

# SMART HEAT PUMPS

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

**NEW**  
From June 2021



Issue 2021



# 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/ersatzteil-suche/>



## AIR-CONDITIONING

Air-Conditioners  
Cold 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



## AIR CLEANING

Air purifier



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# MODERN INVERTER TECHNOLOGY

Highly efficient and energy-saving

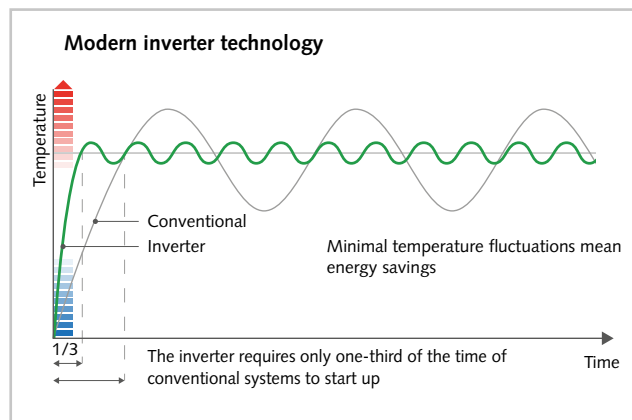
## The REMKO inverter technology saves money.

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. By using the low GWP (675) refrigerant R32, you also contribute to environmental protection.

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.





Design hood WDH 120 Graphit  
for WKF Neo series

### Free choice when installing the outdoor units

You save a lot of space when installing the outdoor modules 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.



Outdoor units of the WKF series



Outdoor units of the WKF Neo series

# REMKO SMART-CONTROL TOUCH

The intelligent control



Fig. 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

- Built into 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



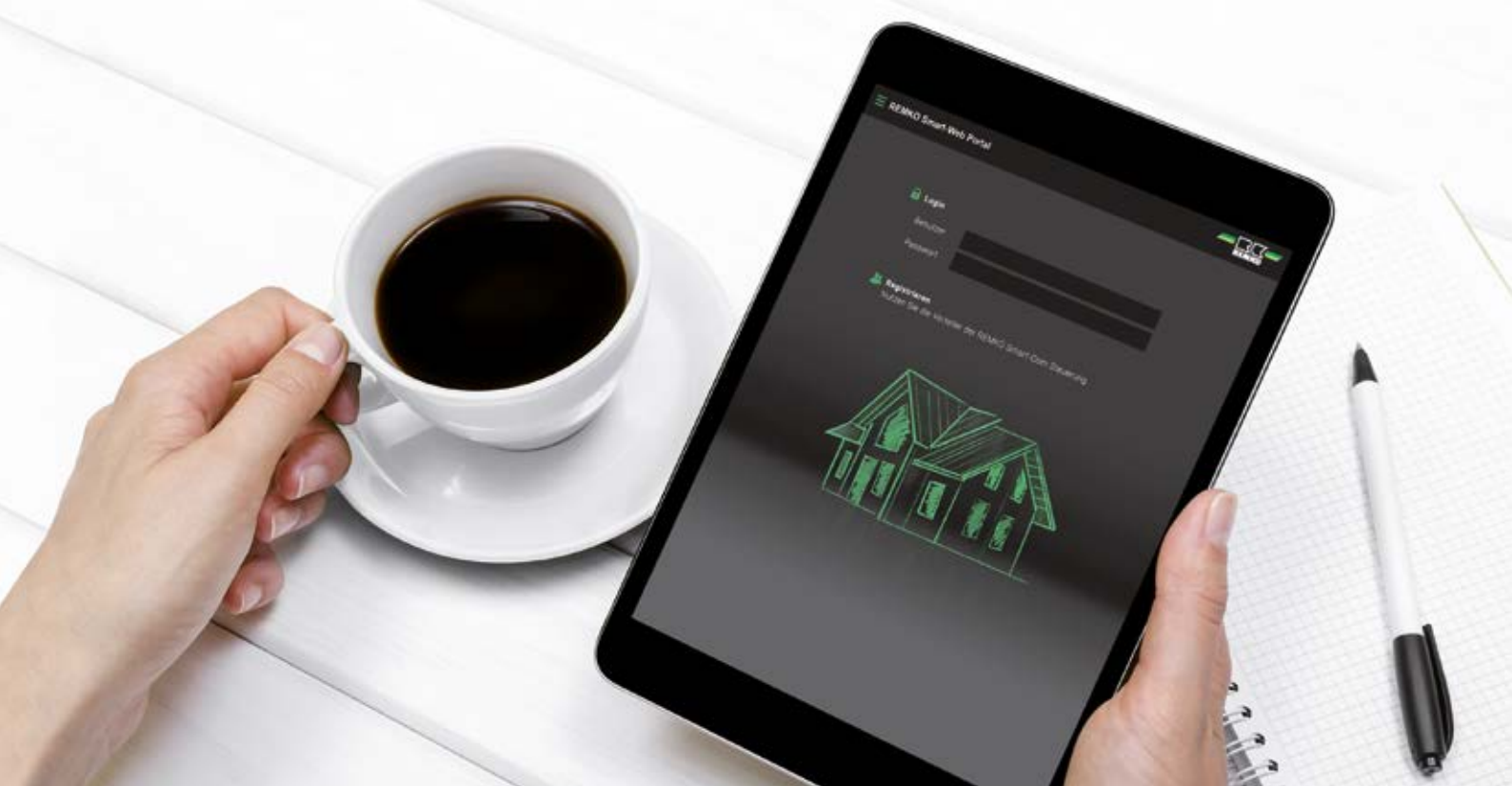
Remote control via the Internet with Smart-Web



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 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 "smartweb.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  
MODEL**



## 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 Touch 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 <sup>5)</sup>		2-7 kW	7-12 kW	12-18 kW
Unit type		WKF 70 Neo compact	WKF 120 Neo compact	WKF 180 Neo compact
Version		Single split	Single split	Single split
System		Air / water	Air / water	Air / water
Operating mode		Heating/hot water/ cooling	Heating/hot water/ cooling	Heating/cooling
Inverter technology		Series	Series	Series
SmartControl 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
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 <sup>4)</sup>		A++ / A++	A++ / A+	A++ / A++
Rated heating capacity / COP for A7/W35 <sup>1)</sup>		kW / -	5.45 / 4.6	9.86 / 4.4
Rated heating capacity / COP for A2/W35 <sup>1)</sup>		kW / -	4.61 / 3.5	6.95 / 3.6
Rated heating capacity / COP for A-7/W35 <sup>1)</sup>		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 <sup>1)</sup>		kW / -	4.90 / 2.8	6.79 / 2.3
Rated cooling capacity / EER for A35/W18 <sup>1)</sup>		kW / -	6.70 / 3.6	5.30 / 3.7
Rated cooling capacity / EER for A27/W18 <sup>1)</sup>		kW / -	6.80 / 3.9	9.46 / 3.6
Min. supply temperature, cooling water		°C	+ 7	+ 7
Refrigerant <sup>2)</sup>		R410A	R410A	R410A
Basic refrigerant filling volume / CO <sub>2</sub> 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
Rated power consumption for A7/W35		kW	1.18	2.22
Rated current consumption for A7/W35		A	5.19	10.44
Rated flow rate of water at Δt 5 K		m <sup>3</sup> /h	0.95	1.7
External maximum pressure loss (heating system)		kPa	80	80
Hydraulic connection, inlet flow/return line, flat-sealing		Inch	1¼" outdoor unit	1¼" outdoor unit
Pipeline diameter to be used on site, Cu pipe		mm	28	28
Sound pressure level L <sub>pA</sub> (outdoor unit) rated/max.		dB(A)	38/37	42/41
Sound power level L <sub>WA</sub> (outdoor unit) rated/max.		dB(A)	63/60	67/64
Dimensions of indoor unit, height/width/depth (200 l)		mm	1350/555/860	1350/555/860
Dimensions of indoor unit, height/width/depth (300 l)		mm	1420/650/960	1420/650/960
Dimensions outdoor unit Height / width / depth		mm	640/880/310	1010/940/330
Weight of indoor unit / outdoor unit (200 L)		kg	131/50	133/74
Weight of indoor unit / outdoor unit (300 L)		kg	154/50	156/74
<b>With domestic water tank EWS 200-E, including Smart-Control Touch</b>				
outdoor unit in white				
Ref. no.		258070	258120	258180
<b>With domestic water tank EWS 200-E, including Smart-Control Touch S-Line, outdoor unit in silver, similar to RAL 9006</b>				
Ref. no.		258072	258122	258182
<b>With domestic water tank EWS 301-E, including Smart-Control Touch</b>				
outdoor unit in white				
Ref. no.		258080	258130	258190
<b>With domestic water tank EWS 301-E, including Smart-Control Touch S-Line, outdoor unit in silver, similar to RAL 9006</b>				
Ref. no.		258082	258132	258192

<sup>1)</sup> COP / EER according to EN 14511, <sup>2)</sup> GWP = 2088

<sup>3)</sup> Distance 5 m, full sphere, A7/W55

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

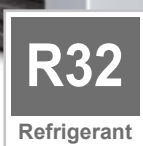
<sup>5)</sup> Total heating requirement, flow 35°C, monoenergetic

# REMKO WKF-COMPACT SERIES

Smart heat pumps

**NEW**

Available as of June 2021



## 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 pre-mounted 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 Touch – 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 <sup>5)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80 compact	WKF 100 compact	WKF 130 compact	WKF 170 compact
Design		Single split	Single split	Single split	Single split
System		Air / water	Air / water	Air / water	Air / water
Operating mode		Heating/cooling/ hot water	Heating/cooling/ hot water	Heating/cooling/ hot water	Heating/cooling/ hot water
Testing		EHPA	EHPA	EHPA	EHPA
Inverter technology		Series	Series	Series	Series
Smart Control		Series	Series	Series	Series
Preparation for domestic water		Series	Series	Series	Series
Domestic water tank WKT 300 (enamelled) integrated	Litre	300	300	300	300
Heat exchanger area, domestic water tank	m <sup>2</sup>	3.5	3.5	3.5	3.5
Number of indoor units/outdoor units		1/1	1/1	1/1	1/1
Night operation (power control)		Series	Series	Series	Series
Service limits, heating		°C	-20 to +37	-20 to +37	-20 to +37
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Energy efficiency rating for heating <sup>4)</sup>		A++ / A++	A+++ / A+++	A+++ / A++	A++ / A++
Rated heating capacity / COP for A7/W35 <sup>1)</sup>	kW / -	6.4 / 5.21	7.9 / 5.26	10.3 / 5.07	14.02 / 4.5
Rated heating capacity / COP for A2/W35 <sup>1)</sup>	kW / -	5.3 / 4.13	5.9 / 4.16	8.7 / 4.14	9.32 / 3.5
Rated heating capacity / COP for A-7/W35 <sup>1)</sup>	kW / -	4.2 / 3.50	5.2 / 3.56	6.9 / 3.47	8.20 / 2.9
Max. supply temperature, heating water	°C	+ 60	+ 60	+ 60	+ 60
Service limits, cooling		°C	+15 to +45	+15 to +45	+15 to +45
Rated cooling capacity (min. / max.)	kW	4.0 (0.8-6.5)	6.0 (1.5-8.2)	8.0 (2.1-10.5)	12.0 (3.1-13.2)
Rated cooling capacity / EER for A35/W7 <sup>1)</sup>	kW / -	4.5 / 2.7	7.2 / 2.8	8.5 / 2.7	12.4 / 3.17
Rated cooling capacity / EER for A35/W18 <sup>1)</sup>	kW / -	7.5 / 4.1	9.5 / 4.2	10.8 / 3.9	14.2 / 4.31
Min. supply temperature, cooling water	°C	+ 7	+ 7	+ 7	+ 7
Refrigerant <sup>2)</sup>		R32	R32	R32	R32
Basic refrigerant filling volume / CO <sub>2</sub> equivalent	kg/t	1.0 / 0.68	1.6 / 1.1	1.8 / 1.2	2.55 / 1.7
Refrigerant connections	Inch	1/4 / 3/8	3/8 / 5/8	3/8 / 5/8	3/8 / 3/4
Max. refrigerant line length	m	20	20	20	20
Max. refrigerant line height	m	10	10	10	10
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	230/1~/50	400/3~/50
Rated power consumption for A7/W35	kW	1.10	1.51	2.07	2.62
Rated current consumption for A7/W35	A	5.40	6.55	8.85	12.96
On-site fuse protection (outdoor unit)	A low-acting	16	20	20	3x20
Rated flow rate of water at Δt 5 K	m <sup>3</sup> /h	1.1	1.4	1.8	2.3
External maximum pressure loss (heating system)	kPa	80	80	70	60
Max. operating pressure, water	bar	3.0	3.0	3.0	3.0
Hydraulic connection, inlet flow/return line, flat-sealing	Inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Pipeline diameter to be used on site, Cu pipe	mm	28	28	28	35
Sound power level L <sub>WA</sub> (outdoor unit) rated <sup>3)</sup> /max./night	dB(A)	54/56/51	57/59/54	58/61/55	61/63/57
Sound pressure level L <sub>pA</sub> rated <sup>3)</sup> /max./night	dB(A)	32/34/29	35/37/32	36/39/33	39/41/35
Standard colour of outdoor unit housing		Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Dimensions – indoor unit, height/width/depth	mm	1928/800/790	1928/800/790	1928/800/790	1928/800/790
Dimensions outdoor unit Height / width / depth	mm	1010/700/370	1165/845/370	1165/845/370	1450/1085/425
Weight indoor unit / outdoor unit	kg	236/62	238/73	240/80	240/95
Design line Graphit price					
Ref. no.		264005	264015	264025	264035

