

# **STATIONARY** HOT AIR HEATING SYSTEMS

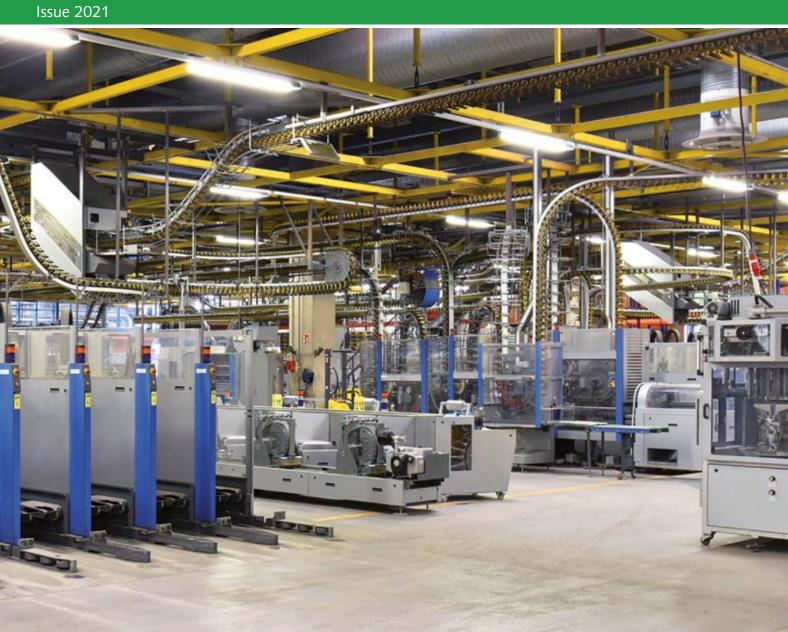
Rapid heat, adapted to your needs

## **Stationary heaters**

Wall-mounted heaters Universal heaters Hot water heaters Ceiling ventilation units Ceiling heating systems Ceiling fans Exhaust gas systems







## **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



## **CONTENTS**





## **STATIONARY** HOT AIR HEATING SYSTEMS

Rapid heat, adapted to your needs

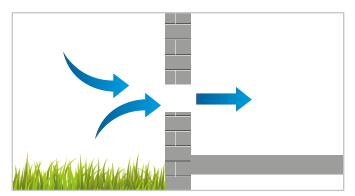
### Tailored heating of halls

Stationary hot air heaters are mainly used in industrial halls for continuous operation. They are installed to walls, ceilings or floors and can be adapted to the specific circumstances of the installation site according to the modular principle.

An extensive heating pipe system does not have to be laid first as the oil- or gas-operated heaters operate without a transfer medium. The heat is dissipated immediately to the ambient air. This saves energy, providing pleasant temperatures immediately.

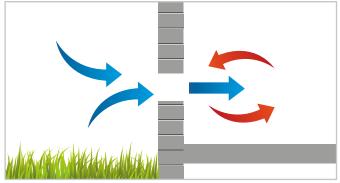
### Adaptable and expandable

Hot air heaters, however, can also be connected to an existing hot air heating plant. The heat can be directed wherever needed in a targeted manner using air control fins. Due to the easy assembly of the units, the required heating capacity can be adapted and expanded as needed at any time.



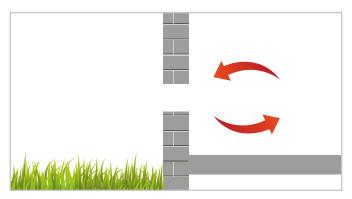
### Fresh-air operation

The air to be heated is taken directly from the outside. In case of corresponding outside conditions, this method guarantees clean, unused air. Fresh air is brought into the room from outside (only ventilation, no heating) during fresh-air operation in the summer.



### Mixed-air operation

According to the setting, more or less fresh air is suctioned in together with the room air. This method reduces heating costs because previously heated air from the heated room is used on the one hand and covers the necessary fresh-air requirement on the other.



### Recirculation air operation

The air is taken from the room being heated and blown into the same room again after heating. This method cases the lowest operating costs because only the previously heated room air is reheated and circulated.



# **REMKO** GPS SERIES









### **REMKO** GPS SERIES

### Hall heating with high energy efficiency

The REMKO series is characterised by their compact dimensions, flexible application possibilities, and particularly by their microprocessor controlled gas burner technology. A total of five unit sizes with a heating capacity from 10.1 to 73.5 kW is available. The units are suitable for both wall and ceiling mounting. A variety of exhaust gas and fresh air versions rounds out the flexible installation possibility of this series of units. The use of modulating gas burner technology achieves high energy efficiency without producing condensate in the heat exchanger.

High energy efficiency using modulating gas burner technology



Microprocessor-controlled unit technology

- High energy efficiency with an operating efficiency up to 97% due to modulating gas burner technology
- Highly flexible applications
- Space-saving wall or ceiling mounting option
- Quick and inexpensive installation
- Burner chamber of INOX steel
- No condensate formation in the heat exchanger

### Areas of application

- Sales and commercial premises
- Warehouses and manufacturing halls
- Retailers and supermarkets
- Sports centres



### **Technical data**

Unit type *		GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
Nominal heat load	kW	10.1 - 16.5	16.0 - 27.0	20.2 - 34.8	29.8 - 52.2	44.4 - 73.5
Nominal thermal output	kW	9.7 - 15.1	15.4 - 24.6	19.6 - 32.4	28.8 - 48.1	42.5 - 67.5
Air flow rate	m³/h	2000	2700	3100	4500	7800
Fuel			Na	tural gas / propane	e gas	
Gas flow rate – natural gas H	m³/h	1.07 / 1.75	1.69 / 2.86	2.14 / 3.68	3.15 / 5.52	4.70 / 7.78
Gas flow rate – natural gas L	m³/h	1.24 / 2.03	2.97 / 3.32	2.48 / 4.28	3.67 / 6.42	5.46 / 9.04
Gas flow rate - propane gas	kg/h	0.78 / 1.28	1.24 / 2.10	1.57 / 2.70	2.32 / 4.06	3.45 / 5.71
Horizontal blowing range	m	20	22	22	23	23
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	230/1~/50	230/1~/50	230/1~/50
Exhaust connection Ø	mm	80	80	80	80	80
Fresh air connection Ø	mm	80	80	80	80	80
Weight	kg	58	58	68	78	102
Design		Natural gas H	Natural gas H	Natural gas H	Natural gas H	Natural gas H
Ref. no.		224120	224130	224140	224160	224180
Design		Natural gas L	Natural gas L	Natural gas L	Natural gas L	Natural gas L
Ref. no.		224121	224131	224141	224161	224181
Design		Propane gas	Propane gas	Propane gas	Propane gas	Propane gas
Ref. no.		224122	224132	224142	224162	224182

\* The gas connection must be performed by a licensed installer Calorific value Hi related to dry standard test gas at 15°C and 1,013.25 mbar Natural gas H G 20 = 9.45 kWh/m³ Liquid gas G 30 = 12.68 kWh/kg

Natural gas L G 25 = 8.13 kWh/m³ Liquid gas G 31 = 12	.87 kWh/kg				
Switchgear and control units					
Cabled remote control KF-35, surface mounting, type of protection IP20, electrical remote unlocking mechanism, Heat/ Ventilate selector switch, including 3.5 m connecting cable	1011381	1011381	1011381	1011381	1011381
<b>Temperature control RR-35</b> , surface mounting, type of protection IP20, selector switch for Heat/Off/Ventilate, installed thermostat, electrical remote unlocking mechanism, including 3.5 m connecting cable	1011382	1011382	1011382	1011382	1011382
ATR-Smart-Basic, Electronic temperature controller with touch display for 1-32 units (group switch), surface mounting, type of protection IP54, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation messages	1011376	1011376	1011376	1011376	1011376
ATR-Smart-WEB, Electronic temperature controller with touch display for 1-32 units (group switch), surface mounting, type of protection IP20, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation messages, Ethernet interface	1011377	1011377	1011377	1011377	1011377
External temperature probe For ATR-Smart-Basic/-Web	1011364	1011364	1011364	1011364	1011364
Accessories					
Bracket for wall mounting Design: Standard	228780	228780	228780	228780	228780
Bracket for wall mounting Design: rotary	228781	228781	228782	228782	228783
Mounting set For suspension from ceiling with horizontal air outlet Mounting set	228785	228785	228785	228785	228785
For suspension from ceiling with vertical air outlet, installed	228786	228786	228786	228786	228787
Gas connection tube  Made of stainless steel fabric, length 500 mm	228768	228768	228768	228768	228768

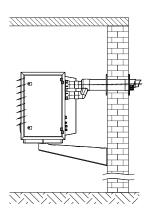
# **REMKO** GPS SERIES

## Efficient wall-mounted heating systems with modulating gas burner



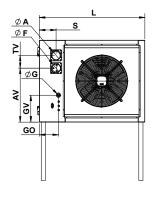
### Outside wall installation

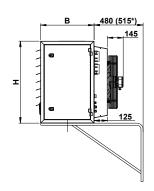
Unit installation, including the exhaust gas and fresh air versions, takes place according to classifications C13, C33, C43, C53, C63, and B23 of DVGW-TRGI. The gas connection must be performed by a licensed installer. Before the installation of the exhaust gas duct through the outside wall, the district heating inspector must be consulted.



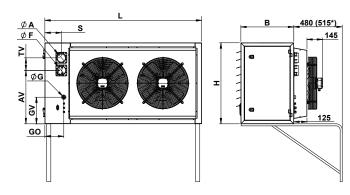
Chimney duct through wall with burner fresh air supply

### Dimensions - GPS 20-60





### **Dimensions of GPS 80**

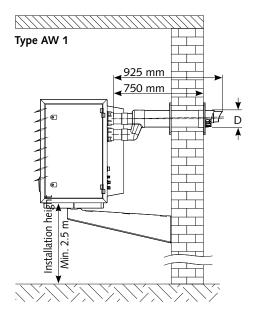


### **Dimensions - GPS 20-80**

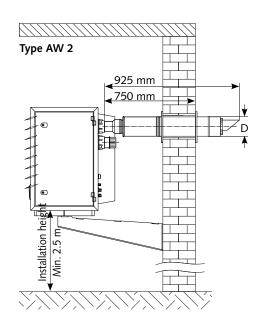
Unit type		L	В	Н	ØΑ	Ø F	AV	TV	S	GO	GV	ØG
GPS 20	mm	795	500	690	80	80	430	120	155	180	255	3/4"
GPS 30	mm	795	500	690	80	80	430	120	155	180	255	3/4"
GPS 40	mm	985	500	690	80	80	430	120	155	180	255	3/4"
GPS 60	mm	985	500	765	80	80	505	120	155	180	255	3/4"
GPS 80	mm	1310	500	765	80	80	505	120	155	180	255	3/4"

<sup>\*</sup> Dimensions with hinged bracket

# LAS balanced flue system through the wall with burner fresh air supply



## Chimney duct through wall



# **Note**Please observe the following pipe diameters during planning.

	AW1 Ø 80	AW1 Ø 100	AW2 Ø 80	AW2 Ø 100
Ø connection	80 mm	100 mm	80 mm	100 mm
Ø of wall opening	125 mm	150 mm	125 mm	150 mm

Plan a wall opening with 5 mm clearance

### Maximum additional pipe length1

	GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
AW1 Ø 80 <sup>2)</sup>	30+30 m	30+30 m	20+20 m	8+8 m	2+2 m
AW2 Ø 80	30 m	30 m	30 m	25 m	10 m

<sup>1)</sup> After the determination of the chimney duct, the pressure loss for the respective unit must be established. When using chimney bends, the pressure losses must especially be taken into account. <sup>2)</sup> Specification of the maximum fresh air and exhaust gas length. For GPS 60/80 in design AW1, longer variants are also available on request.

