

The expert for total solutions.



CaloWIN – the flexible accumulator tank line.

CaloWIN Premium with integrated fresh hot water preparation and one or two solar-powered indirect coil heaters.

CWP 800/1000

CaloWIN Klassik

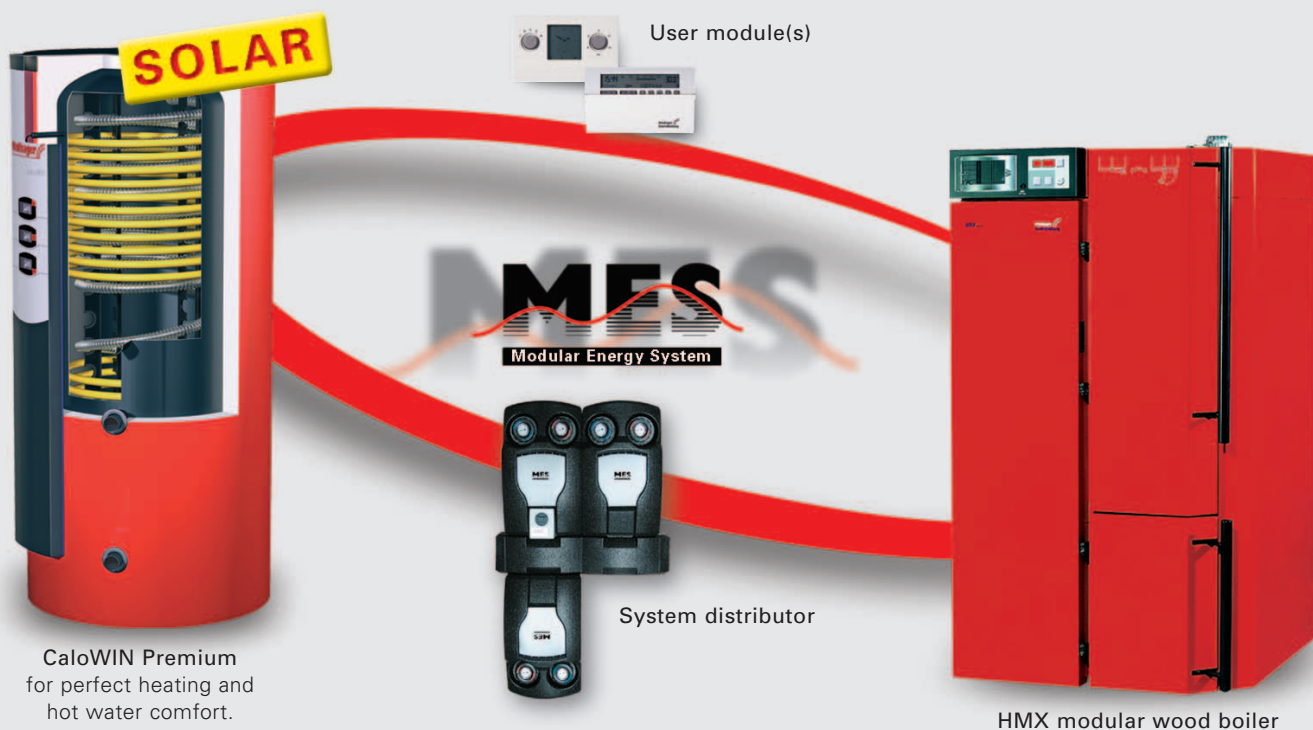
CWK 700/1000/1500



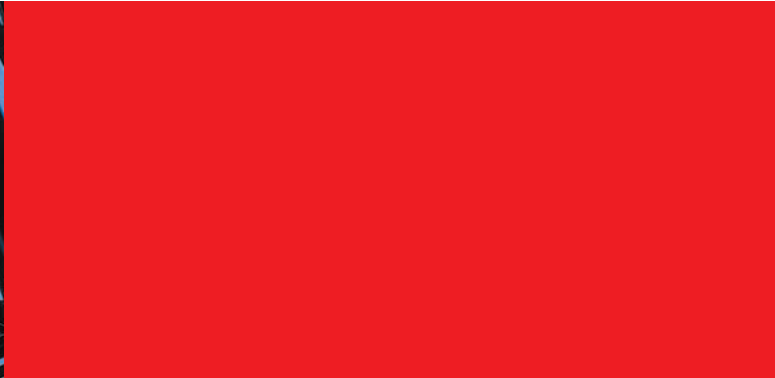
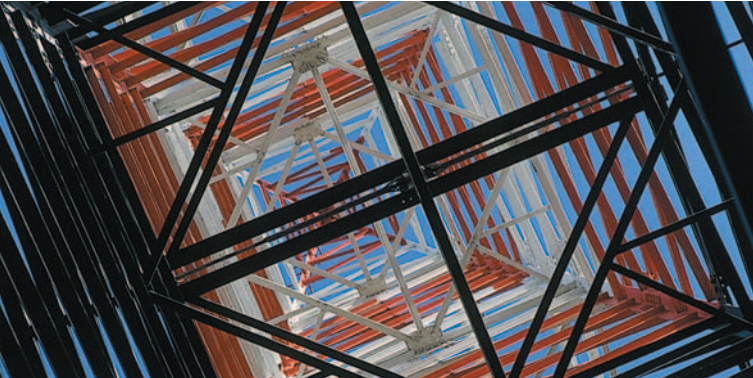
Greater comfort, lower heating costs.

Gets optimum performance from your heating system.

The trend towards lower heating requirements and increasing awareness of the needs for environmental protection and lower energy consumption are demanding the most efficient possible use of energy. CaloWIN heat accumulators therefore represent the ideal supplement to solid fuel boilers and are perfectly suited to use in low or passive energy houses. In conjunction with the MES control system, they make the best possible use of heat and deliver the highest levels of heating comfort. You can get through the day with fewer heating intervals, and can operate your boiler in the optimum operating condition for longer. This increases the efficiency of the system and reduces fuel consumption. In addition, longer burner operating times mean significantly lower emissions and less boiler contamination. The CaloWIN accumulator range proves that WINDHAGER ZENTRALHEIZUNG possesses the highest levels of expertise in total solutions.



CaloWIN heat accumulators are perfectly suited for combining with various heat generators such as solid fuel boilers, solar energy systems or heat pumps.



