

SMART HEAT PUMPS

Intelligent and highly efficient
Air/water system for heating and cooling



Issue 2020



REMKO THE SYSTEM PROVIDER

About REMKO

REMKO is a globally active company for heating and air-conditioning technology. Our highly efficient product range comprises hot air heating systems, dehumidifiers, air-conditioning systems and air-conditioners, as well as future-looking heat pumps. Since 1976, we have grown consistently with the requirements of our customers as a medium-sized company. Extensive experience, innovative product development and reliable service are our strengths when it comes to needs-based solutions in the areas of heating, air-conditioning and dehumidifying.

Services

With our CheckServ offering and a well-developed network of qualified expert partners, we guarantee competent consultation and reliable support. From planning to installation and subsequent maintenance, we are available to our customers as a reliable contact partner at all times. If a malfunction occurs, our emergency service team is happy to help.

Our quality claim

With our products, we do not orient ourselves on existing solutions, but rather we develop and implement our own innovative technical concepts. In the process, our high quality standards for our products has been the foundation of REMKO's success for over 40 years. In cooperation with recognised testing institutes, all REMKO products are tested on our in-house test stands according to the latest European standards. Certificates confirm our sustainable quality assurance system.

Spare part service

In addition to accessory articles, REMKO offers spare parts for all its products that the customer can order conveniently online. The spare part search can also be used to find spare parts for older models. The quickest possible delivery is naturally part of the service provided by REMKO.

<https://www.remko.de/en/spare-part-search/>



AIR-CONDITIONING

Air-conditioners
Chilled water air-conditioning systems



HEAT

Mobile hot air heating systems
Stationary hot air heating systems



NEW ENERGIES

Heat pumps
Modular power houses



DEHUMIDIFICATION

Dehumidifiers
High-performance fans



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MODERNE INVERTER TECHNOLOGY

Highly efficient and energy-saving

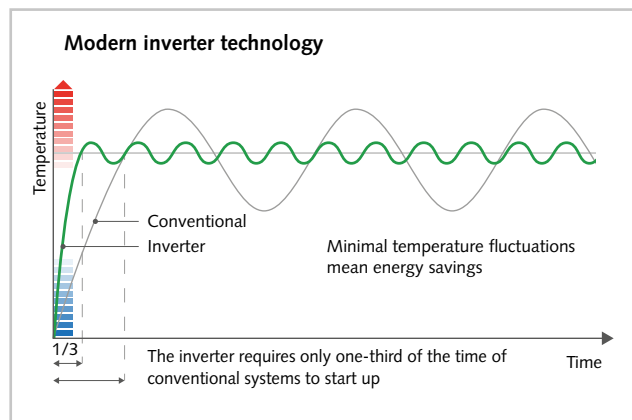
The REMKO inverter technology saves money.

The REMKO Smart-WP represents a decision for a state-of-the-art solution. Modern inverter technology makes this possible.

This pioneering technology automatically adapts the condenser speed variably to the precise cooling or heating requirement. This exact and gentle regulation enables a particularly energy saving, efficient operation with a high seasonal performance factor in comparison to non-inverter systems.

In summary:

In the event of increased demand, the heat pump works more intensively, in the event of reduced demand the heat pump switches over to energy-saving mode.



WKF series

The advantages of a heat pump are clear

In contrast to other heating systems, the acquisition costs for a heat pump in new or old buildings pays off relatively quickly.

- Lower consumption and operating costs
- Hardly any maintenance costs
- No costs for chimney and chimney sweep
- No costs for a tank
- No costs for a tank room
- Simple installation

New dimensions in terms of independence

The solar energy stored in the air is an inexhaustible source of emission-free power. Heat pumps draw the majority of the energy from the surrounding air. This works even in winter with outside temperatures below zero. Only the drive energy has to be provided by electrical power.



WKF-compact series
Additionally with integrated
300 l domestic water tank
Everything in a single unit.



Free choice when installing the outdoor units

You save a lot of space when installing the outdoor units externally. You can use the basement space for other purposes such as a party room or sauna. Outdoor installation is ideal for buildings without a basement.



Noise protection for demanding areas of application

The noise insulation hood is used especially in regions with high requirements on noise emissions. Due to the patented construction and noise-insulating effect of the EPP-polypropylene material, an effective noise reduction is achieved through air deflection. For further product information, see ARTdesign noise protection hoods



SMART HEAT PUMPS

Heat pumps that adapt themselves to any system



Effective domestic water preparation

An integrated 300-litre domestic water tank with a large-dimension heat exchanger is built into the unit in the case of the WKF-compact series. For the WKF series, external storage systems are available.

Combination with floor heating, modern radiators and wall heaters

Heat pumps achieve their highest efficiency in connection with floor heating. This means that cosy heating is guaranteed even at lower outside temperatures.

Combination with tank systems

The interface and collection point for all kinds of energy systems

– tanks are available in various designs and sizes. With connection options for heat pump, solar system, solid material boiler, and domestic water preparation, the storage system is the interface and collection point.

Combination with a REMKO RSK solar system for economical domestic water preparation and heating support

An ideal combination for maximum economic efficiency and environmental protection. Direct solar energy delivers a high percentage of hot water preparation in annual average.

Optimised use of photovoltaic current

The REMKO Smart-WP can preferably be operated using self-generated photovoltaic current. As a result, not as much expensive current has to be obtained from the mains. This saves money and the dependency on current price increases decreases.

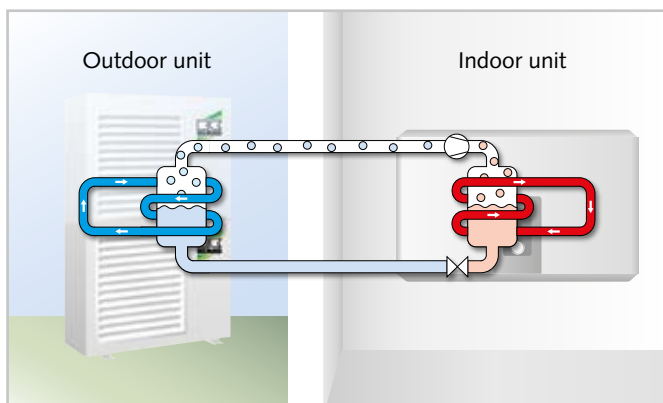
Combination with heat generators in bivalent operation

The heat pump can be combined with a heat generator in order to cover peak loads. This appliance, for example, can be a gas or oil condensing boiler that can be directly connected to the WKF indoor unit.



Heat pump technology

The technology of the heat pump is similar to that of a refrigerator - only the principle is reversed. The heat extracted from the air is brought up to a higher temperature level in a refrigerant circuit and is then transferred to the heating water in the indoor unit.



Function of indoor unit

The heat coming into the refrigerant circuit from the outside is brought to a higher temperature level by the condenser and transferred to the heating water in the indoor unit. In order to cool, the function of the heat pump is simply reversed.

Function of outdoor unit

The outdoor unit extracts heat from the air. This heat is transferred to the refrigerant and conducted to the indoor unit. The fan speed adapts to the precise cooling or heating requirement.

REMKO SMART-CONTROL TOUCH

The intelligent control



Remote control



REMKO SMART-CONTROL TOUCH

The future is smart

The intuitive controller software with a plain-text menu and 4.3" touch display. Connection to all regenerative energies is possible. Whether heat pumps, solar energy, or photovoltaics, anything can be integrated. Use in a Smart-Grid or Smart Home system, such as KNX, is possible.

The controller offers extensive setting possibilities

- Graphic representation of the heating curve
- Representation of the refrigeration circuit
- Smart-Web function
- Control of two mixed and one non-mixed heating circuits
- Dew point control with separate sensors in living spaces
- Smart Heating/Cooling function
- External data memory in I/O module

- Installed in the indoor unit
- Integration of photovoltaic current into the system
- Solar connection
- Connection to several heat generators
- 2 mixed heating circuits
- 1 non-mixed heating circuit
- Integration of air-conditioning function into the system
- All circuits with activatable cooling function
- Dynamic hygiene function
- Integration into a Smart-Home system
- Internet integration via the Smart-Web portal
- WLAN
- 4.3" touch display



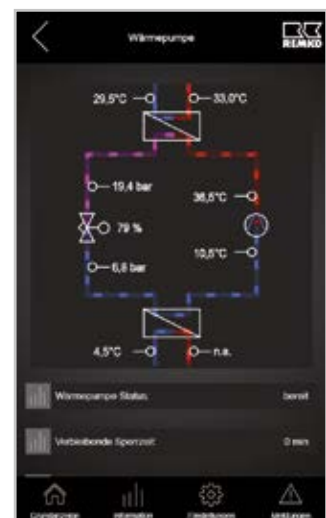
Smart-Com for integration into a Smart Home system



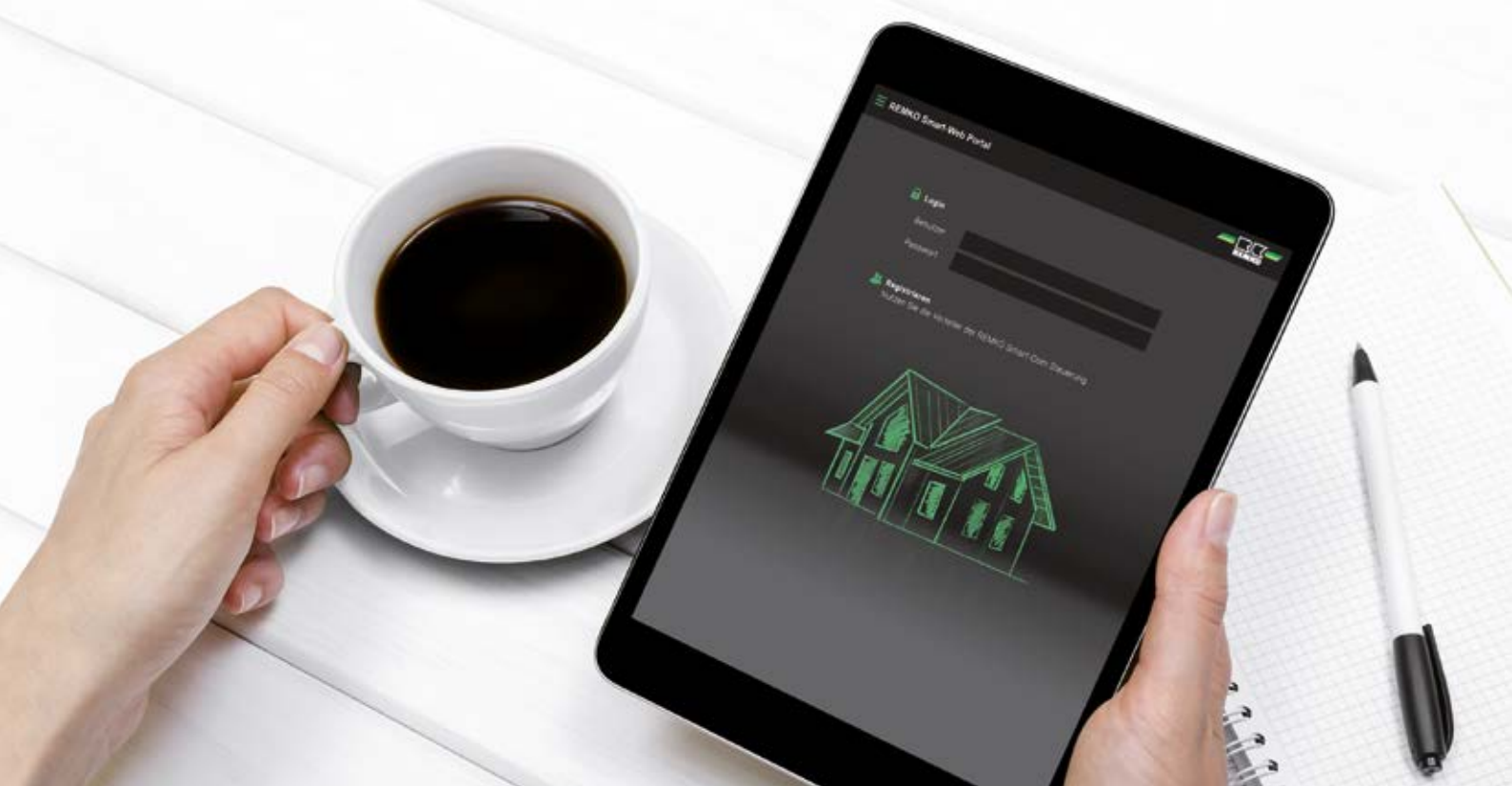
Remote control via the Internet with Smart-Web



Graphic representation of the heating curve



Representation of the refrigeration circuit



REMKO SMART-WEB

The expansion module for external control

REMKO Smart-Web permits the control of the REMKO heat pumps from outside of the unit location. From the free REMKO Smart-Web portal, all operating statuses or heat pump settings can be viewed or changed comfortably by computer, tablet or smartphone. A prerequisite for the use of REMKO Smart-Web is an Internet connection at the unit location and the REMKO Smart-Control control system on site.

Profit from these advantages

- Visualisation of the Smart-Control user interface from the living room or technical headquarters
- Available around the clock
- Platform-independent
- Internet connection to the REMKO Smart-Web portal, resulting in an easy setup of the overall system
- Plant and data analysis possible
- Reduction of unnecessary on-site deployments
- Access rights that can be individual administered by the operator, e.g., for installers, REMKO Customer Service, etc.
- Fast and convenient remote setting
- Special requirements or setup of the router are not necessary
- Fault message through the REMKO Smart-Web portal by e-mail

REMKO SMART-WEBPORTAL

Central unit for REMKO heat pumps

With the new REMKO Smart-Web portal, the operator or installer has the option to manage several REMKO heat pumps equipped with the REMKO Smart-Web expansion module. On the "smart-web.remko.media" Internet page, the operator can register free of cost and enable the REMKO Smart-Web-compliant unit. You can even enable several users for one REMKO heat pump – the installer or even the REMKO Customer Service, for example, can therefore access the power house by computer, tablet or smartphone.



Remote control via the Internet
Smart-Web



Service by remote maintenance

REMKO WKF NEO COMPACT SERIES

Smart heat pumps



**SPECIAL
EDITION**

REMKO WKF NEO COMPACT SERIES

The compact class saves space and installation effort

The WKF NEO compact series does not require a large mounting area due to its compact construction and integrated components. In connection with underfloor heating, this unit is perfectly suited for new buildings. This construction saves space in the mounting area. The costs for installation are strongly reduced by the high percentage of premounted components.