### Exhaust gas duct, outside wall

_					
Unit type	GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
AW 1 Ø 80 <sup>3)</sup>					
LAS balanced flue system with integrated burner fresh air supply for	228774	228774	228774	228774	228774
exterior wall installation, including wind guard, 925 mm long					
AW 2 Ø 80 <sup>3)</sup>					
Exhaust gas pipe for exterior wall installation, including wind guard	228772	228772	228772	228772	228772
and protective grid for combustion air intake 925 mm long					

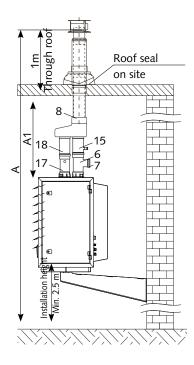
Individual sections					
Exhaust gas or fresh air pipe					
Length 250 mm	228868	228868	228868	228868	228868
Exhaust gas or fresh air pipe					
Length 500 mm	228871	228871	228871	228871	228871
Exhaust gas or fresh air pipe					
Length 1000 mm	228872	228872	228872	228872	228872
Exhaust or fresh air bend					
90°	228910	228910	228910	228910	228910
Exhaust or fresh air bend					
45°	228909	228909	228909	228909	228909
Exhaust gas pipe with condensate drain					
Horizontal, length 185 mm, including adapter Ø 32 mm	228956	228956	228956	228956	228956
Protective grid					
For combustion air intake	228960	228960	228960	228960	228960
Connection ports					
With test nipple	228981	228981	228981	228981	228981

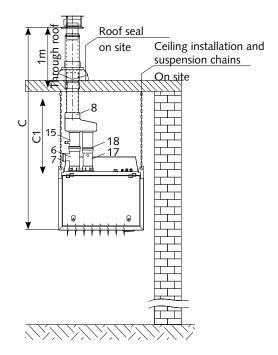
CE certificate no. CE 0432-BPR-119933 <sup>3)</sup> Exhaust gas system without test nipple

# **REMKO** GPS SERIES

## Efficient wall-mounted heating systems with modulating gas burner

### LAS balanced flue system Type WSA 81

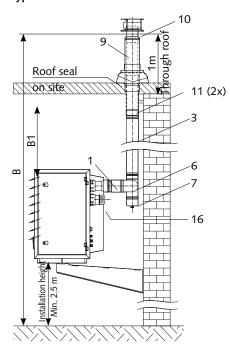




LAS balanced flue system through roof with burner fresh air supply, WSA 81 series, single-walled aluminium, complete, comprising: \*

- Pos. 6 1 T-connection, 90°
- Pos. 7 1 piece, sealing cover with connection port
- Pos. 8 1 unit roof penetration, LAS system with burner, fresh air supply, including rain hood, overall length 1850 mm
- Pos. 15 1 exhaust gas pipe with condensate drain, vertical, length 185 mm, including adapter Ø32
- Pos. 17 1 connection port with test nipple
- Pos. 18 1 exhaust gas or fresh air pipe, length 300 mm

### Exhaust gas duct Type WSA 82



Chimney duct through roof, WSA 82 series, single-walled aluminium chimney, complete, comprising: \*

- Pos. 1 1 exhaust gas or fresh air pipe, length 500 mm (with WSA 82)
- Pos. 3 1 exhaust gas or fresh air pipe, length 1000 mm
- Pos. 6 1 T-connection, 90°
- Pos. 7 1 piece, sealing cover with connection port
- Pos. 9 1 roof penetration
- Pos. 10 1 rain hood
- Pos. 11 2 wall mounts
- Pos. 16 1 protective grid for combustion air intake

<sup>\*</sup> The slanted/flat roof penetration must be ordered as well if required

### Exhaust gas duct through roof

Unit type	GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
WSA 81 * LAS balanced flue system with integrated burner fresh air supply, rated diameter 80 mm	228911	228911	228911	228911	228911
WSA 82 * Exhaust system including protective grid, for combustion air extraction from the installation room	228902	228902	228902	228902	228902

 $<sup>^{*}</sup>$  The slanted/flat roof penetration must be ordered as well if required No slanted roof penetration for WSA 82.

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	ividual sections					
1	Exhaust gas or fresh air pipe	22226	220060	220050	222252	220060
2	Length 250 mm	228868	228868	228868	228868	228868
2	Exhaust gas or fresh air pipe Length 500 mm	228871	228871	228871	228871	228871
3	Exhaust gas or fresh air pipe	2200/1	2200/1	2200/1	2200/1	2200/1
J	Length 1000 mm	228872	228872	228872	228872	228872
4	Exhaust or fresh air bend					
	90°	228910	228910	228910	228910	228910
5	Exhaust or fresh air bend					
	45°	228909	228909	228909	228909	228909
6	T-connection 90°	228915	220045	220045	220045	220045
7	Sealing cover	228915	228915	228915	228915	228915
,	with connection port	228920	228920	228920	228920	228920
8	LAS system roof penetration					
	With burner fresh air supply, including rain hood, total length 1850 mm	228965	228965	228965	228965	228965
8	Extension of LAS system roof penetration					
	Total length 1000 mm	228990	228990	228990	228990	228990
9	Roof bushing	228930	228930	228930	228930	228930
10	Rain hood	228930	228930	228930	228930	228930
10	Kalli llood	228935	228935	228935	228935	228935
11	Wall mount	220,33	220733	220050	220555	220733
		228940	228940	228940	228940	228940
12	Flat roof penetration					
	for WSA 82	228950	228950	228950	228950	228950
13	Universal slanted roof penetration					
1.1	For WSA 81	228970	228970	228970	228970	228970
14	Flat roof penetration for WSA 81	228975	228975	228975	228975	228975
15	Exhaust gas pipe with condensate drain	220773	220373	220575	220575	220773
	Length 185 mm, including adapter Ø 32 mm	228956	228956	228956	228956	228956
16	Protective grid					
	For combustion air intake	228960	228960	228960	228960	228960
17	Connection ports	22224	220004	222224	222224	22224
40	With test nipple	228981	228981	228981	228981	228981
18	Exhaust gas or fresh air pipe Length 215 mm	228969	228969	228969	228969	228969
19	Siphon connecting set	220707	220,00	220,00	220707	220707
	Ø 32 mm	228874	228874	228874	228874	228874
20	Siphon					
	Inlet pipe diameter 32 mm, outlet pipe diameter 40 mm	228867	228867	228867	228867	228867

CE certificate no. CE 0432-BPR-119933

### Note

Please observe the following pipe diameters when planning the necessary roof penetrations.

Unit type	Туре	Pipe connection Ø	Pipe Ø
GPS 20	WSA 81	80 mm	125 mm
	WSA 82	80 mm	95 mm
GPS 30	WSA 81	80 mm	125 mm
	WSA 82	80 mm	95 mm
GPS 40	WSA 81	80 mm	125 mm
	WSA 82	80 mm	95 mm
GPS 60	WSA 81	80 mm	125 mm
	WSA 101 <sup>2)</sup>	100 mm	150 mm
	WSA 82	80 mm	95 mm
GPS 80	WSA 81	80 mm	125 mm
	WSA 101 <sup>2)</sup>	100 mm	150 mm
	WSA 82	80 mm	95 mm

### Chimney height

	GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
Α	5,15 m	5,15 m	5,15 m	5,25 m	5,30 m
A1 3)	0,96 m	0,96 m	0,96 m	0,99 m	1,04 m
В	5,65 m	5,65 m	5,65 m	5,75 m	5,80 m
B1 <sup>3)</sup>	1,46 m	1,46 m	1,46 m	1,49 m	1,54 m
C	2,65 m	2,65 m	2,65 m	2,65 m	2,85 m
C1 3)	1,15 m	1,15 m	1,15 m	1,15 m	1,35 m

### Maximum additional pipe length

	GPS 20	GPS 30	GPS 40	GPS 60	GPS 80
WSA 81 1)	30+30 m	30+30 m	20+20 m	5+5 m	1+1 m
WSA 82	30 m	30 m	30 m	20 m	10 m

 $<sup>^{1)}</sup>$  Specification of the maximum fresh air and exhaust gas length.  $^{2)}$  GPS 60/80: longer designs of WSA 101 and WSA 102 on request  $^{3)}$  Related to an assembly height of 2.5 m

# **REMKO** GPC SERIES

Wall-mounted calorific value heaters with modulating gas burner in a condensing design







### **REMKO** GPC SERIES

### Hall heating with the highest energy efficiency

The REMKO series is characterised by their compact dimensions, flexible application possibilities, and particularly by their microprocessor controlled gas burner technology. A total of four unit sizes with a heating capacity from 4.7 to 82.0 kW is available.

The units are suitable for both wall and ceiling mounting. A variety of exhaust gas and fresh air versions rounds out the flexible installation possibility of this series of units.

### Achieve maximum output

With the gross calorific value technology, additional energy is removed from the exhaust gas through condensation. In the process, the efficiency is optimized to a maximum.

High efficiency by using modulating gas burner technology



Microprocessor-controlled unit technology

- Maximum energy efficiency with an operating efficiency up to 108% due to modulating gas burner technology and utilisation of the calorific value effect
- Highly flexible applications
- Space-saving wall or ceiling mounting option
- Quick and inexpensive installation
- Sound-optimized through series-standard Ziehl-Abegg fans
- Burner chamber of INOX steel

### Areas of application

- Sales and commercial premises
- Warehouses and manufacturing halls
- Retailers and supermarkets
- Sports centres



### **Technical data**

Unit type *		GPC 20	GPC 40	GPC 60	GPC 80
Nominal heat load	kW	4.7 - 19.0	7.6 - 34.8	12.4 - 65.0	16.4 - 82.0
Nominal thermal output	kW	5.0 - 18.2	8.1 - 33.6	13.4 - 62.9	17.8 - 80.0
Max. condensate	l/h	0.4	0.9	2.1	3.3
Air flow rate	m³/h	2700	4300	7800	9000
Fuel			Natural gas	/ propane gas	
Gas flow rate - natural gas H	m³/h	0.51 - 2.01	0.80 - 3.69	1.31 - 6.88	1.74 - 8.68
Gas flow rate - natural gas L	m³/h	0.59 - 2.34	0.93 - 4.29	1.53 - 8.00	2.02 - 10.1
Gas flow rate - propane gas	kg/h	0.40 - 1.58	0.63 - 2.90	1.03 - 5.39	1.49 - 6.80
Max. length of gas jet	m	24	26	28	28
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	230/1~/50	230/1~/50
Exhaust connection Ø	mm	80	80	80	100 **
Fresh air connection Ø	mm	80	80	80	100 **
Weight	kg	58	72	98	129
Design		Natural gas H	Natural gas H	Natural gas H	Natural gas H
Ref. no.		224331	224341	224361	224371
Design		Natural gas L	Natural gas L	Natural gas L	Natural gas L
Ref. no.		224332	224342	224362	224372
Design		Propane gas	Propane gas	Propane gas	Propane gas
Ref. no.		224333	224343	224363	224373

<sup>\*</sup> The gas connection must be implemented by a licensed installer
\*\* The exhaust gas and fresh air diameter is achieved by an adapter that is included with the standard version

Switchgear and control units				
ATR-Smart-Basic, Electronic temperature controller with touch display for 1-32 units (group switch), surface mounting, type of protection IP54, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation messages	1011376	1011376	1011376	1011376
ATR-Smart-WEB, Electronic temperature controller with touch display for 1-32 units (group switch), surface mounting, type of protection IP20, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation messages, Ethernet interface	1011377	1011377	1011377	1011377
External temperature probe	1011261	1011061	1011261	1011261
For ATR-Smart-Basic/-Web	1011364	1011364	1011364	1011364
A				
Accessories				
Bracket for wall mounting Design: Standard	228780	228780	228780	228780
Bracket for wall mounting				
Design: rotary	228781	228782	228783	228783
Mounting set For suspension from ceiling with horizontal air outlet	228785	228785	228785	228785
Gas connection tube				
Made of stainless steel fabric, length 500 mm	228768	228768	228768	228768
Neutralisation box	260400	260400	260400	260400
Condensate pump For neutralisation box	260410	260410	260410	260410
Condensate tube For neutralisation box, running metre	260420	260420	260420	260420
Refill granulate For neutralisation box, 1.4 kg	260430	260430	260430	260430

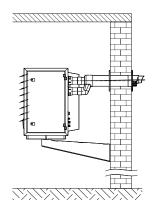
# **REMKO** GPC SERIES

Wall-mounted calorific value heaters with modulating gas burner in a condensing design



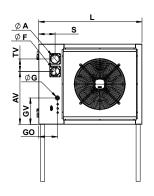
### Outside wall installation

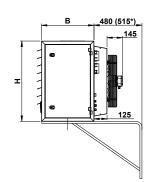
Unit installation, including the exhaust gas and fresh air versions, takes place according to classifications C13, C33, C43, C53, C63, and B23 of DVGW-TRGI 2008. The gas connection must be performed by a licensed installer. Before the installation of the exhaust gas duct through the outside wall, the district heating inspector must be consulted.



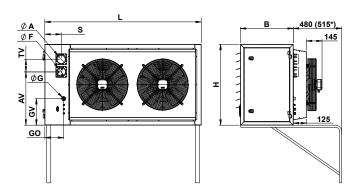
Chimney duct through wall with burner fresh air supply

### Dimensions - GPC 20-40





### Dimensions - GPC 60-80



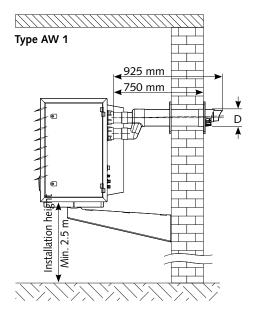
### **Dimensions - GPC 20-80**

Unit type		L	В	Н	ØΑ	ØF	AV	TV	S	G0	GV	ØG
GPC 20	mm	795	500	690	80	80	430	120	155	180	255	3/4"
GPC 40	mm	985	500	690	80	80	430	120	155	180	255	3/4"
GPC 60	mm	1310	500	765	80	80	505	120	155	180	255	3/4"
GPC 80	mm	1515	500	845	100 **	100 **	560	140	185	210	275	3/4 "

<sup>\*</sup> Dimensions with hinged bracket

<sup>\*\*</sup> The exhaust gas and fresh air diameter is achieved by an adapter that is included with the standard version.

# LAS balanced flue system through the wall with burner fresh air supply



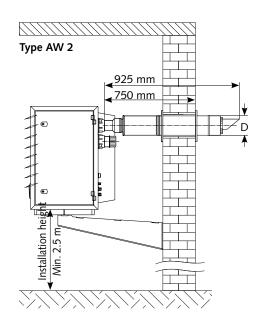
### Note

Please observe the following pipe diameters during planning.

