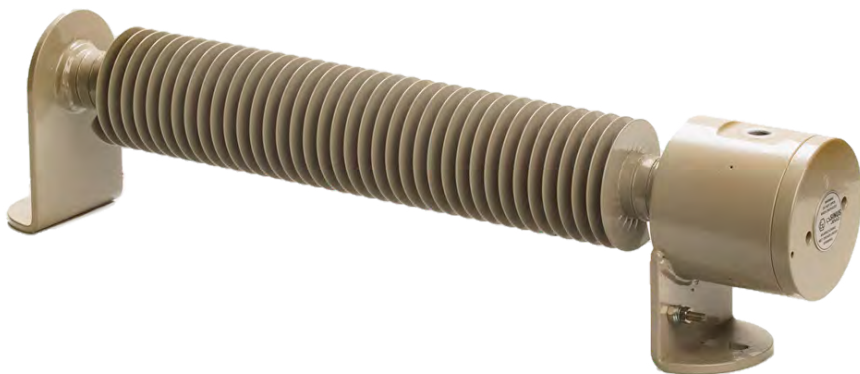
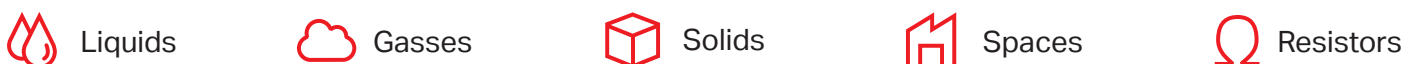

Ex-Proof Finned Tube Air Heaters Type ERB (RVS)

The electric finned tube heater type ERB has been designed to heat up rooms where a potentially explosive atmosphere can arise from handling flammable gases, vapours and liquids. Confined spaces, like hazardous material storage containers and paint rooms, are also part of the application scope of the ERB.



**SINUS
JEVI Ω**



CONSTRUCTION

The Sinus Jevi D8500 gas and dust explosion-proof finned tube heater is built up of a flameproof enclosure together with a tube provided with fins and welded to the enclosure. The heating element consists of stacked closed ceramic parts in which the resistance wire is placed. The appliance has two supports for horizontal floor or wall mounting. The steel version is finished with a grey epoxy coating. The finned tube heater is also available as a low ambient temperature (ERB-LAT) and high ambient temperature version (ERB-HAT). The electrical connection of the appliance has to be made using cable entries of a certified flameproof type.

The electric finned tube air heater type ERB does not have a temperature regulator of its own. The heater has been designed to have stabilized heat-transfer between the heating element and the ambient air while being energized at its rated voltage and with an ambient temperature up to the maximum allowable value of 40°C (ERB / ERB-LAT) or 60°C (ERB HAT). The heat density (W/cm²) is determined in such a way that during normal operation the surface temperatures of the heater remain below the applicable temperature class (T3, 200°C or T4 135°C).

The Sinus Jevi explosion-proof finned tube heaters are ISSEp approved and comply with EN-IEC-60079-1 and EN-IEC-60079-31.