CaloWIN – One concept for many requirements.

With the CaloWIN accumulator tank line, WINDHAGER ZENTRALHEIZUNG is offering heating and hot water solutions for all requirements. Whether in the Klassik version as a straightforward heat accumulator or as the Premium with integrated fresh hot water preparation – CaloWIN is the embodiment of perfect energy management. The version and accumulator volume can be selected and combined individually depending on requirements.

CaloWIN Premium
800/1000

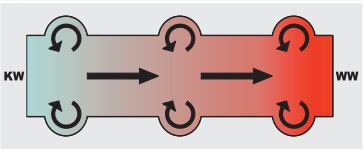


CaloWIN Klassik
700/1000/1500



CaloWIN Premium
with integrated fresh hot water preparation and one or two solar-powered indirect coil heaters.

CaloWIN Klassik
Easy-to-use heat accumulator with a large flange; permits the use of solar energy.



- Advantages of fresh hot water supply:**
- Small volume of water (approx. 37 l) and frequent changes of water protect against Legionella infection.
 - The corrugated profile creates a powerful swirl effect as the water flows through, thereby increasing the hot water output (comparable with a 200 l indirect coil heating tank) and preventing limescale build-up.
 - Space-saving and reasonably priced, because the client does not need to provide a separate water tank.

Warmth when you need it.

Convincing arguments.

CaloWIN heat accumulators meet the strictest quality criteria and, in addition, offer the highest levels of security thanks to the full five-year guarantee and fifteen-year guaranteed supply of spare parts.