	AW1 Ø 80	AW1 Ø 100	AW2 Ø 80	AW2 Ø 100
Ø connection	80 mm	100 mm	80 mm	100 mm
Ø of wall opening	125 mm	150 mm	125 mm	150 mm

Plan a wall opening with 5 mm clearance

### Chimney duct through wall



### Maximum additional pipe length1

	GPC 20	GPC 40	GPC 60	GPC 80
AW1 Ø 80 <sup>2)</sup>	30+30 m	30+30 m	5+5 m	-
AW1 Ø 100 <sup>2)</sup>	-	-	-	5+5 m
AW2 Ø 80	30 m	30 m	15 m	-
AW2 Ø 100	-	-	-	30 m

 $^{2)}$  After the determination of the chimney duct, the pressure loss for the respective unit must be established. When using chimney bends, the pressure losses must especially be taken into account.  $^{2)}$  Specification of the maximum fresh air and exhaust gas length. For GPS 60/80 in design AW1, longer variants are also available on request.

### Exhaust gas duct, outside wall

Unit type	GPC 20	GPC 40	GPC 60	GPC 80
AW 1 Ø 80/100 <sup>2)</sup>				
LAS balanced flue system with integrated burner fresh air	228774	228774	228774	228775
supply for exterior wall installation, including wind guard, 925 mm long				
AW 2 Ø 80/100 <sup>2)</sup>				
Exhaust gas pipe for exterior wall installation, including wind guard and	228772	228772	228772	228773
protective grid for combustion air intake, 925 mm long				

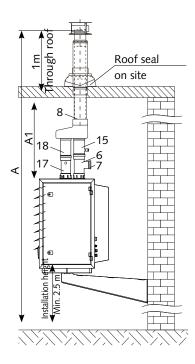
Individual sections				
Exhaust gas or fresh air pipe				
Length 250 mm	228868	228868	228868	228869
Exhaust gas or fresh air pipe				
Length 500 mm	228871	228871	228871	228876
Exhaust gas or fresh air pipe				
Length 1000 mm	228872	228872	228872	228877
Exhaust or fresh air bend				
90°	228910	228910	228910	229010
Exhaust or fresh air bend				
45°	228909	228909	228909	229009
Exhaust gas pipe with condensate drain				
Horizontal, length 185 mm, including adapter Ø 32 mm	228956	228956	228956	229056
Protective grid				
For combustion air intake	228960	228960	228960	229060
Connection ports				
With test nipple	228981	228981	228981	229081
··				

CE certificate no. CE 0432-BPR-119933 <sup>2)</sup> Exhaust gas system without test nipple

# **REMKO** GPC SERIES

Wall-mounted calorific value heating systems with modulating gas burner in a condensing design

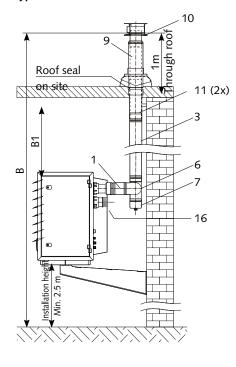
### LAS balanced flue system Type WSA 81/101



LAS balanced flue system through roof with burner fresh air supply WSA 81/101 series, single-walled aluminium, complete, comprising: \*

- Pos. 6 1 T-connection, 90°
- Pos. 7 1 piece, sealing cover with connection port
- Pos. 8 1 unit roof penetration, LAS system with burner fresh air supply, including rain hood, overall length 1850 mm
- Pos. 15 1 exhaust gas pipe with condensate drain, vertical, length 185 mm, including adapter Ø32
- Pos. 17 1 connection port with test nipple
- Pos. 18 1 exhaust gas or fresh air pipe, length 300 mm

### Exhaust gas duct Type WSA 82/102



Exhaust gas duct through roof, WSA 82/102 series, single-walled aluminium, complete, comprising: \*

- Pos. 1 1 exhaust gas or fresh air pipe, length 250 mm (with WSA 102)
- Pos. 2 1 exhaust gas or fresh air pipe, length 500 mm (with WSA 82)
- Pos. 3 1 exhaust gas or fresh air pipe, length 1000 mm
- Pos. 6 1 T-connection, 90°
- Pos. 7 1 piece, sealing cover with connection port
- Pos. 9 1 roof penetration
- Pos. 10 1 rain hood
- Pos. 11 2 wall mounts
- Pos. 16 1 protective grid for combustion air intake

 $<sup>\</sup>ensuremath{^{\ast}}$  The slanted/flat roof penetration must be ordered as well if required

### Exhaust gas duct through roof

Unit type	GPC 20-60 **	GPC 80
WSA 81 *		
LAS balanced flue system with integrated	228911	-
burner fresh air supply, rated diameter 80 mm		
WSA 101 *		
LAS balanced flue system with integrated	-	229011
burner fresh air supply, rated diameter 100 mm		
WSA 82		
Exhaust system including protective grid, for combustion air extraction from	228902	-
the installation room		
WSA 102 *		
Exhaust system including protective grid, for combustion air extraction from	-	229002
the installation room		

<sup>\*</sup> The slanted/flat roof penetration must be ordered as well if required No slanted roof penetration for WSA 82.

\*\* In the case of GPC 60, the appropriate type must be selected depending on the total length of the exhaust system.

•	in the case of are oo, the appropriate type mast be selected depending on the total ich	ight of the exhaust system.	
Ind	ividual sections		
1	Exhaust gas or fresh air pipe Length 250 mm	228868	228869
2	Exhaust gas or fresh air pipe Length 500 mm	228871	228876
3	Exhaust gas or fresh air pipe Length 1000 mm	228872	228877
4	Exhaust or fresh air bend 90°	228910	229010
5	Exhaust or fresh air bend 45°	228909	229009
6	T-connection 90°	228915	229015
7	Sealing cover with connection port	228920	229020
8	LAS system roof penetration With burner fresh air supply, including rain hood, total length 1850 mm	228965	229065
8	Extension of LAS system roof penetration Total length 1000 mm	228990	229090
9	Roof bushing		
10	Rain hood	228935	229035
11	Wall mount	228940	229040
12	Flat roof penetration for WSA 82/102	228950	229050
	Universal slanted roof penetration for WSA 81/101	228970	229070
14	Flat roof penetration for WSA 81/101	228975	229075
	Exhaust gas pipe with condensate drain Length 185 mm, including adapter Ø 32 mm	228956	229056
	Protective grid For combustion air intake	228960	229060
	Connection ports With test nipple	228981	229081
	Exhaust gas or fresh air pipe Length 215 mm	228969	229069
19	Siphon connecting set Ø 32 mm	228874	228874
20	Siphon Inlet pipe diameter 32 mm, outlet pipe diameter 40 mm	228867	228867
CE o	certificate no. CE 0432-BPR-119933		

CE certificate no. CE 0432-BPR-119933

### Note

Please observe the following pipe diameters when planning the necessary roof penetrations.

Unit type	Туре	Pipe connection Ø	Pipe Ø
GPC 20	WSA 81	80 mm	125 mm
	WSA 82	80 mm	95 mm
GPC 40	WSA 81	80 mm	125 mm
	WSA 82	80 mm	95 mm
GPC 60	WSA 81	80 mm	125 mm
	WSA 101	100 mm	150 mm
	WSA 82	80 mm	95 mm
GPC 80	WSA 101	100 mm	150 mm
	WSA 102	100 mm	115 mm

### Chimney height

	GPC 20	GPC 40	GPC 60	GPC 80	
Α	5,15 m	5,25 m	5,30 m	5,30 m	
A1 3)	0,96 m	1,06 m	1,04 m	0,96 m	
В	5,65 m	5,75 m	5,80 m	5,80 m	
B1 3)	1,46 m	1,56 m	1,54 m	1,46 m	

### Maximum additional pipe length

	-		
GPC 20	GPC 40	GPC 60	GPC 80
30+30 m	10+10 m	1+1 m	-
-	-	On request 2)	8+8 m
30 m	30 m	15 m	3 m
-	-	On request 2)	30 m
	30+30 m - 30 m	30+30 m 10+10 m 30 m 30 m	30+30 m 10+10 m 1+1 m On request <sup>2)</sup> 30 m 30 m 15 m

 <sup>&</sup>lt;sup>1)</sup> Specification of the maximum fresh air and exhaust gas length.
 <sup>2)</sup> GPC 60 available in the designs WSA 81 and WSA 82 in the standard version.
 Designs WSA 101 and WSA 102 on request.
 <sup>3)</sup> Related to an assembly height of 2,5 m

## **REMKO** VRS EN SERIES

Efficient universal heating systems in a planning-oriented modular system for oil and gas combustion





REMKO VRS EN Horizontal design





### **REMKO** VRS EN SERIES

### Rapid heat, adapted to your needs

For economical heating in industrial halls and warehouses, workshops, sports centres and exhibition halls, or glass and plastic film greenhouses, these REMKO heaters are incomparable. Whether you use EL heating oil, propane or natural gas, VRS EN heaters always generate the heat you need: quickly, safely, and economically. In contrast with conventional hot water heating systems, these heaters function without a preheating time. In addition, the decentralized setup lowers mounting and investment costs in rooms to be heated. The combustion-technical efficiency amounts to 95% maximum.

- Space-saving installation with low mounting effort
- Combustion chamber with stainless steel heat exchanger
- Individual equipping with air filters and louvre dampers possible in the air intake
- Air duct connection possibilities
- Flexible usage possibilities
- High quality and long service life
- Noiseless radial fans
- Easy access to all components due to maintenancefriendly design
- Control cabinet with two-stage burner control system
- For environmentally friendly unit operation, the units should preferably be operated with HVO biofuel.



Ready-to-install combustion chamber with stainless steel heat exchanger



ERT-1
Electronic moisture-proof room thermostat, without connection accessories Ref no. 1011390



ATR-5 Electronic temperature control, surface mounting Ref no. 1011342



### Tailored solutions for every situation

REMKO VRS EN heating units are manufactured according to the highest technical specifications. The devices are suited not only as individual units, but also as centralized units for channel connection. The intake air is heated using a heat exchanger with an oil or gas burner and is then distributed evenly throughout the room using a silent radial fan. In summer, this fan provides pleasant fresh air. The program selection with heat outputs between 32 and 543 kW always permits an appropriate device choice.



REMKO VRS EN Vertical design

### Technical data

Unit type		VRS 25 EN	VRS 50 EN	VRS 75 EN	VRS 100 EN	VRS 130 EN	VRS 170 EN	VRS 200 EN	VRS 270 EN	VRS 340 EN	VRS 440 EN	VRS 540 EN
Nominal thermal load 1)	kW	32	54	89	120	160	208	249	276	332	442	543
Nominal thermal output	kW	28	47	78	104	139	181	216	238	287	382	468
Nominal air flow rate 2)	m³/h	3920	4870	5890	7290	9850	11800	14.900	18960	22680	30480	37170
Fuel			He	ating oil EL	., diesel fue	el, biodiesel	B7/ B10 3)	, HVO biot	fuel <sup>4),</sup> , natu	ral gas or L	.PG	
Oil flow rate (heating oil EL)	l/h	3.0	5.1	8.4	11.3	15.1	19.6	23.5	26.0	31.3	41.6	51.1
Gas flow rate (natural gas H)	m³/h	2.8	4.7	7.8	10.5	14.0	18.2	21.8	24.2	29.1	38.7	47.5
Gas flow rate (natural gas L)	m³/h	3.3	5.5	9.1	12.3	16.4	21.3	25.5	28.3	34.0	45.3	55.6
Gas flow rate (liquid gas)	m³/h	1.2	1.9	3.2	4.3	5.8	7.5	9.0	10.0	12.0	15.9	19.6
Gas flow rate (liquid gas)	kg/h	2.3	3.9	6.4	8.6	11.4	14.9	17.8	19.7	23.7	31.6	38.8
Exhaust flow rate 5)	kg/h	44.9	75.8	124.9	168.5	224.6	292.0	349.6	387.5	466.1	620.5	762.3
Approx. exhaust gas temp. 6)	°Č						120 - 200					
Max. exhaust gas loss	%						7					
Flue-gas-side resistance	Pa	24	37	22	40	26	39	27	45	109	156	114
Nitrogen oxide emissions (HEL)	mg/kWh	142	138	145	149	135	150	149	144	148	142	150
Nitrogen oxide emissions (EGH)	mg/kWh	67	66	69	67	68	68	70	64	70	63	70
Voltage supply	V/Ph/Hz	230/	1~/50				4	100/3~N/5	0			
Max. power consumption	kW	0.78	0.84	1.41	1.86	2.05	2.05	2.75	4.83	6.33	8.95	13.05
Min./max. auxiliary power consumption	kW	0.23	0.29	0.31	0.36	0.55	0.55	0.55	0.83	0.83	1.45	2.05
Fan power consumption 7)	kW	0.55	0.55	1.10	1.50	1.50	1.50	2.20	4.00	5.50	7.50	11.00
Max. nominal current consumption	Α	6.80	8.00	2.80	3.70	3.70	3.70	5.20	8.80	11.40	15.50	22.80
Useful efficiency at rated heating capacity <sup>1)</sup>	%	87.0	86.8	86.7	86.6	87.0	87.1	86.7	86.3	86.3	86.3	86.1
Useful efficiency at minimum capacity <sup>1)</sup>	%	89.3	89.3	89.5	89.3	89.3	89.8	90.5	89.2	89.3	89.3	89.2
Operating efficiency at heat dissipation	%	94.3	93.2	91.9	91.7	98.1	91.0	90.7	92.1	91.9	92.1	92.2
Annual utilisation factor for room heating	%	78.0	78.0	78.1	78.0	78.1	78.0	78.0	78.0	78.0	78.0	78.0
Exhaust connection Ø	mm	150	150	180	180	200	200	200	300	300	350	350
Weight 8)	kg	150	240	310	360	550	730	820	832	874	1542	1792