Profit from these advantages

- Low spatial requirements in utility room
- Low investment costs
- Flow temperatures up to 55 °C
- Power-modulated operation due to modern inverter mode
- Low operating costs due to high COP value (see technical data)
- Ready for connection of solar system to domestic water supply
- Night operation to reduce noise
- Heating and cooling
- Mounting-friendly installation All connections from the top.
- High hot-water comfort due to integrated, enamelled domestic water tank with a volume of 200 or 300 litres
- Smart-Control intelligent control system – use in intelligent Smart-Grid power mains possible
- Technical unit handover by REMKO Technical Service possible
- Integrated heating circuit pump for the supply of the heating system
- Integrated electronic bypass valve for guaranteeing the minimum volume flow rate
- Intelligent thawing logic circuit
- Monoenergetic operation through REMKO Smart-Serv
- Chimney sweep function
- Wi-Fi ready



Scope of supply

- REMKO Smart-Control Touch – the intelligent control system
- Indoor unit with highly-efficient domestic water tank
- Outdoor unit with inverter technology
- Highly efficient, controlled heating circuit pump
- Outdoor probe/immersion probe
- Smart-Serv, built-in heating rod 6 kW
- Built-in industrial water set, including 3-way switchover valve
- Built-in dirt filter 1"
- Built-in electrically controlled bypass mixer
- Prepared (flange) for solar domestic water heating



Technical data

Area of use: heating ⁵⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70 Neo compact	WKF 120 Neo compact	WKF 180 Neo compact
Design		Singlesplit	Singlesplit	Singlesplit
System		Air/water	Air/water	Air/water
Operating mode		Heating/hot water/ cooling	Heating/hot water/ cooling	Heating/hot water/ cooling
Inverter technology		Series	Series	Series
Smart-Control Touch		Series	Series	Series
Preparation for domestic water		Series	Series	Series
Integrated domestic water tank EWS 200-E/EWS 301-E (enamelled)	Litre	200/300	200/300	200/300
Number of indoor units/outdoor units		1/1	1/1	1/1
Night operation (power control)		Series	Series	Series
Service limits, heating		°C	-20 to +35	-20 to +35
Rated heating capacity (min. - max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Energy efficiency rating for heating ⁴⁾		A++ / A++	A++ / A+	A++ / A++
Rated heating capacity / COP for A7/W35 ¹⁾	kW / -	5.45 / 4.6	9.86 / 4.4	14.02 / 4.5
Rated heating capacity / COP for A2/W35 ¹⁾	kW / -	4.61 / 3.5	6.95 / 3.6	9.32 / 3.5
Rated heating capacity / COP for A-7/W35 ¹⁾	kW / -	4.50 / 2.8	6.14 / 2.9	8.20 / 2.9
Max. supply temperature, heating water	°C	+ 55	+ 55	+ 55
Service limits, cooling		°C	+15 to + 45	+15 to + 45
Rated cooling capacity (min. - max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Rated cooling capacity / EER for A35/W7 ¹⁾	kW / -	4.90 / 2.8	6.79 / 2.3	12.20 / 2.6
Rated cooling capacity / EER for A35/W18 ¹⁾	kW / -	6.70 / 3.6	5.30 / 3.7	12.77 / 3.8
Rated cooling capacity / EER for A27/W18 ¹⁾	kW / -	6.80 / 3.9	9.46 / 3.6	18.20 / 4.1
Min. supply temperature, cooling water	°C	+ 7	+ 7	+ 7
Refrigerant ²⁾		R410A	R410A	R410A
Basic refrigerant filling volume / CO ₂ equivalent	kg/t	1.2 / 2.5	2.0 / 4.2	2.85 / 5.8
Refrigerant connections	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Max. refrigerant line length	m	30	50	75
Max. refrigerant line height	m	20	30	30
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	400/3~/50
Rated power consumption for A7/W35	kW	1.18	2.22	3.09
Rated current consumption for A7/W35	A	5.19	10.44	5.02
Rated flow rate of water at Δt 5 K	m ³ /h	0.95	1.7	2.4
External maximum pressure loss (heating system)	kPa	80	80	80
Hydraulic connection, inlet flow/return line, flat-sealing	Inch	1¼" AG	1¼" AG	1¼" AG
Pipeline diameter to be used on site, CU pipe	mm	28	28	35
Rated sound pressure level L _{pA} (outdoor unit) rated/min.	dB(A)	38/37	42/41	42/42
Rated sound power level L _{wA} (outdoor unit) rated/min.	dB(A)	63/60	67/64	68/64
Dimensions of indoor unit, height/width/depth (200 l)	mm	1350/555/860	1350/555/860	1350/555/860
Dimensions of indoor unit, height/width/depth (300 l)	mm	1420/650/960	1420/650/960	1420/650/960
Dimensions of outdoor unit, height/width/depth	mm	640/880/310	1010/940/330	1430/940/330
Weight indoor unit/outdoor unit (200 l)	kg	131/50	133/74	135/100
Weight indoor unit/outdoor unit (300 l)	kg	154/50	156/74	158/100
With domestic water tank EWS 200-E incl. Smart-Control Touch				
Outdoor unit in white				
Ref. no.		258070	258120	258180
With domestic water tank EWS 200-E incl. Smart-Control Touch				
S-Line outdoor unit in silver, similar RAL 9006				
Ref. no.		258072	258122	258182
With domestic water tank EWS 301-E incl. Smart-Control Touch				
Outdoor unit in white				
Ref. no.		258080	258130	258190
With domestic water tank EWS 301-E incl. Smart-Control Touch				
S-Line outdoor unit in silver, similar RAL 9006				
Ref. no.		258082	258132	258192

¹⁾ COP / EER according to EN 14511 ²⁾ GWP = 2088 ³⁾ Distance 5 m, full sphere, A7/W55

⁴⁾ Average, composite system W35/55 °C incl. Smart-Control

⁵⁾ Total heating requirement, intake flow line 35 °C, monoenergetic

REMKO WKF-COMPACT SERIES

Smart heat pumps



REMKO WKF-COMPACT SERIES

The compact class saves space and installation effort

WKF-compact series does not require a large mounting area due to its compact construction and integrated components. In connection with underfloor heating, this unit is perfectly suited for new buildings. This construction saves space in the mounting area. The costs for installation are reduced by the high percentage of premounted components.

Profit from these advantages

- Low investment costs
- Power-modulated operation due to modern inverter mode
- Low operating costs due to high COP value (see technical data)
- Ready for connection of solar system to domestic water supply
- Mounting-friendly installation; all connections are located at the top
- Heating and cooling
- High hot-water comfort due to integrated, enamelled WKT 300 domestic water tank with a volume of 300 litres
- Extremely low heating losses of the WKT 300 domestic water tank (BEVB 1.19 kWh/day)
- Electric booster heating 49 W
- Smart-Control intelligent control system – use in intelligent Smart-Grid power mains possible
- Technical unit handover by REMKO Technical Service possible
- Integrated heating circuit pump for the supply of the heating system
- Integrated electronic bypass valve for guaranteeing the minimum volume flow rate
- Intelligent thawing logic circuit
- Monoenergetic operation possible through REMKO Smart-Serv or bivalent operation possible through REMKO Smart-BVT
- Night operation to reduce noise
- WI-FI ready



Scope of supply

- REMKO Smart-Control – The intelligent control system
- Indoor unit with highly efficient, enamelled domestic water tank, 300 l (BEVB 1.19 kWh/day)
- Outdoor unit with inverter technology
- Highly efficient, controlled heating circuit pump
- Industrial water set, including 3-way changeover valve
- Dirt filter 1"
- 2 shut-off valves 1"
- Safety group with SIV, automatic bleeding valve and pressure gauge
- Outdoor probe/immersion probe
- Electrically controlled bypass mixer
- Prepared (flange) for solar domestic water heating

Technical data

Area of use: heating ⁵⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70 compact	WKF 120 compact	WKF 180 compact
Design		Singlesplit	Singlesplit	Singlesplit
System		Air/water	Air/water	Air/water
Operating		Heating/cooling	Heating/cooling	Heating/cooling
Testing		EHPA	EHPA	EHPA
Inverter technology		Series	Series	Series
Smart Control		Series	Series	Series
Preparation for domestic water		Series	Series	Series
Domestic water tank WKT 300 (enamelled) integrated	Litre	300	300	300
Heat exchanger area, domestic water tank	m ²	3.5	3.5	3.5
Number of indoor units/outdoor units		1/1	1/1	1/1
Night operation (power control)		Series	Series	Series
Service limits, heating	°C	-20 to +35	-20 to +35	-20 to +35
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Energy efficiency rating for heating ⁴⁾		A++ / A++	A++ / A+	A++ / A++
Rated heating capacity / COP for A7/W35 ¹⁾	kW / -	5.45 / 4.6	9.86 / 4.4	14.02 / 4.5
Rated heating capacity / COP for A2/W35 ¹⁾	kW / -	4.61 / 3.5	6.95 / 3.6	9.32 / 3.5
Rated heating capacity / COP for A-7/W35 ¹⁾	kW / -	4.50 / 2.8	6.14 / 2.9	8.20 / 2.9
Max. supply temperature, heating water	°C	+ 55	+ 55	+ 55
Service limits, cooling	°C	+15 to + 45	+15 to + 45	+15 to + 45
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Rated cooling capacity / EER for A35/W7 ¹⁾	kW / -	4.90 / 2.8	6.79 / 2.3	12.20 / 2.6
Rated cooling capacity / EER for A35/W18 ¹⁾	kW / -	6.70 / 3.6	5.30 / 3.7	12.77 / 3.8
Rated cooling capacity / EER for A27/W18 ¹⁾	kW / -	6.80 / 3.9	9.46 / 3.6	18.20 / 4.1
Min. supply temperature, cooling water	°C	+ 7	+ 7	+ 7
Refrigerant ²⁾		R410A	R410A	R410A
Basic refrigerant filling volume / CO ₂ equivalent	kg/t	1.2 / 2.5	2.0 / 4.2	2.85 / 5.8
Refrigerant connections	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
Max. refrigerant line length	m	30	50	75
Max. refrigerant line height	m	20	30	30
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	400/3~/50
Nominal power consumption for A7/W35	kW	1.18	2.22	3.09
Rated current consumption for A7/W35	A	5.19	10.44	5.02
On-site fuse protection (outdoor unit)	A slow act.	20	20	3x16
Rated flow rate of water at Δt 5 K	m ³ /h	0.95	1.7	2.4
External maximum pressure loss (heating system)	kPa	80	80	80
Max. operating pressure, water	bar	3.0	3.0	3.0
Hydraulic connection, inlet flow/return line, flat-sealing	Inch	1 1/4" AG	1 1/4" AG	1 1/4" AG
Pipeline diameter to be used on site, CU pipe	mm	28	28	35
Sound power level L _{WA} (outdoor unit) rated	dB(A)	63.2	67.9	68.3
Sound pressure level L _{pA} rated ³⁾	dB(A)	38.2	42.9	42.3
Max. sound pressure level L _{pA} (outdoor unit), night operation max. ³⁾	dB(A)	38.0	41.0	42.0
Outdoor unit, standard colour		grey-white	grey-white	grey-white
Dimensions indoor unit height/width/depth	mm	1928/800/790	1928/800/790	1928/800/790
Dimensions outdoor unit height/width/depth	mm	640/880/310	1010/940/330	1430/940/330
Weight indoor unit/outdoor unit	kg	236/50	238/74	240/100
Ref. no.		254030	255020	255030
S-Line outdoor unit in silver				
Ref. no.		254040	255025	255035

¹⁾ COP / EER according to EN 14511 ²⁾ GWP = 2088 ³⁾ Distance 5m, full sphere, A7/W55

⁴⁾ Average, composite system W35/55 °C including Smart Control

⁵⁾ Total heating requirement, flow 35 °C, monoenergetic

Accessories

Unit type	WKF 70 compact	WKF 120 compact	WKF 180 compact
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO Smart-Serv installed heating rod 9 kW for monoenergetic operation, including emergency heating functions	254059	259022	259023
Note: No combination with REMKO Smart-BVT possible.			
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254050	259012	259013
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

REMKO WKF SERIES

Smart heat pumps



REMKO WKF SERIES

It couldn't be simpler. Everything complete in an indoor unit

Everything is installed in a single housing: Highly efficient circulation pump, heat exchanger, various fittings, and the Smart-Control control system. In connection with existing tank systems, the WKF Duo series is perfect for new buildings and renovations.



Profit from these advantages

- Low investment costs
- Smart-Inverter power-modulated mode for cost savings
- Low operating costs due to high COP value (see technical data)
- Heating and cooling
- Mounting-friendly installation All connections from the top.
- Night operation to reduce noise
- Smart-Control intelligent control system – use in intelligent Smart-Grid power mains possible
- Technical unit handover by REMKO Technical Service possible
- Monoenergetic operation possible through REMKO Smart-Serv or bivalent operation possible through REMKO Smart-BVT
- Chimney sweep function
- WI-FI ready

Scope of supply

- REMKO Smart-Control – The intelligent control system
- Indoor unit
- Outdoor unit with inverter technology
- Highly efficient, controlled heating circuit pump
- Dirt filter 1"
- 2 shut-off valves 1"
- Safety group with SIV, automatic bleeding valve and pressure gauge
- Outdoor probe/immersion probe
- Electrically controlled bypass mixer

Technical data

Area of use: heating ⁵⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Design		Singlesplit	Singlesplit	Singlesplit
System		Air/water	Air/water	Air/water
Operating		Heating/Cooling	Heating/Cooling	Heating/Cooling
Testing		EHPA	EHPA	EHPA
Inverter-Technik		Series	Series	Series
Smart Control		Series	Series	Series
Preparation for domestic water		Series	Series	Series
Domestic water tank WKT 300 (enamelled) integrated		–	–	–
Heat exchanger area, domestic water tank		m ²	–	–
Number of indoor units/outdoor units		1/1	1/1	1/1
Night operation (power control)		Series	Series	Series
Service limits, heating		°C	-20 to +35	-20 to +35
Rated heating capacity (min. / max.)		kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)
Energy efficiency rating for heating ⁴⁾			A++ / A++	A++ / A++
Rated heating capacity / COP for A7/W35 ¹⁾		kW / -	5.46 / 4.6	9.86 / 4.4
Rated heating capacity / COP for A2/W35 ¹⁾		kW / -	4.61 / 3.5	6.95 / 3.6
Rated heating capacity / COP for A-7/W35 ¹⁾		kW / -	4.50 / 2.8	6.14 / 2.9
Max. supply temperature, heating water		°C	+ 55	+ 55
Service limits, cooling		°C	+15 to + 45	+15 to + 45
Rated cooling capacity (min. / max.)		kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)
Rated cooling capacity / EER for A35/W7 ¹⁾		kW / - ²⁾	4.90 / 2.8	6.79 / 2.3
Rated cooling capacity / EER for A35/W18 ¹⁾		kW / - ²⁾	6.70 / 3.6	5.30 / 3.7
Rated cooling capacity / EER for A27/W18 ¹⁾		kW / - ²⁾	6.80 / 3.9	9.46 / 3.6
Min. supply temperature, cooling water		°C	+ 7	+ 7
Refrigerant ²⁾			R410A	R410A
Basic refrigerant filling volume / CO ₂ equivalent		kg/t	1.2 / 2.5	2.0 / 4.2
Refrigerant connections		Inch	3/8 / 5/8	3/8 / 5/8
Max. refrigerant line length		m	30	50
Max. refrigerant line height		m	20	30
Voltage supply		V/Ph/Hz	230/1~/50	230/1~/50
Nominal power consumption for A7/W35		kW	1.18	2.22
Rated current consumption for A7/W35		A	5.19	10.44
On-site fuse protection (outdoor unit)		A slow act.	20	20
Rated flow rate of water at Δt 5 K		m ³ /h	0.95	1.7
External maximum pressure loss (heating system)		kPa	80	80
Max. operating pressure, water		bar	3.0	3.0
Hydraulic connection, inlet flow/return line, flat-sealing		Inch	1 1/4" AG	1 1/4" AG
Pipeline diameter to be used on site, CU pipe		mm	28	35
Sound power level L _{WA} (outdoor unit) rated		dB(A)	63.2	67.9
Sound pressure level L _{pA} rated ³⁾		dB(A)	38.2	42.9
Max. sound pressure level L _{pA} (outdoor unit), night operation max. ³⁾		dB(A)	38.0	41.0
Outdoor unit, standard colour			grey-white	grey-white
Dimensions indoor unit height/width/depth		mm	500/800/500	500/800/500
Dimensions outdoor unit height/width/depth		mm	640/880/310	1010/940/330
Weight indoor unit/outdoor unit		kg	41/47.5	43/74
Ref. no.			254010	255050
S-Line outdoor unit in silver				255060
Ref. no.			254020	255055
				255065

¹⁾ COP / EER according to EN 14511 ²⁾ GWP = 2088 ³⁾ Distance 5m, full sphere, A7/W55

⁴⁾ Average, composite system W35/55 °C including Smart Control

⁵⁾ Total heating requirement, flow 35 °C, monoenergetic

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO Smart-Serv installed heating rod 9 kW for monoenergetic operation, including emergency heating functions	254060	259025	259026
Note: No combination with REMKO Smart-BVT possible.			
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

REMKO WKF DUO SERIES

Smart heat pumps



REMKO WKF DUO SERIES

It couldn't be simpler. Everything complete in an indoor unit

Everything is installed in a single housing: Two highly efficient circulation pumps, two heat exchangers, various fittings, and the Smart-Control control system. In connection with existing tank systems, the WKF Duo is perfect for new buildings and renovations.



