

8701/01-1110-0200-04 Art. No. 327393



- Ex equipment certificate for use in Zone 1 applications
- Automatic cooling power adjustments at different conditions with thermal expansion valve, to achieve constant inner temperature
- Cooling capacity of 4 kW acc. to EN 14511 (L35/L35)
- Wide setpoint range of 18 °C to 35 °C
- Balanced design for direct surface mounting without additional support
- Plug and Play - Easy installation, no setup required

MY R. STAHL 8701A



R. STAHL's ExSys Cool 8701 series of air conditioning system offers the ideal cooling performance in hazardous environment. The use of thermal expansion valve technology enables constant automatic cooling at wide temperature set point (18 °C to 35 °C). ExSys Cool is certified as equipment to be mounted on Ex e and Ex p cabinets e.g. MCC (Motor Control Center) panels. The product has a wide ambient temperature range (depending on the refrigerant choice) from -40 °C to 55 °C and a cooling capacity of 4 kW to 6 kW acc. to EN 14511 (L35/L35). The product is offered as standard pre-defined configuration as well as customized solutions to match flexible customer's HVAC requirements.

Technical Data

Explosion Protection

| | |
|--------------------------------|--------------------------------------|
| Application range (zones) | 1, 2 |
| IECEX gas certificate | IECEX DEK 23.0009X |
| IECEX gas explosion protection | Ex db eb q ib IIB+H2 T4 Gb |
| ATEX gas certificate | 23 ATEX 0009X |
| ATEX gas explosion protection | Ex II 2 G Ex db eb q ib IIB+H2 T4 Gb |

Electrical Data

| | |
|------------------------------|---------------|
| Rated operational voltage AC | 220 ... 240 V |
| Rated operational current | 7.5 A |
| Frequency | 50 Hz |
| Total power input | 1.7 kW |
| N-pole present | Yes |
| No. of poles | 2 |

Acoustic Data

| | |
|----------------------------|-------|
| Soundlevel condensor side | 68 dB |
| Soundlevel evaporator side | 70 dB |

Applications of low-voltage systems

Air conditioner Zone 1/Ex p



8701/01-1110-0200-04 Art. No. 327393

Climatic Data

| | |
|--|------------------------------|
| Air conditioning unit version | cooling only |
| CO2 equivalent | 1146 kg |
| Condenser Ex-rated | Yes |
| Condensing control | Speed-contr. condenser fan |
| Cooling capacity acc. to EN 14511 (L35/ L35) | 4.2 kW |
| Cooling air flow rate | 750 m ³ /h |
| Energy efficiency ratio | 2.43 |
| Evaporation control | Thermostatic expansion valve |
| Evaporator Ex-rated | No |
| Max setpoint temperature | 35 °C |
| Min setpoint temperature | 18 °C |
| Refrigerant charge | 2.2 kg |
| Refrigerant GWP | 573 |
| Refrigerant group gas | 2 |
| Refrigerant type | R513A |
| Sensible cooling capacity acc. to EN 14511 (L35/L35) | 3.6 kW |
| Cooling capacity acc. to EN 1411 (L35/L50) | 3.7 kW |
| Speed regulated | No |
| Temperature control | Yes |

Ambient Conditions

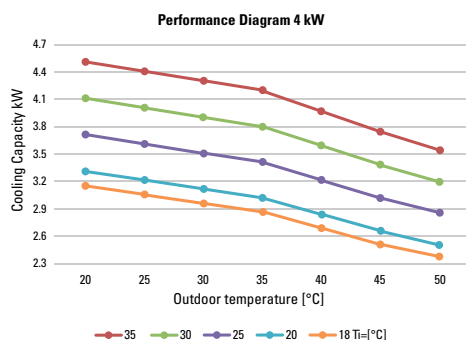
| | |
|---------------------|------------------|
| Ambient temperature | -20 °C ... 50 °C |
| Ambient temperature | -4 °F ... 122 °F |

Mechanical Data

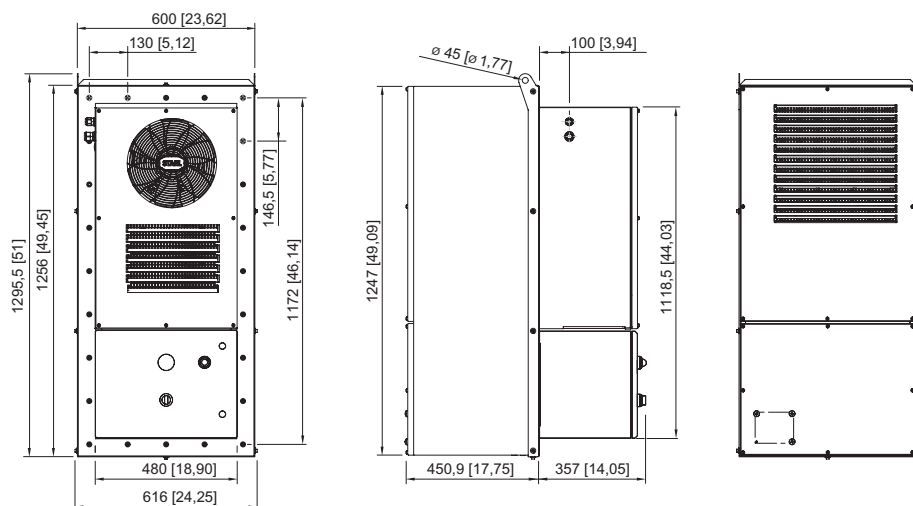
| | |
|---------------------------------------|--|
| Air conditioner enclosure | Stainless steel 1.4404, 316L, brush finished, Natural surface, Painted: No |
| Condenser coil | Copper pipes, aluminium fins, Painted: No |
| Evaporator coil | Copper pipes, aluminium fins, Painted: No |
| Degree of protection (IP) (IEC 60529) | IP66 |
| Width, inches | 23.622 in |
| Height in inches | 49.0157 in |
| Depth in inches | 30.63 in |
| Width | 600 mm |
| Height | 1245 mm |
| Depth | 778 mm |
| Packaging | Standard |
| Weight | 210 kg |
| Weight | 463.05 lb |

8701/01-1110-0200-04 Art. No. 327393

Technical Drawings – Subject to Alterations



Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



ExSys Cool 8701 Zone 1 / Non-Ex
ExSys Cool 8701 Zone 1 / Ex p

Accessories

Plastic cable gland



8161/7-M20-1304, Ex e
Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm

Art. No.

229917

Metal cable gland



Ex d and Ex e cable glands for all types of unarmoured cables and cables with wire-braid armouring (nickel-plated brass)
Type 20A2F, M20 x 1.5

Art. No.

243464



Ex d and Ex e cable glands for all types of armoured cables and cables with wire-braid armouring (nickel-plated brass)
Type E1FU, M20 x 1.5

Art. No.

243484

Stopping plug



8290/3-M20
Plastic, M20 x 1.5
Lot size 1 piece

Art. No.


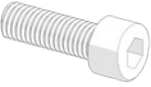

143522

Applications of low-voltage systems

Air conditioner Zone 1/Ex p



8701/01-1110-0200-04 Art. No. 327393

| | | |
|---|---|-----------------|
|  | Stainless steel stopping plug M20x1.5 with hexagon insert bit | 251101 |
| Screw | | Art. No. |
|  | Cylindrical screw M10 x 30 A4-70 1 piece | 109972 |
| Seal 8701 center plate | | Art. No. |
|  | Seal for the center plate for wall mounting | 321081 |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.