 $<sup>^{1)}</sup>$  Related to calorific value (H<sub>s</sub>)

### Calorific value H s in normal condition:

11.46 9.76 27.72	kWh/kg kWh/m³ kWh/m³ kWh/m³
14.00	kWh/kg
	11.46 9.76 27.72

 $<sup>^{\</sup>scriptscriptstyle 2)}$  Air flow rate at 20°C

<sup>3)</sup> Maximum biodiesel admixture of 10%

<sup>&</sup>lt;sup>4)</sup> Hydrogenated vegetable oils that meet the requirements of DIN EN 590 <sup>5)</sup> Approx. amount during oil operation <sup>6)</sup> Measured temperature minus room temperature

<sup>7)</sup> At standard pressure

<sup>8)</sup> Units without burners and other accessories

# **REMKO** VRS EN SERIES

Efficient universal heating systems in a planning-oriented modular system for oil and gas combustion

### **Technical data**

	-										
Unit type				VRS 25 EN		VRS 50 EN		VRS 75 EN		VRS 100 EN	
Nominal thermal load			kW	32		54		89		120	
Nominal thermal output	ut		kW	28		47		78		104	
Fuel				Heating oil EL.	diesel fue	el. biodiesel B7/	B10 1). HV	O biofuel2), nat	ural gas o	r LPG	
Fuel consumption, hea	ting oil FI		kg/h	3.0		5.1		8.4	O	11.3	
Air flow rate 3)	0 22		m³/h	3920		4870		5890		7290	
Voltage supply			V/Ph/Hz	230/1~/50		230/1~/50		400/3~N/50		400/3~N/50	
Heater without burner	,		V/111/112	230/1-730		230/1-730		400/5-14/50		400/3-14/30	
Without air discharge ho		itchgear and									
control units,	ood, with sw	itengear and									
rear exhaust gas adapt	tor										
Vertical unit	Discharge	ahovo	Pressure 170	379020	60	379050	100	379070	90	379100	
Horizontal unit	Discharge			379020		379055		379075		379100	
	U			379025		379056		379075		379105	
Horizontal unit Surcharge for increase	Discharge	rignt		379026		379056		379076		379106	
Surcharge for increase	u pressure			379021		379051		379071			
				3/3022		379052		379072 379073		379102 379103	
			Pa						350	3/9103	
					3/0	379054	430	379074		-	
Burner accessories ver	rsion WLE 4	) 5)									
Oil filter 3/8" 1-line de			Σ	1002501		1002501		1002501		1002501	
Burner fresh-air box			•	290205		291205		292205		293205	
Burner fresh-air pipe,	flexible (deli	ivery length 5 m	iumped)	1090207		1090207		1090207		1090207	
Intake part with protect			,p/	1090209		1090209		1090209		1090209	
Air discharge hoods w	0		air discharge	1050205		.030203		1030203		.050205	
3-sided	V+R+L / F	0	Type HG	290169		291169		292169		293169	
3-Sided	F+Ri+Re /		Type HG	290170		291170		292170		293170	
4-Sided	F+Ri+L+R		Type HG	360171		361171		362171		363171	
Discharge hood 90°	F/Re	C	Type HB-90	290172		291172		292172		293172	
Air intake accessories		ackata	турстты-эо	230172		271172		232172		233172	
Metal panel	and wan bi	Pos. IV	Type BB	290105		291105		292105		293105	
Protective grid for air i	intalia	Pos. IV	Type S	290109		291109		292109		293109	
Flexible pipe	Шаке	Pos. I-III	Type SG	290110		2911109		292110		2931109	
			, ,								
Flexible pipe	الماملات الملات	Pos. IV	Type SG	290123		291123		292123		293123	
Dust filter, 3-sided (for fi		) Pos. I-III	Type F	290111		291111		292111		293111	
Replacement filter ma		D 1.111	Type EF	290112		291112		292112		293112	
<b>Dust filter</b> for duct cor		Pos. I-III	Type FK	290113		291113		292113		293113	
<b>Dust filter</b> for duct cor		Pos. IV	Type FK	290114		291114		292114		293114	
Replacement filter ma			Type EFK	290115		291115		292115		293115	
Shutter flap combinati		Pos. I-III	Type JK	290119		291119		292119		293119	
Shutter flap combinati		Pos. I-III / IV	Type JK	290120		291120		292120		293120	
Actuator with surface-				320245		320245		320245		320245	
Actuator, infinitely varia		mote potentiomete	er, surface mounting			320251		320251		320251	
Wall bracket for vertice	al unit			290210		291210		292210		293210	
Wall bracket for horizon	ontal unit 7)			322210		321212		325210		325210	
Exhaust gas adapter (ref.	. no. last digit	of $2 = left$ , ref. no.	last digit of 3 = top)	290061		291061		292061		293061	
Accessories											

### Accessories

Electronic moisture-proof room thermostat ERT-1 with inte-	1011390	1011390	1011390	1011390
grated temperature sensor, type of protection IP65, including				
needs-based setting of hysteresis and averaging, without con-				
nection accessories				
Differential temperature controller ATR-3, fully automatic, including	1011290	1011290	1011290	1011290
temperature probe, weekly programme, IP 54 protection class				
Electronic temperature controller type ATR-4, with temperature	1011340	1011340	1011340	1011340
probe, surface mounting, weekly programme, IP 20 protection class				
Electronic temperature controller type ATR-5, with temperature	1011342	1011342	1011342	1011342
probe, surface mounting, weekly programme, IP 54 protection class				
Temperature probe set for 4-point blended temperature 8)	1011343	1011343	1011343	1011343
bienaea temperature				

<sup>&</sup>lt;sup>1)</sup> Maximum biodiesel admixture of 10% <sup>2)</sup> Hydrogenated vegetable oils that meet the requirements of DIN EN 590 <sup>3)</sup> At standard pressure <sup>4)</sup> Further information on page 229 <sup>5)</sup> **Attention:** For orders without combustion-technical commissioning, we provide the burners separately in the box without pre-adjustment.

VRS 130 EN	VRS 170 EN	VRS 200 EN	VRS 270 EN	VRS 340 EN	VRS 440 EN	VRS 540 EN
160	208	249	276	332	442	543
139	181	216	238	287	382	468
		Heating oil EL, diesel fu	uel, biodiesel B7/ B10 1), H	IVO biofuel2), natural gas	or LPG	
15.1	19.6	23.5	26.0	31.3	41.6	51.1
9850	11800	14900	18960	22680	30480	37170
400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50
400/3~14/30	400/3~11/30	400/3~11/30	400/3~14/30	400/3~14/30	400/3~11/30	400/3~11/30
100 379130	50 379170	70 379200	50 379270	60 379340	50 379440	50 379540
100 379135	50 379175	70 379205	50 379275	60 379345	50 379445	50 379545
100 379136	50 379176	70 379206	50 379276	60 379346	50 379446	50 379546
170 379131	130 379171	140 379201	90 379271	100 379341	90 379441	90 379541
260 379132	170 379172	220 379202	210 379272	190 379342	200 379442	210 379542
200 373132	260 379173	340 379203	290 379273	280 379343	290 379443	300 379543
_		340 37 2203		200 377543		
-	410 379174	-	400 379274	-	380 379444	390 379544
1002501	1002501	1002501	1002501	1002501	1002501	1002501
294205	295205	296205	330205	331205	332205	333205
1008400	1008400	1008400	1008400	1008400	1008400	1008400
1094209	1094209	1094209	1094209	1094209	1094209	1094209
294169	295169	296169	330169	331169	332169	333169
294170	295170	296170	330170	331170	332170	333170
364171	365171	366171	330171	331171	332171	333171
294172	295172	296172	330172	331172	332172	333172
254172	233172	230172	330172	331172	332172	333172
204405	205405	206405	220405	224405	222405	222405
294105	295105	296105	330105	331105	332105	333105
294109	295109	296109	330109	331109	332109	333109
294110	295110	296110	330110	331110	332110	333110
294123	295123	296123	330123	331123	332123	333123
294111	295111	296111	330111	331111	332111	333111
294112	295112	296112	330112	331112	332112	333112
294113	295113	296113	330113	331113	332113	333113
294114	295114	296114	330114	331114	332114	333114
294115	295115	296115	330115	331115	332115	333115
294119	295119	296119	330119	331119	332119	333119
294120	295120	296120	330120	331120	332120	333120
320245	320245	320245	320245	320245	320245	320245
320251	320251	320251	320251	320251	320251	320251
294210	295210	296210	325210	325210	_	_
328210	327212	327212	327212	327212	_	_
320210	JZ/Z1Z	52,212	JZ/Z1Z	J27212		
1011390	1011390	1011390	1011390	1011390	1011390	1011390
1011290	1011290	1011290	1011290	1011290	1011290	1011290
1011340	1011340	1011340	1011340	1011340	1011340	1011340
1011342	1011342	1011342	1011342	1011342	1011342	1011342
1011343	1011343	1011343	1011343	1011343	1011343	1011343

<sup>&</sup>lt;sup>6)</sup> The gas connection must be implemented by a licensed installer <sup>7)</sup> In the case of exhaust gas plants for internal mounting, please enter the bracket length in the order <sup>8)</sup> Only usable in combination with electronic temperature regulation (ETR-1, ATR-3, ATR-4, ATR-5, and MAK-2)

## **REMKO** VRS C SERIES

Universal calorific value heating systems in a planning-oriented modular system for oil and gas combustion





REMKO VRS C





### **REMKO** VRS C SERIES

### Fast heat, low emissions with high energy efficiency

This REMKO series is characterised by a combination of extremely advanced technologies. Due to the newly developed design of the combustion chamber and heat exchanger and the use of state-of-the-art blue flame burner technology and EC fans, the VRS-C automatic heaters set new standards in hall heating. Through consistent use of the condensing effect, operating efficiencies of over 100% can be achieved, offering fuel savings of up to 10% compared to conventional hall heating systems.

Thanks to the perfect coordination of the blue flame burner and combustion chamber, combustion is particularly low in pollutants. The NOx concentration is thus below the reference values specified in the ErP Directive 2021 for the best devices on the market.

- Space-saving installation with low mounting effort
- Combustion chamber with stainless steel heat exchanger
- Individual equipping with air filters and louvre dampers possible in the air intake
- Air duct connection possibilities
- Flexible usage possibilities
- High quality and long service life
- Modern, efficient EC fans
- Easy access to all components due to maintenance-friendly design
- Low-emission blue flame burner technology
- For environmentally friendly unit operation, the units should preferably be operated with HVO biofuel.