Scope of supply

- REMKO Smart-Control – The intelligent control system
- Indoor unit
- 2 outdoor units with inverter technology
- 2 highly efficient, controlled heating circuit pump
- Dirt filter 1"
- 2 shut-off valves 1"
- Safety group with SIV, automatic bleeding valve and pressure gauge
- Outdoor probe/immersion probe
- Electrically controlled bypass mixer

Profit from these advantages

- Low investment costs
- Smart-Inverter power-modulated mode. This saves money
- Low operating costs due to high COP value (see technical data)
- Heating and cooling
- Mounting-friendly installation All connections from the top.
- Smart-Control intelligent control system – use in intelligent Smart-Grid power mains possible
- Technical unit handover by REMKO Technical Service possible
- Monoenergetic operation through REMKO Smart-Serv
- Night operation to reduce noise
- Chimney sweep function
- Bivalently alternating operation using Smart-BVT externally
- WI-FI ready

Technical data

Area of use: heating ⁵⁾		18-25 kW	25-32 kW
Unit type		WKF 120 Duo	WKF 180 Duo
Design		Duo Split	Duo Split
System		Air/water	Air/water
Operating		Heating/cooling	Heating/cooling
Testing		EHPA	EHPA
Inverter technology		Series	Series
Smart Control		Series	Series
Preparation for domestic water		Series	Series
Domestic water tank (enamelled) integrated		-	-
Heat exchanger area, domestic water tank	m ²	-	-
Number of indoor units/outdoor units		1/2	1/2
Night operation (power control)		Series	Series
Service limits, heating	°C	-20 to +35	-20 to +35
Rated heating capacity (min. / max.)	kW	18.0 (2.5 - 25.0)	29.0 (3.1 - 35.4)
Energy efficiency rating for heating ⁴⁾		A++ / A+	A++ / A++
Rated heating capacity / COP for A7/W35 ¹⁾	kW / -	19.72 / 4.4	28.04 / 4.5
Rated heating capacity / COP for A2/W35 ¹⁾	kW / -	13.90 / 3.6	18.64 / 3.5
Rated heating capacity / EER for A-7/W35 ¹⁾	kW / -	12.28 / 2.9	16.40 / 2.9
Max. supply temperature, heating water	°C	+ 55	+ 55
Service limits, cooling	°C	+15 to + 45	+15 to + 45
Rated cooling capacity (min. / max.)	kW	13.0 (3.3 - 23.8)	24.0 (5.5 - 28.0)
Rated cooling capacity / EER for A35/W7 ¹⁾	kW / -	13.58 / 2.3	24.40 / 2.6
Rated cooling capacity / EER for A35/W18 ¹⁾	kW / -	10.60 / 3.7	25.54 / 3.8
Rated cooling capacity / EER for A27/W18 ¹⁾	kW / -	18.92 / 3.6	36.40 / 4.1
Min. supply temperature, cooling water	°C	+ 7	+ 7
Refrigerant ²⁾		R410A	R410A
Basic refrigerant filling volume for each outdoor unit / CO ₂ equivalent	kg/t	2.0 / 4.2	2.85 / 5.8
Refrigerant connections for each outdoor unit	Inch	3/8 / 5/8	3/8 / 5/8
Max. refrigerant line length per outdoor unit	m	50	75
Max. refrigerant line height per outdoor unit	m	30	30
Voltage supply for each outdoor unit	V/Ph/Hz	230/1~/50	400/3~/50
Nominal power consumption for A7/W35	kW	2 x 2.22	2 x 3.09
Rated current consumption for A7/W35	A	2 x 10.44	2 x 5.02
On-site fuse protection (outdoor unit)	A slow act.	2 x 20	6 x 16
Rated flow rate of water at Δt 5 K	m ³ /h	2 x 1.7	2 x 2.4
External maximum pressure loss (heating system)	kPa	80	80
Max. operating pressure, water	bar	3.0	3.0
Hydraulic connection, supply/return line	Inch	1 1/2" AG	1 1/2" AG
Pipeline diameter to be used on site, CU pipe	mm	42	42
Sound power level L _{WA} (per outdoor unit) rated	dB(A)	67.9	68.3
Sound power level L _{WA} (per outdoor unit) rated ³⁾	dB(A)	42.2	42.3
Max. sound pressure level L _{pA} (per outdoor unit), night operation max. ³⁾	dB(A)	41.0	42.0
Outdoor unit, standard colour		grey-white	grey-white
Dimensions indoor unit height/width/depth	mm	1000/800/500	1000/800/500
Dimensions outdoor unit height/width/depth	mm	1010/940/330	1430/940/330
Weight indoor unit/outdoor unit	kg	78 / 2 x 74	82 / 2 x 100
Ref. no.		255063	255070
S-Line outdoor unit in silver			
Ref. no.		255064	255075

¹⁾ COP / EER according to EN 14511

²⁾ GWP = 2088

³⁾ Distance 5m, full sphere, A7/W55

⁴⁾ Average, composite system W35/55 °C including Smart Control

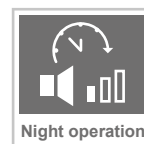
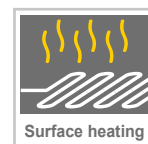
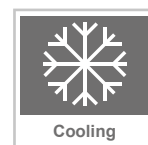
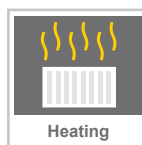
⁵⁾ Total heating requirement, flow 35°C, monoenergetic

Accessories

Unit type	WKF 120 Duo	WKF 180 Duo
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
REMKO SmartServ , installed heating rod 9 kW for monoenergetic operation, including emergency heating functions.	259029	259027
Note: No combination with REMKO Smart-BVT possible.		
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259086	259086

HEAT PUMP PACKAGES

Type Stuttgart



REMKO WKF-COMPACT SERIES

Heat pump package, Type Stuttgart

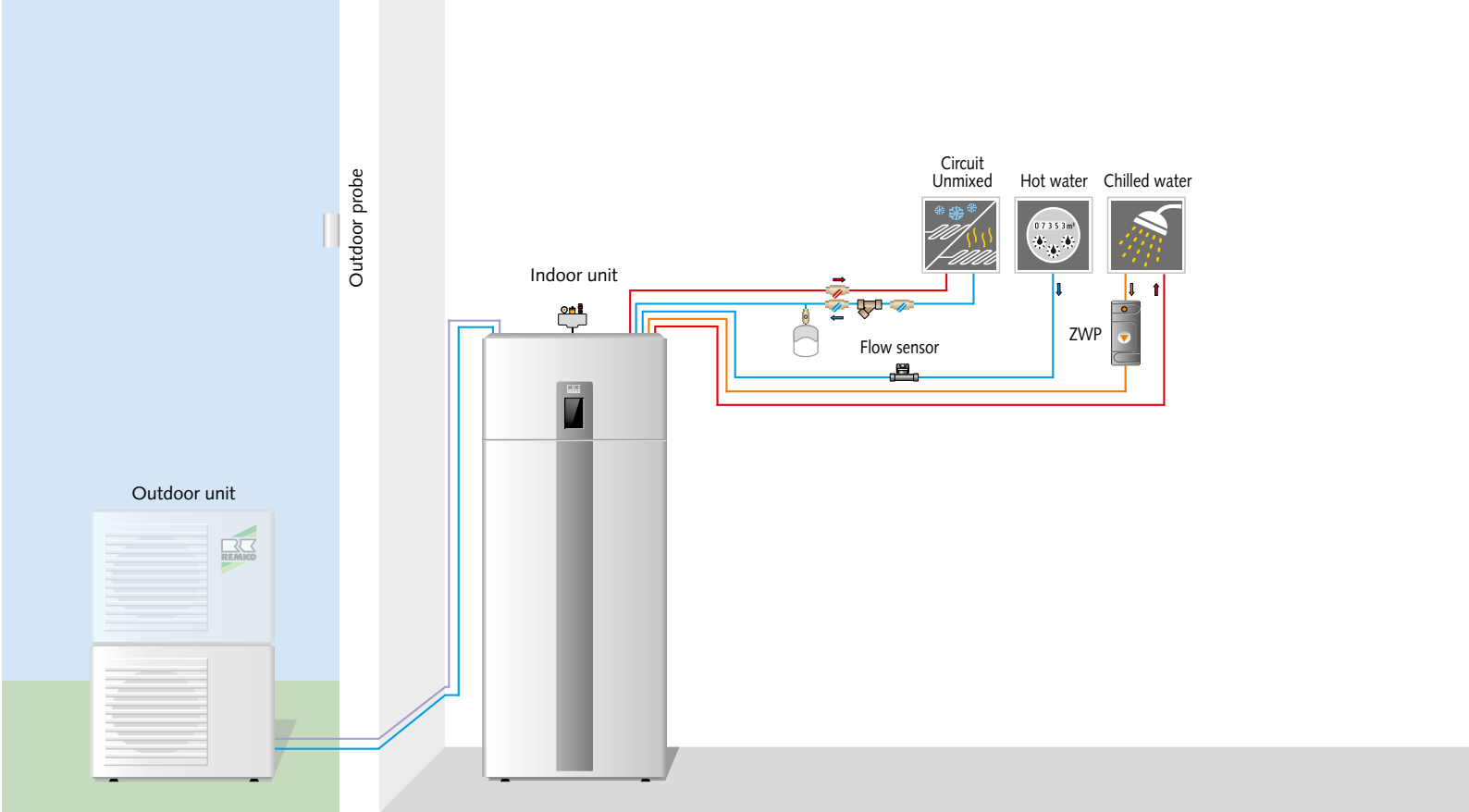
If the heat pump is intended to serve as a sole heat generator, this heat pump package is the ideal solution. In connection with underfloor heating, this unit is perfectly suited for new buildings. In addition to the heating function, a cooling function can be provided when necessary. In this package, the drinking water preparation takes place in an enamelled, 300-litre drinking water tank integrated into the indoor module. Through the compact design, installation expenses are extremely low. The highly efficiently controlled heating circuit pump in the indoor unit can supply the heating circuits directly with water.

Package comprising:

- Indoor unit with integrated 300-litre WKT 300 domestic water tank (BEVB 1.19 kWh/day)
- Outdoor unit
- Condensate drip tray including oil separator for outdoor unit



Condensate tray, including oil separator



Hydraulic diagram of Stuttgart (example of monoenergetic operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70 compact	WKF 120 compact	WKF 180 compact
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A++/A	A+/A	A++/A
External maximum pressure loss	kPa	80	80	80
Ref. no.		254100	256015	256020

¹⁾ Total heating requirement, flow 35°C, monoenergetic

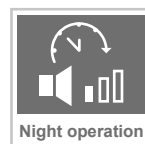
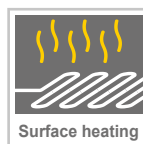
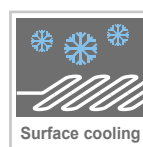
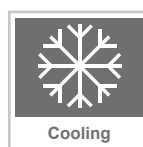
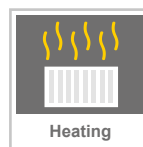
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70 compact	WKF 120 compact	WKF 180 compact
REMKO Smart-Count , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions.	254059	259022	259023
Note: No combination with REMKO Smart-BVT possible.			
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

HEAT PUMP PACKAGES

Type Mannheim



REMKO WKF SERIES

Heat pump package, Type Mannheim

This heat pump package is designed for users who would like to operate the heat pump in combination with a conventional heating appliance (bivalently alternating). The additional KWS 300 combination buffer tank is used for the hydraulic decoupling of large volume flow rates. A cooling function for the summer can also be activated, if necessary. In this package, the domestic water preparation takes place in an enamelled 300-litre domestic water tank. Through the compact design, installation expenses are extremely low. The separate pump assemblies HGU/HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package comprising:

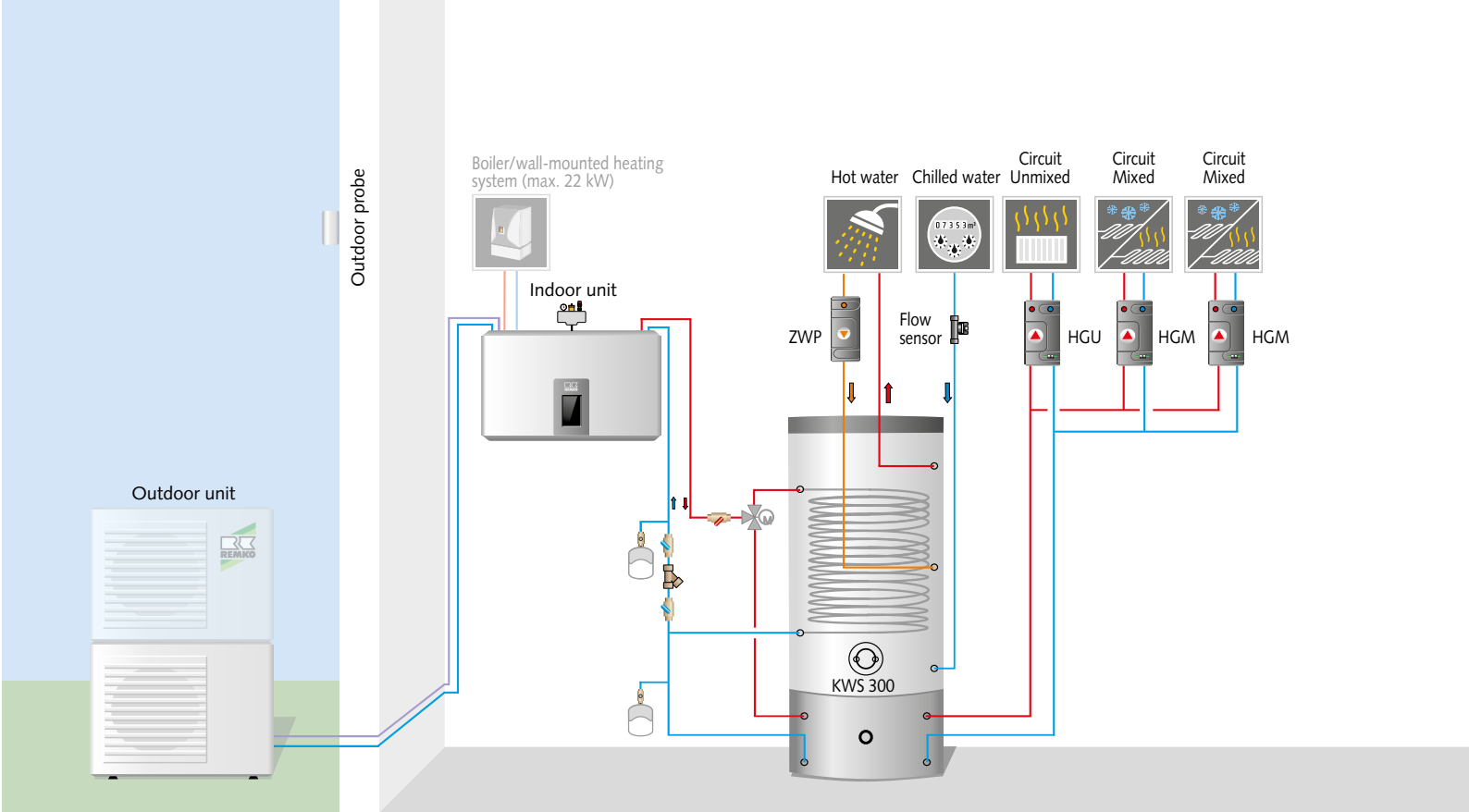
- Indoor unit
- 1x outdoor unit
- Combination buffer tank KWS 300 (300 l)
- 1x condensate drip tray including oil separator for outdoor unit
- 3-way changeover valve



Condensate tray,
including oil separator



Buffer tank for cooling and hot
water and hot water tank,
KWS 300



Hydraulic diagram of Mannheim (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A++/A	A+/A	A++/A
External maximum pressure loss	kPa	80	80	80
Ref. no.		254111	256031	256036

¹⁾ Total heating requirement, flow 35°C, monoenergetic

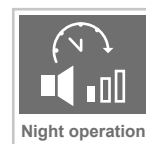
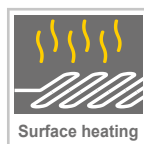
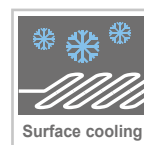
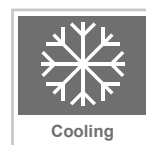
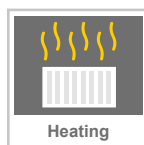
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254050	259012	259013
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047	259047

HEAT PUMP PACKAGES

Type Cologne



REMKO WKF SERIES

Heat pump package, Type Cologne

This heat pump package is designed for users who want heating and cooling first and foremost. The additional KPS 301 buffer tank is used for the hydraulic decoupling of large volume flow rates. A cooling function for the summer can also be activated, if necessary. Preparation for domestic water takes place separately. With this heat pump package, both monoenergetic and bivalently alternating systems can be accommodated. A second heating appliance (oil/gas boiler without pump) can be connected directly to the indoor unit using the Smart BVT set. The separate pump assemblies HGU/HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package comprising:

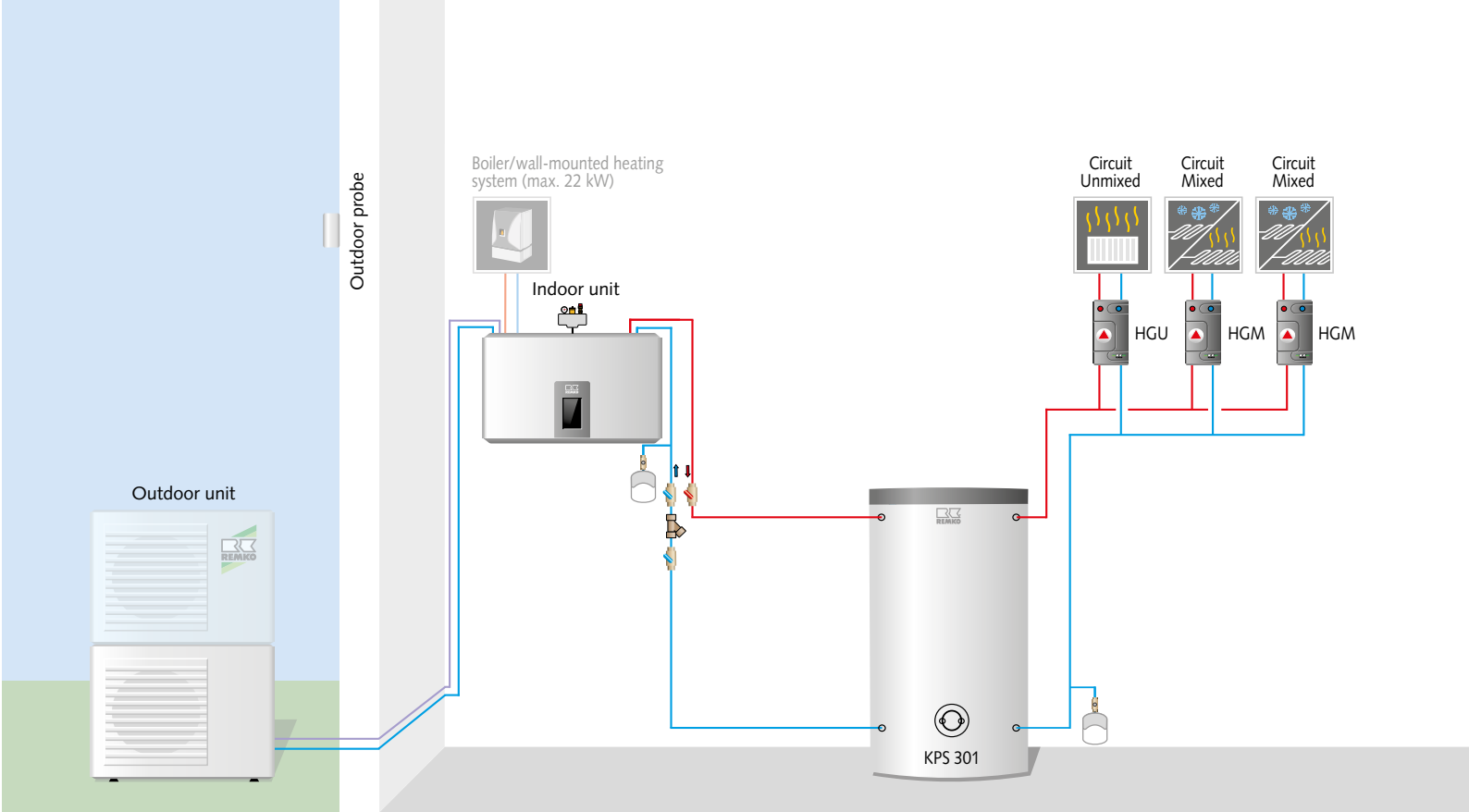
- Indoor unit
- Outdoor unit
- Condensate drip tray including oil separator for outdoor unit
- Buffer tank for cooling and hot water KPS 301 (300 l)



Condensate tray,
including oil separator



Buffer tank for cooling and hot
water KPS 301



Hydraulic diagram of Cologne (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A+/-	A+/-	A++/-
External maximum pressure loss	kPa	80	80	80
Ref. no.		254120	256045	256050

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

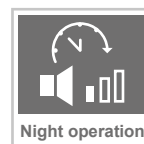
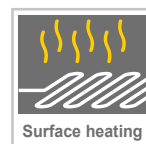
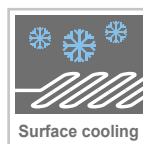
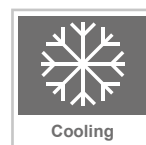
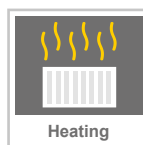
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit. For further designs see ARTdesign noise protection hoods	260904 black 260914 silver/black	260905 black 260915 silver/black	260907 black 260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047	259047

HEAT PUMP PACKAGES

Type Dortmund



REMKO WKF SERIES

Heat pump package, Type Dortmund

This heat pump package is for users who, in addition to the heating function, also want drinking water treatment from their heat pump system. A cooling function for the summer can also be activated, if necessary. In this package, the domestic water preparation takes place in an enamelled 300-litre domestic water tank. The high-efficiency pump in the indoor unit can supply the heating circuits directly with water.

Package comprising:

- Indoor unit
- Outdoor unit
- Buffer tank for domestic water heating, enamelled, EWS 301 (300 litres)
- Condensate drip tray including oil separator for outdoor unit
- 3-way changeover valve



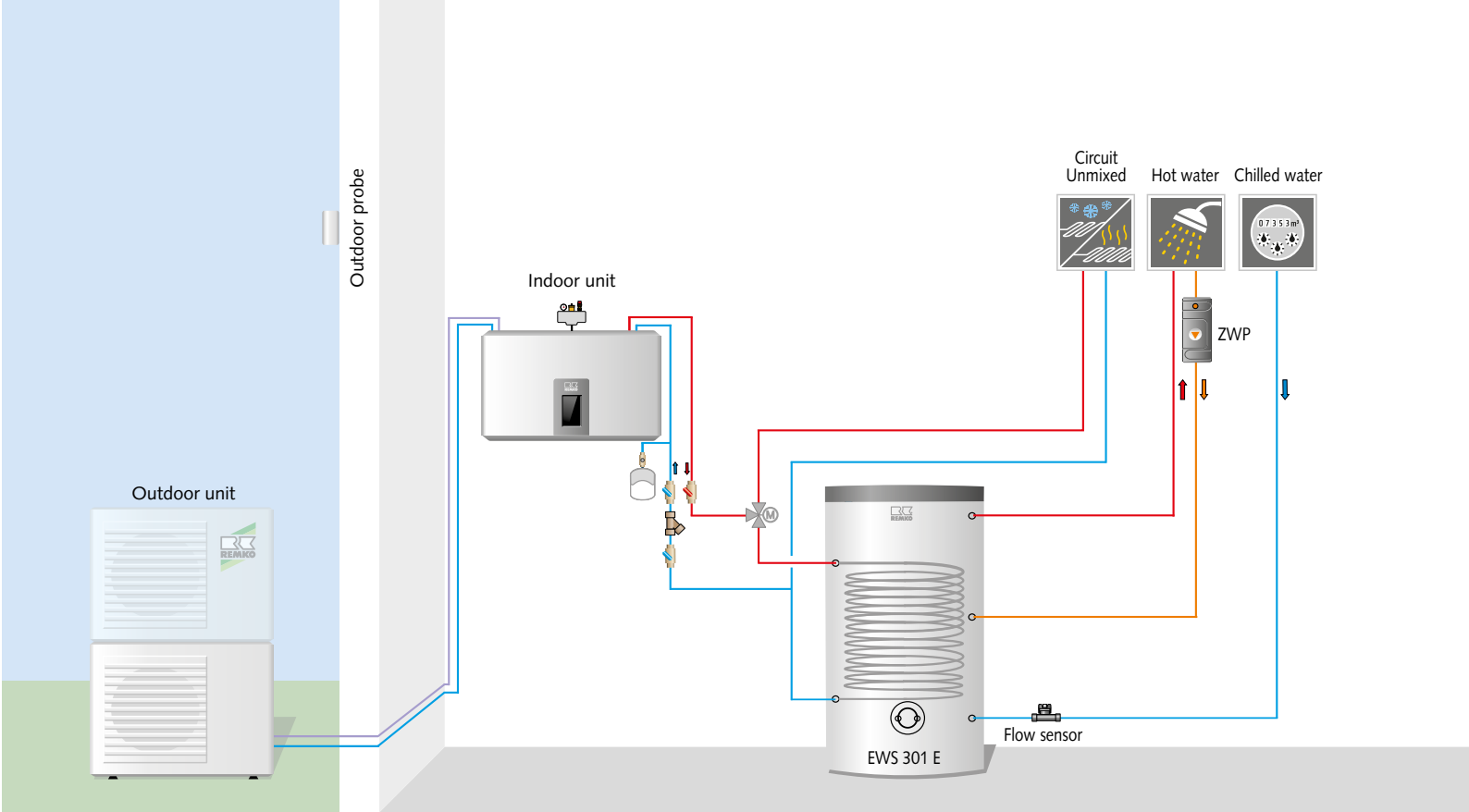
3-way changeover valve, 5/4"



Condensate tray, including oil separator



Tank for domestic water heating, EWS 301E



Hydraulic diagram of Dortmund (example for monoenergetic operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A++/A	A+/A	A++/A
External maximum pressure loss	kPa	80	80	80
Ref. no.		254130	256060	256065

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

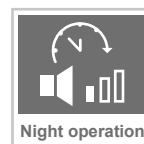
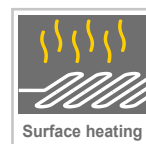
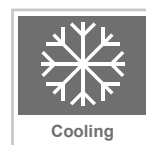
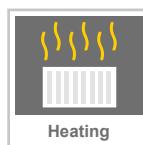
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

HEAT PUMP PACKAGES

Type Düsseldorf



REMKO WKF SERIES

Heat pump package, Type Düsseldorf

This heat pump package is the ideal solution for users who, in addition to the heating function, also want domestic water preparation from their heat pump system. A cooling function for the summer can also be activated, if necessary. The domestic water preparation takes place very efficiently with a 500 litre buffer tank and electronically regulated fresh water station using the hygienic flow method. The high-efficiency pump in the indoor unit can supply the heating circuits directly with water.

Package comprising:

- Indoor unit
- Outdoor unit
- Buffer tank for domestic water HPS 500 (500 litres)
- Condensate drip tray including oil separator for outdoor unit
- 3-way changeover valve
- Electronically regulated fresh water station EFS 25



3-way changeover valve, 5/4"



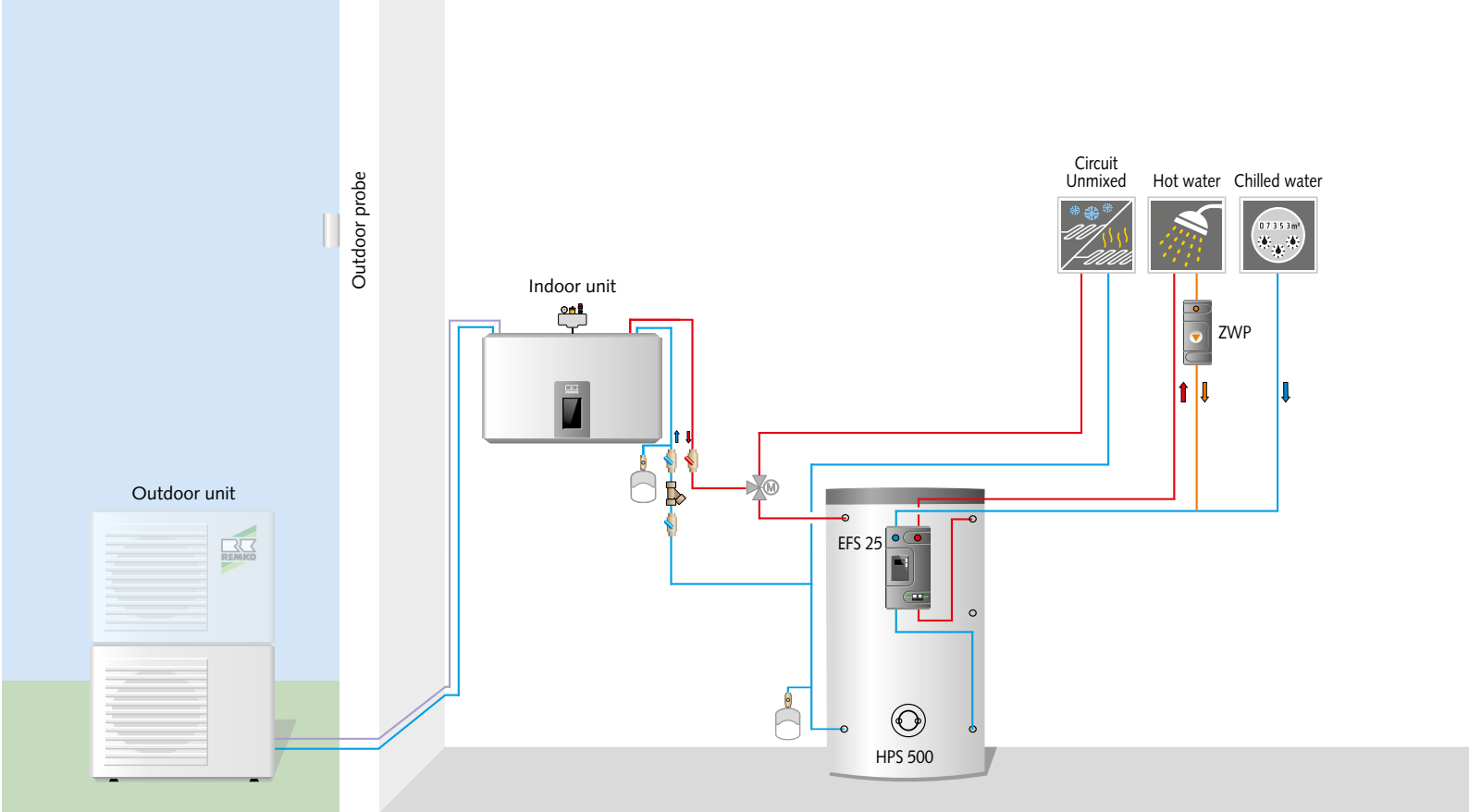
Condensate tray, including oil separator



Buffer tank for drinking water, HPS 500



Fresh water station with pump and flow switch, EFS 25



Hydraulic diagram of Düsseldorf (example for monoenergetic operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A++/A	A+/A	A++/A
External maximum pressure loss	kPa	80	80	80
Ref. no.		254140	256075	256080

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

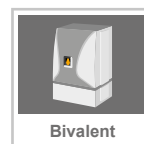
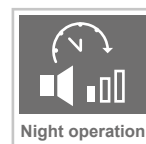
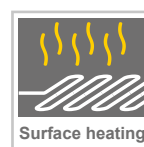
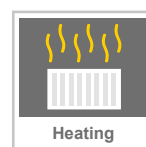
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ , installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

HEAT PUMP PACKAGES

Type Frankfurt



REMKO WKF SERIES

Heat pump package, Type Frankfurt

The energy-saving package is prepared for the integration of solar thermal systems or combustible solid fuel burner for heating and domestic water support. With the fin-tube heat exchanger (special accessory) RWT 31, collector surfaces from approx. 8 to 15 m² can be connected. The domestic water preparation takes place with a 800 litre or 1000 litre buffer tank and electronically regulated fresh water station using the hygienic flow method. With this heat pump package, both bivalent and single energy source systems can be accommodated. The separate pump assemblies HGM/HGU (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package consisting of:

- Indoor unit
- Outdoor unit
- Multifunctional buffer tank MPS 800 (800 l) or MPS 1000 (1000 l)
- Condensate drip tray including oil separator for outdoor unit
- 2x 3-way changeover valve
- Electronically regulated fresh water station EFS 25
- Immersion probe and collector probe



3-way changeover valve, 5/4"



