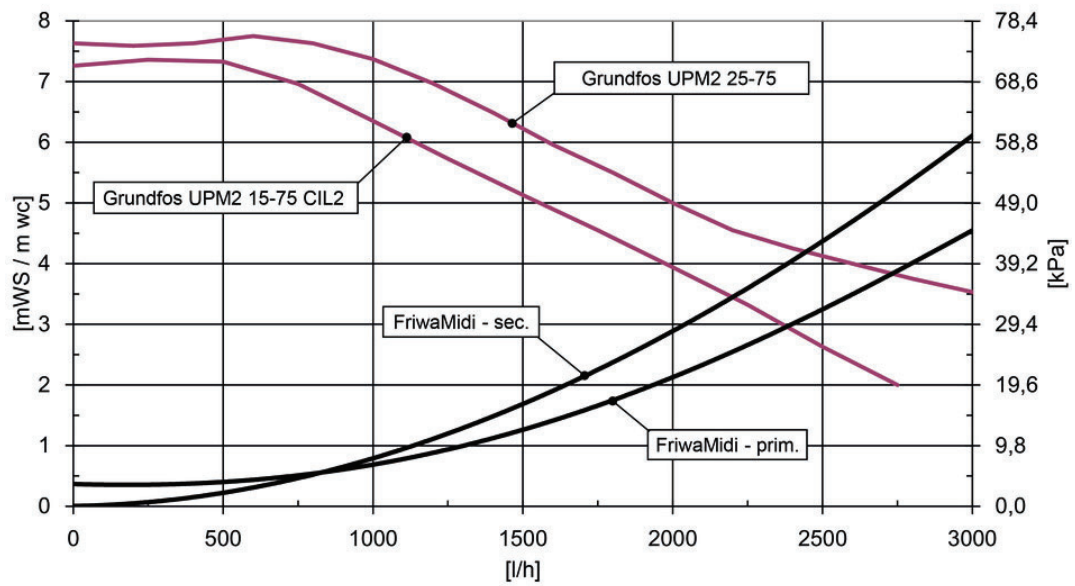
Controller	FC3.10
Circulation line	optional
Communication module (WiFi3.10/ MB3.10)	optional

Materials

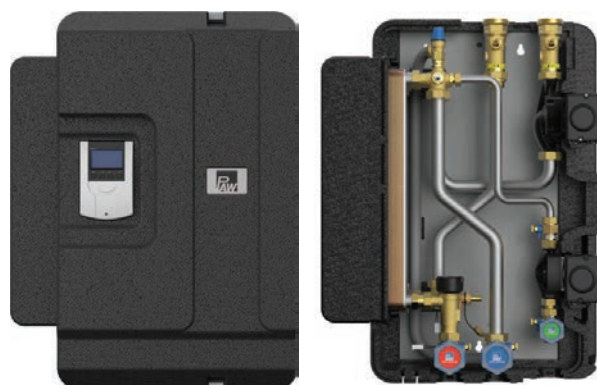
Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	coating (optional): based on silica; Solder: copper; Plates + connecting pieces: stainless steel

Dimensions

Height	795 mm
Width	602 mm
Depth	298 mm
Installation length	757 mm
Centre distance prim.	120 mm
Centre distance sec.	100 mm
Nominal diameter	DN 20 (¾")
Connections	primary: 1½" ext. thread secondary: 1" ext. thread
Connection circulation line	1" ext. thread



FriwaMidi - DN 20 (¾")		Item no.
	FriwaMidi, without circulation Primary pump: Grundfos UPM2 25-75 LowFlow	6405511
	FriwaMidi, with circulation Primary pump: Grundfos UPM2 25-75 LowFlow Secondary pump: Grundfos UPM2 15-75 CIL2	6405516
	FriwaMidi, without circulation, coated heat exchanger Primary pump: Grundfos UPM2 25-75 LowFlow	6405531
	FriwaMidi, with circulation, coated heat exchanger Primary pump: Grundfos UPM2 25-75 LowFlow Secondary pump: Grundfos UPM2 15-75 CIL2	6405536