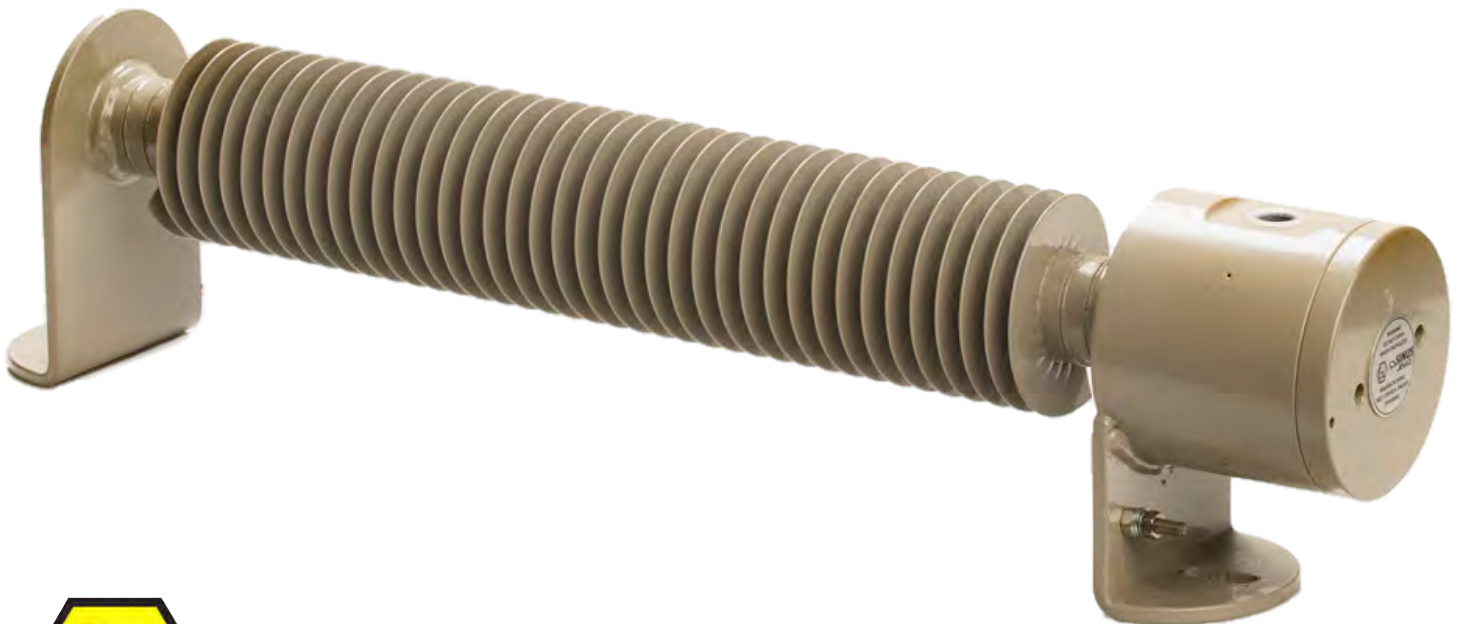
The flame proof construction is approved for gas group IIC and dust group IIIC.

APPLICATION

The Sinus Jevi explosion-proof finned-tube heaters can be used for heating areas where explosive gases or vapours may be present. For example: on oil/gas rigs, in the chemical and petrochemical industries and areas where combustible and/or inflammable products are stored. We recommend that you read the instruction manual before installation. The explosion-proof finned-tube heaters can be regulated by means of an explosion-proof thermostat, e.g. type ERT-10 :-20°C - +40°C.

MODEL T3/T4 D8500 GAS AND DUST EXPLOSION-PROOF

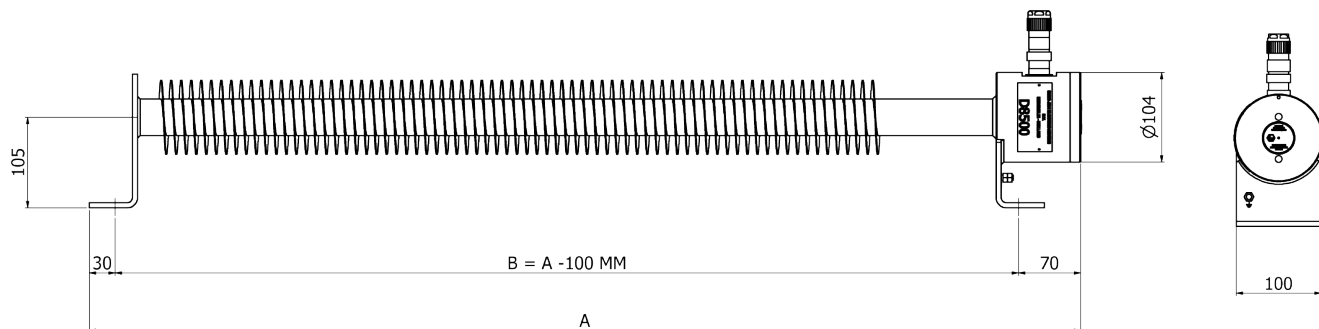
- * Grey epoxy-coating
- * Steel flame proof construction
- * Ambient temperature range ERB-T3/T4: -30°C - +40°C
Ambient temperature range ERB-HAT-T3: -30° - +60°C
Ambient temperature range ERB-LAT-T3/T4: -50° - +40°C
- * Marking (ATEX):
EN-IEC-60079-1 Ex II 2G Ex db IIC T3/T4 Gb
EN-IEC-60079-31 Ex II 2D Ex tb IIIC T200°C/T135°C Db
- * IP 66
- * 230 Volt standard (other voltages on request)
- * Option: cable gland M20 x 1.5mm, see brochure "Cable glands".