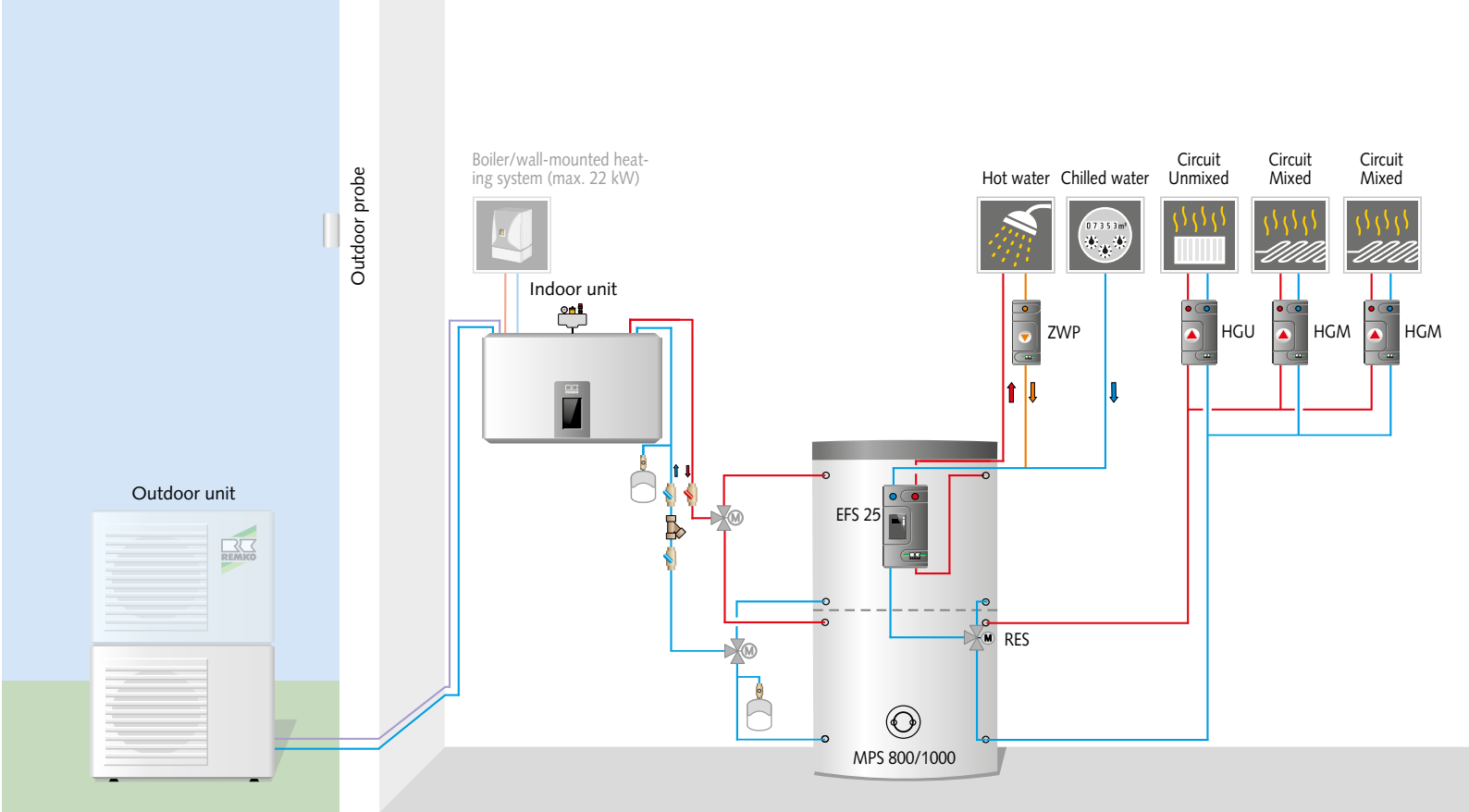
Condensate tray, including oil separator



Multifunctional buffer tank MPS 800 or MPS 1000



Fresh water station with pump and flow switch, EFS 25



Hydraulic diagram of Frankfurt (example for monoenergetic or bivalently alternating operation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Energy efficiency class ²⁾		A++/A	A+/A	A++/A
External maximum pressure loss	kPa	80	80	80
With MPS 800				
Ref. no.		254150	256090	256095
With MPS 1000				
Ref. no.		254160	256091	256096

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

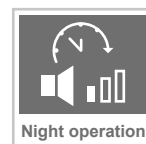
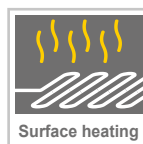
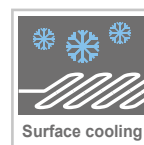
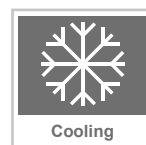
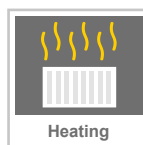
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047	259047

HEAT PUMP PACKAGES

Type Cologne Duo



REMKO WKF-DUO SERIES

Heat pump package, Type Cologne Duo

This heat pump package is designed for users who want heating first and foremost. The additional KPS 301 buffer tank is used for the hydraulic decoupling of large volume flow rates. A cooling function for the summer can also be activated, if necessary. Preparation for domestic water takes place separately. With this heat pump package, both monoenergetic and bivalently alternating systems can be accommodated. The separate pump assemblies HGU/HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package comprising:

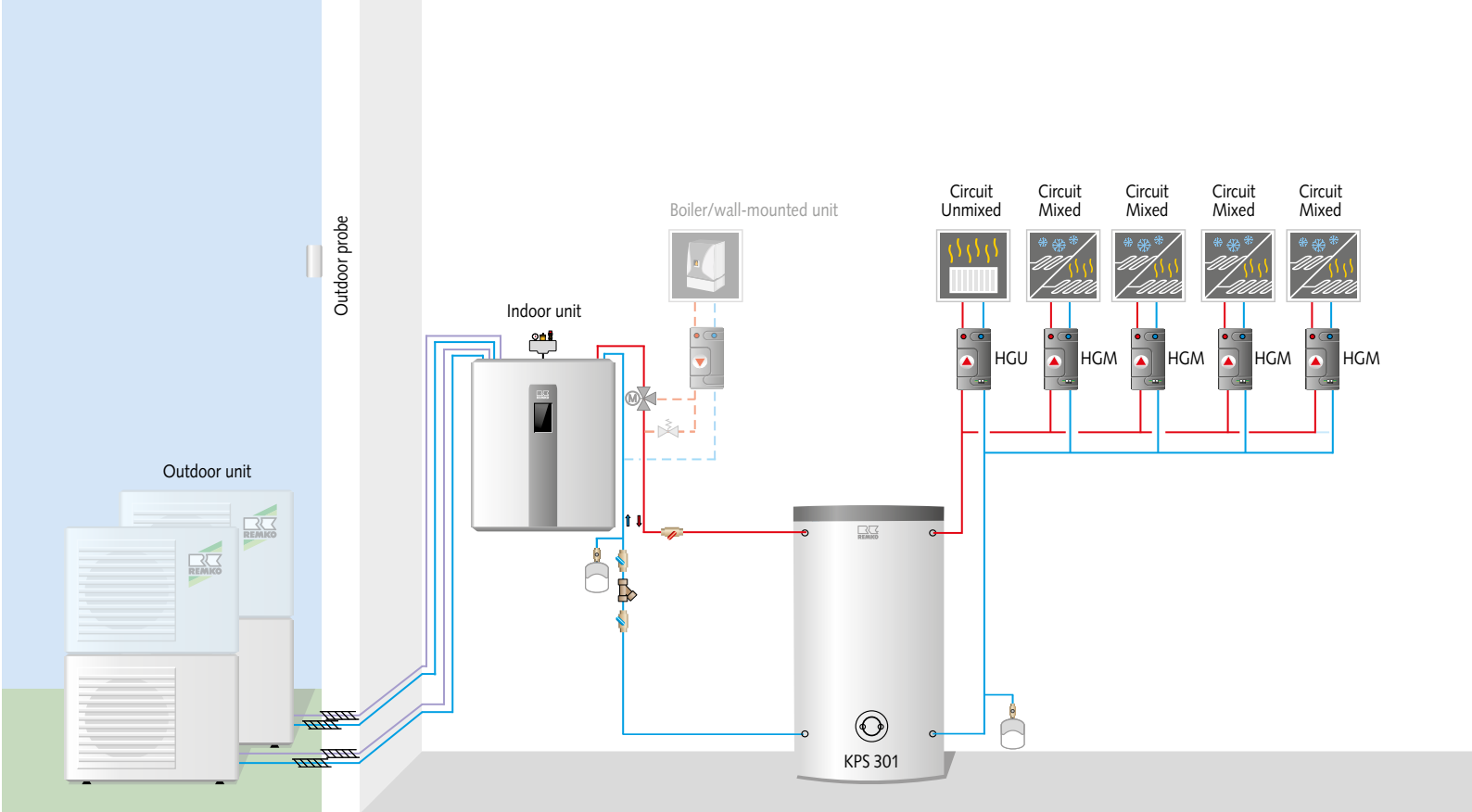
- Indoor unit
- 2x outdoor units
- Buffer tank for cooling and hot water KPS 300 (300 l)
- 2x condensate drip trays, including oil separator for outdoor unit



Condensate tray, including oil separator



Buffer tank for cooling and hot water KPS 301



Hydraulic diagram of Cologne Duo (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾		18-25 kW	25-32 kW
Unit type		WKF 120 Duo	WKF 180 Duo
Rated heating capacity (min. / max.)	kW	18.0 (2.5 - 25.0)	29.0 (3.1 - 35.4)
Rated cooling capacity (min. / max.)	kW	13.0 (3.3 - 23.8)	24.0 (5.5 - 28.0)
Energy efficiency class ²⁾		A++	A++
Ref. no.		256100	256101

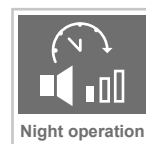
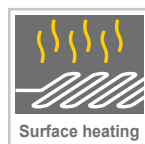
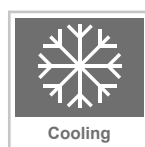
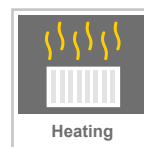
¹⁾ Total heating requirement, flow 35 °C, monoenergetic ²⁾ Average, composite system for heating, including Smart-Control

Accessories

Unit type	WKF 120 Duo	WKF 180 Duo
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions.	259029	259027
Note: No combination with REMKO Smart-BVT possible.		
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259086	259086
Heating circuit pump set HGU		
Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046
Heating circuit pump set HGM		
Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047

HEAT PUMP PACKAGES

Type Mannheim Duo



REMKO WKF-DUO SERIES

Heat pump package, Type Mannheim Duo

This heat pump package is designed for users who would like to operate the heat pump in combination with a conventional heating appliance (bivalently alternating). The additional KWS 300 combination buffer tank is used for the hydraulic decoupling of large volume flow rates. A cooling function for the summer can also be activated, if necessary.

In this package, the domestic water preparation takes place in an enamelled 300-litre domestic water tank. Through the compact design, installation expenses are extremely low. The separate pump assemblies HGU/HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package comprising:

- Indoor unit
- 2x outdoor units
- Combination buffer tank KWS 300 (300 l)
- 2x condensate drip trays, including oil separator for outdoor unit
- 3-way changeover valve



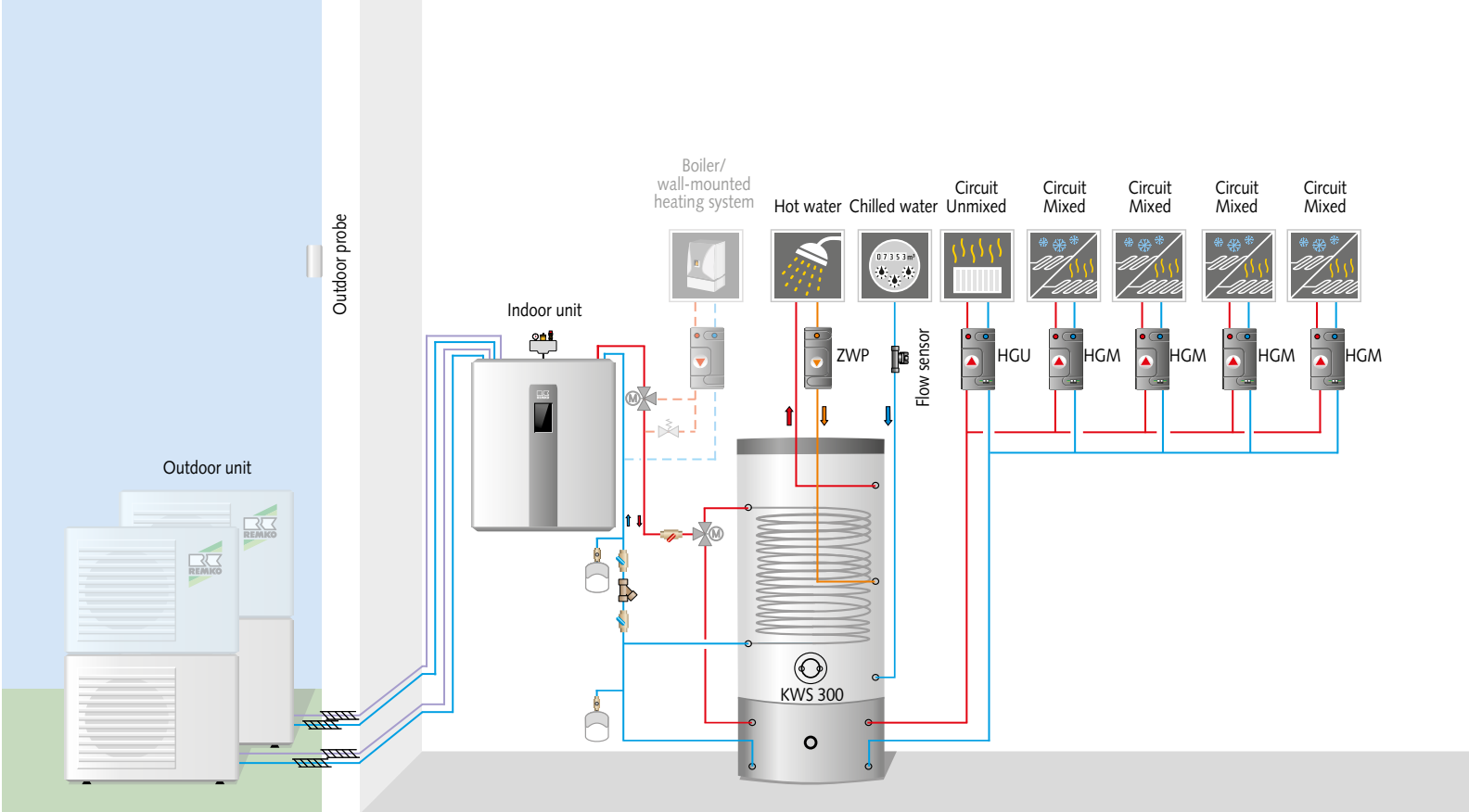
3-way changeover valve, 6/4"



Condensate tray, including oil separator



Buffer tank for cooling and hot water and hot water tank, KWS 300



Hydraulic diagram of Mannheim Duo (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾		18-25 kW	25-32 kW
Unit type		WKF 120 Duo	WKF 180 Duo
Rated heating capacity (min. / max.)	kW	18.0 (2.5 - 25.0)	29.0 (3.1 - 35.4)
Rated cooling capacity (min. / max.)	kW	13.0 (3.3 - 23.8)	24.0 (5.5 - 28.0)
Energy efficiency class ²⁾		A++/A	A++/A
Ref. no.		256102	256103

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

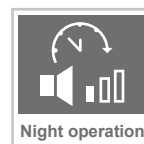
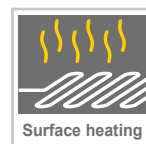
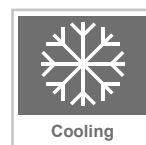
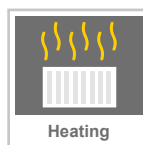
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 120 Duo	WKF 180 Duo
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	259029	259027
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit. For further designs see ARTdesign noise protection hoods	260905 black 260915 silver/black	260907 black 260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259086	259086
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047

HEAT PUMP PACKAGES

Type Munich Duo



REMKO WKF-DUO SERIES

Heat pump package, Type Munich Duo

This heat pump package is the ideal solution for users with a high heating capacity and high hot-water requirement who, in addition to the heating function, also want domestic water preparation from their heat pump system. A cooling function for the summer can also be activated, if necessary. The domestic water preparation takes place very efficiently

with a 500, 800, or 1000 litre buffer tank and electronically controlled fresh water station using the hygienic flow method. With this heat pump package, both alternatively bivalent and monoenergetically operated systems can be accommodated. The buffer tank is used as a hydraulic switch in case of large pressure losses in the heating circuit.