Overview of the advantages of CaloWIN:

- Fuel saving by optimising the efficiency of solid fuel and solar energy systems.
- Simple to install thanks to compact dimensions: CWK 700/1000 and CWP 800/1000 fit through any 800 mm door.
- Extremely flexible application options – different accumulator tanks can be combined with one another using the connection set (accessory).
- CaloWIN Premium:
 - Space-saving 3 in 1 solution: Accumulator tank, use of solar energy and hot water preparation.
 - Hygienic fresh hot water preparation without limescale or bacteria (Legionella) build-up thanks to stainless steel corrugated tube indirect coil heater.

- 1 High-quality soft foam insulation with 100 mm wall thickness for the best possible heat storage.
- 2 Display panel with 3 remote temperature gauges (accessory).
- 3 Large area solar-powered indirect coil heater at top: Integrated in CWP 1000.
- 4 Stainless steel corrugated tube indirect coil heater for fresh hot water preparation using the flash heating principle (Legionella protection).
- 5 Tank made from high-quality steel for a long service life.
- 6 Large area solar-powered indirect coil heater at bottom: Standard feature on CWP 800/1000.
- 7 Four 2" connection ports for accumulator tank combination.

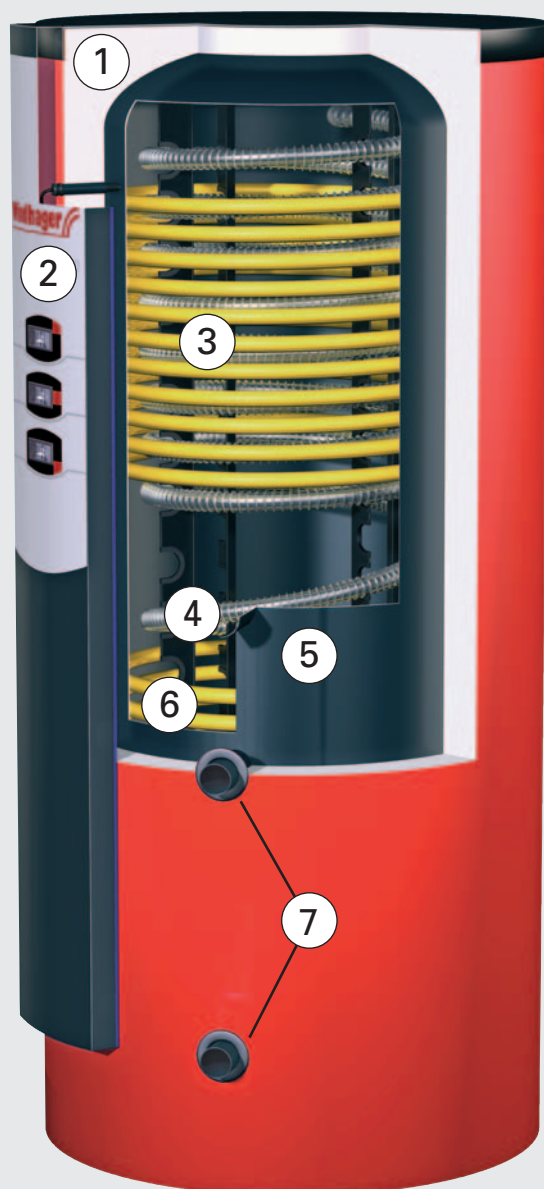
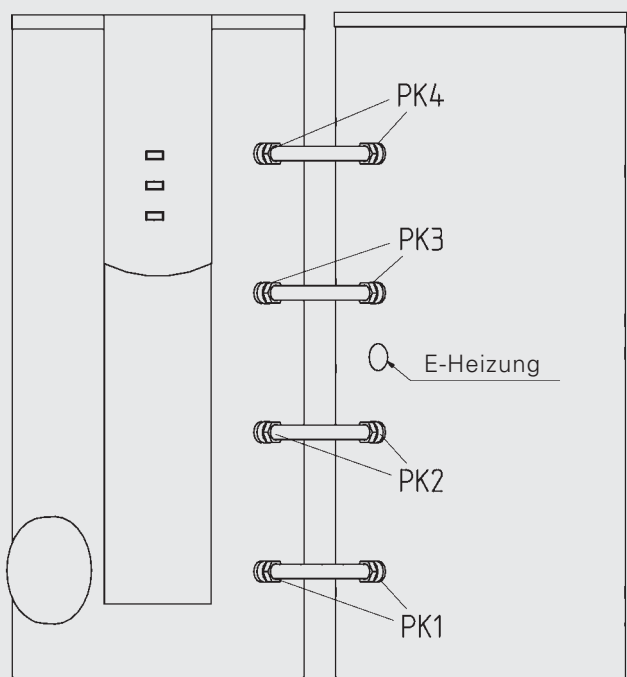