Application range

- Domestic hot water preparation operating on the principle of a flow-type water heater

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with a heat pump, a solid fuel boiler, oil or gas boiler
- connection to a buffer tank
- as a quadruple cascade up to 308 l/min (as per SPF LK 1)*

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	77 l/min
Transmission performance as per SPF LK1*	187 kW
Kvs value	primary: 5,6 secondary: 5.2

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

Check valves	primary: 2 x 400 mm wc
Heat exchanger	60 plates, copper solder/coated
Sensors	primary: 1 x Pt1000 / secondary: 2 x Pt1000 / 1 x flow meter

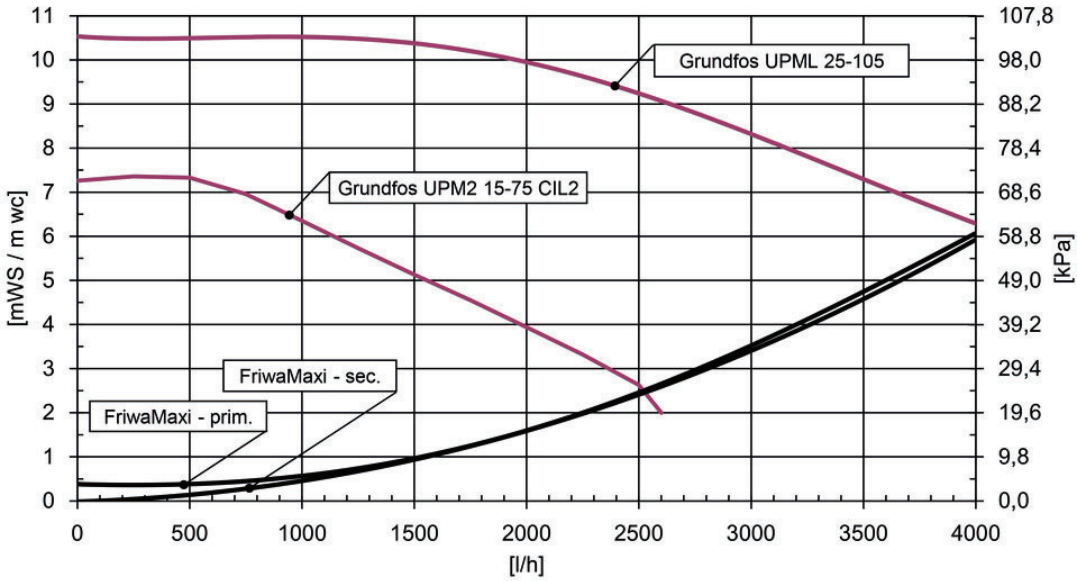
Controller	FC3.10
Circulation line	optional
Communication module (WiFi3.10/ MB3.10)	optional

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	coating (optional): based on silica; Solder: copper; Plates + connecting pieces: stainless steel

Dimensions

Height	795 mm
Width	602 mm
Depth	298 mm
Installation length	769 mm
Centre distance prim.	120 mm
Centre distance sec.	100 mm
Nominal diameter	DN 25 (1")
Connections	primary: 2" ext. thread secondary: 1 1/4" ext. thread
Connection circulation line	1" ext. thread



FriwaMaxi - DN 25 (1")		Item no.
	FriwaMaxi, without circulation Primary pump: Grundfos UPML 25-105	6406511
	FriwaMaxi, with circulation Primary pump: Grundfos UPML 25-105 Secondary pump: Grundfos UPM2 15-75 CIL2	6406516
	FriwaMaxi, without circulation, coated heat exchanger Primary pump: Grundfos UPML 25-105	6406531
	FriwaMaxi, with circulation, coated heat exchanger Primary pump: Grundfos UPML 25-105 Secondary pump: Grundfos UPM2 15-75 CIL2	6406536