<sup>1)</sup> COP / EER according to EN 14511, <sup>2)</sup> GWP = 675 <sup>3)</sup> Distance 5m, full sphere, A7/W55

<sup>5)</sup> Total heating requirement, flow 35°C, monoenergetic

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

## Accessories

Unit type	WKF 80 compact	WKF 100 compact	WKF 130 compact	WKF 170 compact
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-BVT</b> , 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. <b>Note:</b> No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016	259016
<b>REMKO Smart-Cool</b> 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	259085

# REMKO WKF SERIES

Smart heat pumps

**NEW**

Available as of June 2021



## 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 Touch – 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 <sup>5)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80	WKF 100	WKF 130	WKF 170
Version		Single split	Single split	Single split	Single split
System		Air / water	Air / water	Air / water	Air / water
Operating mode		Heating / cooling	Heating / cooling	Heating / cooling	Heating / cooling
Testing		EHPA	EHPA	EHPA	EHPA
Inverter technology		Series	Series	Series	Series
Smart Control		Series	Series	Series	Series
Preparation for domestic water		Series	Series	Series	Series
Domestic water tank WKT 300 (enamelled) integrated	Litre	-	-	-	-
Heat exchanger area, domestic water tank	m <sup>2</sup>	-	-	-	-
Number of indoor units/outdoor units		1/1	1/1	1/1	1/1
Night operation (power control)		Series	Series	Series	Series
Service limits, heating	°C	-20 to +37	-20 to +37	-20 to +37	-20 to +37
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Energy efficiency rating for heating <sup>4)</sup>		A++ / A++	A++ / A+++	A+++ / A++	A++ / A++
Rated heating capacity / COP for A7/W35 <sup>1)</sup>	kW / -	6.4 / 5.21	7.9 / 5.26	10.3 / 5.07	14.02 / 4.5
Rated heating capacity / COP for A2/W35 <sup>1)</sup>	kW / -	5.3 / 4.13	5.9 / 4.16	8.7 / 4.14	9.32 / 3.5
Rated heating capacity / COP for A-7/W35 <sup>1)</sup>	kW / -	4.2 / 3.50	5.2 / 3.56	6.9 / 3.47	8.20 / 2.9
Max. supply temperature, heating water	°C	+ 60	+ 60	+ 60	+ 60
Service limits, cooling	°C	+15 to +45	+15 to +45	+15 to +45	+15 to +45
Rated cooling capacity (min. / max.)	kW	4.0 (0.8-6.5)	6.0 (1.5-8.2)	8.0 (2.1-10.5)	12.0 (3.1-13.2)
Rated cooling capacity / EER for A35/W7 <sup>1)</sup>	kW / -	4.5 / 2.7	7.2 / 2.8	8.5 / 2.7	12.4 / 3.17
Rated cooling capacity / EER for A35/W18 <sup>1)</sup>	kW / -	7.5 / 4.1	9.5 / 4.2	10.8 / 3.9	14.2 / 4.31
Min. supply temperature, cooling water	°C	+ 7	+ 7	+ 7	+ 7
Refrigerant <sup>2)</sup>		R32	R32	R32	R32
Basic refrigerant filling volume / CO <sub>2</sub> equivalent	kg/t	1.0 / 0.68	1.6 / 1.1	1.8 / 1.2	2.55 / 1.7
Refrigerant connections	Inch	1/4 / 3/8	3/8 / 5/8	3/8 / 5/8	3/8 / 3/4
Max. refrigerant line length	m	20	20	20	20
Max. refrigerant line height	m	10	10	10	10
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	230/1~/50	400/3~/50
Rated power consumption for A7/W35	kW	1.10	1.51	2.07	2.62
Rated current consumption for A7/W35	A	5.400	6.55	8.85	12.96
On-site fuse protection (outdoor unit)	A slow-acting	16	20	20	3x20
Rated flow rate of water at Δt 5 K	m <sup>3</sup> /h	1.1	1.4	1.8	2.3
External maximum pressure loss (heating system)	kPa	80	80	70	60
Buffer tank required		Yes	Yes	Yes	Yes
Max. operating pressure, water	bar	3.0	3.0	3.0	3.0
Hydraulic connection, inlet flow/return line, flat-sealing	Inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Pipeline diameter to be used on site, Cu pipe	mm	28	28	28	35
Sound power level LwA (outdoor unit) rated <sup>3)/max./night</sup>	dB(A)	54/56/51	57/59/54	58/61/55	61/63/57
Sound pressure level LpA rated <sup>3)/max./night</sup>	dB(A)	32/34/29	35/37/32	36/39/33	39/41/35
Standard colour of outdoor unit housing		Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Dimensions - indoor unit, height/width/depth	mm	500/800/500	500/800/500	500/800/500	500/800/500
Dimensions outdoor unit Height / width / depth	mm	1010/700/370	1165/845/370	1165/845/370	1450/1085/425
Weight indoor unit / outdoor unit	kg	41/62	43/73	45/80	47/95
<b>Design line Graphit price</b>					
Ref. no.		264045	264055	264065	264075

<sup>1)</sup> COP / EER according to EN 14511    <sup>2)</sup> GWP = 675    <sup>3)</sup> Distance of 5m, half sphere, A7/W55    <sup>4)</sup> Average, composite system W35/55°C including Smart Control

<sup>5)</sup> Total heating requirement, inlet flow 35°C, monoenergetic

## Accessories

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-Cool</b> 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	259085

# REMKO WKF-DUO SERIES

Smart heat pumps

**NEW**

Available as of September 2021



## 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.



### 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

### Scope of supply

- REMKO Smart-Control Touch – 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

## Technical data

Area of use: heating <sup>5)</sup>		17-24 kW	24-32 kW
Unit type		WKF 130 DUO	WKF 170 DUO
Design		Cascade 2x WKF 130	Cascade 2x WKF 170
System		Air / water	Air / water
Operating mode		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 <sup>2</sup>	-
Number of indoor units/outdoor units		1/2	1/2
Night operation (power control)		Series	Series
Service limits, heating <sup>2)</sup>		°C	-20 to +37
Rated heating capacity (min. / max.)		kW	16.0 (2.0 - 25.0)
Energy efficiency rating for heating <sup>4)</sup>		A+++ / A++	A++ / A+++
Rated heating capacity / COP for A7/W35 <sup>1)</sup>		kW / -	20.6 / 5.1
Rated heating capacity / COP for A2/W35 <sup>1)</sup>		kW / -	17.4 / 4.08
Rated heating capacity / COP for A-7/W35 <sup>1)</sup>		kW / -	13.8 / 3.47
Max. supply temperature, heating water		°C	+ 60
Service limits, cooling		°C	+15 to +45
Rated cooling capacity (min. / max.)		kW	16.0 (2.1-21.0)
Rated cooling capacity / EER for A35/W7 <sup>1)</sup>		kW / -	17.0 / 2.7
Rated cooling capacity / EER for A35/W18 <sup>1)</sup>		kW / -	21.6 / 3.9
Min. supply temperature, cooling water		°C	+ 7
Refrigerant		R32	R32
Basic refrigerant filling volume for each outdoor unit / CO <sub>2</sub> equivalent		kg/t	2x 1.8 / 2x1.2
Refrigerant connections for each outdoor unit		Inch	3/8 / 5/8
Max. refrigerant line length per outdoor unit		m	20
Max. refrigerant line length per outdoor unit		m	10
Voltage supply for each outdoor unit		V/Ph/Hz	230/1~/50
Rated power consumption for A7/W35		kW	2x 2.07
Rated current consumption for A7/W35		A	2x 8.85
On-site fuse protection (outdoor unit)		A slow-acting	2x 20
Rated flow rate of water at Δt 5 K		m <sup>3</sup> /h	2x1.8
External maximum pressure loss (heating system)		kPa	70
Max. operating pressure, water		bar	3.0
Hydraulic connection, supply/return line		Inch	1 1/2"
Pipeline diameter to be used on site, Cu pipe		mm	42
Sound power level L <sub>WA</sub> (per outdoor unit) rated <sup>3)</sup> /max./night		dB(A)	58/61/55
Sound pressure level L <sub>pA</sub> (per outdoor unit) rated <sup>3)</sup> /max./night		dB(A)	36/39/33
Outdoor unit, standard colour		Silver (RAL 9006)	Silver (RAL 9006)
Dimensions - indoor unit, height/width/depth		mm	1000/800/500
Dimensions outdoor unit Height / width / depth		mm	1165/845/370
Weight indoor unit / outdoor unit		kg	78 / 2x 80
Ref. no.		264085	264095

<sup>1)</sup> COP / EER according to EN 14511,

<sup>2)</sup> GWP = 675

<sup>3)</sup> Distance 5m, full sphere, A7/W55

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

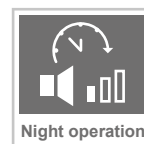
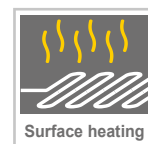
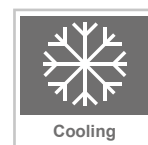
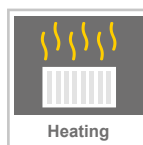
<sup>5)</sup> Total heating requirement, flow 35°C, monoenergetic

## Accessories

Unit type	WKF 130 DUO	WKF 170 DUO
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 9 kW for monoenergetic operation		
<b>Note:</b> No combination with REMKO Smart-BVT possible.	264540	264545
<b>REMKO Smart-Cool</b> 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.

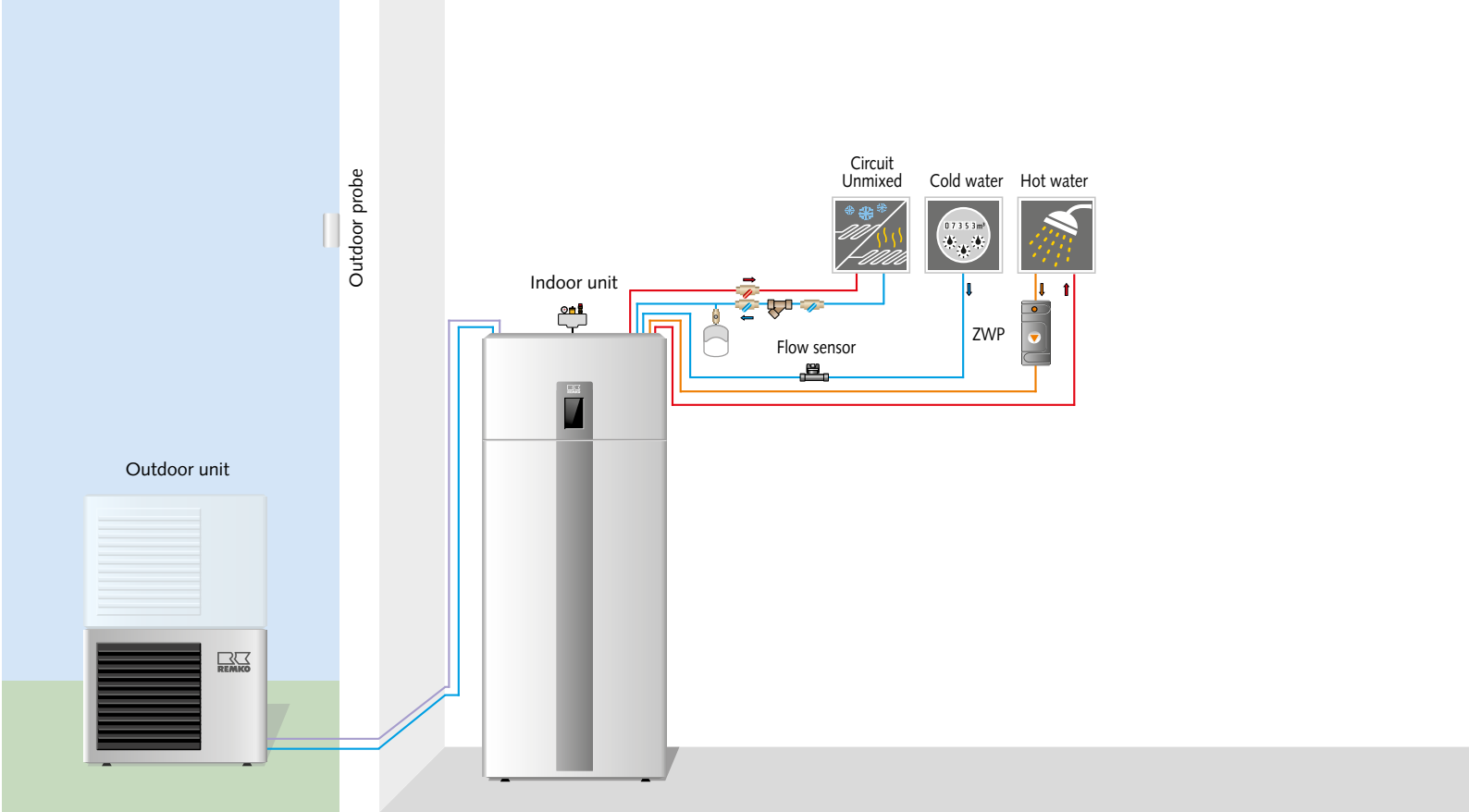
#### Package comprising:

- 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 <sup>1)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80	WKF 100	WKF 130	WKF 170
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	10.0 (2.0 - 12.5)	15.0 (3.0 - 16.8)
Rated cooling capacity (min. / max.)	kW	4.0 (0.8-6.5)	6.0 (1.5-8.2)	8.0 (2.1-10.5)	12.0 (3.1-13.2)
Energy efficiency class <sup>2)</sup>					
External maximum pressure loss	kPa	80	80	70	60
Ref. no.		264102	264107	264112	264117

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

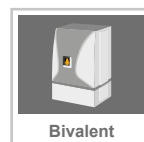
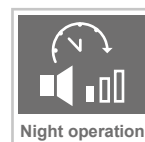
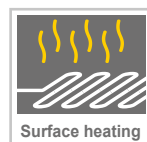
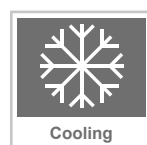
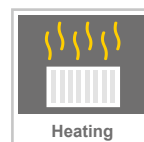
<sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

## Accessories

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-Cool</b> 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	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 PWM pump regulated in a needs-based manner.

#### Package comprising:

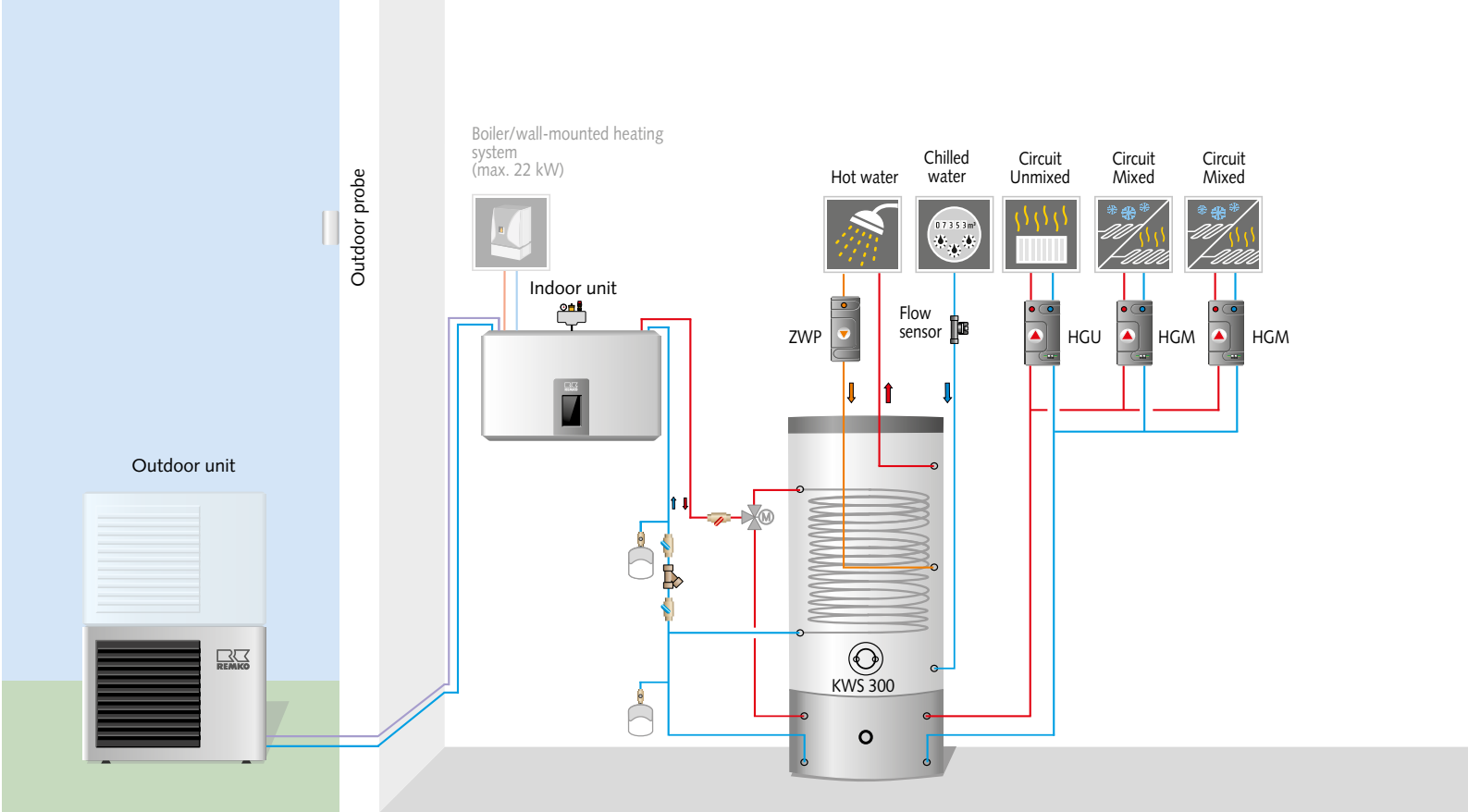
- Indoor unit
- 1x outdoor units
- Combination buffer tank KWS 300 (300 l)
- 1x condensate drip trays, including oil separator for outdoor unit
- 3-way changeover valve



Condensate tray,  
including oil separator

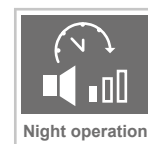
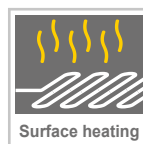
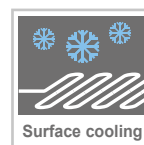
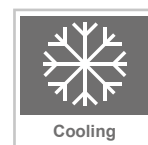
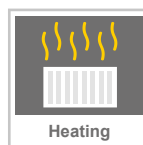


Buffer tank for cooling and hot  
water and hot water tank,  
KWS 300



# 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. Domestic water preparation 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 PWM pump 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)

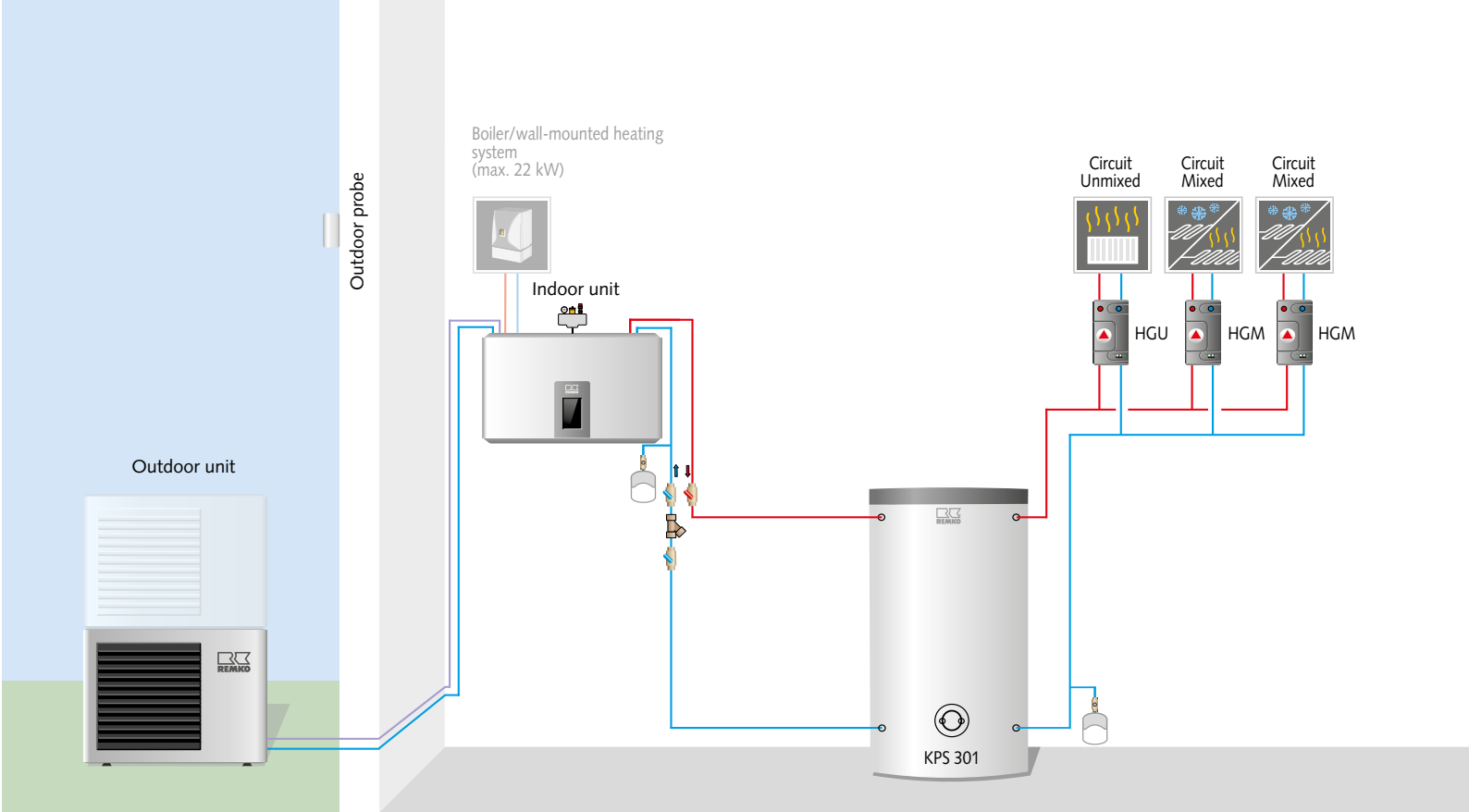


Condensate tray, including oil separator



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 <sup>1)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80	WKF 100	WKF 130	WKF 170
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Rated cooling capacity (min. / max.)	kW	4.0 (0.8 - 6.5)	6.0 (1.5 - 8.2)	8.0 (2.1 - 10.5)	12.0 (3.1 - 13.2)
Energy efficiency class <sup>2)</sup>		A++/A++	A++/A+++	A+++/A++	A++/A++
External maximum pressure loss	kPa	80	80	70	60
Ref. no.		264142	264147	264152	264157

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

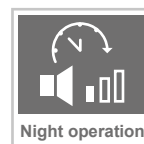
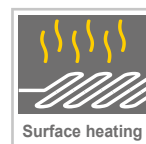
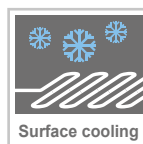
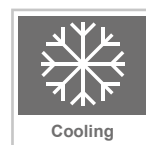
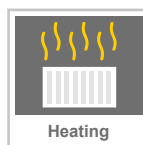
<sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