Package comprising:

- Indoor unit
- 2x outdoor units
- Buffer tank for cooling and hot water KPS 301 (300 l)
- Buffer tank for domestic water HPS 500 (500 l), MPS 800 (800 l), or MPS 1000 (1000 l)
- 2x condensate drip trays, including oil separator for outdoor unit
- Electrically regulated fresh water station EFS 25/EFS 35
- 3-way changeover valve



3-way changeover valve, 6/4"



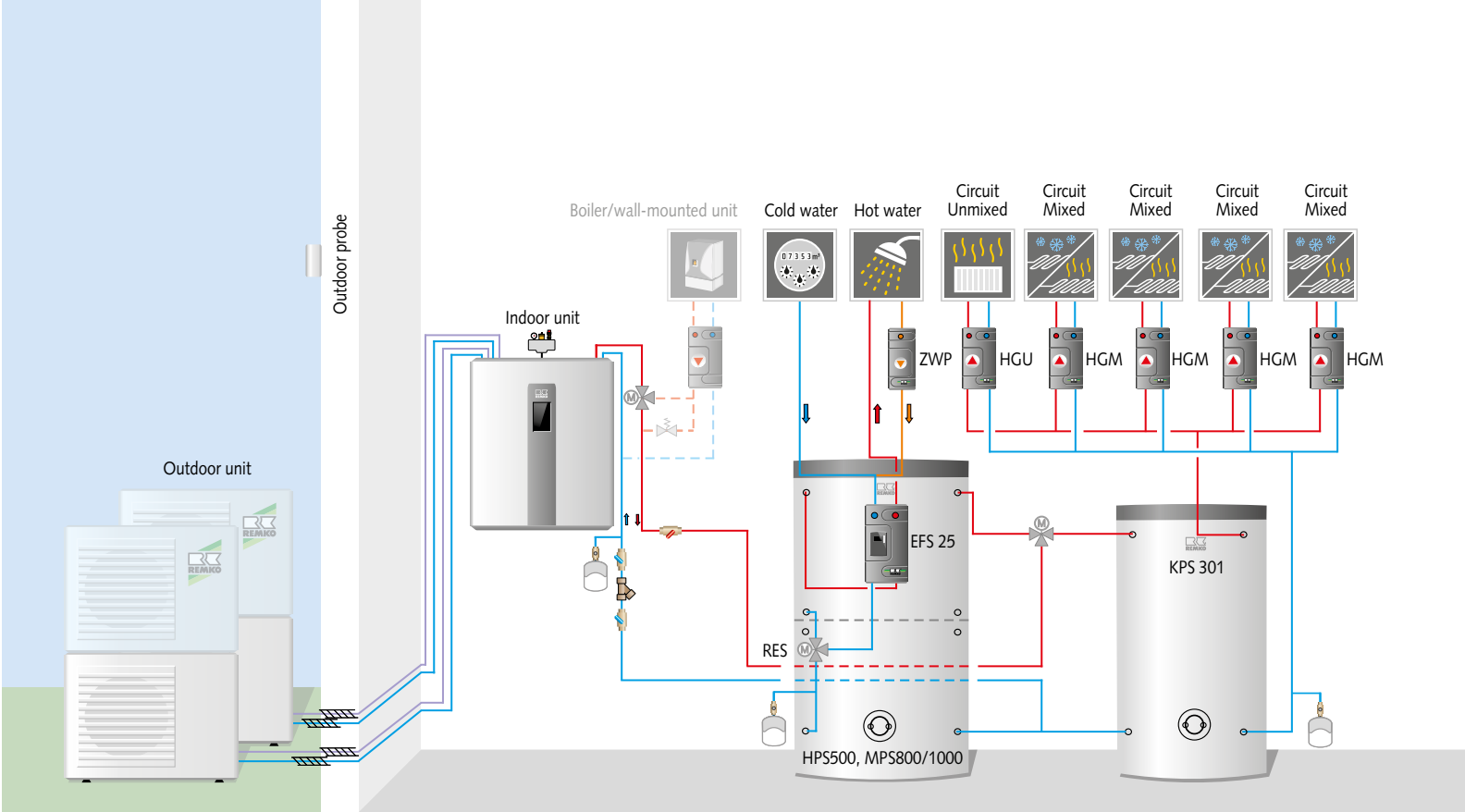
Condensate tray, including oil separator



Buffer tank for cooling and hot water KPS 301



Fresh water station with pump and flow switch, EFS 25



Hydraulic diagram of Munich Duo (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾		18-25 kW	25-32 kW
Unit type		WKF 120 Duo	WKF 180 Duo
Rated heating capacity (min. / max.)	kW	18.0 (2.5 - 25.0)	29.0 (3.1 - 35.4)
Rated cooling capacity (min. / max.)	kW	13.0 (3.3 - 23.8)	24.0 (5.5 - 28.0)
Energy efficiency class ²⁾		A++/A	A++/A
With HPS 500 and EFS 25			
Ref. no.		256105	256110
With MPS 800 and EFS 35			
Ref. no.		256106	256111
With MPS 1000 and EFS 35			
Ref. no.		256107	256112

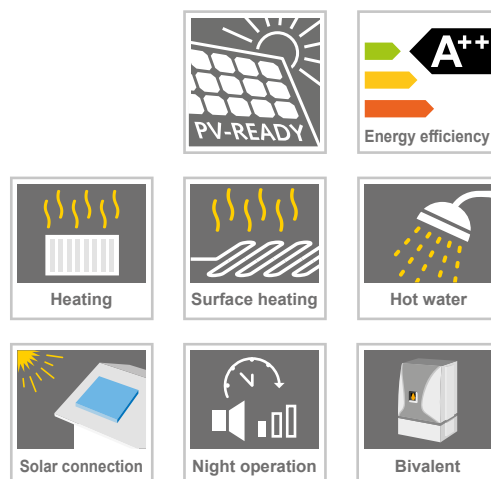
¹⁾ Total heating requirement, flow 35 °C, monoenergetic ²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

Unit type	WKF 120 Duo	WKF 180 Duo
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions.	259029	259027
Note: No combination with REMKO Smart-BVT possible.		
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259086	259086
Heating circuit pump set HGU		
Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046
Heating circuit pump set HGM		
Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047

HEAT PUMP PACKAGES

Type Frankfurt Duo / Frankfurt Duo Solar



REMKO WKF-DUO SERIES

Heat pump package, Type Frankfurt Duo / Frankfurt Duo Solar

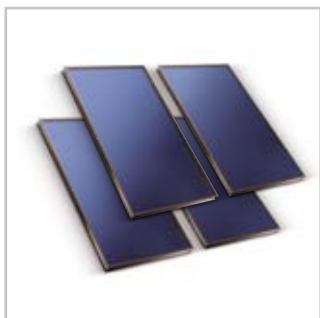
The energy-saving package is prepared for the integration of solar thermal systems or combustible solid fuel burner for heating and domestic water support. The hot water control and heating function are supported by the RWT 31 fin-tube heat exchanger and four solar collectors included in the solar package. The domestic water preparation takes place with a 800 litre or 1000 litre buffer tank and electronically regulated fresh water station using the hygienic flow method. With this heat pump package, both alternatively bivalent and monoenergetically operated systems can be accommodated. The separate pump assemblies HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner. The solar set included in this package, Type RSK 25-10, with a collector surface of 10.12 m², is ideal for effective domestic water preparation and heating support.

Package comprising:

- Indoor unit
- 2x outdoor units
- Multifunctional buffer tank MPS 800 (800 l) or MPS 1000 (1000 l)
- 2x condensate drip trays, including oil separator for outdoor unit
- Electronically regulated fresh water station EFS 25
- 2x 3-way changeover valve
- Solar set RSK 25-10
(only available in Solar package)



3-way changeover valve, 6/4"



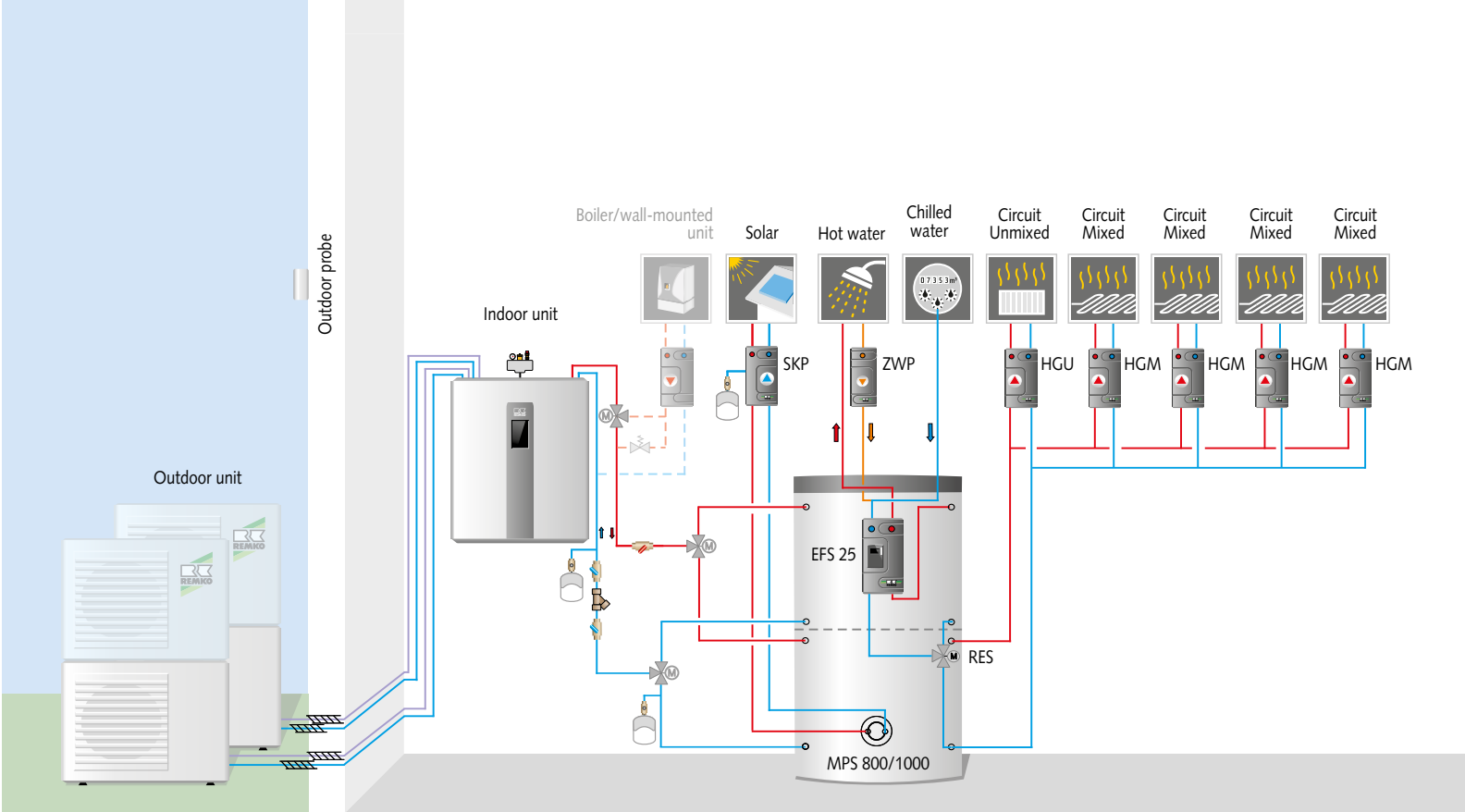
Solar set RSK 25-10



Multifunctional buffer tank MPS 800 or MPS 1000



Fresh water station with pump and flow switch, EFS 25



Hydraulic diagram of Frankfurt Duo / Frankfurt Duo Solar (example for monoenergetic or alternative bivalent operation)

Technical data

Area of use: heating ¹⁾	18-25 kW	25-32 kW
Unit type	WKf 120 Duo	WKf 180 Duo
Rated heating capacity (min. / max.)	18.0 (2.5 - 25.0)	29.0 (3.1 - 35.4)
Energy efficiency rating for Frankfurt HZ/WW composite system	A++/A	A++/A
Energy efficiency rating for Frankfurt Solar ²⁾	A++/A+	A++/A+
With MPS 800 and EFS 25		
Ref. no.	256115	256120
With MPS 800, EFS 25 and solar set RSK 25-10		
Ref. no.	256116	256121
With MPS 1000 and EFS 25		
Ref. no.	256117	256122
With MPS 1000, EFS 25 and solar set RSK 25-10		
Ref. no.	256118	256123

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

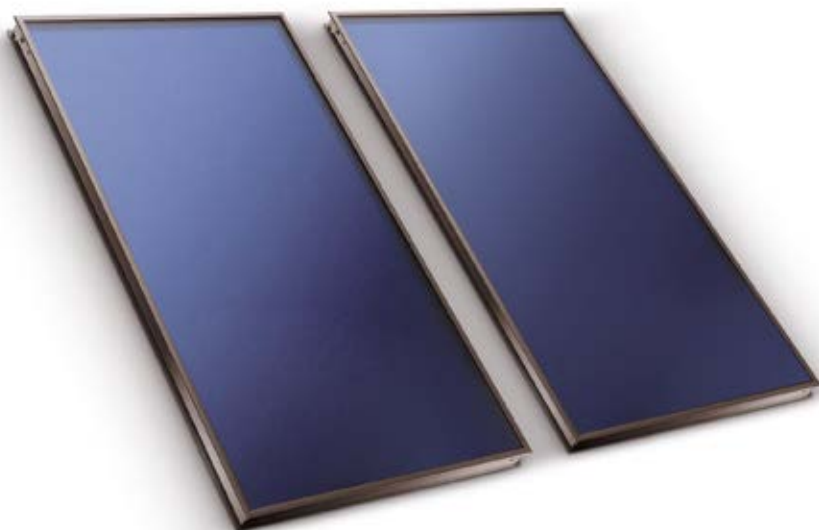
²⁾ Average, composite system for heating/hot water, including Smart-Control

Accessories

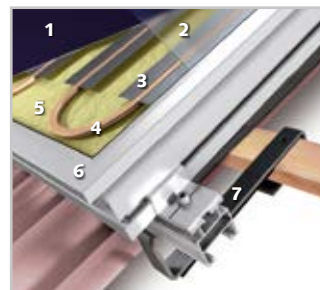
Unit type	WKf 120 Duo	WKf 180 Duo
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions.	259029	259027
Note: No combination with REMKO Smart-BVT possible.		
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260915 silver/black	260917 silver/black
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047

HEAT PUMP SOLAR PACKAGES

Solar collector RSK 25



Cross-section of RSK 25



- 1** Highly selective absorber layer
- 2** 4 mm glass
- 3** Absorber sheet, aluminium
- 4** Absorber tube
- 5** Mineral wool
- 6** Anodised aluminium frame
- 7** Mounting system

REMKO RSK 25 SERIES

With the thermal high-performance solar collectors Type RSK 25, you can operate your heating system with even greater efficiency in combination with the inverter heat pump from REMKO. With the refined workmanship and specially developed heat conducting technology, a maximum amount of solar energy is utilised.

The RSK 25-5 solar set with two solar collectors utilises solar energy for hot-water preparation. The RSK 25-10 solar set with four solar collectors utilises solar energy for hot-water preparation and heating support. The REMKO solar sets provide unsurpassed performance

in a perfectly attuned system configuration with the well-known inverter heat pump.

Depending on the solar set, the heat pump can be used for air conditioning during the summer, whereas the thermal solar system assumes the hot water preparation. The complete system is controlled via the REMKO Smart-Control intelligent control system. Almost every desire can be fulfilled by the REMKO heat pump solar packages.

Solar set RSK 25-5

The solar set consisting of two solar collectors is an efficient supplement to hot-water preparation.

- 2x collectors RSK 25 (5.06 m²)
- Collector connector, straight
- Solar station with HE pump
- MAG 18, expansion vessel
- Wall mount for MAG
- Connecting tube for MAG
- Glycol, premixed, 10 l
- Basic mounting set
- Fin-tube heat exchanger RWT 18
- Immersion probe and collector probe

Solar set RSK 25-10

The solar set consisting of 4 solar collectors is an efficient supplement to hot-water preparation and heating support.