Illustration: CaloWIN Premium



Easily combinable for the perfect accumulator solution.

CaloWIN accumulator tanks are not only available in different sizes, they can also be combined flexibly with one another using the connection set (accessory): It is easy to combine two identically sized accumulator tanks (e.g. two CWK 1000 units), and just as easy to combine different sizes (e.g. CWK 1500 and CWK 1000) or even different types (e.g. CWP 800 and CWK 700) to produce the perfect accumulator solution.



Front view: Combination of 2 CaloWIN accumulator tanks

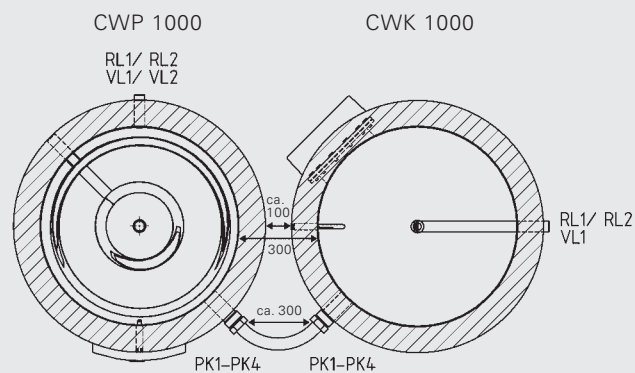
The connection set CW-020 (accessory) makes the following accumulator combinations possible:

1. CaloWIN Premium with CaloWIN Klassik:

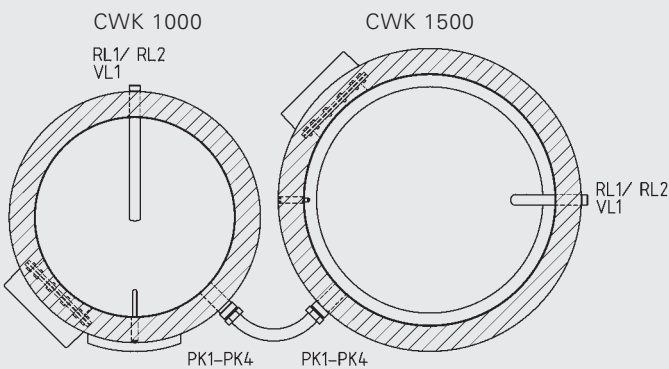
		CWK		
		700	1000	1500
CWP	800	✓		
	1000		✓	✓

2. Two CaloWIN Klassik units:

		CWK		
		700	1000	1500
CWK	700	✓		
	1000		✓	✓
	1500		✓	✓



Section from above: Variant 1 – CWP combined with CWK



Section from above: Variant 2 – Two CWK units combined

Other variants are also possible in parallel operation. In this case, the accumulator tanks must be connected by the client (no connection set is possible)!

Legende:
VL1/VL2 Feed
RL1/RL2 Return
PK1 – PK4 . . . Connection ports for
accumulator tank combination

Perfectly matched to one another.