Application range

- Domestic hot water preparation operating on the principle of a flow-type water heater

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with a heat pump, a solid fuel boiler, oil or gas boiler
- connection to a buffer tank
- as a quadruple cascade up to 492 l/min (as per SPF LK 1)*

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	4 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	123 l/min
Transmission performance as per SPF LK1*	300 kW
Kvs value	primary: 11,8 secondary: 10

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

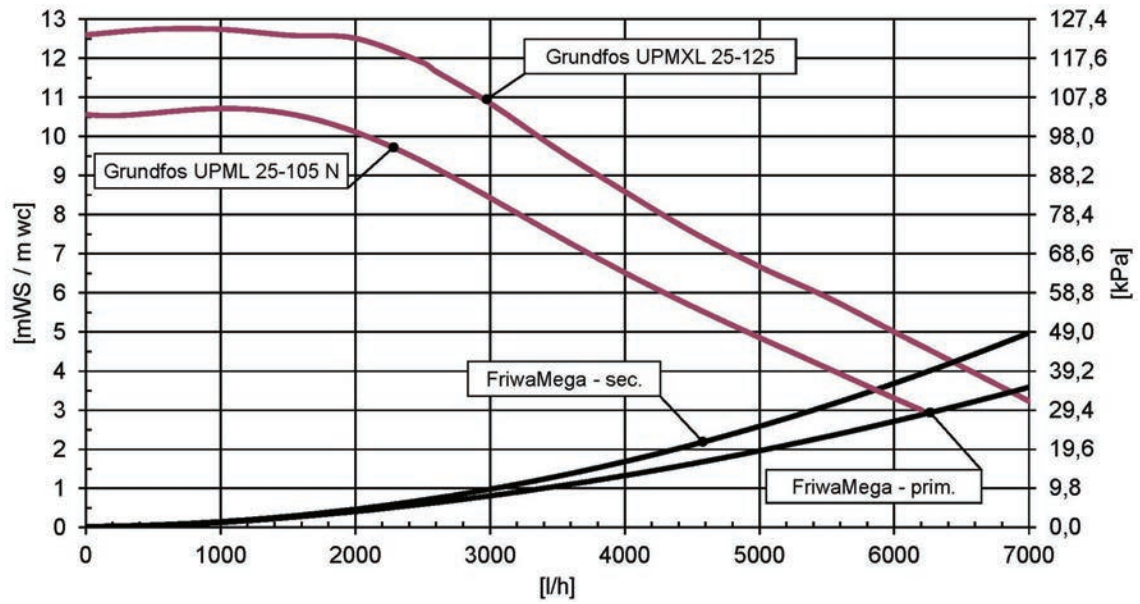
Check valves	primary: 2 x 450 mm wc
Heat exchanger	2x 60 plates, copper solder/coated
Sensors	primary: 1 x Pt1000 / secondary: 2 x Pt1000 / 2 x flow meter
Controller	FC3.10
Circulation line	optional
Communication module (WiFi3.10/ MB3.10)	optional

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	coating (optional): based on silica; Solder: copper; Plates + connecting pieces: stainless steel

Dimensions

Height	1 423 mm
Width	710 mm
Depth	920 mm
Installation length	1 205 mm
Centre distance prim.	158 mm
Centre distance sec.	158 mm
Nominal diameter	DN 32 (1¼")
Connections	primary: 1½" int. thread secondary: 1½" ext. thread
Connection circulation line	thread / 1¼" ext. thread