## Accessories

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-BVT</b> , 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. <b>Note:</b> No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016	259016
<b>REMKO Smart-Cool</b> 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	259085
<b>Heating circuit pump set HGU</b> Speed-controlled heating circuit pump group (PWM)/unmixed	259046	259046	259046	259046
<b>Heating circuit pump set HGM</b> Speed-controlled heating circuit pump group (PWM)/mixed	259047	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



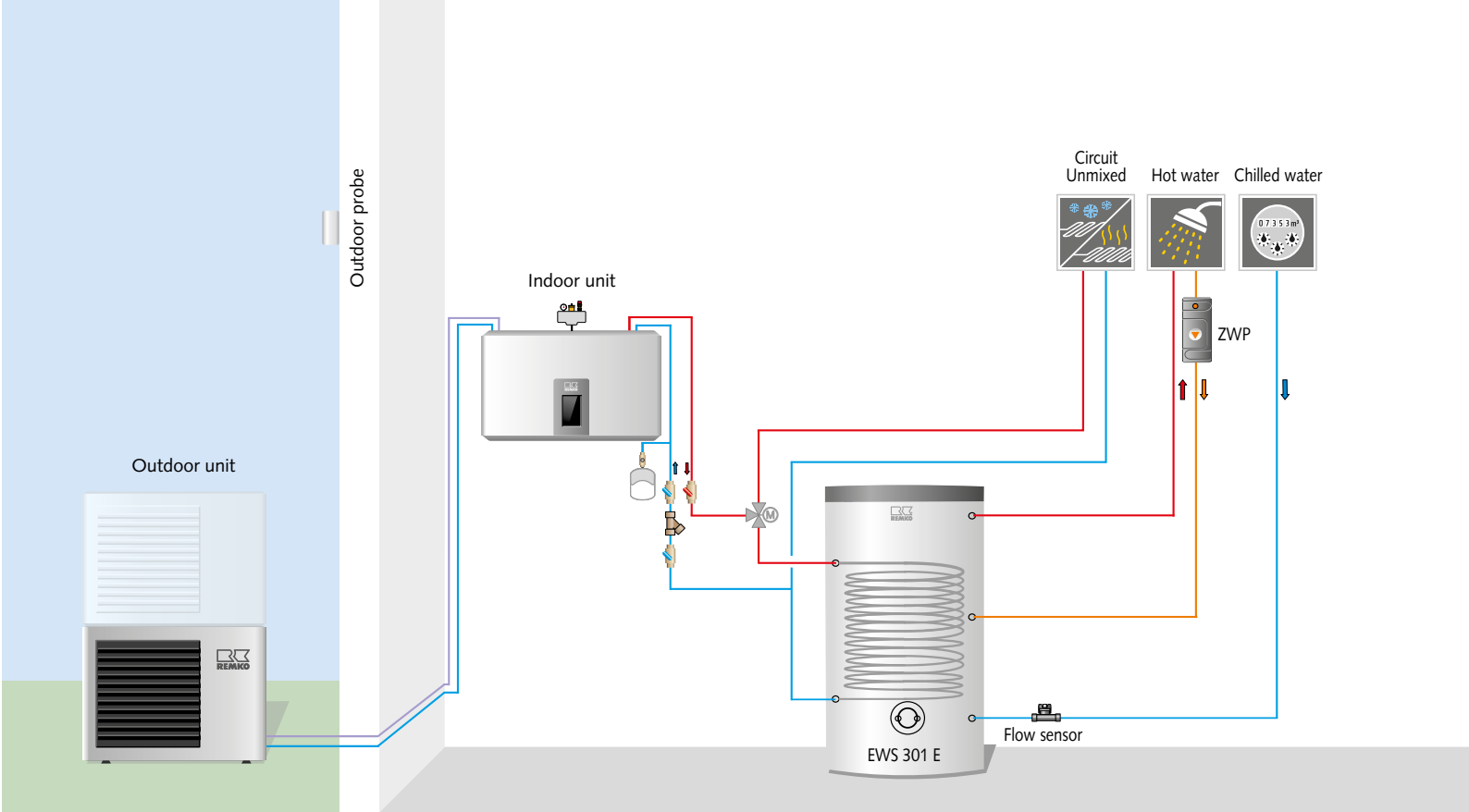
3-way changeover valve, 5/4"



Condensate tray, including oil separator



Tank for domestic water heating, EWS 301 E



Hydraulic diagram of Dortmund (example for monoenergetic operation)

## Technical data

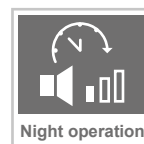
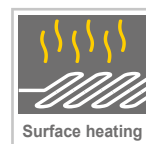
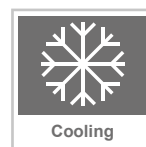
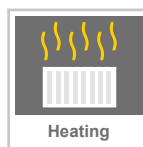
Area of use: heating <sup>1)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80	WKF 100	WKF 130	WKF 170
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Rated cooling capacity (min. / max.)	kW	4.0 (0.8 - 6.5)	6.0 (1.5 - 8.2)	8.0 (2.1 - 10.5)	12.0 (3.1 - 13.2)
Energy efficiency class <sup>2)</sup>		A++/A++	A++/A+++	A+++/A++	A++/A++
External maximum pressure loss	kPa	80	80	70	60
Ref. no.		264162	264167	264172	264177

## Accessories

Unit type		WKF 80	WKF 100	WKF 130	WKF 170
REMKO Smart-Count, factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water		259010	259010	259010	259010
REMKO SmartServ, installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.		264500	264505	264510	264515
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	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 20.1



3-way changeover valve, 5/4"



Condensate tray, including oil separator

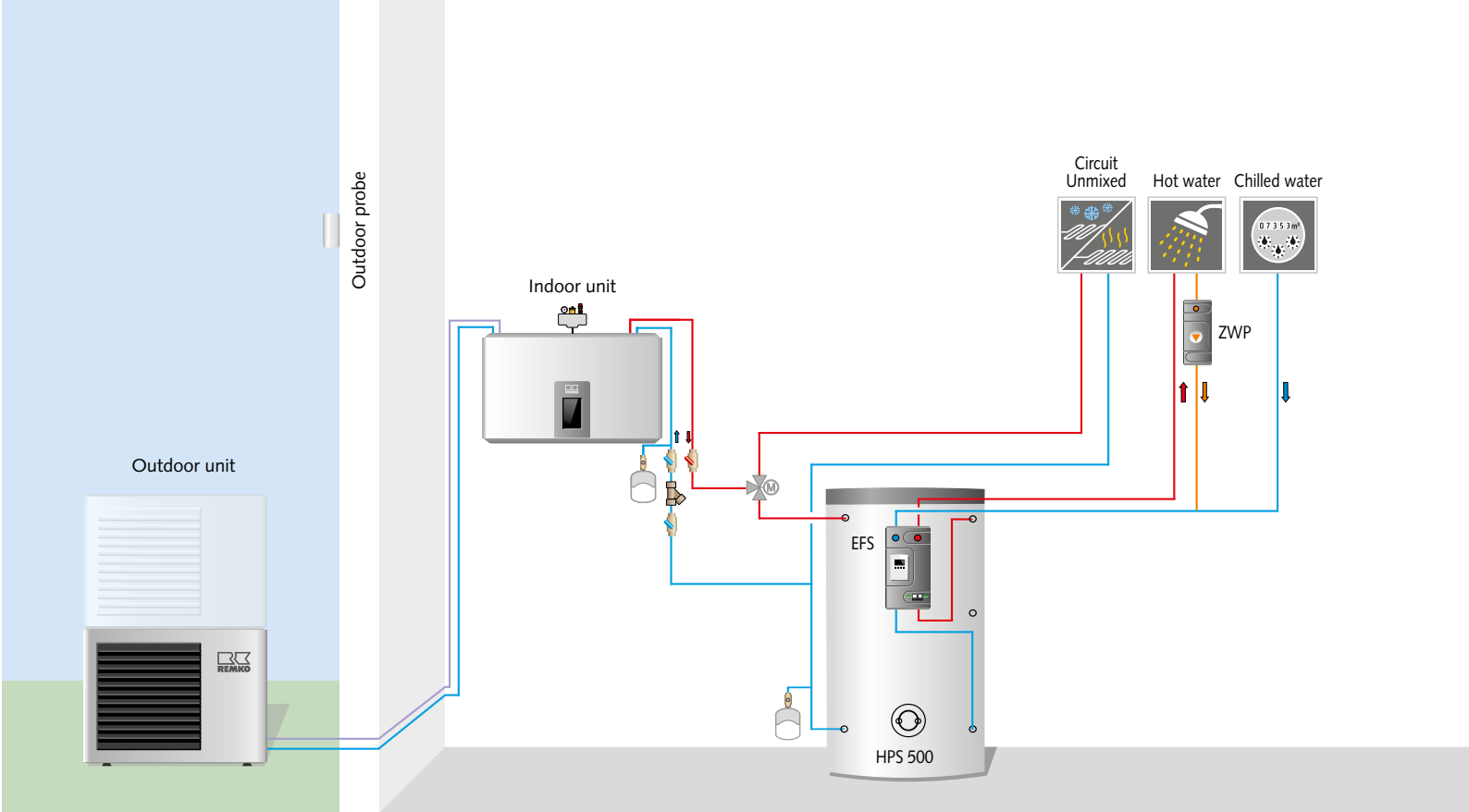


Buffer tank for drinking water, HPS 500



Fresh water station with pump and flow switch, EFS 20.1





Hydraulic diagram of Düsseldorf (example for monoenergetic operation)

## Technical data

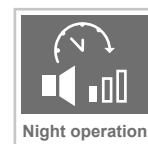
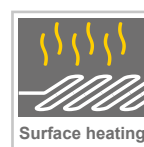
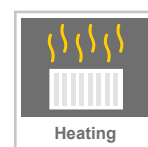
Area of use: heating <sup>1)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
<b>Unit type</b>		<b>WKF 80</b>	<b>WKF 100</b>	<b>WKF 130</b>	<b>WKF 170</b>
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Rated cooling capacity (min. / max.)	kW	4.0 (0.8 - 6.5)	6.0 (1.5 - 8.2)	8.0 (2.1 - 10.5)	12.0 (3.1 - 13.2)
Energy efficiency class <sup>2)</sup>		A++/A++	A++/A+++	A+++/A++	A++/A++
External maximum pressure loss	kPa	80	80	70	60
Ref. no.		264182	264187	264192	264197

## Accessories

Unit type		WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water		259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.		264500	264505	264510	264515
<b>REMKO Smart-Cool</b> 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	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 m<sup>2</sup> 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 subassemblies HGM/HGU (can be ordered separately) for the heating circuits are equipped with a high-efficiency PWM pump 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 20.1
- Immersion probe and collector probe



3-way changeover valve, 5/4"