Radial fan with EC motor



Low-emission blue flame burner



ERT-1 Electronic moisture-proof room thermostat, without connection accessories Ref no. 1011390



ATR-5 Electronic temperature control, surface mounting Ref no. 1011342



### **Technical data**

Unit type		VRS 30 C	VRS 50 C	VRS 70 C	VRS 100 C	VRS 120 C	VRS 150 C	VRS 170 C
Nominal thermal load 1)	kW	35	58	77	104	121	153	181
Nominal thermal output	kW	32	55	73	94	111	141	165
Nominal air flow rate 2)	m³/h	4000	5600	6800	7500	8500	10500	12500
Fuel		Heatin	g oil EL, diese	el fuel, biodies	sel B7/ B10 3),	HVO biofuel	<sup>4),</sup> , natural ga	s or LPG
Oil flow rate (heating oil EL)	l/h	3.3	5.5	7.3	9.8	11.4	14.4	17.0
Gas flow rate (natural gas H)	m³/h	3.1	5.1	6.7	9.1	10.6	13.4	15.8
Gas flow rate (natural gas L)	m³/h	3.6	5.9	7.9	10.7	12.4	15.7	18.5
Gas flow rate (liquid gas)	m³/h	1.3	2.1	2.8	3.8	4.4	5.5	6.5
Gas flow rate (liquid gas)	kg/h	2.5	4.1	5.5	7.4	8.6	10.9	12.9
Exhaust flow rate 5)	kg/h	49.1	81.4	108.1	146.0	169.9	214.8	254.1
Approx. exhaust gas temperature 6)	°C				60 - 150			
Max. exhaust gas loss	%				5			
Flue-gas-side resistance	Pa	5	16	10	12	18	20	50
Nitrogen oxide emissions (HEL)	mg/kWh	100	93	128	94	111	119	126
Nitrogen oxide emissions (EGH)	mg/kWh	67	66	69	67	68	68	70
Voltage supply	V/Ph/Hz	230/	1~/50			400/3~N/50	)	
Max. power consumption	kW	0.65	1.11	1.30	1.70	2.04	2.40	3.38
Min./max. auxiliary power consumption	kW	0.30	0.36	0.40	0.50	0.54	0.50	0.58
Fan power consumption 7)	kW	0.35	0.75	0.90	1.20	1.50	1.90	2.80
Max. nominal current consumption	Α	1.81	2.66	3.04	3.92	4.50	4.93	6.57
Useful efficiency at rated heating capacity <sup>1)</sup>	%	93.0	93.1	93.4	91.3	91.8	91.8	91.3
Useful efficiency at minimum capacity <sup>1)</sup>	%	95.0	96.3	96.2	93.5	94.0	95.5	94.3
Operating efficiency at heat dissipation	%	94.0	93.5	92.6	92.8	93.3	92.5	93.4
Annual utilisation factor for room heating	%	83.6	85.2	84.4	82.3	83.5	83.6	83.7
Exhaust connection Ø	mm	150	150	150	180	180	180	180
Weight 8)	kg	220	249	305	399	405	462	529

### Calorific value H s in normal condition:

Heating oil EL	10.62	kWh/kg
Natural gas H	11.46	kWh/m³
Natural gas L	9.76	kWh/m³
Propane gas	27.72	kWh/m³
Propane gas	14.00	kWh/kg

<sup>1)</sup> Related to calorific value (H<sub>s</sub>)
2) Air flow rate at 20°C
3) Maximum biodiesel admixture of 10%
4 Hydrogenated vegetable oils that meet the requirements of DIN EN 590
5) Approx. amount during oil operation
6) Measured temperature minus room temperature
7) At standard pressure
8) Units without burners and other accessories

# **REMKO** VRS C SERIES

Universal calorific value heating systems in a planning-oriented modular system for oil and gas combustion

### **Technical data**

recilifical data					
Unit type				VRS 30 C	VRS 50 C
Nominal thermal load		kW		35	58
Nominal thermal output		kW		32	55
Fuel				Heating oil EL, diesel fuel HVO biofuel <sup>2)</sup> , natural ga	
Fuel consumption, heating oil EL		kg/h		3.3	5.5
Air flow rate 3)		m³/h		4000	5600
Voltage supply		V/Ph/Hz		230/1~/50	230/1~/50
Heaters with oil burner 4)					
With air discharge hood, 3-sided,					
with switching and control units, rear chimned Heaters with oil burner 4)	ey adapter, standard unit			380035	380055
With air discharge hood HB-90,					
with switching and control units, rear chimne	ev adapter				
standard unit	sy adapte.,			380036	380056
Heaters without burner <sup>4)</sup>				500050	300030
Without air outlet hood, with switches and o	ontrol units, rear chimney	Pressure			
adapter		p external			
standard unit		Pa	50	380030	380050
Surcharge for increased pressure		Pressure	100	380031	380051
		p external	200	380032	380052
		Pa	300	380033	380053
			400	380034	-
Burner version WLE 4) 5)					
Fan oil burner				949103	949105
Oil filter 3/8" 1-line design with automatic b			1002501	1002501	
Burner fresh-air box			290300	290300	
Burner fresh-air pipe, flexible (delivery lengt	h 5 m iumped)			1090207	1090207
Intake part with protective grid (burner fresh				1090209	1090209
Natural gas fan burner 6)	,			955050	955045
Propane gas fan burner 6)				955055	955030
Air discharge hoods with air outlet grids for	direct air discharge				
3-sided	V+R+L / H+R+L	Type HG		290311	290311
3-sided	V+R+H / V+L+H	Type HG		290312	290312
4-sided	V+R+L+H	Type HG		290310	290310
Air outlet hood 90°		Type HB-90		290350	290350
Air intake accessories and wall brackets		ПБ-90			
Flexible pipe	Pos. I-II	Type SG		290360	290360
Flexible pipe	Pos. III	Type SG		290361	290361
<b>Dust filter</b> , 3-sided (for free air intake)	Pos. I-III	Type F		290370	290370
Replacement filter mat, set	Pos. I-III	Type EF		290374	290374
Dust filter for duct connection	Pos. I-II	Type FK		290380	290380
Dust filter for duct connection	Pos. III	Type FK		290381	290381
Replacement filter mat	Pos. I-II	Type EFK		290410	290410
Replacement filter mat	Pos. III	Type EFK		290411	290411
Shutter flap combinations	Pos. I / II	Type JK		290390	290390
Shutter flap combinations	Pos. I-II / III	Type JK		290391	290391
Actuator with surface-mounted switch Open		71		320245	320245
Actuator, infinitely variable, with remote pot				320251	320251
Wall bracket	,			290400	290400
Accessories					

Electronic moisture-proof room thermostat ERT-1	1011390	1011390
With integrated temperature sensor, type of protection IP65, including needs-based		
setting of hysteresis and averaging, without connection accessories		
Differential temperature controller ATR-3	1011290	1011290
Fully automatic, including temperature probe, weekly programme, IP 54 protection class		
Electronic temperature controller type ATR-4	1011340	1011340
With temperature probe, surface mounting, weekly programme, IP 20 protection class		
Electronic temperature controller type ATR-5	1011342	1011342
With temperature probe, surface mounting, weekly programme, IP 54 protection class		
Temperature probe set for 4-point	1011343	1011343
blended temperature 7)		

<sup>&</sup>lt;sup>1)</sup> Maximum biodiesel admixture of 10% <sup>2)</sup> Hydrogenated vegetable oils that meet the requirements of DIN EN 590 <sup>3)</sup> At standard pressure <sup>4)</sup> Further information on page 229 <sup>5)</sup> **Attention:** For orders without combustion-technical commissioning, we provide the burners separately in the box without pre-adjustment.

VRS 70 C	VRS 100 C	VRS 120 C	VRS 150 C	VRS 170 C
77	104	121	153	181
73			141	165
73				105
		oil EL, diesel fuel, biodiesel B7/		
7.3	9.8	VO biofuel <sup>2),</sup> , natural gas or LP0 11.4		17.0
			14.4	
6800			10500	12500
400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50	400/3~N/50
380075	380105	380125	380155	380175
380076	380106	380126	380156	380176
380070	380100	380120	380150	380170
380071	380101	380121	380151	380171
380072	380102	380122	380152	380172
380073	380103	380123	380153	380173
380074	380104	-	-	380174
949107	949110	949112	949115	949117
1002501	1002501		1002501	1002501
290301	290301	290301	290301	290301
1090207	1090207	1090207	1090207	1090207
1090209	1090209	1094209	1094209	1094209
955035	955015	955015	955015	954650
955040	955020	955020	955020	954760
290321	290331	290331	290331	290341
290322	290332	290332	290332	290342
290320	290330	290330	290330	290340
290320				290340
290352	290354	290354	290354	290356
290361	290361	290361	290361	290361
290361	290362	290362	290362	290363
290371	290372	290372	290372	290373
290375	290376	290376	290376	290377
290381	290381	290383	290383	290383
290381	290382	290384	290384	290385
290411	290411	290413	290413	290413
290411	290412	290414	290414	290415
290391	290391	290391	290391	290391
290391	290392	290392	290392	290393
320245	320245	320245	320245	320245
320251	320251	320251	320251	320251
290401	290401	290401	290401	290401
1011200	4044200	1011200	1011200	1011200
1011390	1011390	1011390	1011390	1011390
1011200	1011200	1011200	1011200	1011200
1011290	1011290	1011290	1011290	1011290
4044240	4044240	4044240	4044240	4044240
1011340	1011340	1011340	1011340	1011340
4044242	4044242	4044242	4044242	4044242
1011342	1011342	1011342	1011342	1011342
1011212	4044242	1011212	4044242	1011212
1011343	1011343	1011343	1011343	1011343

 $<sup>^{\</sup>circ}$  The gas connection must be implemented by a licensed installer  $^{7}$  Only usable in combination with electronic temperature regulation (ETR-1, ATR-3, ATR-4, ATR-5, and MAK-2)

## **REMKO** PWN H SERIES

Hot water heaters in low-temperature design with EC fan for heating



### **REMKO PWN H SERIES**

### The efficient heating system for warehouses and supermarkets

The PWN H hot water heaters are optimally suited for use in commercial applications due to their high-quality, robust plastic housing. Through the universal colouring of the devices, they fit in discreetly in almost every environment.

Thanks to the modern, energy-efficient EC motors, the user obtains not only energy savings in comparison with conventional AC motors, but also a considerably increased regulating comfort as the fan can be adapted variably to the operating conditions as required. Individually adjustable air control fins guarantee a precise adaptation of the air flow and reduce the flow resistance to a minimum. The interaction of housing design, fan selection and heat exchanger dimensioning ensure an even flow-through of the fin heat exchanger and therefore an optimum utilisation of the heat exchanger surface for the transmission of power.

A sophisticated mounting system guarantees that, in addition to the wall or ceiling mounting, a mounting inclined by 30° is also possible. The mounting bar on the device itself can continue to be inclined by up to 70°, therefore enabling an adaptation of the device alignment to the most difficult mounting conditions. The brackets are included in the scope of supply of the standard version. An optionally fittable condensate drip pan enables an operation of the device even in cooling mode in case of wall mounting, therefore forming the ideal addition for securing the comfort zone.

- High-quality plastic housing for industrial applications
- Discreet design
- Modern, efficient EC technology
- Versatile mounting possibilities using series-standard bracket
- Cooling optionally possible in case of wall mounting

### Accessories

- Room temperature controller
- Air control fins, vertical
- Condensate drip pan



Precision room temperature controller RR 21.2



Pivotable 3D mounting system for optimum air distribution



### **Technical data**

Unit type		PWN 35-1 H	PWN 45-2 H	PWN 75-3 H	PWN 95-2 H	PWN 105-3 H
Heating capacity 1) 2)	kW	9.7 / 8.1	19.0 / 15.2	33.9 / 27.0	54.9 / 44.1	69.4 / 55.3
Cooling capacity 3)	kW	2.53	4.38	7.85	14.81	16.19
Air flow rate	m³/h	300 - 2850	250 - 2550	350 - 3900	1270 - 8560	715 - 7950
Rated flow rate, heating 1)	m³/h	0.43	0.83	1.49	2.41	3.05
Rated flow rate, cooling 3)	m³/h	0.46	0.81	1.47	2.69	2.99
Sound pressure level L <sub>pA</sub> <sup>4)</sup>	dB(A)	29 - 64	29 - 64	32 - 67	37 - 71	35 - 70
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50	230/1~/50	230/1~/50	230/1~/50
Power consumption 1)	W	108	111	315	635	635
Current consumption 1)	Α	0.77	0.83	2.10	4.24	4.16
Operating limit temperature	°C	105	105	105	105	105
Maximum operating pressure	bar	16	16	16	16	16
Pressure loss, heating 1)	kPa	2.4	5.7	11.8	12.3	9.4
Pressure loss, cooling 3)	kPa	2.8	5.5	14.5	19.2	11.5
Maximum blowing range (wall mounting)	m	15.4	13.9	21.2	23.6	22.3
Water volume of registers	1	1.8	2.5	3.2	5.3	6.5
Medium connectors	Inch	R 3/4	R 3/4	R 3/4	R 1	R 1
Dimensions - height	mm	730	730	730	730	730
Dimensions - width	mm	765	765	765	1390	1390
Dimensions - depth with mounting bar	mm	595	595	595	595	595
Weight	kg	20	21	26	38	40
Ref. no.		1684035	1684045	1684075	1684095	1684105
Ref. no.		1684035	1684045	1684075	1684095	1684105

<sup>&</sup>lt;sup>1)</sup> Water inlet temp. 70°C, water outlet temp. 50°C, water inlet temp. 15°C, maximum air volume flow rate <sup>2)</sup> Water inlet temp. 55°C, water outlet temp. 45°C, water inlet temp. 15°C, maximum air volume flow rate <sup>3)</sup> Water inlet temp. 7°C, water outlet temp. 12°C, water inlet temp. 27°C TK, air volume flow rate at 5V <sup>4)</sup> Measured in a 100 m³ room with a reverberation period of 0.3 seconds, distance of 1.5m

### Accessories

Unit type	PWN 35-1 H	PWN 45-2 H	PWN 75-3 H	PWN 95-2 H	PWN 105-3 H
Condensate drip pan					
For mounting into the unit to use the unit in cooling operation.	1684195	1684195	1684195	1684196	1684196
Air control fins, vertical for mounting into the device for					
the adjustability of the vertical distribution of air.	1684193	1684193	1684193	1684193	1684193
Precision room temperature controller RR 21.2					
For controlling one or more indoor units (max. 50), pro- grammable, electronic controller with summer/winter op- eration changeover, external start/stop, infinitely variable control of EC fans across 0-10 V and many other features	1611401	1611401	1611401	1611401	1611401
Room temperature controller RR 21.2,					
Type of protection IP54	1684402	1684402	1684402	1684402	1684402



### Planning aids

Extensive planning aids can be found under: www.remko.de/planung/pwn.pdf

# **REMKO** PWW SERIES

Hot water heaters as supplement to hot water heating plant



### **REMKO PWW SERIES**

### Best suited for warehouses and supermarkets

The sophisticated design is suitable for both wall and ceiling installation. With a heat output of 4 to 135 kW, an optimum expansion of existing or planned hot water heating systems is possible at any time.