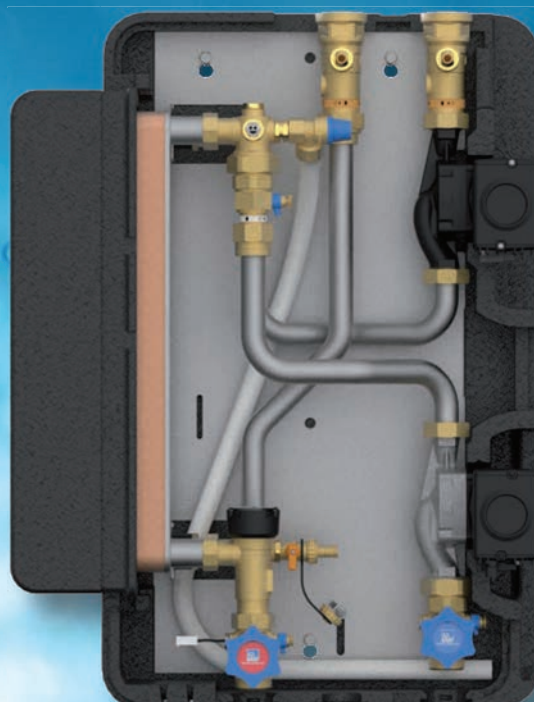
FriwaMega - DN 32 (1¼")		Item no.
	FriwaMega, without circulation Primary pump: Grundfos UPMXL GEO 25-125	6407511
	FriwaMega, with circulation Primary pump: Grundfos UPMXL GEO 25-125 Secondary pump: Grundfos UPML 25-105 N	6407517
	FriwaMega, without circulation, coated heat exchanger Primary pump: Grundfos UPMXL GEO 25-125	6407530
	FriwaMega, with circulation (internal), coated heat exchanger Primary pump: Grundfos UPMXL GEO 25-125 Secondary pump: Grundfos UPML 25-105 N	6407535





Tank heat transfer modules

Domestic hot water technology



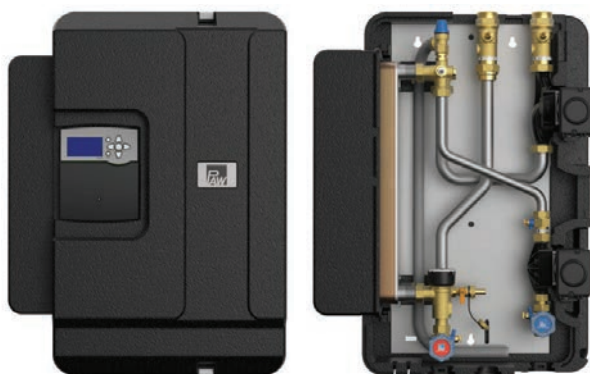
Tank heat transfer modules DN 20-25

Catalogue 04/2025

Solutions for domestic hot water technology

Valid for the EU





Application range

- for charging/preheating domestic hot water tanks via large buffer tank systems with high tap performances

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with solid fuel boilers, oil or gas boilers
- connection to a buffer tank
- up to 33 l/min

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	33 l/min
Transmission performance as per SPF LK1*	92 kW
Kvs value	primary: 4,1 secondary: 3.4