Available types ERB (standard) D8500

Type	Output	Article number	Type	Output	Article number	Total length (A)	Weight (approx.)
ERB 3 T3	250 Watt	B220 310 250	ERB 3 T4	140 Watt	B225 310 140	450 mm	8,0 kg
ERB 4 T3	325 Watt	B220 410 325	ERB 4 T4	180 Watt	B225 410 180	550 mm	9,0 kg
ERB 5 T3*	400 Watt	B220 510 400	ERB 5 T4	230 Watt	B225 510 230	650 mm	10,0 kg
ERB 6 T3	450 Watt	B220 610 450	ERB 6 T4	280 Watt	B225 610 280	750 mm	11,0 kg
ERB 7 T3*	500 Watt	B220 710 500	ERB 7 T4	320 Watt	B225 710 320	850 mm	11,5 kg
ERB 8 T3	600 Watt	B220 810 600	ERB 8 T4	370 Watt	B225 810 370	950 mm	12,0 kg
ERB 9 T3	700 Watt	B220 910 700	ERB 9 T4	420 Watt	B225 910 420	1050 mm	13,0 kg
ERB 10 T3*	750 Watt	B221 010 750	ERB 10 T4	460 Watt	B226 010 460	1150 mm	13,5 kg
ERB 11 T3	800 Watt	B221 110 800	ERB 11 T4	510 Watt	B226 110 510	1250 mm	14,5 kg
ERB 12 T3	900 Watt	B221 210 900	ERB 12 T4	560 Watt	B226 210 560	1350 mm	15,0 kg
ERB 13 T3*	1000 Watt	B221 311 000	ERB 13 T4	600 Watt	B226 310 600	1450 mm	16,0 kg
ERB 14 T3	1100 Watt	B221 411 100	ERB 14 T4	650 Watt	B226 410 650	1550 mm	16,5 kg
ERB 15 T3	1200 Watt	B221 511 200	ERB 15 T4	700 Watt	B226 510 700	1650 mm	17,0 kg
ERB 16 T3	1280 Watt	B221 611 280	ERB 16 T4	740 Watt	B226 610 740	1750 mm	18,0 kg
ERB 17 T3	1360 Watt	B221 711 360	ERB 17 T4	790 Watt	B226 710 790	1850 mm	18,5 kg
ERB 18 T3	1440 Watt	B221 811 440	ERB 18 T4	840 Watt	B226 810 840	1950 mm	19,0 kg
ERB 19 T3*	1520 Watt	B221 911 520	ERB 19 T4	880 Watt	B226 910 880	2050 mm	19,5 kg
ERB 20 T3	1600 Watt	B222 011 600	ERB 20 T4	930 Watt	B227 010 930	2150 mm	21,0 kg
ERB 21 T3	1680 Watt	B222 111 680	ERB 21 T4	980 Watt	B227 110 980	2250 mm	21,5 kg
ERB 22 T3	1760 Watt	B222 211 760	ERB 22 T4	1020 Watt	B227 211 020	2350 mm	22,0 kg
ERB 23 T3	1840 Watt	B222 311 840	ERB 23 T4	1070 Watt	B227 311 070	2450 mm	23,0 kg
ERB 24 T3	1920 Watt	B222 411 920	ERB 24 T4	1120 Watt	B227 411 120	2550 mm	23,5 kg
ERB 25 T3*	2000 Watt	B222 512 000	ERB 25 T4	1160 Watt	B227 511 160	2650 mm	24,5 kg
ERB 26 T3	2080 Watt	B222 612 080	ERB 26 T4	1210 Watt	B227 611 210	2750 mm	25,0 kg
ERB 27 T3	2160 Watt	B222 712 160	ERB 27 T4	1260 Watt	B227 711 260	2850 mm	25,5 kg
ERB 28 T3	2240 Watt	B222 812 240	ERB 28 T4	1300 Watt	B227 811 300	2950 mm	26,5 kg
ERB 29 T3	2320 Watt	B222 912 320	ERB 29 T4	1350 Watt	B227 911 350	3050 mm	27,5 kg
ERB 30 T3	2400 Watt	B223 012 400	ERB 30 T4	1400 Watt	B228 011 400	3150 mm	28,5 kg

