

Колбонагреватели CARL ROTH Pilz

Технические характеристики

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Heating mantles



Heating mantle Pilz® WHG classic series

Winkler.

For operating temperature up to 450 °C.

- Heaters made of highly flexible yarn made of glass for uniform heat transfer and gentle treatment of round flasks
- With heating zone switch
- **Up to 1000 ml with the heating zone switch incorporated in the supply line, more than 2000 ml heating zones in the housing**
- Heating mantles 500 up to 20000 ml: opening the base Ø 60 mm
- Fastening at the support ring or rotary feet using clamping hooks
- Length of the mains cable: 1.5 m
- Power supply voltage: 230 V, 50/60 Hz

Delivery incl. protective plug with FI function and Schuko socket cable (cable length 1.00 m).

(1) Model WHG2

For operating temperature up to 450 °C

For flask volume (ml)	Heating zones	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.	
25	1	40	41	KH06.1	1 unit(s)	
50	1	70	51	KH07.1	1 unit(s)	
100	2	110	64	KH08.1	1 unit(s)	
250	2	200	85	KH09.1	1 unit(s)	
500	2	300	105	KH10.1	1 unit(s)	
1000	2	450	131	KH11.1	1 unit(s)	
2000	2	700	166	KH12.1	1 unit(s)	
3000	2	800	185	KH13.1	1 unit(s)	
4000	2	1000	207	KH14.1	1 unit(s)	
5000	2	1200	223	KH15.1	1 unit(s)	
6000	2	1400	236	KH16.1	1 unit(s)	
10000	2	2000	279	KH17.1	1 unit(s)	
20000	2	2800	345	KH18.1	1 unit(s)	



Accessories tripod for standard heating mantles

Winkler.

Made of stainless steel. For installing standard heating mantles types WHG2, WHG4R and WHG2H.

Suitable for	Ø Internal (mm)	Art. No.	Pack Qty.	
KH08.1	110	KH29.1	1 unit(s)	
KH09.1	140	KH30.1	1 unit(s)	
KH10.1	160	KH31.1	1 unit(s)	
KH11.1	188	KH32.1	1 unit(s)	
KH12.1	222	KH33.1	1 unit(s)	
KH13.1	238	KH34.1	1 unit(s)	
KH15.1	277	KH36.1	1 unit(s)	
KH14.1, KH25.1	261	KH35.1	1 unit(s)	
KH16.1, KH26.1	291	KH37.1	1 unit(s)	
KH17.1, KH27.1	334	KH38.1	1 unit(s)	
KH18.1, KH28.1	430	KH39.1	1 unit(s)	



Support rings support rings for standard heating mantles

Winkler.

Made of stainless steel. To fasten the standard heating mantles, types WHG2, WHG4R and WHG2H in stand attachments.

Suitable for	Ø Internal (mm)	Art. No.	Pack Qty.	
KH06.1	90	KH40.1	1 unit(s)	
KH07.1	90	KH41.1	1 unit(s)	
KH08.1	110	KH42.1	1 unit(s)	
KH09.1	140	KH43.1	1 unit(s)	
KH10.1	160	KH44.1	1 unit(s)	
KH11.1	188	KH45.1	1 unit(s)	
KH12.1	222	KH46.1	1 unit(s)	
KH13.1	238	KH47.1	1 unit(s)	
KH14.1, KH25.1	261	KH48.1	1 unit(s)	

Heating mantles



Accessories shockproof plug with multi-pole coupling

Winkler.

For Heating mantles of the WHG and WHLG series.

Without FI function. Use when the operator network is incorporates a residual current circuit breaker system. Cable length 1.0 m.

Voltage 230 V.

Type	Art. No.	Pack Qty.	
Shockproof plug with multi-pole coupling	PP37.1	1 unit(s)	



Heating mantle Pilz® WHLG-Classical-series

Winkler.

For operating temperature up to 450 °C.

- Heaters made of highly flexible yarn made of glass for uniform heat transfer and gentle treatment of round flasks
- Plastic coated metal housing
- With integrated fitting for connecting a stand clamp. Please order stand clamp separately
- Length of the mains cable: 1.5 m
- Power supply voltage: 230 V, 50/60 Hz

Delivery incl. protective plug with FI function and Schuko socket cable (cable length 1.00 m).

(1) Model WHLG2 - Heat zone switch

With integrated heat zone switch

For flask volume (ml)	Heating zones	Performance (W)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	
50	1	50	160	180	KE87.1	1 unit(s)	
100	1	100	160	180	KE88.1	1 unit(s)	
250	2	150	160	180	KE89.1	1 unit(s)	
500	2	200	210	190	KE90.1	1 unit(s)	
1000	2	300	210	190	KE91.1	1 unit(s)	
2000	2	500	280	220	KE92.1	1 unit(s)	
3000	2	600	280	220	KE93.1	1 unit(s)	

(2) Model WHLG2/ER - Power controller 0 to 100 %

With power controller for continuously variable adjustment from 0 to 100 %

For flask volume (ml)	Heating zones	Performance (W)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	
50	1	50	160	180	KE94.1	1 unit(s)	
100	1	100	160	180	KE95.1	1 unit(s)	
250	2	150	160	180	KE96.1	1 unit(s)	
500	2	200	210	190	KE97.1	1 unit(s)	
1000	2	300	210	190	KE98.1	1 unit(s)	
2000	2	500	280	220	KE99.1	1 unit(s)	
3000	2	600	280	220	KH00.1	1 unit(s)	

(3) Model WHLSG2/ER2 - Heating tray made of metal and power controller

With overflow-protected heating tray made of metal and power controller for continuously variable adjustment from 0 to 100 %

For flask volume (ml)	Heating zones	Performance (W)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	
250	2	120	160	180	KH01.1	1 unit(s)	
500	2	200	210	190	KH02.1	1 unit(s)	
1000	2	300	210	190	KH03.1	1 unit(s)	
2000	2	500	280	220	KH04.1	1 unit(s)	



Heating mantles



Heating mantle Pilz® LP2 Protect series

Winkler.