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

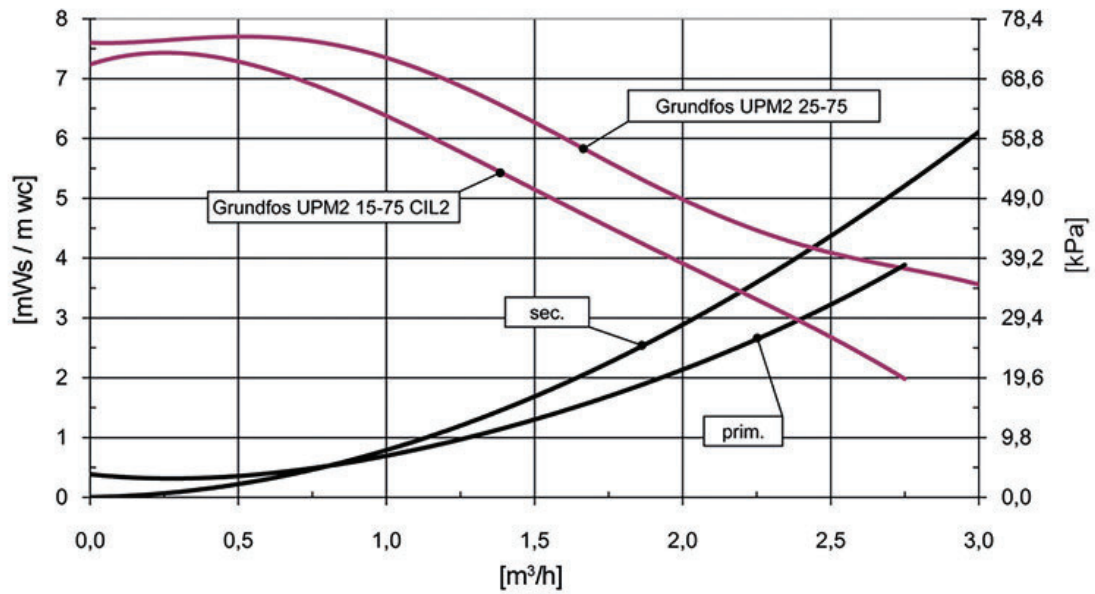
Check valves	primary: 2 x 190 mm wc
Heat exchanger	B25TH, 40 plates
Sensors	3 x Pt1000 (integrated) / 3 x Pt1000 (enclosed)
Controller	FC4.13

Dimensions

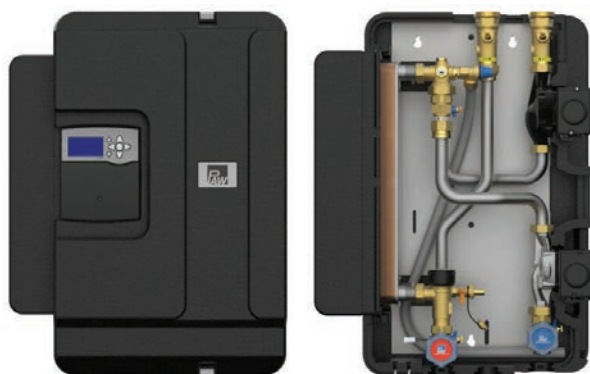
Height	795 mm
Width	602 mm
Depth	298 mm
Installation length	757 mm
Centre distance prim.	120 mm
Centre distance sec.	220 mm
Nominal diameter	DN 20 (¾")
Connections	primary: 1½" ext. thread secondary: 1" ext. thread

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	Solder: copper; Plates + connecting pieces: stainless steel



Tank heat transfer module Midi - DN 20 (¾")		Item no.
	Tank heat transfer module Midi up to 33 l/min Primary pump: Grundfos UPM2 25-75 LowFlow Secondary pump: Grundfos UPM2 15-75 CIL2	6435445



Application range

- for charging/preheating domestic hot water tanks via large buffer tank systems with high tap performances

The CE-conformity of the module has been certified according to DIN EN 60335 and SVGW.

Application range

- in solar thermal systems
- in systems with solid fuel boilers, oil or gas boilers
- connection to a buffer tank
- up to 63 l/min

Operating data

Max. operating pressure	primary: 3 bar secondary: 10 bar
Operating temperature	95 °C
Min. flow rate as per SPF LK 1*	2 l/min
Max. flow rate as per SPF LK 1* as per SPF LK1*	63 l/min
Transmission performance as per SPF LK1*	175 kW
Kvs value	primary: 5,5 secondary: 5.1

*For information on design data, see "Product range Friwa" ; You will find the equipment at the end for the product family "Domestic hot water technology".

