



CATALOGUE

RESISTANCE HEATING
INDUCTION HEATING
HOT AIR HEATING
ACCESSORIES

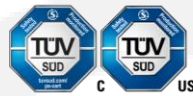
RESISTANCE HEATING

msquare presents a new and innovative way of resistive heating using smart control devices and multifunctional heating blankets. All products are easy to use and ready for new challenges.

PRODUCT INFORMATION:

Smart controller

RedZero



Power: Max. 2000W
 Power supply: 120-240VAC / max. 10A / 50-60 Hz
 Dimensions: 165 x 125 x 50 mm³
 Weight: 540 g

HMI: 2-line, illuminated display, msquare app
 Temperature control: Based on the measured values of the temperature sensor integrated in the blanket
 Emergency shutdown: Exceeding the defined max. temperature
 Dialog language: English, German, others on request
 Options: carabiner hook for rope access works; easyHeat software with multi-stage heat ramp; UL certified

Item code:	Description
RedZero-05-XY-O	US and Canada: RedZero
RedZero-05-XY-C	US and Canada: RedZero with carabiner hook
RedZero-06-XY-O	RedZero
RedZero-06-XY-C	RedZero with carabiner hook

XY - **EN** english ; **DE** german
EH software easyHeat (language and unit adjustable)

RedZeroX



Power: Max. 2000W
 Power supply: 120-240VAC / max. 10A / 50-60 Hz
 Dimensions: 230 x 110 x 90 mm³
 Weight: 1.500 g

HMI: 2-line, illuminated display, easyHeat software
 Temperature control: Temperature sensor integrated in the blanket
 4x additional temperature sensors (type J)
 Vacuum: Vacuum port for logging
 Emergency shutdown: Exceeding the defined max. temperature
 advanced settings can be adjusted
 Dialog language: English, German, others on request
 Software: easyHeat software with multi-stage heat ramp

Item code:	Description
RED-010-211	RedZero Extended

RESISTANCE HEATING

Smart controller

Red200



- Ports: 3 multifunctional ports for heating blankets and RedAirs
- Type of heater: Heating blanket, RedAir fan
- Power: Max. 3 kW per zone with 3 zones
- Power supply: 3 phase power supply
400 V, 3 x 16 A
- Dimensions: 520 x 435 x 230 mm³
- Weight: 9,2 kg
- Protection class: IP67 (closed) during transport
- HMI: 10.1-inch touch-screen
- Software: easyHeat software with multi-stage heat ramp and recipe memory
- Temperature measurement: Up to 16 temperature sensors (type J or K), additional temperature inputs possible
- Temperature control: Freely selectable (according to specific sensor, average of all sensors, min / max temperature)
- Vacuum: Input for vacuum measurement (optional 3x regulated vacuum outputs)
- Emergency shutdown: Various safety devices (software and hardware side)
- Data interface: USB, WiFi
- Dialog language: English, German, others on request

Item code:	Description
RED-200-221	Red200 with 16 temperature sensors type J and input for vacuum measurement

Customizable	Description
RED-200-XYZ	Red200 additional temperature sensors and input for vacuum measurement

- Z - vacuum: **1** input for direct vacuum measurement (no output)
2 input for vacuum (3x regulated output)
3 input for compressed air (venturi pump for 3x regulated output)
- Y - number of additional temperature sensors: **1** 8 piece
2 16 piece
3 24 piece
- X - temperature sensor: **1** TC type K
2 TC type J
3 PT 100

RESISTANCE HEATING

Heating blankets



- Power supply: 120 - 240 VAC / max. 16A (others on request)
- Dimensions: Standard and customized
- Temperature: Up to 180°C (depending on size)
- Thickness: 3mm thin and lightweight
- Control: Integrated PT100 temperature sensor
- Safety: Optional thermal fuse or temperature relay
- Vacuum: Pressure resistant, placed inside vacuum bag
- Options: Integrated vacuum channels; Integrated channels for infusion; Extra layer insulation; Extra layer cutting protection; Mounting options; textile frame

Standard sizes:

Item code:	Description
BRS-0406-12	silicone blanket 40 x 60 cm ²
BRS-0505 -12	silicone blanket 50 x 50 cm ²
BRS-0606 -12	silicone blanket 60 x 60 cm ²
BRS-0609 -12	silicone blanket 60 x 90 cm ²
BRS-0610 -12	silicone blanket 60 x 100 cm ²
BRS-0808 -12	silicone blanket 80 x 80 cm ²
BRS-1010 -12	silicone blanket 100 x 100 cm ²
BRS-1208 -12	silicone blanket 120 x 80 cm ²
BRS-1408 -12	silicone blanket 140 x 80 cm ²
BRS-2006 -12	silicone blanket 200 x 60 cm ²
BRS-2405-12	silicone blanket 240 x 50 cm ²

*other dimensions, safety elements or options on request

Item code:

BRS - 0 3 1 0 - 12 - XX

- Extra (can be combined): **O** eyelets (4 piece); **K** edge protection for easier installation; **P** extra high thermal conductivity; **X** cutting protection; **Z** special solution
- Connection: **1** high power blanket; **2** standard; **3** without plug
- Power supply: **1** 230V; **2** 120 V
- Dimension X (03 = 30 cm; 10 = 100 cm)
- Dimension Y (side of cable)
- Option: **S** standard silicone; **V** vacuum channels; **H** vacuum + infiltration

INDUCTION HEATING

msquare enables a fundamental new way of heating with the patented FlexInHeat® technology. Use the homogeneous and precise heating for your repair or boost your production with direct energy transfer.