* stock models



Option: Cable gland 3 or 9 o'clock



Available types D8500 (steel enclosure)					
ERB (-LAT) / (-HAT)			ERB / (-LAT)	ERB / (-LAT)	ERB-HAT
Type no.	Total length	Weight (approx.)	Output class T3	Output class T4	Output class T3
ERB 3	450 mm	8,0 kg	250 Watt	140 Watt	140 Watt
ERB 4	550 mm	9,0 kg	325 Watt	180 Watt	180 Watt
ERB 5	650 mm	10,0 kg	400 Watt	230 Watt	230 Watt
ERB 6	750 mm	11,0 kg	450 Watt	280 Watt	280 Watt
ERB 7	850 mm	11,5 kg	500 Watt	320 Watt	320 Watt
ERB 8	950 mm	12,0 kg	600 Watt	370 Watt	370 Watt
ERB 9	1050 mm	13,0 kg	700 Watt	420 Watt	420 Watt
ERB 10	1150 mm	13,5 kg	750 Watt	460 Watt	460 Watt
ERB 11	1250 mm	14,5 kg	800 Watt	510 Watt	510 Watt
ERB 12	1350 mm	15,0 kg	900 Watt	560 Watt	560 Watt
ERB 13	1450 mm	16,0 kg	1000 Watt	600 Watt	600 Watt
ERB 14	1550 mm	16,5 kg	1100 Watt	650 Watt	650 Watt
ERB 15	1650 mm	17,0 kg	1200 Watt	700 Watt	700 Watt
ERB 16	1750 mm	18,0 kg	1280 Watt	740 Watt	740 Watt
ERB 17	1850 mm	18,5 kg	1360 Watt	790 Watt	790 Watt
ERB 18	1950 mm	19,0 kg	1440 Watt	840 Watt	840 Watt
ERB 19	2050 mm	19,5 kg	1520 Watt	880 Watt	880 Watt
ERB 20	2150 mm	21,0 kg	1600 Watt	930 Watt	930 Watt
ERB 21	2250 mm	21,5 kg	1680 Watt	980 Watt	980 Watt
ERB 22	2350 mm	22,0 kg	1760 Watt	1020 Watt	1020 Watt
ERB 23	2450 mm	23,0 kg	1840 Watt	1070 Watt	1070 Watt
ERB 24	2550 mm	23,5 kg	1920 Watt	1120 Watt	1120 Watt
ERB 25	2650 mm	24,5 kg	2000 Watt	1160 Watt	1160 Watt
ERB 26	2750 mm	25,0 kg	2080 Watt	1210 Watt	1210 Watt
ERB 27	2850 mm	25,5 kg	2160 Watt	1260 Watt	1260 Watt
ERB 28	2950 mm	26,5 kg	2240 Watt	1300 Watt	1300 Watt
ERB 29	3050 mm	27,5 kg	2320 Watt	1350 Watt	1350 Watt
ERB 30	3150 mm	28,5 kg	2400 Watt	1400 Watt	1400 Watt

MODEL T3/T4, STAINLESS STEEL (AISI 316), D8505 GAS AND DUST EXPLOSION-PROOF

- * Completely constructed of stainless steel (AISI 316)
- * Flame proof construction
- * Especially suitable for **corrosive** areas
- * Ambient temperature range ERB: -30°C - +40°C
- Ambient temperature range ERB-HAT-T3: -30° - +60°C
- Ambient temperature range ERB-LAT-T3/T4: -50° - +40°C
- * Marking (ATEX):
 EN-IEC-60079-1 Ex II 2G Ex db IIC T3/T4 Gb
 EN-IEC-60079-31 Ex II 2D Ex tb IIIC T200°C/T135°C Db
- * IP 66
- * 230 Volt (other voltages on request)
- * Option: cable gland M20 x 1.5mm, see brochure "Cable glands".