- 4x collectors RSK 25 (10.12 m²)
- Collector connector, straight
- Solar station with HE pump
- MAG 25, expansion vessel
- Wall mount for MAG
- Connecting tube for MAG
- Glycol, premixed, 20 l
- Basic mounting set
- Fin-tube heat exchanger RWT 31
- Immersion probe and collector probe



Solar station



Diaphragm expansion vessel



Basic mounting set



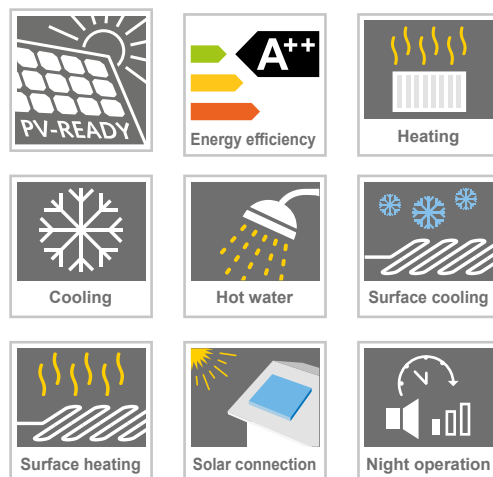
Fin-tube heat exchanger

Technical data

Unit type		RSK 25-5	RSK 25-10
Domestic water heating/heating support		yes/no	yes/yes
Rooftop installation		yes	yes
Flat roof installation		yes	yes
Awning/facade installation		no	no
For storage type		EWS 301 E, EWS 500 E, KPS 301, KWS 300	HPS 500, MPS 800, MPS 1000
Installation type		Vertical, next to each other Horizontal, stacked (upon request)	Vertical, next to each other Horizontal, stacked (upon request)
Piping		meandering	meandering
Absorber coating		highly selective	highly selective
Number of collectors		2	4
Nominal thermal output	kW	1.9	1.9
Efficiency	%	79.7	79.7
Total collector surface area	m ²	2.53	2.53
Absorber surface area	m ²	2.35	2.35
Aperture surface area	m ²	2.35	2.35
Heat carrier content	l	1.7	1.7
Permissible operating pressure	bar	10	10
Max. corrugated pipe length	m	25	25
Dimensions - height/width/depth	mm	2102/1202/80	2102/1202/80
Weight	kg	44	44
Ref. no.		260820	260821

HEAT PUMP SOLAR PACKAGES

Type Stuttgart Solar



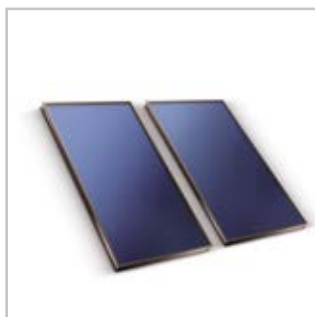
REMKO WKF-COMPACT SERIES

Heat pump solar package, Type Stuttgart Solar

If the heat pump is intended to serve as a sole heat generator, this heat pump package is the ideal solution. In addition to the heating function, a cooling function can be provided when necessary. In this package, the drinking water preparation takes place in an enamelled, 300-litre drinking water tank integrated into the indoor module. In addition, a cooling function can be provided as necessary while the thermal solar system heats the domestic water. Through the compact design, installation expenses are extremely low. The solar set included in this package, type RSK 25-5, with a collector surface of 5.06 m², is ideal for effective domestic water preparation.

Package comprising:

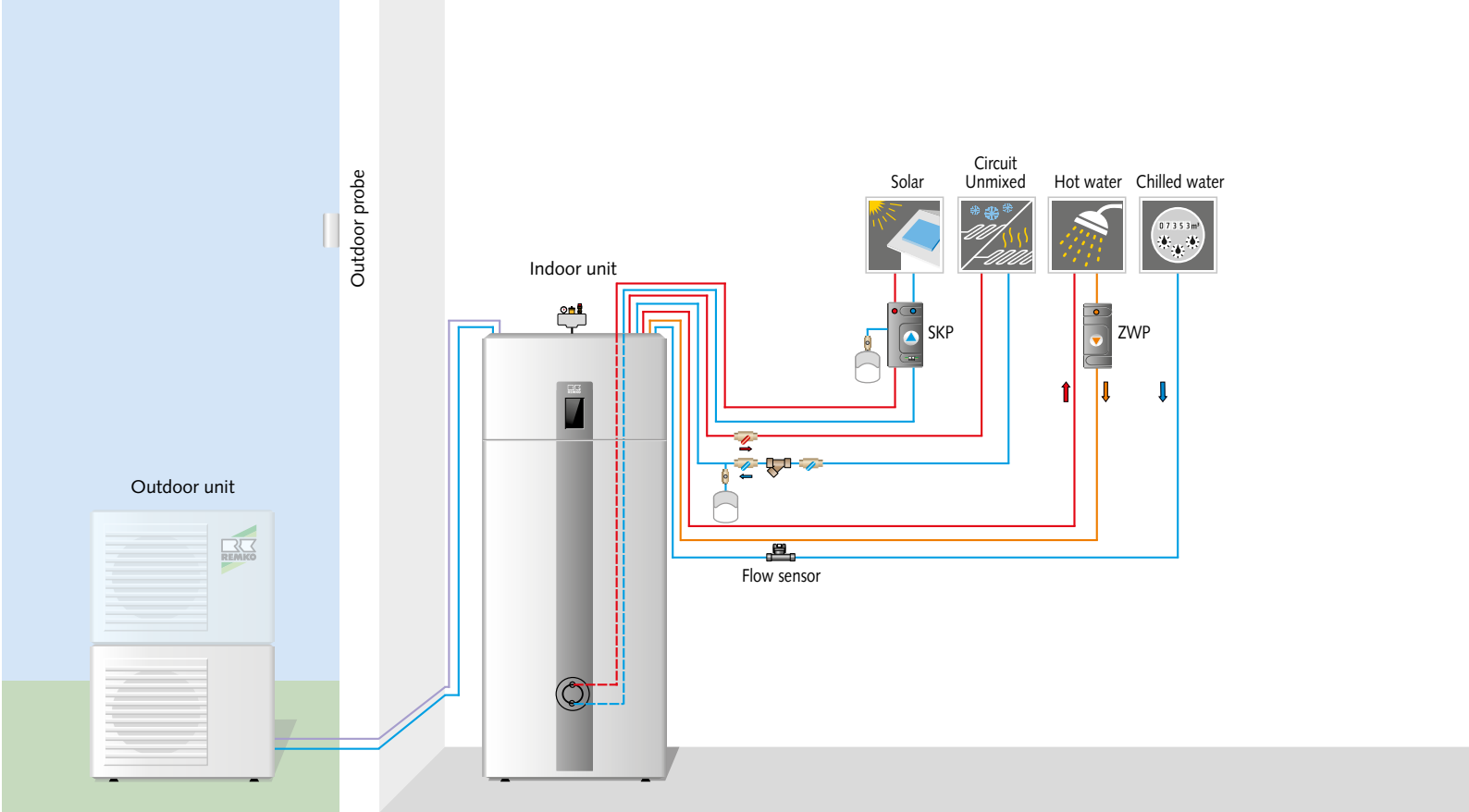
- Indoor unit with highly efficient, enamelled domestic water tank, 300 l (BEVB 1.19 kWh/day)
- Outdoor unit
- Condensate drip tray including oil separator for outdoor unit
- Solar set RSK 25-5



Solar set RSK 25-5



Condensate tray,
including oil separator



Hydraulic diagram of Stuttgart Solar (example for monoenergetic operation and solar-support domestic water preparation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70 compact	WKF 120 compact	WKF 180 compact
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Rated cooling capacity (min. / max.)	kW	5.0 (1.1 - 8.9)	6.0 (3.3 - 11.9)	11.0 (5.5 - 14.0)
Energy efficiency class ²⁾		A++/A+	A++/A+	A++/A+
External maximum pressure loss	kPa	80	80	80
Ref. no.		254170	256230	256235

¹⁾ Total heating requirement, flow 35 °C, monoenergetic

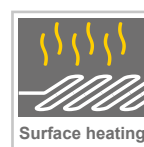
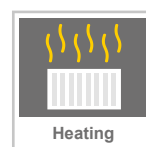
²⁾ Average, composite system for heating/hot water/solar, including Smart-Control

Accessories

Unit type	WKF 70 compact	WKF 120 compact	WKF 180 compact
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254059	259022	259023
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-Cool for active cooling, pipe assemblies and circulation pump in the indoor unit with steam-diffusion-tight insulation, use in case of cooling function when the inlet temperature is below the dew point.	259085	259085	259085

HEAT PUMP SOLAR PACKAGES

Type Frankfurt Solar



REMKO WKF SERIES

Solar heat pump package, Type Freiburg Solar

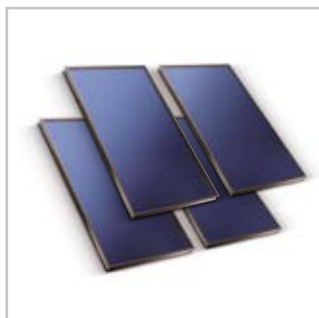
The energy-savings package is prepared for the integration of the solar-thermal system REMKO RSK 25-10 to the fin-tube heat exchanger RWT 31. The domestic water preparation takes place with a 800 litre or 1000 litre multifunction buffer tank and fresh water station using the hygienic flow method. With this heat pump package, both bivalent and single energy source systems can be accommodated. The solar set included in this package, type RSK 25-10, with a collector surface of 10.12 m², provides household water and heating support. The separate pump assemblies HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump (0-10 V) regulated in a needs-based manner.

Package consisting of:

- Indoor unit
- Outdoor unit
- Multifunctional buffer tank MPS 800 (800 l) or MPS 1000 (1000 l)
- Condensate drip tray including oil separator for outdoor unit
- Electronically regulated fresh water station EFS 25
- 2x 3-way changeover valve
- Solar set RSK 25-10



3-way changeover valve, 5/4"



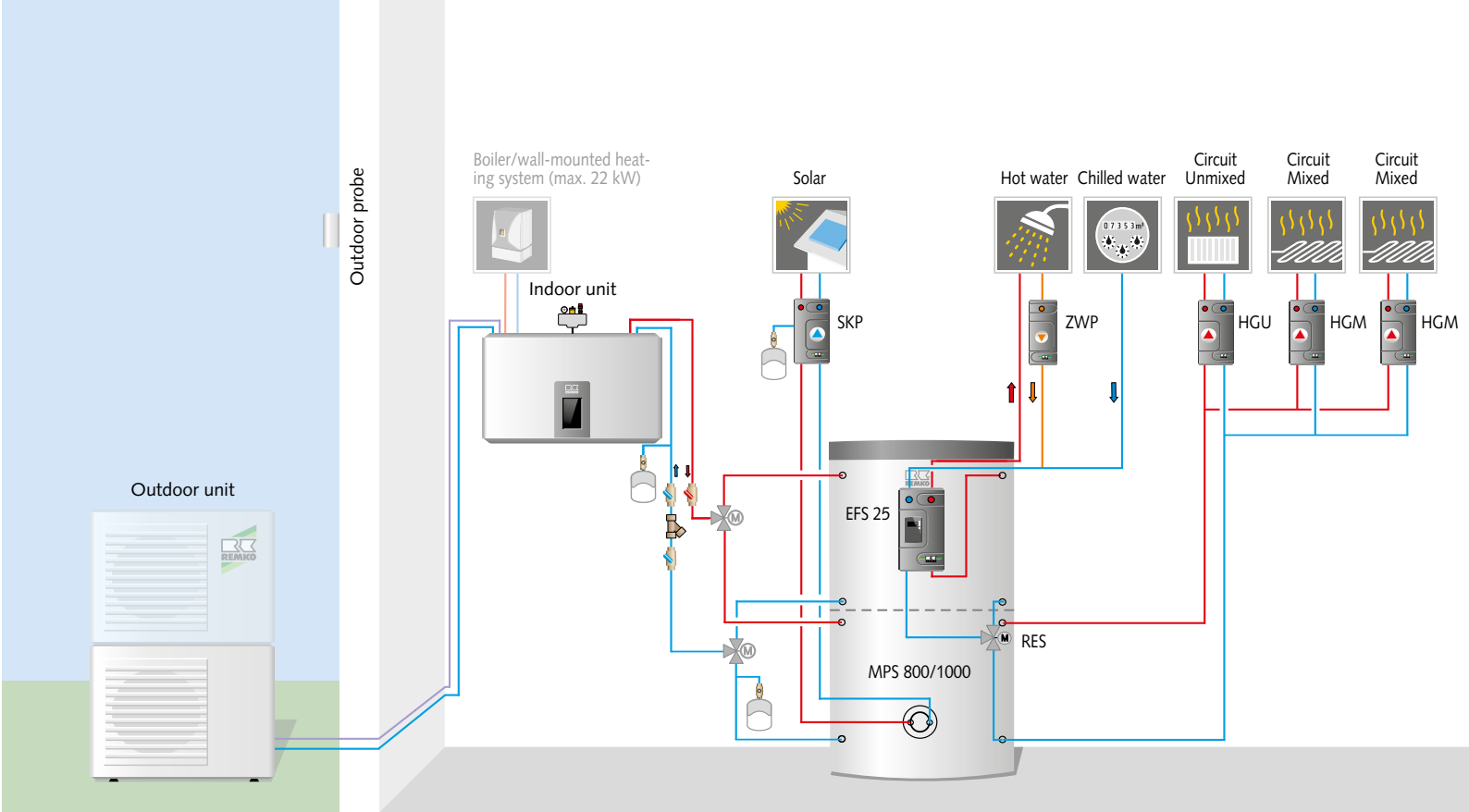
Solar set RSK 25-10



Multifunctional buffer tank
MPS 800 or MPS 1000



Fresh water station with pump
and flow switch, EFS 25



Hydraulic diagram of Frankfurt Solar (example for monoenergetic or bivalently alternative operating mode and solar-supported heating/domestic water preparation)

Technical data

Area of use: heating ¹⁾		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70	WKF 120	WKF 180
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 6.0)	10.0 (2.5 - 12.5)	14.0 (3.1 - 17.7)
Energy efficiency class ²⁾		A++/A+	A++/A+	A++/A+
External maximum pressure loss	kPa	80	80	80
With MPS 800				
Ref. no.		254180	256215	256220
With MPS 1000				
Ref. no.		254190	256216	256221

¹⁾ Total heating requirement, flow 35 °C, monoenergetic ²⁾ Average, composite system for heating/hot water/solar, including Smart-Control

Accessories

Unit type	WKF 70	WKF 120	WKF 180
REMKO Smart-Count factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010
REMKO SmartServ installed heating rod 9 kW for monoenergetic operation, including emergency heating functions. Note: No combination with REMKO Smart-BVT possible.	254060	259025	259026
ARTdesign noise protection hood SWK for noise reduction and the protection against the influence of weather or vandalism per outdoor unit.	260904 black	260905 black	260907 black
For further designs see ARTdesign noise protection hoods	260914 silver/black	260915 silver/black	260917 silver/black
REMKO Smart-BVT installed at the factory, 3-way switchover valve for the integration of a second heat generator (max. 22 kW) without a circulation pump, bivalently alternating operation. Note: No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016
Heating circuit pump set HGU Speed-controlled heating circuit pump group (0-10 V)/unmixed	259046	259046	259046
Heating circuit pump set HGM Speed-controlled heating circuit pump group (0-10 V)/mixed	259047	259047	259047

TANK SYSTEMS

REMKO HPS / MPS SERIES

Buffer tanks for heating water

- Universally usable as parallel buffer (hydraulic switch) or series-connected buffer
- With dummy flange cover D240 for retrofitting a fin-tube heat exchanger RWT 31
- Electrical immersion heating element, screw-in 6/4"
- Max. operating temperature 95°C
- Max. operating pressure 3 bar
- Test pressure 4.5 bar
- External anti-rust coating
- 9 connecting threads (11 for MPS 800/ MPS 1000) 6/4" internal thread with inflow restrictors
- 4 socket screw threads 1/2" for probe/thermometer immersion sleeves
- From quality steel S235 according to DIN EN 10 025/10 111
- High-efficiency, double-shell heat insulation, 100 mm, silver grey

Technical data

Unit type		HPS 500	MPS 800	MPS 1000
Storage type		Buffer tank	Multifunctional buffer tank	
Tank volume	Litre	500	800	1000
BEVB	kW/24h	2.8	3.4	3.5
Heat retention loss	W	116	141	145
Energy efficiency class		C	-	-
Height with insulation	mm	1725	1785	2135
Diameter with insulation	mm	850	990	990
Diameter without insulation	mm	650	790	790
Tilt height without insulation	mm	1670	1750	2090
Weight	kg	113	157	176
Ref. no.		270300	270380	270400