PRODUCT INFORMATION:

Smart controller

Red300



- Power: Max. 3000 W
- Power supply: 230VAC / max. 16A
- Dimensions: 520 x 435 x 230 mm³
- Weight: 14 kg
- Protection class: IP67 (closed) during transport
- HMI: 10.1-inch touch-screen, easyHeat software
- Temperature measurement: Up to 16 temperature sensors (type E) additional temperature inputs possible
- Temperature control: Freely selectable (according to specific sensor, average of all sensors, min / max temperature)
- Emergency shutdown: Various safety devices (software and hardware side)
- Data interface: USB, WiFi
- Dialog language: English, German, others on request

Item code:	Description
RED-300-3X0	Red300 with additional temperature sensors

- X - number of additional temperature sensors: **1** 8 piece
- 2** 16 piece
- 3** 24 piece

Induction blankets



- Power supply: Power and frequency based on customer needs (default for steel sheet/ mesh)
- Dimensions: Standard and customized
- Temperature: Blanket itself up to 180°C (up to 400°C with insulation between blanket and material to be heated)
- Thickness: 5mm thin and lightweight
- Control: Red300 thermosensors
- Safety: Integrated PT100 temperature sensor to avoid overheating of the blanket
- Vacuum: Pressure resistant, placed inside vacuum bag
- Options: Integrated vacuum channels;

Standard sizes*:

Item code:	Description
BIS-0303	silicone blanket 30 x 30 cm ²
BIS-0410	silicone blanket 40 x 100 cm ²

*other dimensions, safety elements or options on request

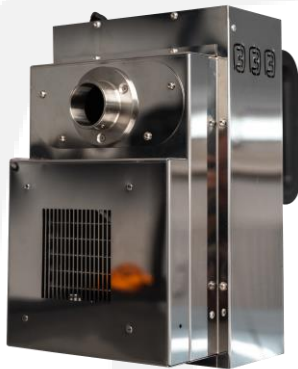
HOT AIR HEATING

Temperature controlled heating fan to provide an ideal heat circulation. Hot spots, heat shadows or exothermic problems are prevented by the turbulent warm air. Due to a enclosure the heated surface is protected against changing ambient conditions, e.g. cold draft.

PRODUCT INFORMATION:

Heating fan

RedAir



- Power: Max. 3000 W
- Power supply: 230VAC / max. 16A
- Dimensions: 400 x 350 x 200 mm³
- Weight: 10-12 kg
- Temperatur range: Up to 200°C
- HMI: Either through internal WIFI and easyHeat software or integrated control panel
- Temperature measurement: depending on version:
1 temperature sensor with stand alone RedAir, up to 16 temperature sensors if connected to Red200
- Temperature control: Freely selectable (according to specific sensor, average of all sensors, min / max temperature)
- Emergency shutdown: Various safety devices (software and hardware side)
- Data interface: WiFi or connected to Red200
- Dialog language: English, German, others on request

Item code*:	Description
RED-AIR-001	used in combination with Red200
RED-AIR-213	stand alone and easy operation (time and temperature)
RED-AIR-230	stand alone with easyHeat software and 4 termocouples type J

Item code:	Description
RED-AIR-XYZ	RedAir

- Z - Control: **0** easyHeat software
1 external control (Red200)
3 timer function and temperature control
- Y - Number of temperature sensors: **0** no sensor
1 1 piece
3 4 piece
- X - Temperature sensor: **0** no integrated temperature sensor
1 TC type K
2 TC type J
3 PT 100

*other combinations on request

ACCESSORIES



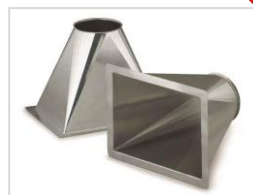
ADM-404-11



ADM-403-11



ADM-401-11



ADM-402-10

Item code:	Description	Used for
ADM-002-13	power cable EU typ E+F (length 3m)	RedZero, RedZero Extended, RedAir
ADM-002-22	power cable US typ G (length 2m)	RedZero, RedZero Extended, RedAir
ADM-002-32	power cable UK typ B (length 2m)	RedZero, RedZero Extended, RedAir
ADM-003-12	power cable 400V EU	Red200
ADM-003-22	power cable 400V UK	Red200
ADM-001-40	adapter cable for heating blankets <2 kW	Red200
ADM-011-11	temperature sensor – type K – standard plug (length 2m)	All products
ADM-012-11	temperature sensor – type J – standard plug (length 2m)	All products
ADM-013-11	temperature sensor – PT100 3-wire (length 2m)	All products
ADM-011-21	temperature sensor – type K – micro plug (length 2m)	All products
ADM-012-21	temperature sensor – type J – micro plug (length 2m)	All products
ADM-401-31	safety technology – status light 230V	RedAir Red200
ADM-402-10	air inlet funnel	RedAir
ADM-403-11	silicone hose ø50mm up to 250°C (sold by the meter)	RedAir
ADM-404-11	mobile heat box (dimensions: 100cm x 50cm x 50cm)	RedAir
ADM-404-21	additional frame for ADM-404-11	RedAir



We heat.
We solve.
We innovate.
We make the difference.

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