*ERB RVS stainless steel
(optional cable gland)*

Available types ERB erb (standard) D8505

Type	Output	Article number	Type	Output	Article number	Total length (A)	Weight (approx.)
ERB 4 T3 RVS	225 Watt	B240 410 225	ERB 4 T4 RVS	110 Watt	B245 410 110	550 mm	9,0 kg
ERB 5 T3 RVS	300 Watt	B240 510 300	ERB 5 T4 RVS	150 Watt	B245 510 150	650 mm	10,0 kg
ERB 6 T3 RVS	375 Watt	B240 610 375	ERB 6 T4 RVS	190 Watt	B245 610 190	750 mm	11,0 kg
ERB 7 T3 RVS	450 Watt	B240 710 450	ERB 7 T4 RVS	230 Watt	B245 710 230	850 mm	11,5 kg
ERB 8 T3 RVS	525 Watt	B240 810 525	ERB 8 T4 RVS	270 Watt	B245 810 270	950 mm	12,0 kg
ERB 9 T3 RVS	600 Watt	B240 910 600	ERB 9 T4 RVS	310 Watt	B245 910 310	1050 mm	13,0 kg
ERB 10 T3 RVS	675 Watt	B241 010 675	ERB 10 T4 RVS	350 Watt	B246 010 350	1150 mm	13,5 kg
ERB 11 T3 RVS	750 Watt	B241 110 750	ERB 11 T4 RVS	390 Watt	B246 110 390	1250 mm	14,5 kg
ERB 12 T3 RVS	840 Watt	B241 120 840	ERB 12 T4 RVS	430 Watt	B246 210 430	1350 mm	15,5 kg
ERB 13 T3 RVS	930 Watt	B241 130 930	ERB 13 T4 RVS	470 Watt	B246 310 470	1450 mm	16,0 kg
ERB 14 T3 RVS	1030 Watt	B241 141 030	ERB 14 T4 RVS	510 Watt	B246 410 510	1550 mm	16,5 kg
ERB 15 T3 RVS	1140 Watt	B241 511 140	ERB 15 T4 RVS	540 Watt	B246 510 540	1650 mm	17,0 kg
ERB 16 T3 RVS	1250 Watt	B241 611 250	ERB 16 T4 RVS	580 Watt	B246 610 580	1750 mm	18,0 kg
ERB 17 T3 RVS	1350 Watt	B241 711 350	ERB 17 T4 RVS	620 Watt	B246 710 620	1850 mm	18,5 kg
ERB 18 T3 RVS	1440 Watt	B241 811 440	ERB 18 T4 RVS	660 Watt	B246 810 660	1950 mm	19,0 kg
ERB 19 T3 RVS	1520 Watt	B241 911 520	ERB 19 T4 RVS	700 Watt	B246 910 700	2050 mm	19,5 kg
ERB 20 T3 RVS	1600 Watt	B242 011 600	ERB 20 T4 RVS	750 Watt	B247 010 750	2150 mm	21,5 kg
ERB 21 T3 RVS	1680 Watt	B242 111 680	ERB 21 T4 RVS	790 Watt	B247 110 790	2250 mm	21,5 kg
ERB 22 T3 RVS	1760 Watt	B242 211 760	ERB 22 T4 RVS	830 Watt	B247 210 830	2350 mm	22,5 kg
ERB 23 T3 RVS	1840 Watt	B242 311 840	ERB 23 T4 RVS	870 Watt	B247 310 870	2450 mm	23,0 kg
ERB 24 T3 RVS	1920 Watt	B242 411 920	ERB 24 T4 RVS	910 Watt	B247 410 910	2550 mm	23,5 kg
ERB 25 T3 RVS	2000 Watt	B242 512 000	ERB 25 T4 RVS	950 Watt	B247 510 950	2650 mm	24,5 kg
ERB 26 T3 RVS	2080 Watt	B242 612 080	ERB 26 T4 RVS	990 Watt	B247 610 990	2750 mm	25,0 kg
ERB 27 T3 RVS	2160 Watt	B242 712 160	ERB 27 T4 RVS	1030 Watt	B247 711 030	2850 mm	25,5 kg
ERB 28 T3 RVS	2240 Watt	B242 812 240	ERB 28 T4 RVS	1070 Watt	B247 811 070	2950 mm	26,5 kg
ERB 29 T3 RVS	2320 Watt	B242 912 320	ERB 29 T4 RVS	1110 Watt	B247 911 110	3050 mm	27,5 kg
ERB 30 T3 RVS	2400 Watt	B243 012 400	ERB 30 T4 RVS	1150 Watt	B248 011 150	3150 mm	28,5 kg