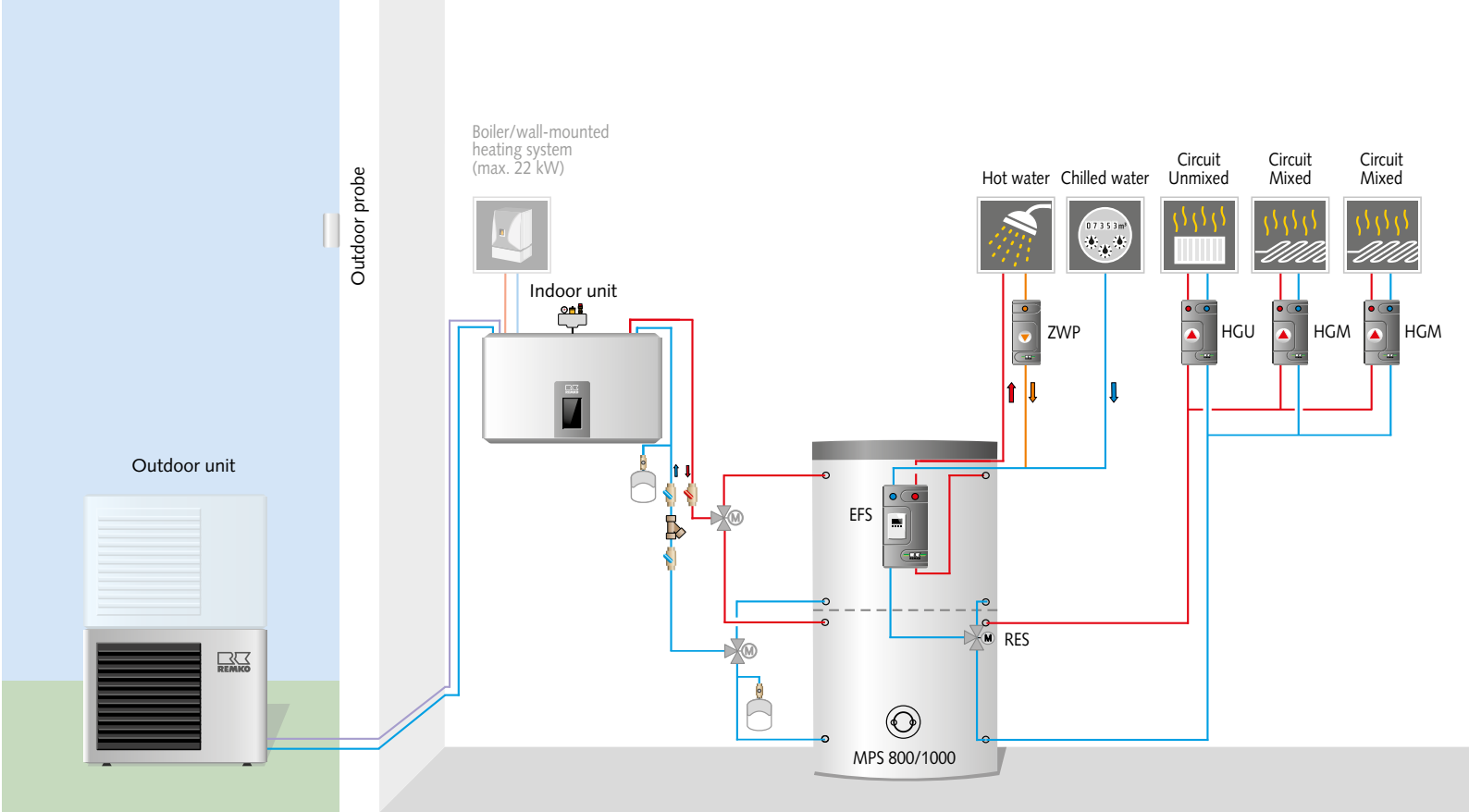
Condensate tray, including oil separator



Multifunctional buffer tank MPS 800 or MPS 1000



Fresh water station with pump and flow switch, EFS 20.1



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

## Technical data

Area of use: heating <sup>1)</sup>		2-7 kW	7-10 kW	10-13 kW	13-17 kW
<b>Unit type</b>		<b>WKF 80</b>	<b>WKF 100</b>	<b>WKF 130</b>	<b>WKF 170</b>
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	10.0 (2.0 - 12.5)	15.0 (3.0 - 16.8)
Energy efficiency class <sup>2)</sup>		A++/A++	A++/A+++	A+++/A++	A++/A++
External maximum pressure loss	kPa	80	80	70	60
<b>With MPS 800 design line Graphit</b>					
Ref. no.		264202	264212	264222	264232
<b>With MPS 1000 design line Graphit</b>					
Ref. no.		264207	264217	264227	264237

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

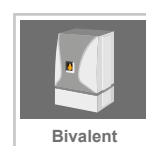
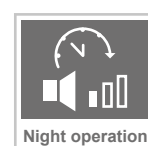
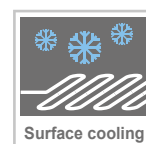
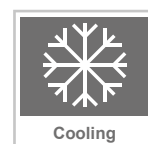
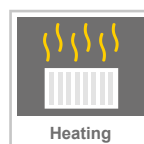
<sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

## Accessories

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-BVT</b> , 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. <b>Note:</b> No combination with REMKO SmartServ possible. Only in combination with buffer tank.	254053	259015	259016	259016
<b>Heating circuit pump set HGU</b>				
Speed-controlled heating circuit pump group (PWM)/unmixed	259046	259046	259046	259046
<b>Heating circuit pump set HGM</b>				
Speed-controlled heating circuit pump group (PWM)/mixed	259047	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. Domestic water preparation 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 PWM pump regulated in a needs-based manner.

#### Package consisting of:

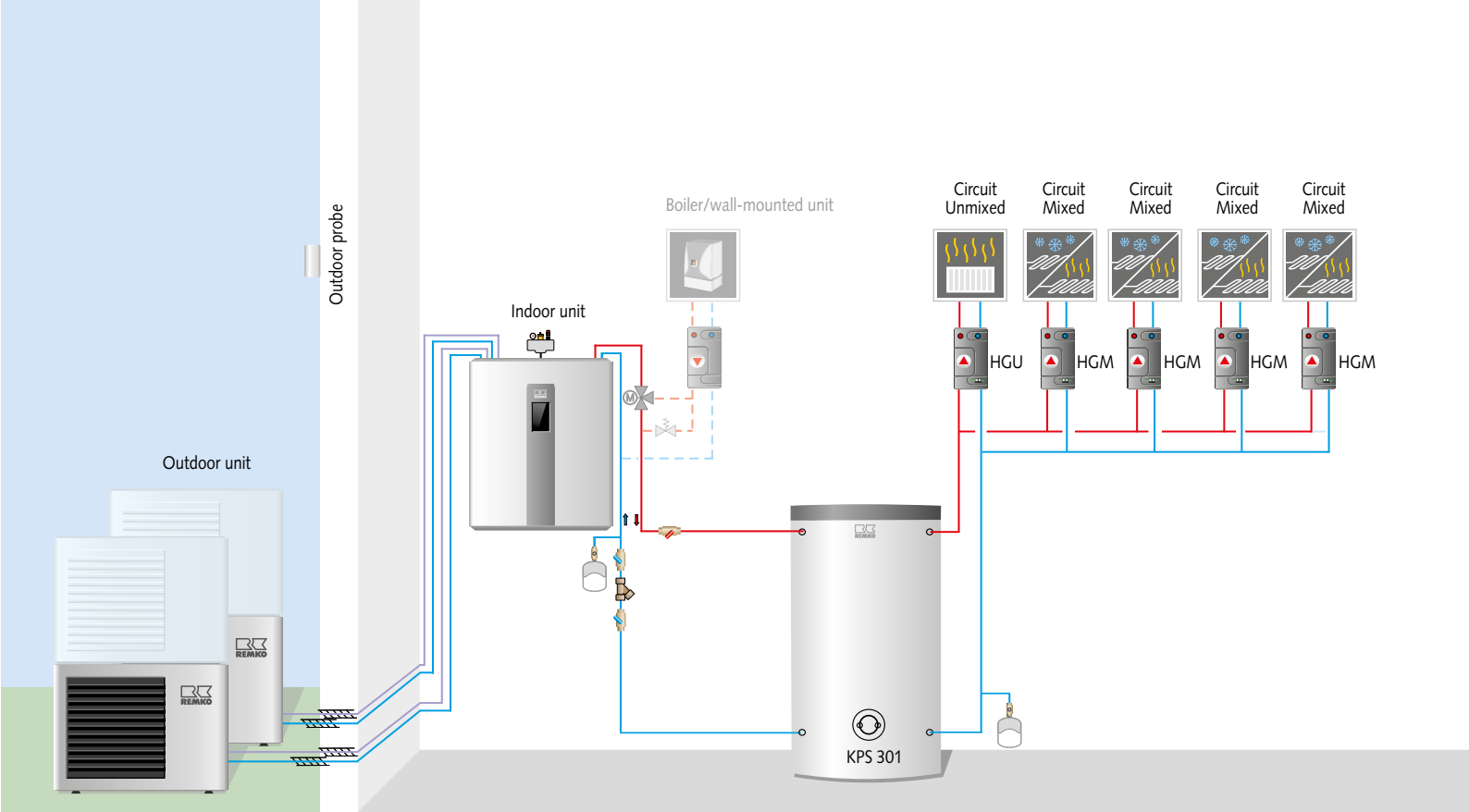
- Indoor unit
- 2x outdoor units
- Buffer tank for cooling and hot water KPS 301 (300 l)
- 2x condensate drip trays, including oil separator for outdoor unit



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 <sup>1)</sup>		17-24 kW	24-32 kW
Unit type		WKF 130 DUO	WKF 170 DUO
Rated heating capacity (min. / max.)	kW	16.0 (2.0 - 25.0)	22.0 (3.0 - 33.6)
Rated cooling capacity (min. / max.)	kW	16.0 (2.1 - 21.0)	24.0 (3.1 - 26.4)
Energy efficiency class <sup>2)</sup>		A+++ / A++	A++ / A+++
Ref. no.		264242	264247

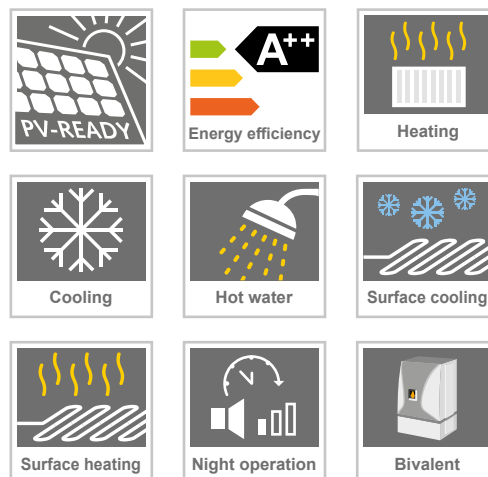
<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic      <sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

### Accessories

Unit type	WKF 130 DUO	WKF 170 DUO
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 9 kW for monoenergetic operation	264540	264545
<b>Note:</b> No combination with REMKO Smart-BVT possible.		
<b>REMKO Smart-Cool</b> 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
<b>Heating circuit pump set HGU</b>		
Speed-controlled heating circuit pump group (PWM)/unmixed	259046	259046
<b>Heating circuit pump set HGM</b>		
Speed-controlled heating circuit pump group (PWM)/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 PWM pump 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"

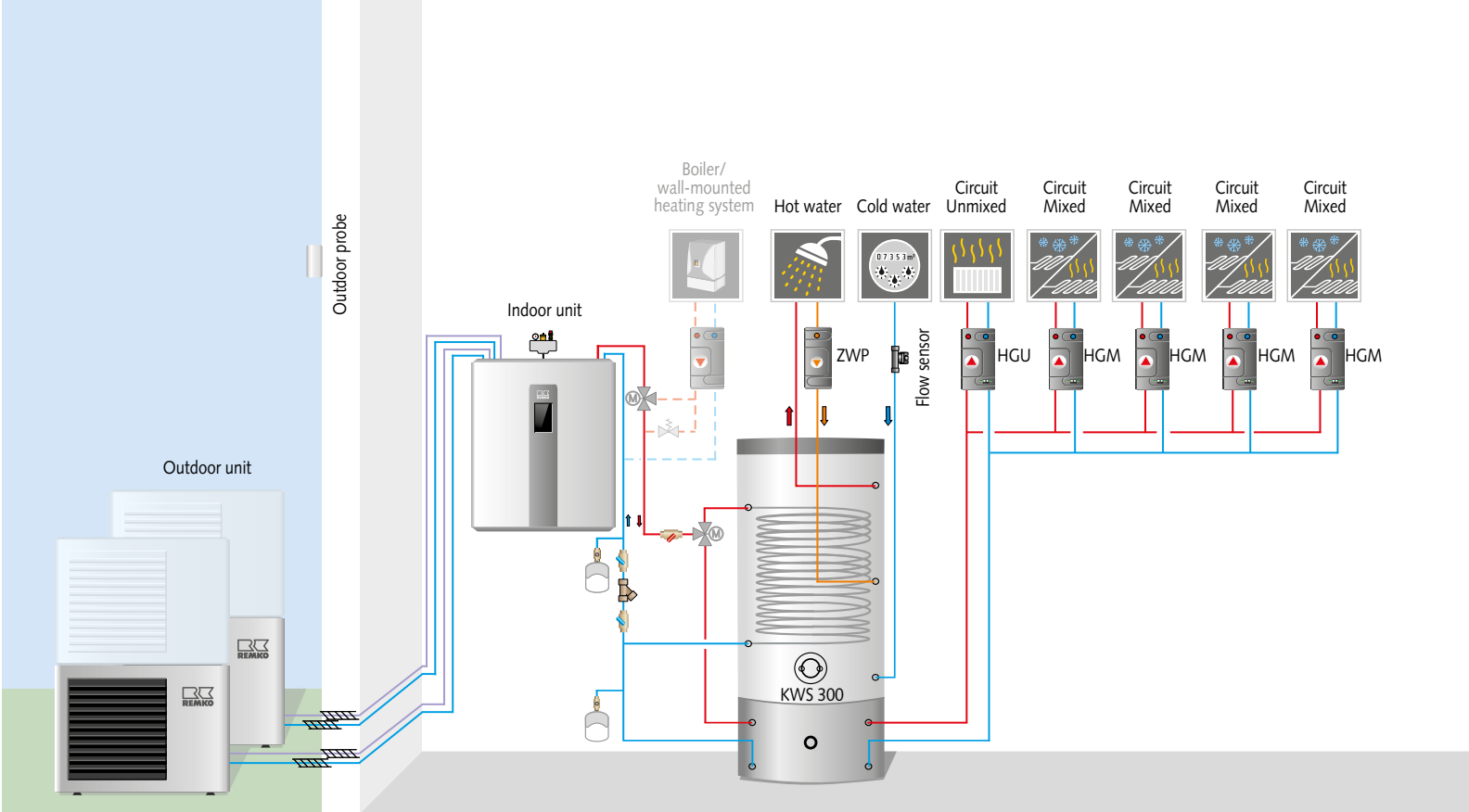


Condensate tray, including oil separator



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





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

## Technical data

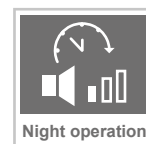
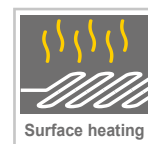
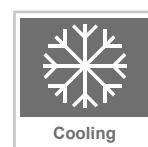
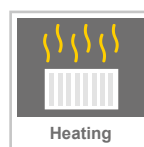
Area of use: heating <sup>1)</sup>		17-24 kW	24-32 kW
Unit type		WKF 130 DUO	WKF 170 DUO
Rated heating capacity (min. / max.)	kW	16.0 (2.0 - 25.0)	22.0 (3.0 - 33.6)
Rated cooling capacity (min. / max.)	kW	16.0 (2.1 - 21.0)	24.0 (3.1 - 26.4)
Energy efficiency class <sup>2)</sup>		A+++ / A++	A++ / A+++
Ref. no.		264252	264257