Technical data

Equipment

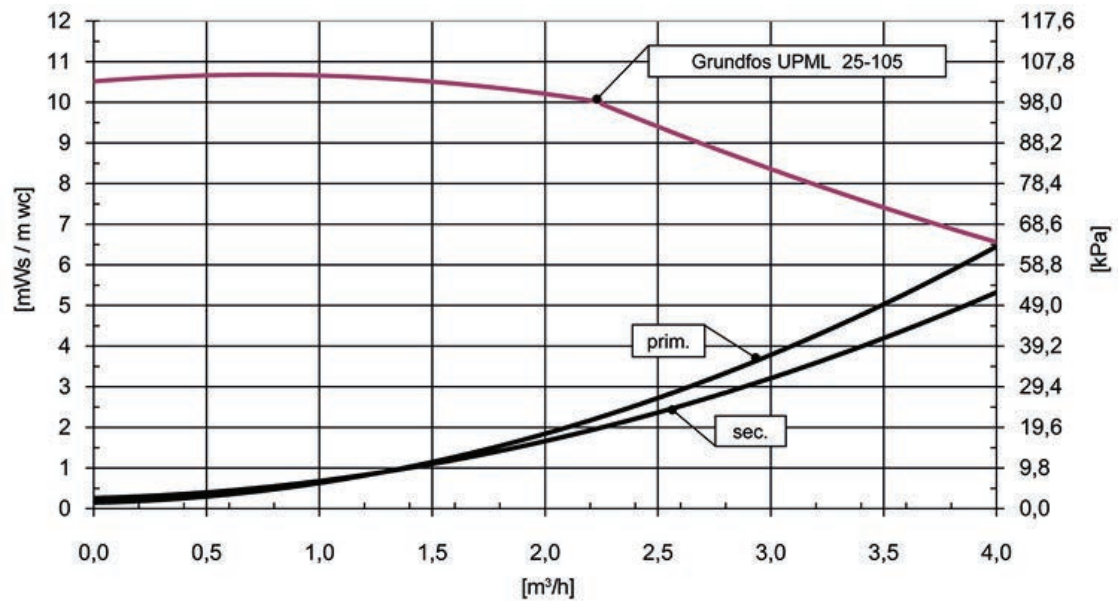
Check valves	primary: 2 x 400 mm wc
Heat exchanger	B25TH, 60 plates
Sensors	3 x Pt1000 (integrated) / 3 x Pt1000 (enclosed)
Controller	FC4.13

Dimensions








Height	795 mm
Width	602 mm
Depth	298 mm
Installation length	769 mm
Centre distance prim.	120 mm
Centre distance sec.	220 mm
Nominal diameter	DN 25 (1")
Connections	primary: 2" ext. thread secondary: 1 1/4" ext. thread

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Heat exchanger	Solder: copper; Plates + connecting pieces: stainless steel



Tank heat transfer module Maxi - DN 25 (1")		Item no.
	Tank heat transfer module Maxi up to 63 l/min Primary pump: Grundfos UPML 25-105 Secondary pump: Grundfos UPML 25-105 N	6436465