Available types D8505 (stainless steel enclosure)					
ERB RVS (-LAT) / (-HAT)			ERB RVS / (-LAT)	ERB RVS/ (-LAT)	ERB RVS -HAT
Type no.	Total length	Weight (approx.)	Output class T3	Output class T4	Output class T3
ERB 4 RVS	550 mm	9,0 kg	225 Watt	110 Watt	110 Watt
ERB 5 RVS	650 mm	10,0 kg	300 Watt	150 Watt	150 Watt
ERB 6 RVS	750 mm	11,0 kg	375 Watt	190 Watt	190 Watt
ERB 7 RVS	850 mm	11,5 kg	450 Watt	230 Watt	230 Watt
ERB 8 RVS	950 mm	12,0 kg	525 Watt	270 Watt	270 Watt
ERB 9 RVS	1050 mm	13,0 kg	600 Watt	310 Watt	310 Watt
ERB 10 RVS	1150 mm	13,5 kg	675 Watt	350 Watt	350 Watt
ERB 11 RVS	1250 mm	14,5 kg	750 Watt	390 Watt	390 Watt
ERB 12 RVS	1350 mm	15,5 kg	840 Watt	430 Watt	430 Watt
ERB 13 RVS	1450 mm	16,0 kg	930 Watt	470 Watt	470 Watt
ERB 14 RVS	1550 mm	16,5 kg	1030 Watt	510 Watt	510 Watt
ERB 15 RVS	1650 mm	17,0 kg	1140 Watt	540 Watt	540 Watt
ERB 16 RVS	1750 mm	18,0 kg	1250 Watt	580 Watt	580 Watt
ERB 17 RVS	1850 mm	18,5 kg	1350 Watt	620 Watt	620 Watt
ERB 18 RVS	1950 mm	19,0 kg	1440 Watt	660 Watt	660 Watt
ERB 19 RVS	2050 mm	19,5 kg	1520 Watt	700 Watt	700 Watt
ERB 20 RVS	2150 mm	21,5 kg	1600 Watt	750 Watt	750 Watt
ERB 21 RVS	2250 mm	21,5 kg	1680 Watt	790 Watt	790 Watt
ERB 22 RVS	2350 mm	22,5 kg	1760 Watt	830 Watt	830 Watt
ERB 23 RVS	2450 mm	23,0 kg	1840 Watt	870 Watt	870 Watt
ERB 24 RVS	2550 mm	23,5 kg	1920 Watt	910 Watt	910 Watt
ERB 25 RVS	2650 mm	24,5 kg	2000 Watt	950 Watt	950 Watt
ERB 26 RVS	2750 mm	25,0 kg	2080 Watt	990 Watt	990 Watt
ERB 27 RVS	2850 mm	25,5 kg	2160 Watt	1030 Watt	1030 Watt
ERB 28 RVS	2950 mm	26,5 kg	2240 Watt	1070 Watt	1070 Watt
ERB 29 RVS	3050 mm	27,5 kg	2320 Watt	1110 Watt	1110 Watt
ERB 30 RVS	3150 mm	28,5 kg	2400 Watt	1150 Watt	1150 Watt

Options

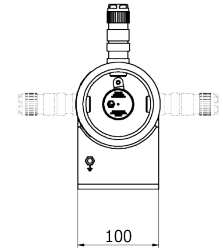
Sand-filled heaters

Sand filled shock and vibration resistant ERB heaters are available at request.

Cable gland position(s)