The load-bearing, galvanised, solid steel sheet housings are already supplied. The air discharge fins are individually infinitely variable. REMKO PWW units are designed for warm and hot pump water at temperatures up to a maximum of 110°C and a max. permissible operating pressure of 16 bar.

An aerodynamically shaped, silent Ziehl-Abegg sickle-shaped axial fan with a maintenance-free three-phase two-speed external rotor motor is installed as standard.

- Fitted as standard with a Ziehl-Abegg sickle-shaped axial fan
- Speed range regulation, 2-way and 5-way optional
- Low spatial requirements
- Extremely low noise by using optimum coordinated components
- Extremely easy to service
- Painted design, optional

### **Technical data**

Unit type		PWW 30-2	PWW 30-3	PWW 30-4	PWW 30-6	PWW 50-2	PWW 50-3	PWW 50-4	PWW 50-6
Electrical connection	V	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N
Frequency	HZ	50	50	50	50	50	50	50	50
Power consumption	kW	0.19/0.14	0.19/0.14	0.19/0.14	0.19/0.14	0.28/0.19	0.28/0.19	0.28/0.19	0.28/0.19
Nominal current	Α	0.40/0.23	0.40/0.23	0.40/0.23	0.40/0.23	0.58/0.31	0.58/0.31	0.58/0.31	0.58/0.31
Speed	rpm	1390/1170	1390/1170	1390/1170	1390/1170	1340/1080	1340/1080	1340/1080	1340/1080
Air capacity	m³/h	2140/1660	1950/1550	1760/1380	1620/1230	3610/2850	3230/2850	2990/2420	2790/2230
Sound pressure level 1)	dB(A)	52/46	53/48	55/49	57/50	55/50	55/51	58/54	58/54
Heating medium connection	Inch	R ¾"	R 1"	R 1 1/4"	R 1 1/4"	R ¾"	R 1"	R 1 1/4"	R 1 1/4"
Heating medium			V	Varm or hot pu	mp water up to	maximum 80	°C		
Max. operating pressure	bar	16	16	16	16	16	16	16	16
Weight	kg	24	25	28	30	31	33	36	39

Unit type		PWW 80-2	PWW 80-3	PWW 80-4	PWW 80-6	PWW 100-2	PWW 100-3	PWW 100-4	PWW 100-6
Electrical connection	V	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N	400/3~N
Frequency	HZ	50	50	50	50	50	50	50	50
Power consumption	kW	0.34/0.21	0.34/0.21	0.34/0.21	0.34/0.21	0.62/0.44	0.62/0.44	0.62/0.44	0.62/0.44
Nominal current	Α	0.70/0.38	0.70/0.38	0.70/0.38	0.70/0.38	1.25/0.75	1.25/0.75	1.25/0.75	1.25/0.75
Speed	rpm	870/630	870/630	870/630	870/630	900/720	900/720	900/720	900/720
Air capacity	m³/h	5500/4260	5120/4070	4490/3540	4080/3110	8600/6350	7820/5990	7280/5580	6570/4760
Sound pressure level 1)	dB(A)	55/49	55/49	55/49	55/49	58/54	58/54	59/55	59/55
Heating medium connection	Inch	R 1"	R 1 1/4"	R 1 1/4"	R 1 1/4"	R 1 1/4"	R 1 1/4"	R 1½"	R 11/2"
Heating medium			V	Varm or hot pui	mp water up to	maximum 110	)°C		
Max. operating pressure	bar	16	16	16	16	16	16	16	16
Weight	kg	42	46	48	54	55	59	64	71

<sup>&</sup>lt;sup>1)</sup> Measurement at a distance of 5m, volume of measurable space 800 m³, average reverberation time 1.4 s

### **Technical data**

PWW 30-2	PWW 50-2	PWW 80-2	PWW 100-2
1686010	1686040	1686070	1686100
PWW 30-3	PWW 50-3	PWW 80-3	PWW 100-3
1686020	1686050	1686080	1686110
PWW 30-4	PWW 50-4	P\W\W 80-4	PWW 100-4
1686030	1686060	1686090	1686120
DIA/IA/ 20 C	DIAMAL FO. C	DIA/IA/ OO C	DW/W/ 400 C
			<b>PWW 100-6</b> 1686123
	1686010 PWW 30-3 1686020 PWW 30-4	1686010 1686040  PWW 30-3 PWW 50-3 1686020 1686050  PWW 30-4 PWW 50-4 1686030 1686060  PWW 30-6 PWW 50-6	1686010       1686040       1686070         PWW 30-3       PWW 50-3       PWW 80-3         1686020       1686050       1686080         PWW 30-4       PWW 50-4       PWW 80-4         1686030       1686060       1686090         PWW 30-6       PWW 50-6       PWW 80-6

# Special design

- F				
Unit type	PWW 30	PWW 50	PWW 80	PWW 100
Extra cost for unit lacquer coating in RAL colours as required	1686001	1686002	1686003	1686004
Switchgear				
Switchgear MSRD 4.0, 2-speed, 400 V	1686200	1686200	1686200	1686200
Switchgear MSRD-K, 2-speed, 400 V, including frost protection	1686201	1686201	1686201	1686201
and mixed-air flap control (open/close)				
MAK-2, 2-speed, 400 V, fully electronic design for automatic	385330	385330	385330	385330
operation, including frost-protection and mixed-air flap control				
(infinitely variable), day/night temperature regulation				
Switchgear 3 EG, 5-stage, 3.0 A, 400 V	385300	385300	385300	385300
Switchgear 5 EG, 5-stage, 5.2 A, 400 V	385301	385301	385301	385301
Repair switch RS 3, separate	513100	513100	513100	513100
Motor terminal box AKG-5,	385303	385303	385303	385303
for a parallel group control of max. 5 units				

Accessories					
Brackets for wall and ceiling mounting	KO	385217	385218	385219	385220
Wall bracket For filter and blended air cover combination	WFM	385370	385371	385372	385373
Fresh-air intake hood	ALH	385375	385376	385377	385378
Rain collar with duct section, 1000 mm	RK	385380	385381	385382	385383
Duct adapter, 500 mm	KA 5	385385	385386	385387	385388
Duct adapter, 1000 mm	KA 10	385390	385391	385392	385393
Flexible pipe	SG	385395	385396	385397	385398
Filter box	FK	385400	385401	385402	385403
Replacement filter mat	EF	385405	385406	385407	385408
Mixed-air box without actuator	MLK	385410	385411	385412	385413
Recirculation air intake fitting	UA	385415	385416	385417	385418
Fresh-air intake grid	Customer	385420	385421	385422	385423
Air discharge shutter (vertical fins)	В	385193	385194	385195	385196
Ceiling air discharge nozzle	AD	385213	385214	385215	385216
Air discharge hood, 4-sided	HG	385197	385198	385199	385212
Flap actuator, Off/Pause/On	KSH	385290	385290	385290	385290
Flap actuator, infinitely variable	KSP	385289	385289	385289	385289
3-position switch, surface mounting	SK	290246	290246	290246	290246
Remote potentiometer, surface mounting	FP	385288	385288	385288	385288
Frost protection thermostat	FS	385305	385305	385305	385305
Circular exhaust for foil tube connector 450 Ø	RF	1085310	1085320	-	_
Circular exhaust for foil tube connector 600 Ø	RF	-	_	1085330	1085340
Injection vent, fitted to the wall	IJ	385350	385351	385352	385353
Injection vent, fitted to the ceiling	IJ	385360	385361	385362	385363

### Accessories

Unit type	PWW 30	PWW 50	PWW 80	PWW 100
Electronic moisture-proof room thermostat ERT-1 With integrated temperature sensor, type of protection IP65, including needs-based setting of hysteresis and averaging, without connection accessories	1011390	1011390	1011390	1011390
Differential temperature controller ATR-3 Fully automatic, including temperature probe, weekly programme, IP 54 protection class	1011290	1011290	1011290	1011290
Electronic temperature controller ATR-4 With temperature probe weekly, surface mounting, type of protection IP20	1011340	1011340	1011340	1011340
Electronic temperature controller ATR-5 Including temperature probe, weekly programme, surface mounting, type of protection IP54	1011342	1011342	1011342	1011342
Temperature probe set for 4-point blended temperature recording	1011343	1011343	1011343	1011343

 $<sup>^{*}</sup>$  Can only be set in combination with electronic temperature regulation (ETR-1, ATR-3, ATR-4, ATR-5, and MAK-2)



# **REMKO** PWW SERIES

## Hot water heaters | Planning aids



**REMKO** injection shutter



REMKO PWW with mounted injection shutter

### Injection shutter

### An economical expansion to your REMKO PWW unit.

The supply air is blown in optimally through the injection shutter, while the position of the air control fins influences the air speed and the air discharge temperature of the entire air stream. With this technology, REMKO PWW units achieve greater blowing ranges and a quick heating of the areas subject to temperature control. Intake of the already heated room air prevents the occurrence of layers with varying air temperatures. The heat is distributed evenly throughout the room. The injection shutter can be mounted to your REMKO PWW unit at a later point in time without a problem and without great effort. The position of the fins can also be electrically regulated via an optional controller.

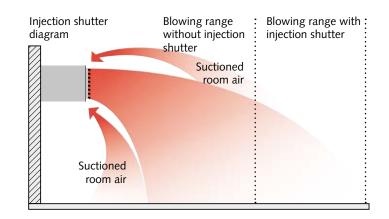
- Further blowing range due to addition of room air
- Faster and more even heating at same unit output
- Suited for wall and ceiling operation
- Problem-free mounting (even later)
- Electrical adjustment and regulation of the fin position possible

### Installation

Unclip the existing fins and fix the injection shutter with four screws. The position of the fins can also be electrically regulated via an optional controller.

### Nozzle-shaped air outlet opening

The air outlet speed is increased by the nozzle-shaped air outlet opening and, at the same time, secondary air is laterally inducted by the profile. The air jet penetrates more deeply into the room. The desired room temperature is thus achieved more quickly.



## **REMKO** PWL H SERIES

## Ceiling ventilation units for heating



# Areas of application

- Sales and commercial premises
- Exhibition and lobby areas
- Industrial and trade fair halls
- Shopping centres, retailers and supermarkets

Temperature probe set for 4-point blended temperature recording 1011343

### **REMKO PWL H SERIES**

### Modern technology in an attractive design

Their flat design and variable technology allows their subtle application, both in low-ceilinged and high-ceilinged rooms. The individually adjustable fins in the upper and lower parts of the housing allow optimum air distribution and thus provide a comfortable room climate. Ease of service and a simple, uncomplicated assembly are the characteristic features of these units. The media connections and the mains cabling can be installed out of sight in the false ceiling. The elegant plastic housing can easily be removed from its bearing elements thanks to the rapid release couplings. The units are fitted as standard with a high-performance condensate pump.

- Quiet operation
- Installation-friendly design
- Service friendliness
- Universal use
- Self-extinguishing plastic housing, fire class V-0

### **Technical data**

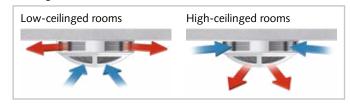
Technical data								
Unit type		PWL 101 H		PWL 102 H		PWL 103 H		
Max. thermal output at 90/70	kW	16.5		26.7		34.4		
and air intake temperature of 0 °C								
PWW heating medium	°C	90/70	70/50	90/70	70/50	90/70	70/50	
Thermal output	kW	16.5/14.7	12.0/10.7	26.7/24.1	19.5/17.8	34.4/29.7	25.4/22.0	
At air intake temperature	tLE °C	0	0	0	0	0	0	
At air outlet temperature	tLA °C	23/24	16/18	38/41	28/31	51/54	37/40	
Air capacity	m³/h	2030/1685	2030/1685	1960/1610	1960/1610		1885/1530	
Sound pressure level	dB(A)	56/47	56/47	56/47	56/47	56/47	56/47	
Heating medium connection	Inch	R1"	R1"	R1"	R1"	R1"	R1"	
Voltage supply	V/Ph/Hz	400/3~N/5	0	400/3~N/5	0	400/3~N/5	0	
Weight	kg	31		35		38		
Ref. no.		1687101		1687102		1687103		
Switchgear								
Switchgear MSRD 4.0, 2-speed, 400 V		1686200		1686200		1686200		
Switchgear MSRD-K, 2-speed, 400 V		1686201			1686201		1686201	
Switchgear MAK-2, 2-speed, 400 V, fully electro	nic for auto-	385330			385330		385330	
matic operation, including 24-hour temperature				303330	565550		33333	
Switchgear 3 EG, 5-stage, 3.0 A, 400 V	regulation	385300		385300		385300		
<b>Switchgear 5 EG</b> , 5-stage, 5.2 A, 400 V		385301		385301		385301		
Motor terminal box AKG-5, for a parallel group cont	rol of max 5 units			385303		385303		
Frequency converter	nor or max. 5 arms	1687405		1687405		1687405		
Troquency convertes		1007 103		1007 103		1007 103		
Accessories								
Unit brackets, fixed length 90 mm		Series		Series		Series		
Unit brackets, adjustable, 90-145 mm		1687400		1687400		1687400		
Miscellaneous Accessories								
Floring to the state of the sta		4044200		4044200		4044200		
Electronic moisture-proof room thermostat ERT-		1011390		1011390		1011390		
With integrated temperature sensor, type of profincluding needs-based setting of hysteresis and a								
without connection accessories	3 3,							
Electronic temperature controller ATR-4		1011340		1011340		1011340		
With temperature probe, surface mounting, IP 20	protection class							
Electronic temperature controller ATR-7	•	1011292		1011292		1011292		
With temperature probe, surface mounting, IP 54	protection class							



### Versatile

The possibility of altering the rotation of the fans allows optimal air distribution in both low-ceilinged and high-ceilinged rooms. In addition, this technology is ideal for always achieving the perfect outlet layout for heating operation.