REMKO KPS SERIES

Hot/cold water buffer tank

- Universally usable as parallel buffer (hydraulic switch) or series-connected buffer
- With cleaning flange lid D180 for retrofitting
- Fin-tube heat exchanger RWT 18, can be retrofitted
- Electric booster heating, screw-in 6/4"
- Operating temperature: min. 0°C, max. 95°C
- Operating pressure 3 bar
- Steel sheet inner boiler S235 according to DIN EN 10 025/10 111
- 4 connecting threads, external thread 5/4"
- Outer foil casing in silver grey
- High-quality PUR insulation 50 mm (CFC, HCFC and HFC-free), water vapour diffusion tight
- Probe channel for variable probe positioning

Technical data

Unit type		KPS 131	KPS 301
Storage type		Hot/cold water buffer tank	
Tank volume	Litre	130	306
BEVB	kW/24h	0.89	1.61
Heat retention loss	W	37	67
Energy efficiency class		A	B
Height with insulation	mm	635	1295
Diameter	mm	700	700
Tilt height without insulation	mm	909	1441
Weight	kg	35	72
Ref. no.		270241	270251



REMKO EWS E / KWS SERIES

Tank for domestic hot water heating

- Enamelled with double-coiled smooth-tube heat exchanger and particularly large heat exchanger surface
- Inner container with magnesium protection anodes according to DIN 4753
- PUR insulation (free of CFCs, HCFCs, and HFCs)
- Max. operating pressure 10 bar
- Max. operating temperature 95°C
- Connection possibilities for circulation, external thread 3/4"
- Cold water supply and hot water outlet, internal thread 1"
- With cleaning flange lid D180
- Flange heating cartridge (legionella protection) or fin-tube heat exchanger RWT 18 can be retrofitted

Technical data

Unit type		EWS 200 E	EWS 301 E	EWS 500 E	KWS 300
Storage type			Domestic water tank, enamelled		Combination buffer tank
Net domestic water volume	Litre	168	264	426	275
Volume of buffer tank (steam-diffusion-proof)		–	–	–	100
Heat exchanger surface	m²	2.0	3.4	6.2	3.2
BEVB	kW/24h	1.37	1.64	1.88	1.77
Heat retention loss	W	57	68	78	74
Energy efficiency class		B	B	B	B
Tap profile		XL	XL	3 XL	XXL
Height	mm	1340	1420	1921	1760
Diameter	mm	555	650	750	750
Tilt height	mm	1455	1560	2023	1879
Weight	kg	90	145	222	190
Ref. no.		270550	270650	270800	270700

Accessories



Electric booster heating 6 kW

Electric booster heating 6/4" for installation in a buffer tank. Including temperature regulator and safety temperature limiter.

2, 4 or 6 kW can be optionally connected.

Note: Not suited for domestic water tank.

For unit type	Ref. no.
KPS, MPS, HPS	260063



Built-in flange heating

Consisting of a high-quality tubular heating element on which an insulated flange plate is fitted. Included: Protective current discharge resistor, thermal probe and safety temperature limiter. Max. operating pressure 10 bar. Heating capacity 6 kW.

Note: Not suited for buffer tanks of the HPS/MPS/KPS series.

For unit type	Ref. no.
EWS 301/500 E, KWS 300	260175



Fin-tube heat exchanger

For additional indirect heating, e.g. with a solar thermal system

Unit type	RWT 18	RWT 31
Suitable for buffer tanks and domestic water tanks	EWS 301 E EWS 500 E KPS 301 KWS 300	HPS 500 MPS 800 MPS 1000
Heat exchanger surface	1.40 m²	3.10 m²
Installation length in	440 mm	530 mm
Connection G	3/4 Inch	1 Inch
Contents	1.50 l	2.50 l
Flange	180/8-Loch Ø	240/12-Loch Ø
Ref. no.	260200	260210

ACCESSORIES

Smart heat pumps



REMKO SmartControl Touch remote control
All functions of the heat pump and heating circuits can be set using the cabled remote control. A room-temperature-guided control of the heating circuits (FBH or radiators) and dew point control are possible due to the separately available Modbus moisture and temperature probe.

	Ref. no.
Remote control	248104
Room temp./moisture sensor	248103



REMKO Smart-Web
Ethernet interface for the connection of commercial home router software. For dialling in to Smart-Control. Setting and reading operating parameters using a smartphone, tablet PC, laptop, etc.

	Ref. no.
REMKO Smart-Web	248120



REMKO Smart-Com
Additional software for the integration of the heat pump into a built-in KNX-IP interface, including heat meter installed at the factory (Smart Count).

	Ref. no.
REMKO Smart-Com	254090



REMKO Easy-Control EC-1
Centrally used room thermostat for room-guided control of the heat pump in heating/cooling mode. Touch display for setting set temperature, heating mode, absence, switch-on/switch-off. Communication via Modbus protocol

	Ref. no.
REMKO Easy-Control EC-1	248107



Bidirectional power meter
Current meter for Smart Heating/Cooling function, photovoltaic integration. 400V/3~/50 with S0 interface

	Ref. no.
Bidirectional power meter	259065



Floor brackets made of reinforced of rubber

	Ref. no.
BK-600 Plus (2x for Duo)	260023
BK-1000 Plus (2x for Duo)	260024
Wall brackets incl. vibration dampers	
WKM-600 (2x for Duo)	260079
Sound insulation set	1613900



Connecting line, running metre
Between outdoor and indoor unit, 3/8 / 5/8 Ø

For unit type	Ref. no.
WKF 70-180, WKF 120-180 Duo	260010



Electrical condensate drainage heating
Temperature-regulated for the safe discharge of defrost water with outside temperatures below the freezing point.

	Ref. no.
Electrical condensate drainage heating	260045



Condensate drip tray
Made of aluminium for each outdoor unit, including temperature-controlled electronic condensate drip tray heating, leaf guard grating, and oil separator. According to § 62, Abs.1, WHG (Wasserhaushaltsgesetz (German Water Resources Act)).

	Ref. no.
Condensate tray WKF 70-180 (Duo 2x)	260135



3-way switchover valve

Electrical 3-way switchover valve for domestic water preparation and separate cooling circuit (four-pipe system).

	Ref. no.
5/4"	260072
6/4"	259055



BVT set, separate

For the internal integration of a second heat generator with greater heating capacity. Consisting of: 3-way valve 5/4", overflow valve 1"

	Ref. no.
BVT set, separate	260081



Overflow valve

Overflow protection valve 1" for ensuring that the minimum medium flow rate is maintained

	Ref. no.
Overflow valve	260080



Heating circuit pump set HGU

A speed-controlled (0-10 V) heating circuit pump without mixer, ball valves with thermometer

Ref. no. 259046



Complete heating protection

Corrosion protection and hardness stabilisation for conventional hot water heating systems, floor heaters made of steel, copper and aluminium materials.

	Ref. no.
Without anti-freeze 1 L	260819
Without anti-freeze 10 L	260823
With anti-freeze 20 L	260807
With anti-freeze 200 L	260808
With anti-freeze 1000 L	260809



Sludge separator

For the filtration of contamination and corrosion products from the heating water, glycol-resistant and insulated

	Ref. no.
1" to 2,1 m³/h	260803
1 1/2" to 5,4 m³/h	260804



Tank connection set

Pipe subassembly including an electrical actuator to connect the inlet flow line of an external hot water tank

	Ref. no.
Tank connection set	259080



Pulse generator circulation

For the implementation of a pulse-controlled circulation pump via REMKO Smart-Control.

	Ref. no.
Pulse generator	259045



Pipe opening

Robust EPDM seal for watertight sealing of the refrigerant and electrical lines. Ø 100 mm

For unit type	Ref. no.
WKF series	259061



External dew point monitor

including 1 contact probe An additional safety mechanism to prevent the occurrence of humidity. The humidity is checked directly on the surfaces. Connection of up to 5 measuring probes possible.

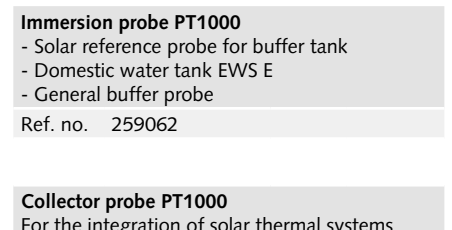
	Ref. no.
Ext. dew point monitor	259070
Additional contact probe	259071



Flow sensor

Dynamic hygiene function with frequency output for recording the cold water volume flow rate in the domestic water tank. Regulation according to DIN 1988-200

	Ref. no.
Tap volume ≤ 25L/min	254070
Tap volume ≥ 25L/min	254080



Immersion probe PT1000

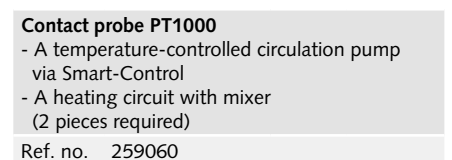
- Solar reference probe for buffer tank
- Domestic water tank EWS E
- General buffer probe

Ref. no. 259062

Collector probe PT1000

For the integration of solar thermal systems

Ref. no. 260102



Contact probe PT1000

- A temperature-controlled circulation pump via Smart-Control
- A heating circuit with mixer (2 pieces required)

Ref. no. 259060

REMKO EFS SERIES

Fresh water stations



REMKO EFS SERIES

Electronically regulated fresh water stations

The fresh water stations of REMKO are used for hygienic domestic water preparation in connection with buffer tanks. The units are completely equipped with electronic control, speed-controlled high-efficiency pump, flow switch, and plate heat exchanger. The heat exchanger is designed for a high flow rate of 25 l/min (EFS 25), 35 l/min (EFS 35) and/or 50 l/min (EFS 50). The flow rate can be increased through cascading. The fresh water stations are delivered ready for mounting in the EPP housing. In the case of the EFS 35/50, the unit is mounted to the wall. The EFS 25 fresh water station permits mounting directly on the tank or wall.

Technical data

Unit type		EFS 25	EFS 35	EFS 50
Transmission power	kW	30 ¹⁾	79 ²⁾	122 ³⁾
Installation site		Tank/wall	Wall	Wall
Heat pump type	WKF	70, 120, 180, 120-180 Duo	180, 120-180 Duo	120 Duo, 180 Duo
Min. buffer volume for hot water operation	L	500	800	1000
Primary connections IG	Inch	3/4	1 1/2	2
Secondary connections AG, flat-sealing	Inch	3/4	1	1 1/4
Dimensions - height/width/depth	mm	645/348/249	795/602/298	795/602/298
Tap volume at 45 °C tap temperature and 50 °C tank temperature	l/min	17	32	50
Tap volume at 45 °C tap temperature and 60 °C tank temperature	l/min.	28	50	77
Tap volume at 45 °C tap temperature and 70 °C tank temperature	l/min.	36	64	88
Ref. no.		260155	260156	260157

¹⁾ Tapping output at 50 °C buffer temperature / 12 l/min / 10 °C CW supply line

²⁾ Tapping output at 50 °C buffer tank temperature / 32 l/min. / 10 °C CW supply line

³⁾ Tapping output at 50 °C buffer tank temperature / 50 l/min. / 10 °C CW supply line

Accessories

Unit type	EFS 25	EFS 35	EFS 50
Circulation pump EFS 25 controllable high-efficiency circulation pump including pipe subassembly for direct connection to EFS 25.	259052	–	–
Circulation pump EFS 35/EFS 50 speed-controlled high-efficiency circulation pump for installation directly to the fresh water station	–	259053	259053
3-way changeover valve for temperature-dependent layering in the buffer tank	260072	260072	260072



Return flow layering set RES

For EFS 25 for connection to a buffer tank, including tanks connection tubes and 3-way changeover valve for temperature-dependent layering in the buffer tank layering in the buffer tank. **Note:** Not suited for EFS 35/50.

For unit type	Ref. no.
MPS 800	259031
MPS 1000	259032



Tank connection set

For the direct connection of the fresh water station EFS 25 to the buffer tank. **Note:** Not suited for EFS 35/50.

For unit type	Ref. no.
HPS 500	259040
MPS 800	259041
MPS 1000	259042

Accessories – Solar collectors



3-way changeover valve, solar, 1"
Electrical changeover valve/3-way valve 1" for thermal solar plants

	Ref. no.
3-way changeover valve	260800



Glycol
Heat transfer medium with corrosion protection for solar plants (included in the solar set)

	Ref. no.
10 L	260805
20 L	260806



Collector connector, straight
For the connection of the solar collectors RSK 25 (included in the solar set)

	Ref. no.
Collector connector	260810



Mounting coupling for collector line
For the connection of the corrugated solar pipe to the RSK 25 solar collectors (included in the corrugated pipe mounting set)

	Ref. no.
Mounting coupling	260865



Flat roof installation set
For solar collectors

	Ref. no.
RSK 25-5	260842
3x flat roof brackets	
1x safety support	
RSK 25-10	260843
5x flat roof brackets	
1x safety support	

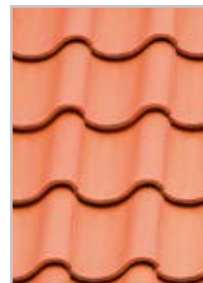


Insulated, corrugated pipe
For solar collectors for RSK 25-5 and RSK 25-10, including probe cable

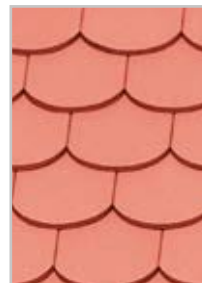
	Ref. no.
10 m, incl. connection set	260900
15 m, incl. connection set	260901
25 m, incl. connection set	260902
Corrugated pipe, per m (max. 25 m)	260869
Installation set, separate	260870

Rooftop anchor set
Complete rooftop anchor set for solar collectors

For solar package	For tile type	Ref. no.
RSK 25-5	Frankfurter tile	260850
RSK 25-10	Frankfurter tile	260855
RSK 25-5	Crown tile	260851
RSK 25-10	Crown tile	260856
RSK 25-5	Slate	260852
RSK 25-10	Slate	260857
RSK 25-5	Rafter-independent	260853
RSK 25-10	Rafter-independent	260858



Frankfurter tile



Crown tile



Slate tile

OVERVIEW INDOOR UNITS

For cooling and heating



REMKO WLT EC SERIES

Wall units in 2-pipe design
with multifunctional control technology

Unit type		WLT 30-90 EC
Cooling capacity	kW	2.8 - 9.3
Heating capacity	kW	4.2 - 11.3
For the technical data, see REMKO Chilled water air conditioning systems		



REMKO KWD EC SERIES

Ceiling cassette in 2-pipe design
with multifunctional control technology

Unit type		KWD 25-100 EC
Cooling capacity	kW	2.6 - 9.7
Heating capacity	kW	3.7 - 12.3
For the technical data, see REMKO Chilled water air conditioning systems		



REMKO KWK EC (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design
with infinitely variable EC fan

Unit type		KWK 135-875 EC
Cooling capacity	kW	1.3 - 8.8
Heating capacity	kW	1.6 - 9.2
For the technical data, see REMKO Chilled water air conditioning systems		



REMKO KWK EC ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design
with infinitely variable EC fan
for installation into false ceilings

Unit type		KWK 135-785 EC ZW
Cooling capacity	kW	1.3 - 8.8
Heating capacity	kW	1.6 - 9.2
For the technical data, see REMKO Chilled water air conditioning systems		



REMKO HEAT PUMP CONFIGURATOR

The way to the right heat pump

Using the heat pump configurator, you can configure an appropriate inverter heat pump for your operations quickly and easily. In addition to the appropriate heat pump, the configurator also shows the hydraulic diagram, the accessory parts required for installation, the bivalence point, and the right Energy Label of the heat pump system.



Heat pump configurator

<https://www.remko.de/berechnungshilfen/konfiguratoren/waermepumpen-konfigurator/>

BWP SUBSIDY CALCULATOR

State subsidy for the installation of a heat pump

Set up like a questionnaire, the BWP Subsidy Calculator provides information on possible subsidies and the necessary requirements for receiving such subsidies with just a little data.

Information about government subsidies can be found under:
www.bafa.de / www.kfw.de / www.foerderdata.de



BWP Subsidy Calculator

<https://www.remko.de/berechnungshilfen/bwp-foerderrechner/>

REMKO QUALITY WITH SYSTEMS

Climate | Heating | New energies

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Klima- und Wärmetechnik

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