Standard position single cable gland: 12 o' clock

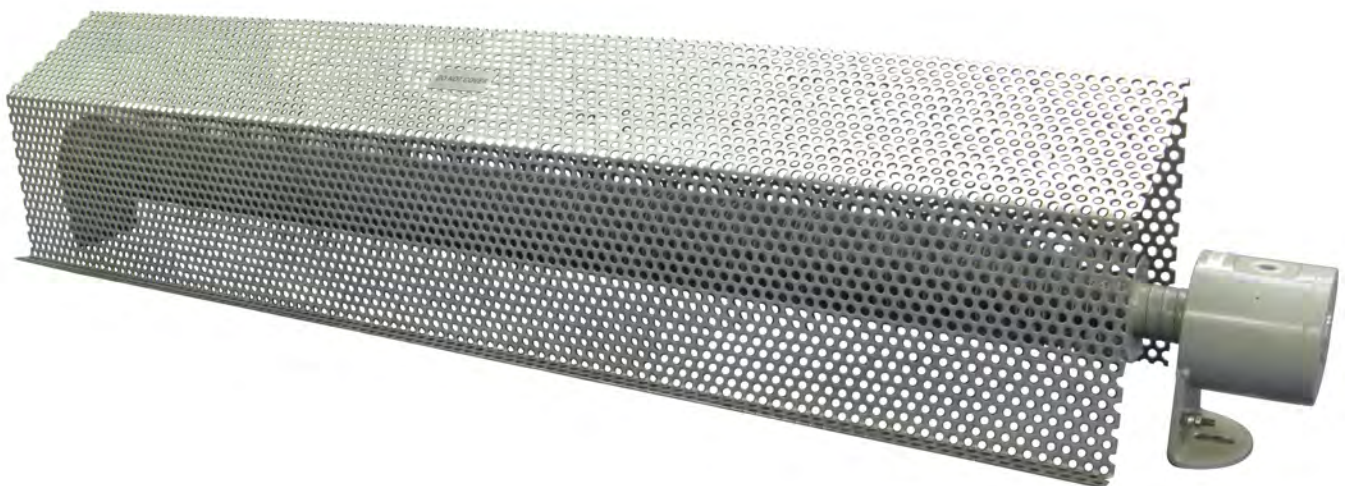
ERB enclosure with cable gland holes at 3 positions (3-9-12 hrs) available at request.



Protection grid ERB-PG

Optional protection grid ERB-PG provides extra protection against damage and touching.

The grid is made of aluminium perforated plate in AISI 304, 2 mm thickness.



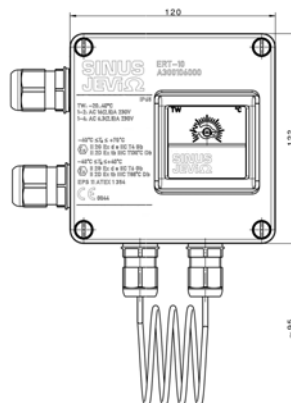
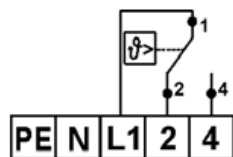
Protection grid for ERB

ERB Protection Grids		
ERB type	Length protection grid	Article number
ERB 5	500 mm	B220 000 005
ERB 7	700 mm	B220 000 007
ERB 10	1000 mm	B220 000 010
ERB 13	1300 mm	B220 000 013
ERB 19	1900 mm	B220 000 019
ERB 25	2500 mm	B220 000 025
ERB 30	3000 mm	B220 000 030

Control

Ex. proof room thermostat type ERT-10

Hazardous area thermostat type ERT-10 replaces former type EJB D8525 and is suitable for direct control of Sinus Jevi explosion proof space heaters, e.g. finned tube heater type ERB. The ERT-10 surface mounted thermostat stands for reliable temperature control, even under extreme conditions. A convenient view window enables you to see the adjustable set point of the thermostat without removing the lid. The (outside) construction and enclosure of the thermostat comply with increased safety (Ex 'e') requirements and enable usage of 'simple' (Ex 'e') cable glands. Two cable glands are available for both incoming and outgoing cable. Maximum 16A / 230 VAC load can be switched by the single pole (double throw) potential free thermostat contact. The adjustable temperature range is -20°C up to +40°C and the admissible ambient temperature is -40°C up to +40°C. The (outside) IP65 enclosure is made of reinforced Polyester, making it suitable for placement in harsh environments. Its Ex approvals apply to explosive gas atmospheres (zone 1 and 2) or dust atmospheres (zone 21 and 22).



ERT-10



Replacement type for EJB D8525.



Sinus was one of the pioneers in the field of explosion proof heating equipment, today we are still operating at the forefront. We design and manufacture according to ATEX as well as IECEx and EAC directives.

Our company is certified to design and produce Ex-equipment. and we also possess ISO 9001 and ISO 14001 certificates.

NIBE