### Heating



DW 204 11		DV4/1 202 11		DW// 202 !!		DW 204 11		DW// 202 //		DW// 202 //	
PWL 201 H		PWL 202 H		PWL 203 H		PWL 301 H		PWL 302 H		PWL 303 H	
20.8		36.3		47.2		26.9		44.0		61.1	
90/70	70/50	90/70	70/50	90/70	70/50	90/70	70/50	90/70	70/50	90/70	70/50
	14.5/13.0	36.3/32.3			34.5/30.4	26.9/20.3	18.8/14.3	44.0/31.5	31.0/22.3	61.1/34.7	44.8/25.6
0	0	0	0	0	0	0	0	0	0	0	0
-	13/14	35/37	25/27	46/49	34/36	17/21	12/15	29/36	21/26	43/56	32/41
		2900/2400		2850/2350					4150/2400		
	61/53	61/56	61/56	61/56	61/56	66/59	66/59	66/59	66/59	68/61	68/61
R1"	R1"	R1"	R1"	R1"	R1"	R1"	R1"	R1"	R1"	R1"	R1"
400/3~N/50	)	400/3~N/50	)	400/3~N/50	)	400/3~N/50	)	400/3~N/50	)	400/3~N/50	)
32		35		38		43		46		48	
1687201		1687202		1687203		1687301		1687302		1687303	
1686200		1686200		1686200		1686200		1686200		1686200	
1686201		1686201		1686201		1686201		1686201		1686201	
385330		385330		385330		385330		385330		385330	
385300		385300		385300		385300		385300		385300	
385301		385301		385301		385301		385301		385301	
385303		385303		385303		385303		385303		385303	
1687405		1687405		1687405		1687405		1687405		1687405	
Series		Series		Series		Series		Series		Series	
1687400		1687400		1687400		1687400		1687400		1687400	
1011390		1011390		1011390		1011390		1011390		1011390	
1011340		1011340		1011340		1011340		1011340		1011340	
1011202		4044202		4044303		4044202		4044303		1011202	
1011292		1011292		1011292		1011292		1011292		1011292	
1011343		1011343		1011343		1011343		1011343		1011343	
1011343		1011343		1011343		1011343		1011343		1011343	

# **REMKO** WPS SERIES

Ceiling heating systems



### **REMKO** WPS SERIES

### The "heating island principle": Heat where it is needed

REMKO ceiling heating systems create new dimensions in the heating of production lines, warehouses, sports halls, sports stands, sales rooms, exhibition halls, etc.

In accordance with the "heating island principle," REMKO ceiling-mounted heating systems can be used to heat areas such as work-places, cash till areas, individual components, materials, audience seats, sales areas, and so on.

### The sun above your workstation

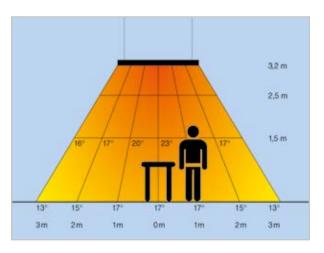
REMKO ceiling heating systems generate soft waves of heating in accordance with the principle of solar heating. Not the air is heated, but rather only the radiated surface. There are only slight temperature differences between the floor and the hall ceiling. The cosy heating of the floor area prevents cold feet and increases motivation.



Electronic temperature controller, type ATR-7

# Ceiling heating systems for mounting directly above the useful or working area

The installation above the working area should ideally be at a suspended height of 3.20 m, using a suspension bracket. Integrated installation into a false ceiling is also possible, as is mounting under a cable duct. An additional advantage of the REMKO ceiling heating systems are their universal application possibilities. When large useful or working areas are heated, it is possible to install several heating systems in series in a modular manner. The time-consuming and expensive installation of an exhaust gas plant is not necessary. REMKO ceiling heating systems are maintenance-free.



Temperature data based on a room temperature of 12°C (WPS 3000)



## **Technical data**

Unit type		WPS 2000	WPS 3000
Area of application	approx. m	6 x 4	6 x 4
Heat range		See temperature profile	See temperature profile
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50
Power consumption	kW	2.2	2.4
Nominal current	Α	9.8	10.9
Minimum mounting height	m	2.50	2.50
Length	mm	2000	2000
Width	mm	300	300
Height	mm	80	80
Weight	kg	22	22
Serial colour		white	white
Ref. no.		1640200	410100

Accessories		
Suspension bracket, 2 mounting brackets for ceiling	Included in price	Included in price
mounting or mounting under a cable duct, 2 suspension		
chains at 3.5 m each, 2 ceiling hooks with dowels		
Electronic temperature controller ATR-7		
With temperature probe, surface mounting, IP 54 protection class	1011292	1011292
Switchgear with on/off switch and room thermostat con-		
nection, can be used for 2-6 heating systems	412200	412200

## **REMKO** DVL AND ATR SERIES

## Ceiling fans as supplement for hot air heating systems





### **REMKO** DVL SERIES

## Ceiling fans for reducing energy costs by activating lost ceiling heat in high-ceilinged halls

Thermal dynamic pushes heat upward.

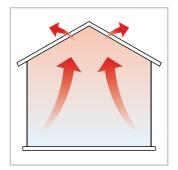
Result: Unused quantities of heat dam up near the ceiling. With the REMKO DVL 140 ceiling fan, this lost heat potential can be retrieved from the ceiling and returned to the work area. Valuable thermal energy is saved by this type of "heat recovery."

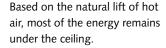
- High ventilation capacity
- Long service life
- Quiet operation
- Low energy costs
- Single-phase a.c. motor, maintenance-free and malfunction-free for continuous operation
- White housing, stove enamelled
- Vibration-damping pendulum pipe suspension for low-vibration operation
- Easy to assemble
- Adjustable rotation speed, optional

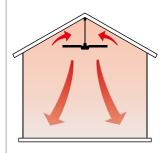
### **REMKO ATR-3 SERIES**

# Fully automatic differential temperature controller, the ideal complement to a ceiling fan

With the fully automatic differential temperature controller, hot air that rises to the ceiling is made usable again in connection with the REMKO ceiling fan. The controller works with two probes: a room probe attached at working height and a ceiling probe. If the temperature falls below a previously set value, the ceiling fans are switched on to transport the hot air near the ceiling back down.







Through the use of a DVL ceiling fan, the warm air will be pushed downwards, constantly.



### Design

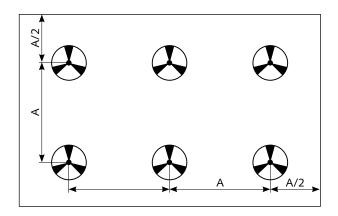
Hall floor area Number of DVLs Hall height x 20

Distance of DVLs √ Hall height x 20

## **Energy savings calculation**

Δt with DVL Δt +1.5 Δt without DVL  $\Delta t + (H \times 1.5)$ 

 $\Delta t$  = inside ambient temperature – standard outside temperature H = hall height



Important mounting instructions: The Unfallverhütungsvorschriften (German Accident Prevention Regulations (UVV)) proscribe a mandatory minimum distance of 2.5 m from the floor to the bottom edge of the blade.

1011296

### **Technical data**

Unit type		DVL 140	DVL140 K*
Air circulation	m³/h	15000	15000
Max. speed	rpm	300	300
Voltage supply	V/Ph/Hz	230/1~/50	230/1~/50
Power consumption	Watt	75	75
Blade diameter	mm	1,420	1420
Construction height	mm	690	440
Weight	kg	9.5	9.0
Ref. no.		570400	570401

<sup>\*</sup>Short design

Speed controller DR-3 Infinitely variable, max. 8 units

Short design		
Temperature controllers		
Differential temperature controller TR-2		
With display, including temperature probe, type of protection IP54, max. 10 units	1011291	1011291
Differential temperature controller ATR-3, fully automatic, including		
temperature probe, weekly programme, IP54 protection class, max. 14 units	1011290	1011290
Other accessories		
Thermal probe		
For fully-automatic operation through ceiling temperature monitoring	1011230	1011230
Speed controller DR-1		
Infinitely variable, max. 4 units	1011294	1011294

1011296

## **REMKO** ASE AND ASD SERIES

## Exhaust gas plants



### **REMKO** ASE and ASD SERIES

### The ideal exhaust gas solution

The REMKO ASE and ASD exhaust gas systems are especially designed for connection to modern hot air heating systems. The modular ASD systems with their three-shell design are delivered ready for assembly with continuous ceramic rock wool insulation. For reasons of corrosion protection, all components are basically manufactured from stainless steel. The exhaust gas system parts are simply connected by plugging and secured using clamps.

- Easy planning
- Optimum heat insulation
- High security
- Modular design
- Easy and economical mounting and design
- Condensate-proof implementation with seam plasma welding
- Simple double-casing plug-in technology
- Outer casing made of stainless steel 1.4301
- Testing by authorities, among other things for the following: corrosion resistance, pressure resistance, mounting safety, and temperature resistance

### **Technical data**

Single-walled stainless steel	Unit type	ASE
Material	Inner wall	1.4404
	Wall thickness	0,6 mm
Insulation		possible
Thickness		25 mm
Internal rated diameter range		Ø 130 - 200 mm
Temperature range	Continuous mode	400 °C
Max. testing temperature		1000°C ± 50 K
Function		Dry, vacuum
Fuels		Oil/gas/solid fuels
Approval		CE 0432-BPR-119988
Quality/external monitoring		Yes

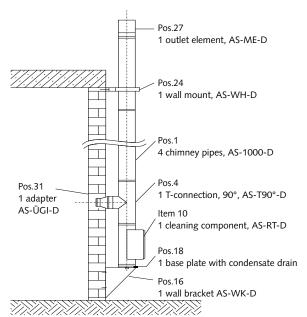
	11.97		105 100	105 150	105 100	155 000	
	Unit type		ASE 130	ASE 150	ASE 180	ASE 200	
	Internal nominal diameter range	mm	130 Ø	150 Ø	180 Ø	200 Ø	
Pos.	Individual sections		Ref. no.	Ref. no.	Ref. no.	Ref. no.	
1	Chimney pipe AS-1000-E		1085325	1085326	1085327	1085328	
2	Chimney pipe AS-500-E		1085336	1085337	1085338	1085339	
3	Chimney pipe AS-250-E		1085740	1085741	1085742	1085743	
4	T-connector AS-T90-E		1085347	1085348	1085349	1085350	
5	T-connector AS-T45-E		1085370	1085371	1085372	1085373	
6	Pipe bend AS-B45-E		1085490	1085491	1085492	1085493	
7	Cleaning bend, adjustable 0-90°, AS-RB90-E		1085436	1085437	1085438	1085439	
8	Cleaning component with condensate drain AS-RT-E		1085424	1085425	1085426	1085427	
9	Rain hood AS-RH-E		1085479	1085480	1085481	1085482	
10	Wall mount, adjustable AS-WH-E		1085567	1085568	1085569	1085570	
11	Roof bushing AS-D15-E 1-15°, including weather collar		1085750	1085751	1085752	1085753	
12	Roof bushing AS-D30-E 15-30°, including weather collar		1085760	1085761	1085762	1085763	
13	Adjusting length AS-JL-E		1085739	1085770	1085771	1085772	
14	Reduction piece 130/150 mm		1085290	_	-	-	



### Planning aids

Extensive planning aids can be found under: www.remko.de/planung/ase-asd.pdf

**REMKO ASD** Exhaust gas system, complete, for exterior assembly, consisting of:



### **Technical data**

Double-walled stainless steel	Unit type	ASD
Material:	Inner wall	1.4404
	Wall thickness	0,4 mm
	Outside wall	1.4301
	Wall thickness	0,4 mm
Insulation		Mineral wool
Thickness		35 mm
Internal rated diameter range		Ø 130 - 350 mm
Temperature range	Continuous mode	600 °C
Max. testing temperature		1000 °C ± 50 K
Function		Moist and dry, vacuum
Fuels		Oil/gas, solid fuels
CE Certificate No.		CE 0432-BPR-119900
Quality/external monitoring		Constant monitoring