Accessories from a single supplier.

With your accessories too you can depend on quality from WINDHAGER ZENTRALHEIZUNG. Intercompatibility is assured..

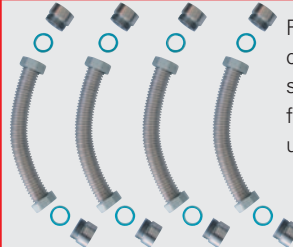
Display panel CW-010



The display panel with 3 remote temperature gauges allows the accumulator temperature to be read off:

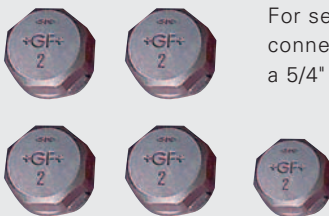
- Top
- Medium
- Bottom

Connection set CW-020



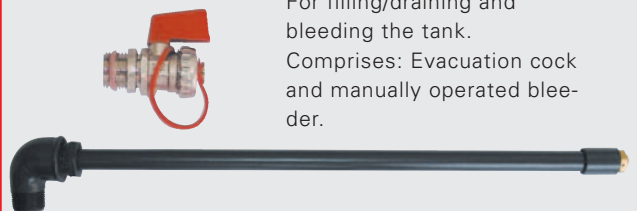
Flexible stainless steel corrugated tube connection system for rapid and straight-forward connection of 2 CWK units or a CWP and a CWK.

Seal set CW-030



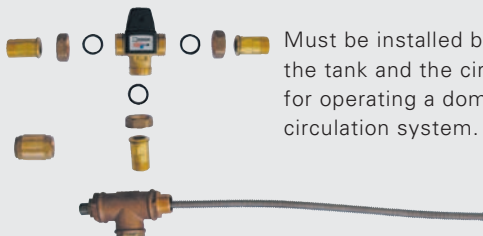
For sealing the four 2" connection ports and a 5/4" return.

Additional set CW-040



For filling/draining and bleeding the tank.
Comprises: Evacuation cock and manually operated bleeder.

Circulation connection accessory CW-050 (for CWP only)



Must be installed between the tank and the circulation for operating a domestic water circulation system.

Solar heat exchanger WAX 050 (for CWK only)



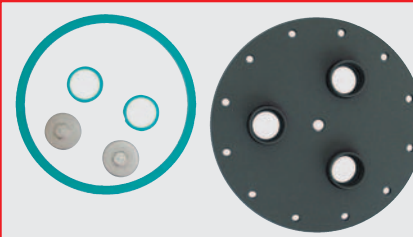
Ribbed-tube heat exchanger with 5 m² area to be installed with standard flange.

Electrical heating element NB-071/072/073/077

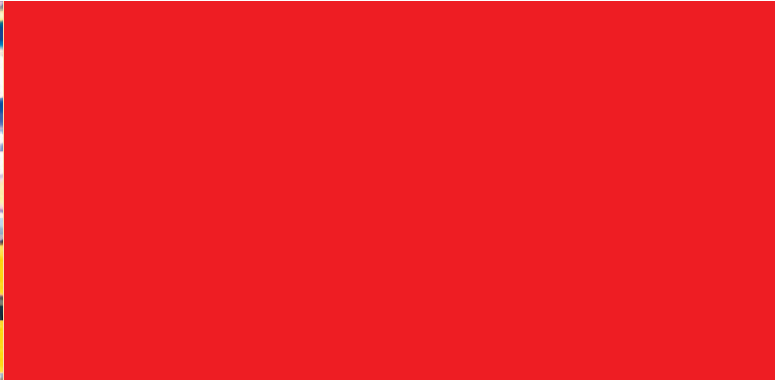
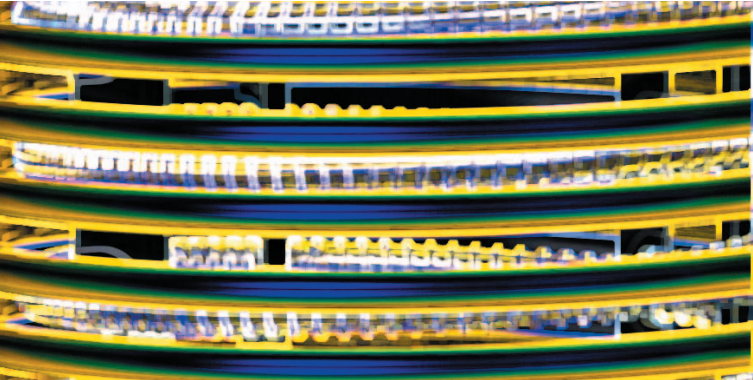