## Accessories

Unit type	WKF 130 DUO	WKF 170 DUO
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 9 kW for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264540	264545
<b>REMKO Smart-Cool</b> 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
<b>Heating circuit pump set HGU</b> Speed-controlled heating circuit pump group (PWM)/non-mixed	259046	259046
<b>Heating circuit pump set HGM</b> Speed-controlled heating circuit pump group (PWM)/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 20.1/EFS 35.1
- 3-way changeover valve



3-way changeover valve, 6/4"



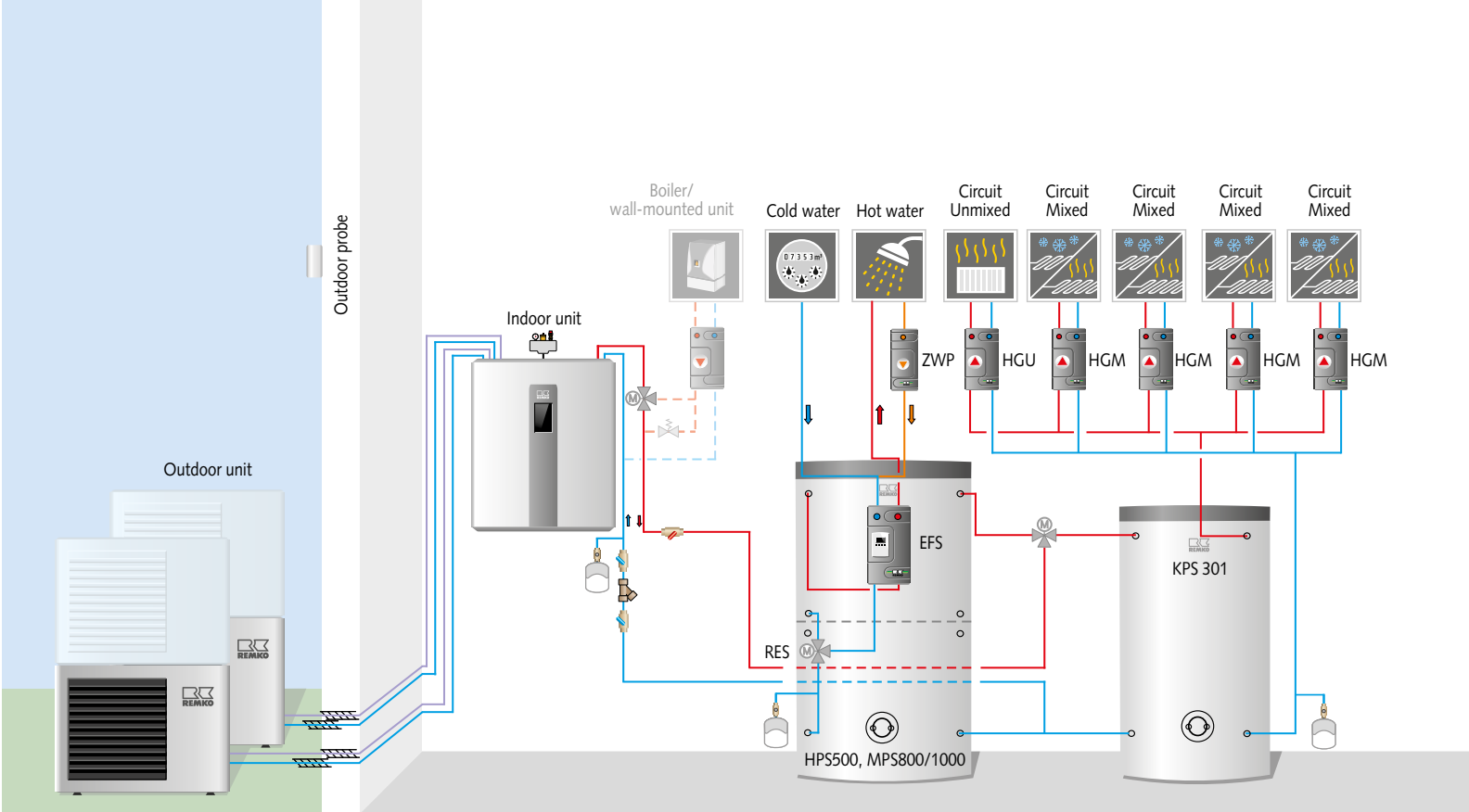
Condensate tray, including oil separator



Buffer tank for cooling and hot water KPS 301



Fresh water station with pump and flow switch, EFS 20.1



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

## Technical data

Area of use: heating <sup>1)</sup>		17-24 kW	24-32 kW
Unit type		WKf 130 DUO	WKf 170 DUO
Rated heating capacity (min. / max.)	kW	16.0 (2.0 - 25.0)	22.0 (3.0 - 33.6)
Rated cooling capacity (min. / max.)	kW	16.0 (2.1 - 21.0)	24.0 (3.1 - 26.4)
Energy efficiency class <sup>2)</sup>		A+++ / A++	A++ / A+++
With HPS 500 and EFS 20.1 design line Graphit			
Ref. no.		264262	264277
With MPS 800 and EFS 35.1 design line Graphit			
Ref. no.		264267	264282
With MPS 1000 and EFS 35.1 design line Graphit			
Ref. no.		264272	264287

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

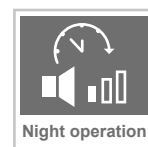
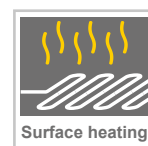
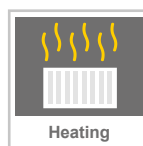
<sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

## Accessories

Unit type	WKf 130 DUO	WKf 170 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	264540	264545
Note: No combination with REMKO Smart-BVT possible.		
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 (PWM)/unmixed	259046	259046
Heating circuit pump set HGM		
Speed-controlled heating circuit pump group (PWM)/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.

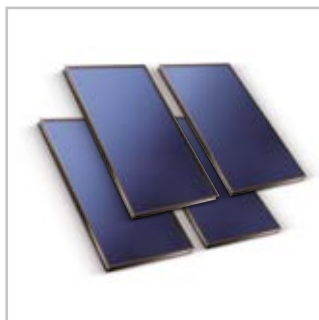
With this heat pump package, both alternatively bivalent and monoenergetically operated systems can be accommodated. The separate pump assemblies HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency pump regulated in a needs-based manner. The solar set included in this package, Type RSK 25-10, with a collector surface of 10.12 m<sup>2</sup>, 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 20.1
- 2x 3-way changeover valve
- Solar set RSK 25-10 (only available in Solar package)



3-way changeover valve, 6/4"



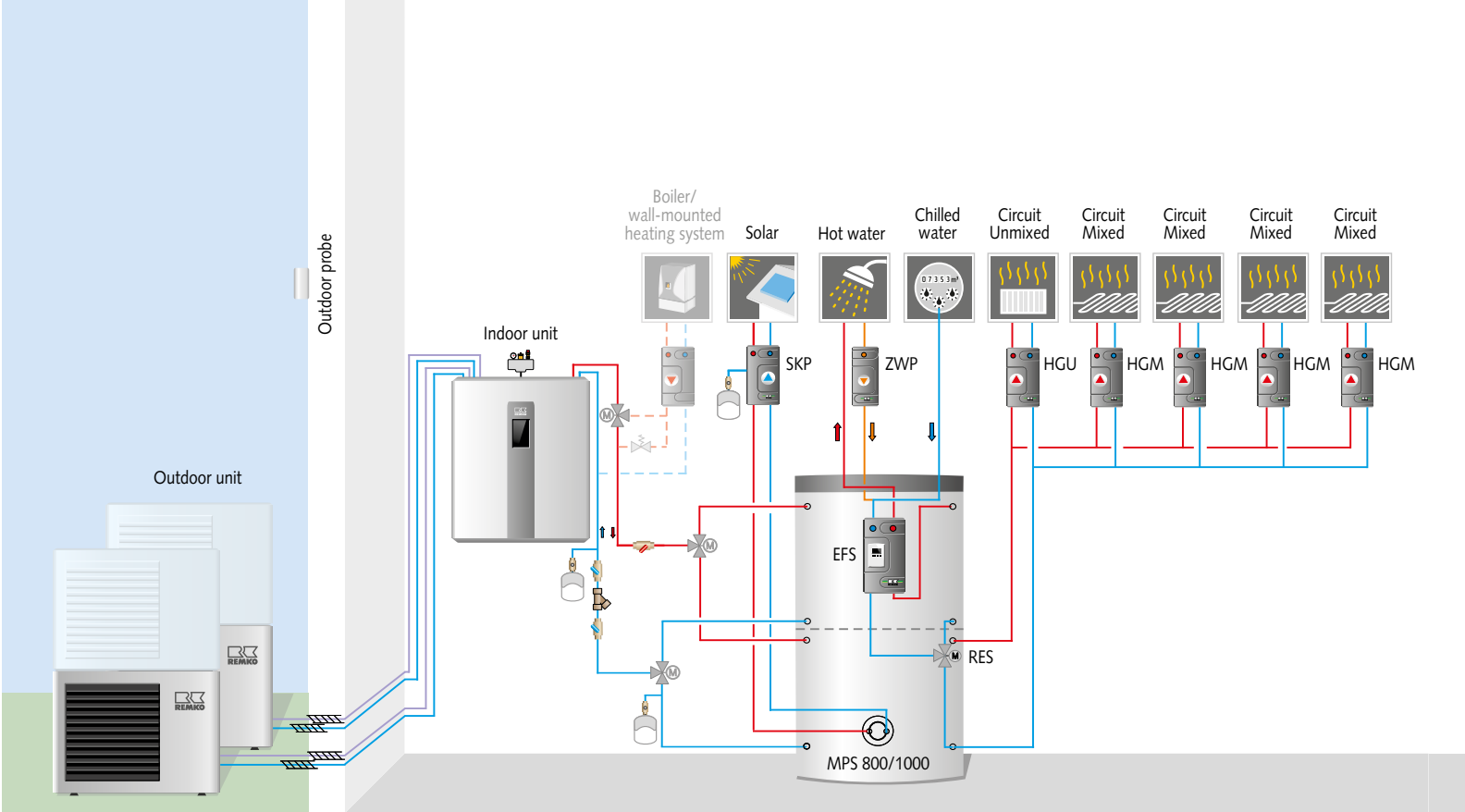
Solar set RSK 25-10



Multifunctional buffer tank MPS 800 or MPS 1000



Fresh water station with pump and flow switch, EFS 20.1



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

## Technical data

Area of use: heating <sup>1)</sup>	17-24 kW	24-32 kW
<b>Unit type</b>	<b>WKf 130 DUO</b>	<b>WKf 170 DUO</b>
Rated heating capacity (min. / max.)	16.0 (2.0 - 25.0)	22.0 (3.0 - 33.6)
Energy efficiency rating for Frankfurt HZ/HW	A+++ / A++	A++ / A+++
Energy efficiency rating for Frankfurt Solar <sup>2)</sup>	A+++ / A+++	A++ +/- A+++
<b>Design line Graphit with MPS 1000 and EFS 20.1</b>		
Ref. no.	264292	264312
<b>Design line Graphit with MPS 1000 and EFS 20.1 and solar set RSK 25-10</b>		
Ref. no.	264297	264317
<b>Design line Graphit with MPS 1000 and EFS 20.1</b>		
Ref. no.	264302	264322
<b>With MPS 1000, EFS 25, and solar set RSK 25-10 design line Graphit</b>		
Ref. no.	264307	264327