Jnit type  ixhaust gas system, complete  for outside mounting  Application possibility of series**  Ref. no.	ASD 130 130 Ø GPS 20-60, GPC 20-60	ASD 150 150 Ø VRS 25-50, VRS 30-70 C GPS 80, GPC 80	ASD 180 180 Ø VRS 75-100, VRS 100-170 C	<b>ASD 200</b> 200 Ø VRS 130-200	<b>ASD 300</b> 300 Ø VRS 270-340	<b>ASD 350</b> 350 Ø VRS 440-540
For outside mounting Application possibility of series** Ref. no.	GPS 20-60, GPC 20-60	VRS 25-50, VRS 30-70 C	VRS 75-100,			
Ref. no.	GPC 20-60	VRS 30-70 C		VRS 130-200	VRS 270-340	VRS 440-540
	1005254					
	1085354	1085355	1085360	1085375	1085390	1086395
ndividual sections	Ref. no.	Ref. no.	Ref. no.	Ref. no.	Ref. no.	Ref. no.
Chimney pipe AS-1000-D	1085000	1085001	1085002	1085003	1085005	1086006
Chimney pipe AS-500-D	1085007	1085008	1085009	1085010	1085012	1086013
Chimney pipe, AS-250-D	1085013	1085015	1085016	1085017	1085019	1086020
-connection AS-T90°-D	1085020	1085022	1085023	1085024	1085026	1086027
-connection AS-T45°-D	1085028	1085029	1085030	1085031	1085033	1086034
Pipe bend AS-B45°-D	1085034	1085036	1085037	1085038	1085040	1086041
Pipe bend AS-B30°-D	1085041	1085043	1085044	1085045	1085047	1086048
Pipe bend AS-B15°-D	1085041	1085050	1085051	1085052	1085054	1086055
Cleaning bend AS-RB90°-D	1085722	1085724	1085725	1085726	1085054	1086033
Cleaning component AS-RT-D	1085722	1085057	1085058	1085059	1085728	1086062
Adjusting length AS-JL-D	1085069	1085077	1085072	1085073	1085075	1086076
loor support AS-BS-D, adjustable	1085009	1085071	1085072	1085080	1085075	1086083
						1086097
ntermediate bracket AS-ZK-D Roof support AS-DS-D, adjustable	1085090 1085111	1085092 1085113	1085093 1085114	1085094 1085115	1085096 1085117	1086118
• • • • • • • • • • • • • • • • • • • •						
0.0						1086322
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O .						1086181
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						1086146
						1086167
						1086216
. ,						1086680
						1086258
						1086265
, , ,						1086286
•						1086647
•						1086139
•						1086708
Drain pipe AS-EW-D						1086717
, , ,						1086202
Replacement weather collar AS-WK-D	1085237	1085239	1085240	1085241	1085243	1086244
<b>Vall mount, AS-WHV 300-D</b> Adjustable up to 300 mm	1085680	1085681	1085682	1085683	1085685	1086686
Wall mount, AS-WHV 600-D	1085690	1085691	1085692	1085693	1085695	1086696
Wall bracket, AS-WHV 300-D	1085720	1085720	1085720	1085720	1085721	1086722
						1006724
Wall bracket, AS-WHV 600-D Adjustable up to 600 mm	1085721	1085721	1085721	1085721	1085723	1086724
W W W W W W W W W W W W W W W W W W W	eplacement securing tape AS-SB-D eplacement weather collar AS-WK-D all mount, AS-WHV 300-D djustable up to 300 mm all mount, AS-WHV 600-D djustable up to 600 mm all bracket, AS-WHV 300-D djustable up to 300 mm	all bracket AS-WK-D  all bracket AS-WK-D  alling cover AS-VD-D  alling cover AS-VD-D  alling cover AS-VD-D  of penetration AS-D15-D, 1-15°  of penetration, AS-D30-D, 15-30°  of penetration, AS-D30-D, 15-30°  all mount AS-WH-D  all mount AS-WHV-D, adjustable  utlet element AS-ME-D  in hood AS-RH-D  in hood AS-RH	all bracket AS-WK-D  all bracket AS-WK-D  all bracket AS-GI-D  aling cover AS-VD-D  1085149  1085151  1085149  1085151  1085139  1085141  1085160  all mount AS-D45-D, 30-45°  all mount AS-WH-D  all mount AS-WHV-D, adjustable  all mount AS-WHV-D, adjustable  all mount AS-RH-D  1085251  1085253  1085260  1085279  1085281  1085279  1085281  1085402  1085402  1085640  1085642  1085132  1085132  1085134  1085132  1085134  1085134  1085132  1085134  1085132  1085134  1085132  1085134  1085135  1085135  1085136  1085703  1085701  1085703  1085703  1085710  1085710  1085712  1085289  1085289  1085289  1085287  1085287  1085287  1085289  1085680  1085681  1085690  1085691  1085720  1085720  1085720  1085720  1085720  1085720	all bracket AS-WK-D  see plate AS-GI-D  1085125  1085127  1085128  aling cover AS-VD-D  1085149  1085151  1085152  1085151  1085152  1085152  1085151  1085152  1085152  1085151  1085152  1085153  1085160  1085162  1085163  all mount AS-WH-D  1085073  1085075  1085076  autlet element AS-ME-D  1085251  1085253  1085264  auth hood AS-RH-D  1085279  1085281  1085282  dapter AS-ÜGI-D  1085132  1085134  1085282  dapter AS-ÜE-D  1085270  1085132  1085134  1085283  1085284  1085285  1085280  1085281  1085282  1085281  1085282  1085281  1085282  1085134  1085135  1085135  1085135  1085136  1085701  1085701  1085701  1085703  1085704  1085196  1085197  1085198  1085289  1085280  1085680  1085681  1085682  1085682  1085692  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720  1085720	all bracket AS-WK-D  1085104  1085105  1085127  1085128  1085129  aling cover AS-VD-D  1085174  1085176  1085177  1085178  1085189  1085179  1085189  1085179  1085179  1085179  1085189  1085179  1085179  1085189  1085151  1085152  1085153  1085153  1085153  1085164  1085160  1085162  1085163  1085164  1085163  1085164  1085164  1085160  1085161  1085161  1085163  1085164  1085161  1085163  1085164  1085164  1085165  1085211  1085212  1085213  1085213  1085213  1085279  1085281  1085282  1085283  1085282  1085283  1085284  1085283  1085164  1085165  1085165  1085165  1085283  1085284  1085285  1085285  1085285  1085286  1085285  1085286  1085385  1085186  1085704  1085705  1085710  1085719  1085199  1085281  1085282  1085283  1085294  1085714  1085705  1085710  1085712  1085713  1085714  1085199  1085281  1085282  1085283  1085284  1085295  1085295  1085296  1085701  1085701  1085703  1085704  1085705  1085198  1085281  1085282  1085283  1085284  1085295  1085296  1085701  1085703  1085704  1085705  1085705  1085198  1085299  1085291  1085299  1085291  1085680  1085681  1085692  1085693  1085720  1085720  1085720  1085720  1085720	all bracket AS-WK-D  1085104  1085106  1085107  1085108  1085129  1085131  1085127  1085128  1085129  1085131  1085131  1085177  1085178  1085178  1085180  1085180  1085177  1085178  1085180  1085180  1085180  1085180  1085197  1085177  1085178  1085180  1085180  1085180  1085181  1085181  1085185  1085153  1085155  1085153  1085155  1085154  1085144  1085142  1085143  1085145  1085145  1085160  1085160  1085161  1085162  1085163  1085164  1085164  1085164  1085165  1085167  1085209  1085211  1085212  1085213  1085215  108100000000000000000000000000000000

<sup>\*</sup> AS-ÜGI-D is used as a boiler connector component. All construction components are delivered with their securing straps. \*\* A cross-section calculation according to DIN 4705 is fundamentally recommended.

## **ACCESSORIES**

## Switchgear



### Electronic room thermostat ERT-1

With integrated temperature sensor, type of protection IP65, without connection cable

	Ref. no.
ERT-1	1011390



### Electronic room thermostat ERT-5

With integrated temperature probe, type of protection IP65, including 5 m moisture-proof room cable, connecting plug, suspension device, operating hour counter

	Ref. no.
ERT-5	1011392



### Electronic room thermostat ERT-10

With integrated temperature probe, type of protection IP65, including 10 m moisture-proof room cable, connecting plug, protective and suspension devices, operating hour counter

	Ref. no.
ERT-10	1011394



### External temperature sensor

For ATR-Smart Basic and ATR-Smart Web, without connection cable

	Ref. no.
External temperature	1011364
sensor	



### Cabled remote control KF-35

Surface mounting, type of protection IP20, electrical remote unlocking mechanism, Heat/Ventilate selector switch, including 3.5 m connecting cable

	Ref. no.
KF-35	1011381



### Room temperature controller RR-35

Heating/ventilation selector switch, electric remote unlocking mechanism, adjustable room thermostat (integrated), 3.5 m connection cable without plug

	Ref. no.
RR-35	1011382



## Electronic temperature controller ATR-Smart-Basic With touch display for 1-32 units, type of

With touch display for 1-32 units, type of protection IP54, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation display, parameterisation option, without connection cable

	Ref. no.
ATR-Smart Basic	1011376



### Electronic temperature controller ATR-Smart-Basic

With touch display for 1-32 units, type of protection IP20, automatic day/night economy, weekly programme, electrical remote unlocking mechanism, error and operation display, parameterisation option, Ethernet interface, without connection cable

	Ref. no.
ATR-SmartWeb	1011377



### Precision room temperature controller RR 21.2

For controlling up to 50 units, programmable, switchover function summer/winter operation, external start/stop, infinitely variable control of EC fans via 0-10 V and much more, without connection cable

	Ret. no.
RR 21.2 (IP20)	1611401
RR 21.2 (IP54)	1684402



**Electronic room thermostat TR-2** Type of protection IP65, including suspension device, operating hour counter, 5 m connection cable with plug, high temperature probe

	Ref. no.
TR-2	1011291



Differential temperature controller ATR-3
Type of protection IP54, including temperature probe, automatic day/night economy, weekly programme, differential control of ceiling fans, 0-10 V output, without connection cable.

	Ref. no.
ATR-3	1011290



Speed controller Infinitely variable, for all units with RT DR-1: max. 4 units DR-3: max. 8 units

	Ref. no.
DR-1	1011294
DR-3	1011296



Electronic temperature controller ATR-4 Protection class IP 20, including temperature sensor, automatic day/night economy, weekly programme, without connection cable

	Ref. no.
ATR-4	1011340



Electronic temperature controller ATR-5
Type of protection IP54, including temperature probe, automatic day/night economy, weekly programme, without connection cable

	Ref. no.
ATR-5	1011342



**Electronic temperature controller ATR-7**Type of protection IP 54, including temperature probe, automatic heating/cooling switchover function, without connection cable

	Ref. no.
ATR-7	1011292



### Bar thermostat

Duct attachment, including connection cable with plug

	Ref. no.
Bar thermostat	1011270



### Temperature probe set

For 4-point blended temperature, without connection cable

	Ref. no.
Temperature probe set	1011343





## Oil and gas burners







Oil blue flame burner



Natural gas/propane gas burner

## Oil yellow flame burner

Unit type	SLV 100	SLV 110	SL 44/2	SL 55/2	SL 66/2	SL 420/2
Performance range kW	16-55	55-85	93-169	128-232	209-350	395-763
Fuel		Heatin	g oil EL, diesel fuel, bi	iodiesel B7/ B10, HV0	O biofuel	
Units	VRS 25	VRS 50-75	VRS 100-130	VRS 170	VRS 200-340	VRS 440-540
Ref. no.	949025	949030	949005	948510	949010	950015

### Oil blue flame burner

Unit type	RE 1.32	RE 1.50	RE 1.70	RZ 2.8	RZ 2.9	RZ 2.10	RZ 2.11
Performance range kW	26-32	44-50	60-70	95-115	115-130	130-165	175-185
Fuel		Heating o	il EL, diesel fuel, bi	iodiesel B7/ B10, F	HVO biofuel		
Units	VRS 30 C	VRS 50 C	VRS 70 C	VRS 100 C	VRS 120 C	VRS 150 C	VRS 170 C
Ref. no.	949103	949105	949107	949110	949112	949115	949117

### Natural gas burner

	_							
Unit type	SGN 100 H	SGN 110 H	SGN 120 H	SGN 44/2 1"	SGN 55/2	SGN 66/2	SGN 410/2	SGN 420/2
Performance range kV	V 15-45	45-70	65-100	93-163	128-232	209-350	320-550	460-710
Fuel				Natu	ral gas			
Units	VRS 25	VRS 50	VRS 75	VRS 100-130	VRS 170	VRS 200-340	VRS 440	VRS 540
	VRS 30 C	VRS 50 C	VRS 70 C	VRS 100-120 C	VRS 150-170 C			
Ref. no.	955050	955045	955035	955015	954650	954660	954685	954695

### Propane gas burner

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Unit type	SGNF 100 H	SGNF 110 H	SGNF 120 H	SGNF 44/2 1"	SGNF 55/2	SGNF 66/2
Performance range kW	15-45	45-70	65-100	93-163	128-232	209-350
Fuel	LPG / propane					
Units	VRS 25	VRS 50	VRS 75	VRS 100-130	VRS 170	VRS 200-340
	VRS 30 C	VRS 50 C	VRS 70 C	VRS 100-120 C	VRS 150-170 C	
Ref. no.	955055	955030	955040	955020	954750	954760



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