For operating temperatures of up to 450 °C.

- **Heating element protection class I** - protects users against contact voltages in case of wetting with liquid
- **Heating element impervious to fluids** as it is separate from the bottom
- On/off safety switch with protection against accidental activation
- Heating element made of glass silk for rapid heating and a good fit
- Metal housing with plastic coating
- With integrated fitting for connecting a stand clamp. Please order the stand clamp separately.
- Power supply voltage: 230 V, 50/60 Hz

Delivery incl. personal protection plug with FI function and Schuko socket cable (cable length 1.00 m).

(1) LP2 model - heat zone switch

With integrated heat zone switch.

For flask volume (ml)	Heating zones	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.	
50	1	60	51	1H9L.1	1 unit(s)	
100	1	90	64	1H9N.1	1 unit(s)	
250	2	150	85	1H9P.1	1 unit(s)	
500	2	200	105	1H9T.1	1 unit(s)	
1000	2	300	131	1H9X.1	1 unit(s)	
2000	2	500	166	1H9Y.1	1 unit(s)	
3000	2	600	185	1HA0.1	1 unit(s)	

(2) LP2ER model - power controller for adjustment from 0 to 100 %

With power controller for continuously variable adjustment from 0 to 100 %.

For flask volume (ml)	Heating zones	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.	
50	1	60	51	1HA1.1	1 unit(s)	
100	1	90	64	1HA2.1	1 unit(s)	
250	2	150	85	1HA3.1	1 unit(s)	
500	2	200	105	1HA4.1	1 unit(s)	
1000	2	300	131	1HA5.1	1 unit(s)	
2000	2	500	166	1HA6.1	1 unit(s)	
3000	2	600	185	1HA7.1	1 unit(s)	

Accessories stand clamp for housing heating mantles Pilz®

Winkler.

To fasten the housing heating mantles, type WHLG2, WHLG2/ER, WHLSG2/ER, LP2, LP2ER and WHLMG3ER in stand attachments. For stands up to Ø 13 mm.

Designation	Art. No.	Pack Qty.	
Stand clamp	KH05.1	1 unit(s)	

Multi-heating mantle Pilz® WHLMG3ER Classic series

Winkler.

For operating temperatures of up to 450 °C.

- Can be used for different flask sizes
- Powder-coated metal housing
- Glass fibre heating elements
- With heating zone switch
- Integrated mechanical power controller, continuously adjustable (0 to 100 %)
- Power supply voltage: 230 V, 50/60 Hz

Delivery incl. protective plug with FI function and Schuko socket cable (cable length 1.00 m).

For flask volume (ml)	Heating zones	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.	
50–250	3	150	51–85	1LA2.1	1 unit(s)	
250–1000	3	360	85–131	1LA3.1	1 unit(s)	
1000–3000	3	600	131–185	1LA4.1	1 unit(s)	

Heating mantles

Heating mantle ITA series

ITA Instruments.

- Max. heating temperature range up to 450 °C
- Heating element protected against escape of fluid
- Infinitely variable temperature control via dial with 10-step scale
- "Chimney effect" for cooling housing outside walls
- LED power indicator during operation
- Housing surface made of ABS
- Version with electro-magnetic stirring function available
- Dimensions: W 192 x D 290 x H 131 mm
- Power supply voltage: 230 V, 50 Hz



(1) Standard version

For flask volume (ml)	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.
100	150	64	HCK2.1	1 unit(s)
250	200	85	HCK3.1	1 unit(s)
500	300	105	HCK4.1	1 unit(s)
1000	400	131	HCK5.1	1 unit(s)

(2) Version with magnetic stirrer

Speed range 200 to 800 rpm

For flask volume (ml)	Performance (W)	Ø Outer flask (mm)	Art. No.	Pack Qty.
100	150	64	HCK6.1	1 unit(s)
250	200	85	HCK7.1	1 unit(s)
500	300	105	HCK8.1	1 unit(s)
1000	400	131	HCK9.1	1 unit(s)

Heating mantle Pilz® WHU2ER-Classic-series

Winkler.

For operating temperature up to 450 °C.

- Heating element made of highly flexible glass fibre yarn for even heat distribution and gentle treatment of round flasks
- **With power controller for continuously variable adjustment from 0 to 100 %**
- Plastic coated metal housing
- With integrated fitting for connecting a stand clamp. Please order stand clamp separately
- Power supply voltage: 230 V, 50/60 Hz



Delivery incl. protective plug with FI function and Schuko socket cable (cable length 1.00 m).

For flask volume (ml)	Heating zones	Performance (W)	Ø Internal (mm)	Height (mm)	Art. No.	Pack Qty.
4000	2	700	288	166	NP32.1	1 unit(s)
5000	2	860	318	166	NP33.1	1 unit(s)
6000	2	1000	318	166	NP34.1	1 unit(s)
10000	2	1400	368	194	NP35.1	1 unit(s)
20000	2	2400	438	234	NP36.1	1 unit(s)

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