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

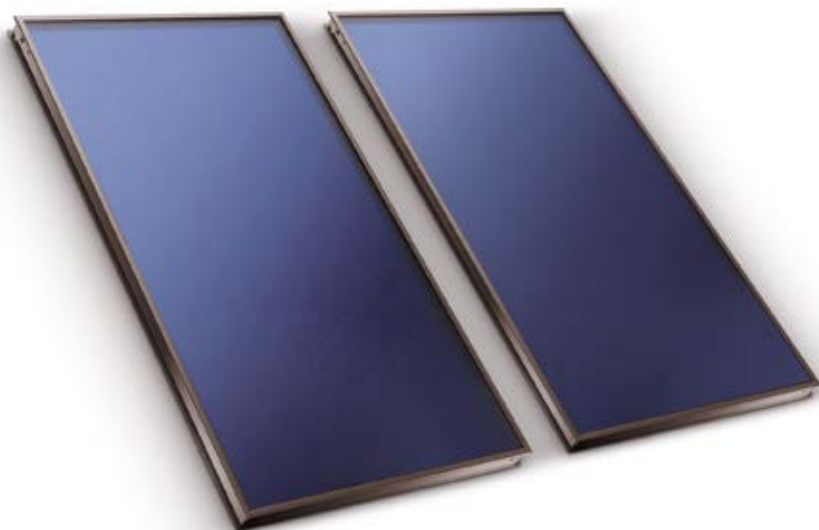
<sup>2)</sup> Average, composite system for heating/hot water, including Smart-Control

## Accessories

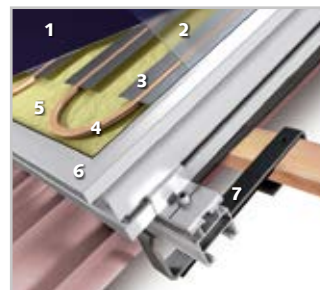
Unit type	WKf 130 DUO	WKf 170 DUO
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 9 kW for monoenergetic operation	264540	264545
<b>Note:</b> No combination with REMKO Smart-BVT possible.		
<b>Heating circuit pump set HGU</b>		
Speed-controlled heating circuit pump group (PWM)/non-mixed	259046	259046
<b>Heating circuit pump set HGM</b>		
Speed-controlled heating circuit pump group (PWM)/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 m<sup>2</sup>)
- 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 m<sup>2</sup>)
- 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

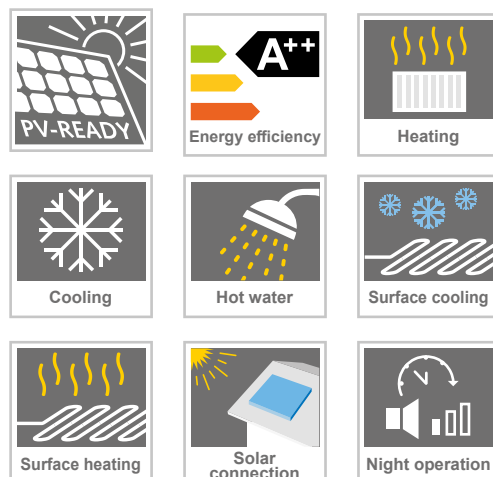


Fin-tube heat exchanger

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/façade installation		no	no
For tank 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) meandering highly selective	Vertical, next to each other Horizontal, stacked (upon request) meandering highly selective
Piping		2	4
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 <sup>2</sup>	2.53	2.53
Absorber surface area	m <sup>2</sup>	2.35	2.35
Aperture surface area	m <sup>2</sup>	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



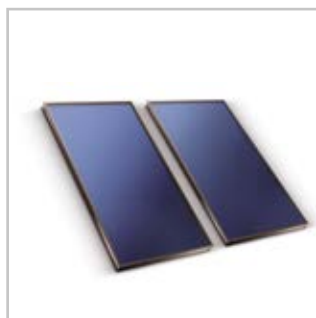
## REMKO WKF-COMPACT SERIES

### 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 m<sup>2</sup>, is ideal for effective domestic water preparation.

#### Package comprising:

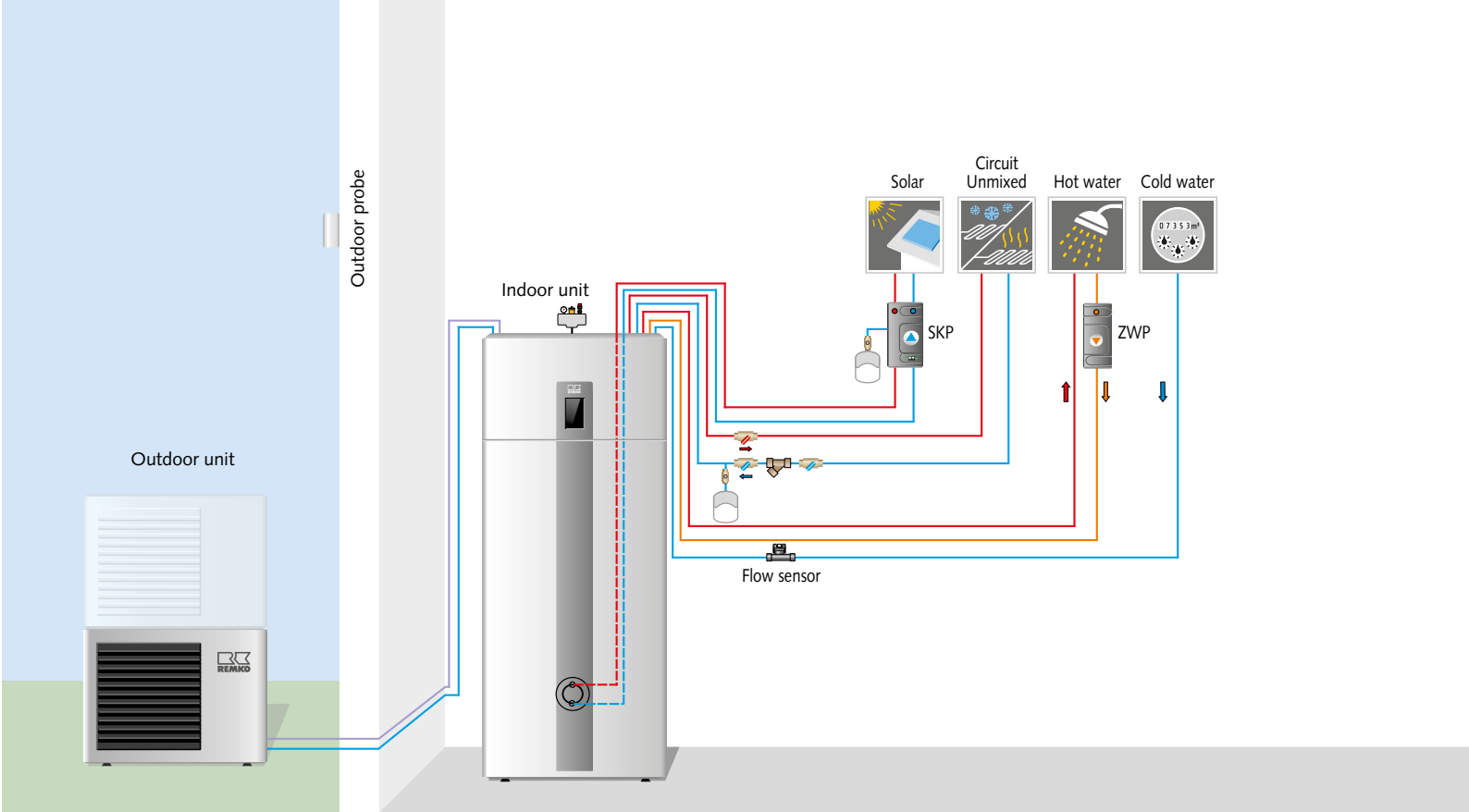
- Indoor unit with highly efficient, enamelled domestic water tank, 300 l (BEVB 1.19 kWh/day)
- Outdoor unit
- Condensate drip tray including oil separator for outdoor unit
- Solar set RSK 25-5



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 Price group 9

Area of use: heating <sup>1)</sup>		1-6 kW	6-9 kW	9-12 kW	12-16 kW
Unit type		WKF 80	WKF 100	WKF 130	WKF 170
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Rated cooling capacity (min. / max.)	kW	4.0 (0.8 - 6.5)	6.0 (1.5 - 8.2)	8.0 (2.1 - 10.5)	12.0 (3.1-13.2)
Energy efficiency class <sup>2)</sup>		A++ / A++	A++ / A+++	A+++ / A++	A++ / A++
External maximum pressure loss	kPa	80	80	70	60
Ref. no.		264332	264337	264342	264347

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

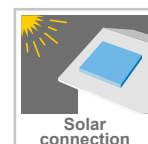
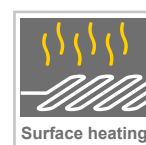
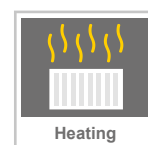
<sup>2)</sup> Average, composite system for heating/hot water/solar, including Smart-Control

## Accessories Price group 9

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
REMKO Smart-Count, factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
REMKO SmartServ, installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
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	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.

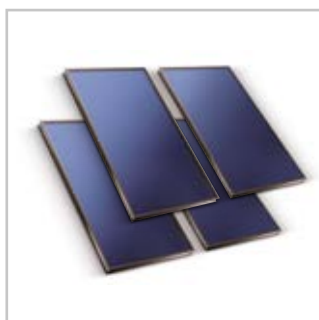
The solar set included in this package, type RSK 25-10, with a collector surface of 10.12 m<sup>2</sup>, provides household water and heating support. The separate pump assemblies HGM (can be ordered separately) for the heating circuits are equipped with a high-efficiency PWM pump (0-10 V) regulated 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 20.1
- 2x 3-way changeover valve
- Solar set RSK 25-10



3-way changeover valve, 5/4"