	<p>Service water mixing valve - DN 20</p> <p>The PAW service water mixing valve is used for setting a constant temperature of the water withdrawn from solar or buffer storage tanks between 30 °C and 70 °C. With this valve, the danger of scalding due to hot water from the storage tank is reduced considerably. A must-have for each correctly designed solar thermal system for service water.</p> <p>Housing: Brass, insensitive to calcification, resistant to dezincification Precision of settings: +/- 2 °C Max. operating temperature: 98 °C Max. operating pressure: PN 10 Range of setting: 30-70 °C Withdrawal: 39 l/min (DP = 1.5 bar) Connections: thread connection with ¾" external thread</p>	<p>56311</p>
	<p>Domestic hot water safety group ¾"</p> <p>Safety group for hot water storage tank, with shut-off valve and adjustable check valve. For horizontal installation. With seat made of stainless steel. Brass housing. Chromed. Certified in conformity to EN 1487. Opening pressure 7 bar, max. power 10 kW</p>	<p>563907</p>
	<p>Withdrawal valve</p> <p>Flame-treated valves for sterile withdrawal of water. For the subsequent installation inside the Friwa module, on each piston valve of the domestic hot water circuit.</p>	<p>640422</p>
	<p>Accessory set FriwaMicro</p> <p>3x ball valve DN 15 Authorisation according to DVGW Connection: ¾" ext. thread</p>	<p>64042001</p>
	<p>Accessory set FriwaMidi-Kaskade 2-fold</p>	<p>64042622</p>
	<p>Accessory set FriwaMidi-Kaskade 3-fold</p>	<p>64042632</p>
	<p>Accessory set FriwaMidi-Kaskade 4-fold</p> <p>The accessory set is for cascading of two, three or four identically constructed Friwa modules. The two-way valves are prefitted and can be easily mounted in the cold water line. Due to the short opening time of the valve there is no loss of comfort when connecting or disconnecting of single cascade modules.</p>	<p>64042642</p>
	<p>Accessory set FriwaMaxi-Kaskade 2-fold</p>	<p>64042722</p>
	<p>Accessory set FriwaMaxi-Kaskade 3-fold</p>	<p>64042732</p>
	<p>Accessory set FriwaMaxi-Kaskade 4-fold</p> <p>The accessory set is for cascading of two, three or four identically constructed Friwa modules. The two-way valves are prefitted and can be easily mounted in the cold water line. Due to the short opening time of the valve there is no loss of comfort when connecting or disconnecting of single cascade modules.</p>	<p>64042742</p>
	<p>Accessory set FriwaMega-Kaskade 2-fold</p>	<p>64042820</p>
	<p>Accessory set FriwaMega-Kaskade 3-fold</p>	<p>64042830</p>
	<p>Accessory set FriwaMega-Kaskade 4-fold</p> <p>The accessory set serves for cascading two, three or four identically constructed domestic hot water modules. The two-way valves are prefitted and can be easily mounted in the cold water line. Thanks to the short opening time of the valve, there is no loss of comfort when connecting or disconnecting of single cascade modules.</p>	<p>64042840</p>



	<p>Circulation set for FriwaMidi/Maxi</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPM3 15-70 CIL3 - with piston valve and non-return valve <p>Connection: 1" ext. thread</p>	<p>6404123</p>
	<p>Circulation set for internal retrofitting of FriwaMega</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPML 25-105 N - with piston valve and non-return valve <p>Connection: 1¼" ext. thread</p>	<p>6404135GH10</p>
	<p>Circulation set for internal retrofitting for FriwaMini FC3.10</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPM4 15-70 CIL3 - with piston valve and non-return valve <p>Connection: 1" ext. thread</p>	<p>6404111</p>
	<p>Circulation set for Friwa-Kaskade (Midi, Maxi, Mega) and for tank heat transfer module Midi, Maxi</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPM4 15-70 CIL3 - - with piston valves, non-return valve and draining <p>Connection: 1" ext. thread</p>	<p>6404136GM7</p>
	<p>Circulation set for Friwa-Kaskade (Midi, Maxi, Mega) and for tank heat transfer module Midi, Maxi</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPML 25-105 N - with piston valves, non-return valve and draining <p>Connection: 1½" ext. thread</p>	<p>6404136GH10</p>