With thermostat. Available with power ratings 2.2 kW (230 V) and 3/4/6 kW (400 V).

Special flange cap PSX 010 (for CWK only)



With three 6/4" sleeves.
For installing 3 electrical heating elements for accumulator loading (incl. seals).



Technical data

Type		CWP 800	CWP 1000	CWK 700	CWK 1000	CWK 1500
Total volume approx.	l	800	960	720	1000	1500
N _L number (performance index)		3,2	4,0			
Max. permitted operating pressure of heating	bar	3	3	3	3	3
Nominal content of fresh water indirect coil heater	l	37	37			
Max. permitted operating pressure of fresh water indirect coil heater	bar	10	10			
Nominal content of solar-powered indirect coil heater at bottom/top	l	15 / –	18 / 10			
Max. permitted operating pressure of solar-powered indirect coil heater at bottom/top	bar	10 / –	10 / 10			
Surface area of solar-powered indirect coil heater bottom/top	m ²	2,4 / –	3 / 2,4			
Weight with/without insulation	kg	265 / 255	285 / 275	140 / 130	180 / 170	300 / 290
Water-side resistance	mbar	3	3	3	3	3

LPPerformance data of hot water: at storage temperature 65°C / HV 70°C / WW 45°C / KW 10°C

Output power* at draw-off rate of 10 l/min / 20 l/min

with accumulator fully charged l 560 / 510 595 / 535

with accumulator partially charged l 360 / 275 375 / 285

Sustained output:

with accumulator fully charged l/h (kW)1500 (65) 1950 (80)

with accumulator partially charged l/h (kW)930 (40) 1200 (50)

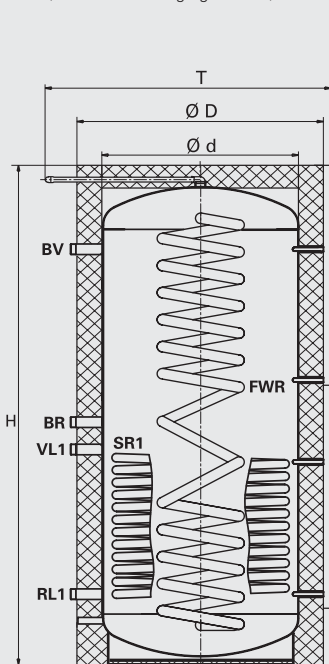
Dimensions:

Supply and return connections	AG**	5/4"	5/4"	5/4"	5/4"	5/4"
Connection ports	AG**	2"	2"	2"	2"	2"
Ventilation	IG***	1"	1"	1"	1"	1"
Discharge	IG***	1/2"	1/2"	1/2"	1/2"	1/2"
Overall height of tank without insulation	mm	1985	2155	1795	2130	2182
Minimum room height	mm	2055	2220	1870	2220	2200
Height with insulation H	mm	2025	2195	1840	2190	2150
Diameter with/without insulation D / d	mm	990 / 790	990 / 790	950 / 750	1000 / 795	1200 / 1000
Installation depth T	mm	1150	1150	1130	1150	1255