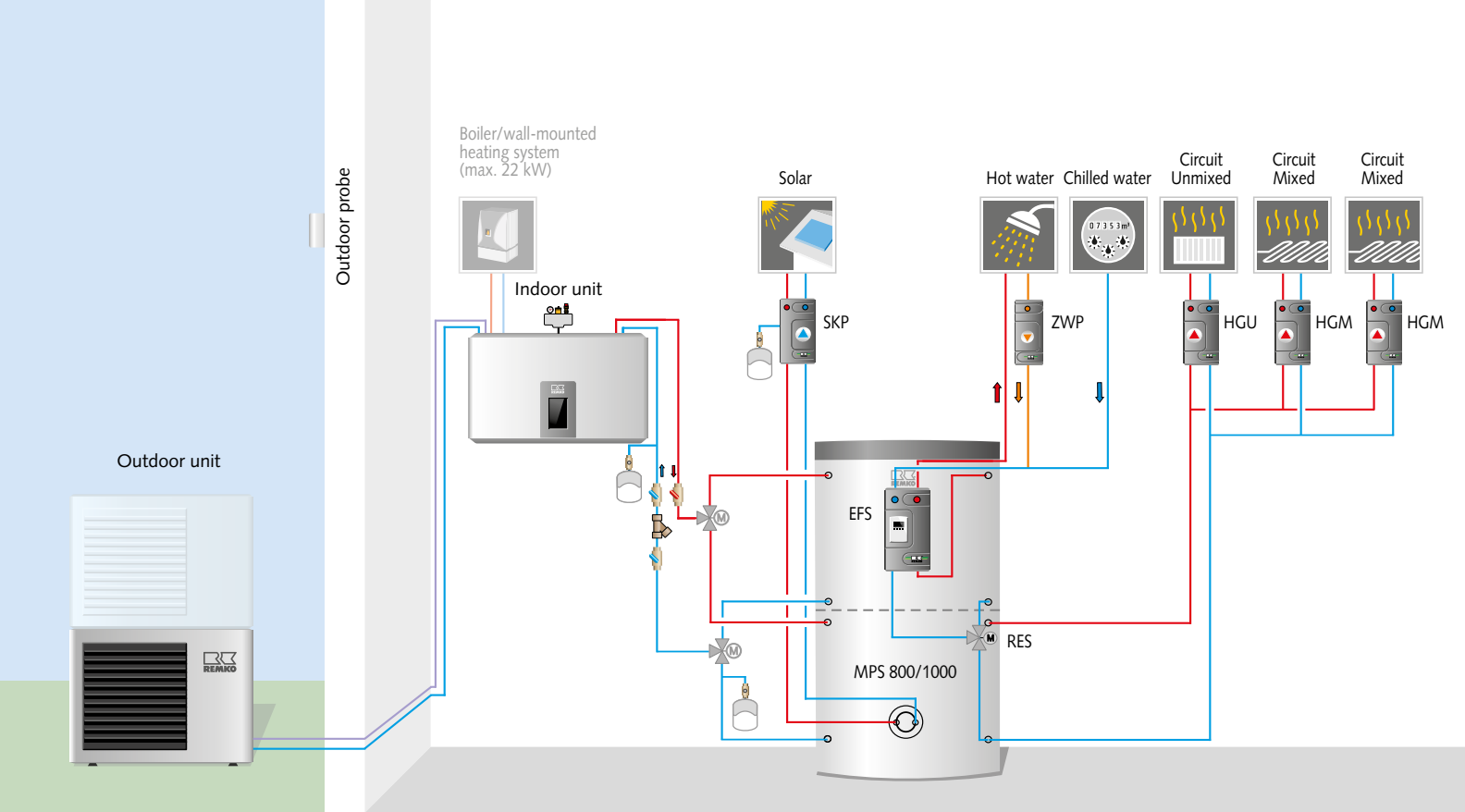
Solar set RSK 25-10



Multifunctional buffer tank  
MPS 800 or MPS 1000



Fresh water station with pump  
and flow switch, EFS 20.1



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 <sup>1)</sup>		1-6 kW	7-10 kW	10-13 kW	13-17 kW
<b>Unit type</b>		WKF 80	WKF 100	WKF 130	WKF 170
Rated heating capacity (min. / max.)	kW	6.0 (0.9 - 7.5)	8.0 (1.5 - 10.0)	9.0 (2.0 - 12.5)	11.0 (3.0 - 16.8)
Energy efficiency class <sup>2)</sup>		A++/A++	A++/A+++	A+++/A++	A++/A++
<b>With MPS 800 design line Graphit</b>					
Ref. no.		264352	264362	264372	264382
<b>With MPS 1000 design line Graphit</b>					
Ref. no.		264357	264367	264377	264387

<sup>1)</sup> Total heating requirement, flow 35°C, monoenergetic

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

## Accessories

Unit type	WKF 80	WKF 100	WKF 130	WKF 170
<b>REMKO Smart-Count</b> , factory-installed heat meter for the separate counting of the quantity of heat of heating and hot water	259010	259010	259010	259010
<b>REMKO SmartServ</b> , installed heating rod 6 / 9kW (WKF170) for monoenergetic operation. <b>Note:</b> No combination with REMKO Smart-BVT possible.	264500	264505	264510	264515
<b>REMKO Smart-BVT</b> , 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. <b>Note:</b> No combination with REMKO Smart-Serv possible. Only in combination with buffer tank.	254053	259015	259016	259016
<b>Heating circuit pump set HGU</b>				
Speed-controlled heating circuit pump group (PWM)/non-mixed	259046	259046	259046	259046
<b>Heating circuit pump set HGM</b>				
Speed-controlled heating circuit pump group (PWM)/mixed	259047	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
- Corrosion protection coating outside
- 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
- Electrical immersion heating element, screw-in 6/4"
- Operating temperature: min. 7°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 KPS 301

### 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	270651	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 buffers 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-hole Ø	240/12-hole 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.
Smart-Control Touch remote control	248109
Room temperature/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 KNX system via 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.
Dual-direction power meter	259065



### Floor brackets from reinforced rubber

	Ref. no.
BK-600 Plus (2x für Duo)	260023
BK-1000 Plus (2x für Duo)	260024

### Wall brackets, including vibration dampers.

	Ref. no.
WKM-600 (2x for Duo)	260079
Sound insulation set	1613900



### Connecting line, running metre

For connection between outdoor and indoor unit. (price per running metre)

For device type	Ø	Ref. no.
WKF 80	1/4"/1/2"	260012
WKF 100-130 (Duo)	3/8"/3/4"	260010
WKF 170 (Duo)	3/8"/3/4"	260013



### 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 80-170	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, overflow valve 1"

	Ref. no.
BVT set, loose 5/4"	260081
BVT set, loose 6/4"	260101



#### Overflow protection valve

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

	Ref. no.
Overflow protection valve	260080



#### Heating circuit pump set HGU

Speed-controlled (PWM) 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
With 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
Sealing ring for Ø 105mm	259059



#### 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.

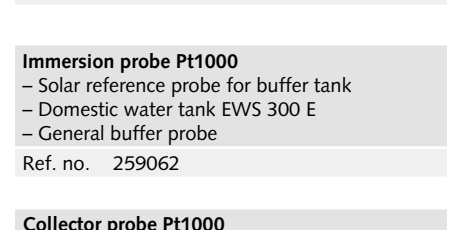
	Ref. no.
Ext. dew point monitor	259070
Additional contact probe	259071



#### 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 300 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-guided circulation pump via Smart Control  
– A heating circuit with mixer (2 pieces required)

Ref. no. 259060

# REMKO EFS SERIES

Fresh water stations

**NEW**

## 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, volume flow rate sensor, and plate heat exchanger. The heat exchanger is designed for a high flow rate of 18 l/min (EFS 20.1), 32 l/min (EFS 35.1) and/or 50 l/min (EFS 50.1). The fresh water stations are delivery ready for mounting in the EPP housing. In the case of the EFS 35.1/50.1, the unit is mounted to the wall. The EFS 20.1 fresh water station permits mounting directly on the tank or wall.

### Technical data

Unit type		EFS 20.1	EFS 35.1	EFS 50.1
Transmission power	kW	44 <sup>1)</sup>	79 <sup>2)</sup>	122 <sup>3)</sup>
Installation site		Tank/wall	Wall	Wall
Heat pump type	WKF	80,100,130 170 130-170 Duo	170 130-170 Duo	130-170 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 - max. height/width/depth	mm	540/345/324	795/602/298	795/602/298
Tap volume at 45°C tap temperature and 50°C tank temperature	l/min	18	32	50
Tap volume at 45°C tap temperature and 60°C tank temperature	l/min	31	50	77
Tap volume at 45°C tap temperature and 70 °C tank temperature	l/min	39	64	88
Ref. no.		260180	260181	260182

<sup>1)</sup> Tapping output at 50°C buffer temperature / 18 l/min / 10°C CW supply line

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

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

### Accessories

Unit type	EFS 20.1	EFS 35.1	EFS 50.1
<b>Circulation pump EFS 20.1/35.1/50.1</b> , speed-controlled high-efficiency circulation pump for installation directly to the fresh water station	260185	259053	259053
<b>3-way changeover valve</b> for temperature-dependent layering in the buffer tank	260072	260072	260072



#### Return flow layering set RES

For EFS 20.1 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 35.1/50.1.

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



#### Tank connection set

For the direct connection of the fresh water station EFS 20.1 to the buffer tank.

**Note:** Not suited for EFS 35.1/50.1.

For device 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.
<b>RSK 25-5</b>	260842
3x flat roof brackets	
1x safety support	
<b>RSK 25-10</b>	260843
5x flat roof brackets	
1x safety support	

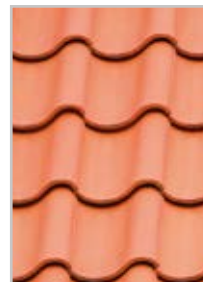


**Insulated, corrugated pipe**  
For solar collectors for RSK 25-5 and RSK 25-10, including probe cable

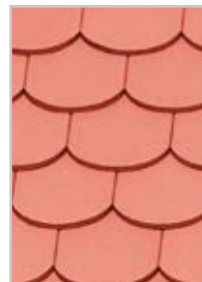
	Ref. no.
10 m, including connection set	260900
15 m, including connection set	260901
25 m, including connection set	260902
Corrugated pipe, running metre (max. 25 m)	260869
Installation set, separate	260870

**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 OF INDOOR UNITS

Chilled-water 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 technical data, see REMKO cold 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 technical data, see REMKO cold 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 technical data, see REMKO cold 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 135-875 EC ZW
Cooling capacity	kW	1.3 - 8.8
Heating capacity	kW	1.6 - 9.2
For technical data, see REMKO cold 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/>

# REMKO SWK SERIES

ARTdesign noise protection hoods



Version:  
Silver/black

## REMKO SWK SERIES

### Noise protection for demanding areas of application

Take advantage of the noise-insulating effect of the EPP-polypropylene material. 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.

### Appropriate for each environment

In addition to the standard colour black, the noise protection hood is available in colour variants silver, green and brown. In addition, we fulfil individual colour requests with special colours according to RAL.

### Technology

The patented technology of the protection hoods effectively reduces noise. Unit function is not limited.

### Planning and setup

Due to the optical design, the noise protection hood can be easily integrated into the environment. Due to fire protection class B2 and UV resistance, they can be installed almost everywhere. In case of planning according to the German TA-Lärm regulation (Technical Instructions for Noise Protection), the tonal component does not need to be taken into consideration. This is assumed to be up to 6 dB(A). According to the setup situation, the hood can then reduce the sound pressure level by up to 15 dB(A).

### Multiple benefits are guaranteed

The REMKO noise protection hood not only reduces the noise emissions, but also protects against vandalism and the effects of weather, such as hail, driving snow, sunlight, etc.

### Individual adaptation

The noise protection hood can be installed afterwards. The REMKO air-conditions can also be equipped with the noise protection hood. An individual adaptation to many brand products is possible.



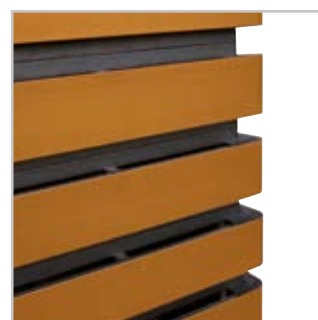
Noise reduction up to 15 dB(A)



EPP-polypropylene has effective insulating properties



Version: green/black



Version: brown/black

## Technical data

Unit type		SWK 4	SWK 5	SWK 7
Heat pump type		WKF 70 Neo compact, WKF 80, WKF 70	WKF 120 Neo compact, WKF 100/130, WKF 120	WKF 180 Neo compact, WKF 170, WKF 180
Outer dimensions	Dimensions H/W/D	mm	1155/1385/1100	1400/1385/1100
Max. unit size <sup>1)</sup>	Dimensions H/W/D	mm	1020/1000/460	1260/1000/460
Weight		kg	40	43
<b>Version: black</b>				
Colour similar to RAL 7021				
Ref. no.		260904	260905	260907
<b>Version: silver/black</b>				
Colour similar to RAL 9006/7021				
Ref. no.		260914	260915	260917
<b>Version: green/black</b>				
Colour similar to RAL 6020/7021				
Ref. no.		260934	260935	260937
<b>Version: brown/black</b>				
Colour similar to RAL 8003/7021				
Ref. no.		260944	260945	260947
<b>Special colour according to RAL</b>				
Ref. no.		260954	260955	260957
<b>On-site adaptation to brand products<sup>2)</sup></b>				
Ref. no.		260924	260925	260927

<sup>1)</sup> The dimensions of the unit used must be checked individually. Precise data can be found in the operating instructions.

<sup>2)</sup> Enclosed air-break board for on-site adaptation to the existing brand product/surcharge.

# REMKO QUALITY WITH SYSTEMS

Climate | Heating | New energies

**REMKO GmbH & Co. KG**  
**Air-Conditioning and Heating Technology**

Im Seelenkamp 12  
32791 Lage

Phone +49 (0) 5232 606-0  
Fax +49 (0) 5232 606-260

E-mail [info@remko.de](mailto:info@remko.de)  
Internet [www.remko.de](http://www.remko.de)

**Hotline within Germany**  
+49 (0) 5232 606-0

**International hotline**  
+49 (0) 5232 606-130