	<p>Circulation set for Friwa-Kaskade (Maxi/Mega-Kaskade)</p> <ul style="list-style-type: none"> - with high-efficiency pump Grundfos UPMXL 25-125 N - with piston valves, non-return valve and draining <p>Connection: 1½" ext. thread</p>	<p>6404136GH12</p>
	<p>Return distribution set for FriwaMaxi, tank heat transfer module Maxi - DN 32</p> <p>3-way valve with actuator, setting time for 90°: 35 sec., Kvs value: 16 3 x 1½" int. thread</p>	<p>640424</p>
	<p>Return distribution set for FriwaMidi/Maxi-Kaskade, FriwaMega, SolexMega HZ - DN 40</p> <p>3-way valve with actuator, setting time for 90°: 35 sec., Kvs value: 25 3 x 1½" int. thread</p>	<p>6404242</p>
	<p>Return distribution set 2" int. thread - DN 50 (2")</p> <p>3-way valve with actuator, setting time for 90°: 35 sec., Kvs value: 40 3 x 2" int. thread</p>	<p>6404244</p>
	<p>Pipe set for FriwaMini-Kaskade</p> <p>Insulated pipe set for cascading of two Friwa modules (item no. 6401510)</p> <ul style="list-style-type: none"> - with 2 two-way valves for switching - with mounting rail for an easy wall assembly 	<p>64042933</p>
	<p>Pipe set for FriwaMidi-Kaskade</p> <p>Insulated pipe set for cascading of two Friwa modules (item no. 6405511)</p> <ul style="list-style-type: none"> - with 2 two-way valves for switching - with mounting rail for an easy wall assembly 	<p>64042943</p>
	<p>Pipe set for FriwaMaxi-Kaskade</p> <p>Insulated pipe set for cascading of two Friwa modules (item no. 6406511)</p> <ul style="list-style-type: none"> - with 2 two-way valves for switching - with mounting rail for an easy wall assembly 	<p>64042953</p>
	<p>Pipe set for FriwaMega-Kaskade</p> <p>Insulated pipe set for cascading of two Friwa modules (item no. 6407511)</p> <ul style="list-style-type: none"> - with two 2-way valves for switching 	<p>64042963</p>
	<p>WiFi3.10 Internet Gateway Module</p> <p>Communication module to connect PAW systems with domestic hot water controllers FC3.10 with the Internet visualisation platform emodul.eu.</p> <p>The communication module WiFi3.10 is connected to the FC3.10 master via the integrated RS interface. The system specific data points are transmitted wirelessly to the platform emodul.eu via a router provided by the customer.</p> <p>An Internet access is required. Exclusive integration into the network structure provided by the customer.</p> <p>Consists of controller WiFi3.10, power supply unit, RS bus cable, instructions</p> <p>Operating voltage: 115-230 V/50-60 Hz Protection type: IP 20</p>	<p>1339003</p>

	<p>MB3.10</p> <p>Communication module to integrate PAW systems with domestic hot water controllers FC3.10 or solar controllers SC3.10 into superior systems with Modbus RTU interface.</p> <p>The communication module consists of two separate Modbus interfaces. The RS485 interface is connected with the master controller FC3.10 or SC3.10 of the PAW system.</p> <p>The communication module provides the superior Modbus server with the data via the Modbus RTU interface. All inputs and outputs of the connected controllers are available as readable data points.</p>	<p>1339002</p>
	<p>2-way zone valve - DN 25 (1") for tank heat transfer module Midi</p> <p>for connecting and disconnecting single storage tanks, DN 25, 1" int. thread, setting time for 90°: 30 sec., Kvs value = 68</p>	<p>563542</p>
	<p>2-way zone valve - DN 32 (1¼") for tank heat transfer module Maxi</p> <p>for connecting and disconnecting single storage tanks, DN 32, 1¼" internal thread, setting time for 90°: 30 sec., Kvs value = 123</p> <p>3-way valve PV3 - DN 25 (1")</p> <p>3-way valve PV3 with union nut - DN 25 (1")</p> <p>Can be used in solar and heating installations, to switch between different zones or to connect and disconnect different parts of the system.</p> <p>The actuator is equipped with a relay which is actuated by a 2-point signal, if needed, it can also be manually operated.</p> <p>The 3-way zone PV3 valve can be operated in both directions.</p> <p>Power supply: 230 V - 50 Hz Power consumption: 5 Nm Setting time 90°: 13 s Kvs value: 15.5</p>	<p>563552</p> <p>5675431</p> <p>5675432</p>