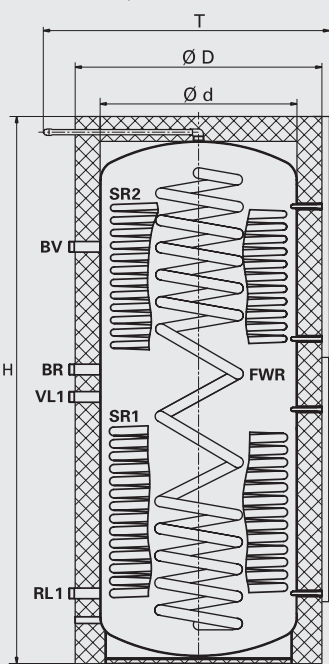
*) Without recharging

**) AG = External thread

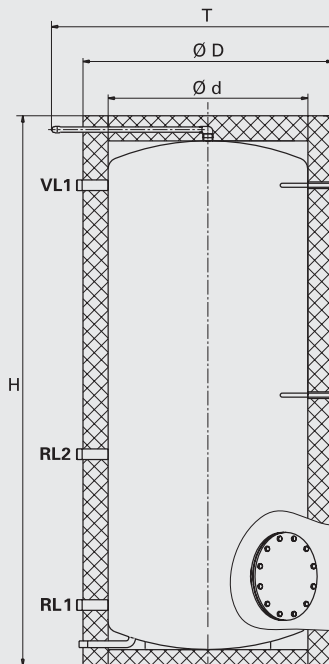
***) IG = Internal thread



CaloWIN Premium 800



CaloWIN Premium 1000



CaloWIN Klassik 700/1000/1500

Legend:	
VL1	Heating feed
RL1, RL2	Heating return
BV	Hot water tank feed
BR	Hot water tank return
SR1, SR2	Solar-powered indirect coil heater bottom, top
FWR	Stainless steel fresh water indirect coil heater

Flange
NW 250 mm

www.windhager.com

Windhager provides more than first-class products:

Quality consulting from our expert partners.

You can obtain WINDHAGER ZENTRALHEIZUNG products from our expert PARTNERS. Our partners are experienced heating specialists who work in close professional cooperation with WINDHAGER ZENTRALHEIZUNG to achieve the best results for our customers.

Professional customer service network.

Perfect customer service is one of the mainstays of WINDHAGER's success. Our professional customer service network guarantees the best customer care every day. Our customer service technicians are experienced professionals who work quickly and reliably, without bureaucratic fuss.



Unique guarantees.

Our full five-year guarantee provides you with optimal security. This is because our unique full guarantee does not just cover material (excluding worn parts), it also includes the travel and labour costs of the customer service technicians. Not only that, but we also guarantee that we will continue to supply your device with spare parts for 15 years from the date of purchase.



Your expert partner:

Austria:

Windhager Zentralheizung GmbH
A-5201 Seekirchen near Salzburg
Anton-Windhager-Straße 20
Tel. +43 (0) 62 12/23 41-0
Fax +43 (0) 62 12/42 28

Windhager Zentralheizung GmbH
A-1230 Vienna
Carlberggasse 39
Tel. +43 (0) 1/869 43 28
Fax +43 (0) 1/865 13 81

e-mail info@at.windhager.com

Germany:

Windhager Zentralheizung GmbH
D-86405 Meitingen near Augsburg
Deutzring 2
Tel. +49 (0) 82 71/80 56-0
Fax +49 (0) 82 71/80 56-30

Windhager Zentralheizung GmbH
D-04509 Delitzsch near Leipzig
Heinrich-Rudolf-Hertz-Straße 2
Tel. +49 (0) 3 42 02/723-0
Fax +49 (0) 3 42 02/723-30

e-mail info@de.windhager.com

Switzerland:

Windhager Zentralheizung Schweiz AG
CH-6203 Sempach-Station near Luzern
Industriestrasse 13
Tel. +41 (0) 41/469 469-0
Fax +41 (0) 41/469 469-9

e-mail info@ch.windhager.com