

8701/01-1111-0200-04 Art. No. 327394



- Full equipment certificate for use in Zone 1
- Automatic adaptation of the cooling capacity to different conditions using a thermal expansion valve to achieve a constant inside temperature
- Cooling capacity of 4 kW according to EN 14511 (L35/L35)
- Wide adjustment range from 18 °C to 35 °C
- Balanced design for direct surface mounting without additional support
- Plug and play – easy installation, no configuration required

MY R. STAHL 8701A



R. STAHL's ExSys Cool 8701 air conditioner offers the perfect cooling capacity for hazardous environments. The use of thermal expansion valve technology allows for constant automatic cooling with a wide range of temperature target values (18 °C to 35 °C). ExSys Cool is certified as equipment, meaning that it is approved for simple use in Ex p and Ex e solutions. The product has a wide ambient temperature range (depending on the refrigerant selected) from -40 °C to 55 °C and a cooling capacity from 4 kW to 6 kW according to EN 14511 (L35/L35). Predefined standard configurations are available as well as customer-specific solutions to meet the 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 | 9 A |
| Frequency | 50 Hz |
| Total power consumption | 2.1 kW |
| No. of poles | 2 |
| N-pole present | Yes |

Acoustic Data

| | |
|--------------------------------|-------|
| Sound level on capacitor side | 68 dB |
| Sound level on evaporator side | 70 dB |

Applications of low-voltage systems

Air conditioner Zone 1/Ex p



8701/01-1111-0200-04 Art. No. 327394

Climatic Data

| | |
|------------------------------------------------------|------------------------------|
| Air conditioner version | cooling only |
| CO ₂ equivalent (refrigerant) | 1146 kg |
| Ex-certified capacitor | Yes |
| Condensation 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 | 2.03 |
| Evaporation control | Thermostatic expansion valve |
| Ex-certified evaporator | No |
| Max. setpoint temperature | 35 °C |
| Min. setpoint temperature | 18 °C |
| Refrigerant charge | 2.2 kg |
| Refrigerant GWP | 573 |
| Gas refrigerant group | 2 |
| Refrigerant type | R513A |
| Sensible cooling capacity acc. to EN 14511 (L35/L35) | 3.6 kW |
| Cool.cap. ac. to EN14511L35L50 | 3.7 kW |
| Regulated speed | No |
| Temperature controller | Yes |

Ambient Conditions

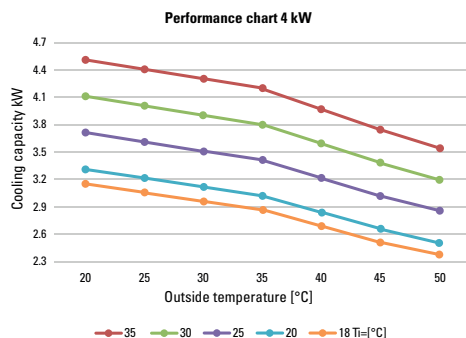
| | |
|---------------------|-------------------|
| Ambient temperature | -40 °C ... 50 °C |
| Ambient temperature | -40 °F ... 122 °F |

Mechanical Data

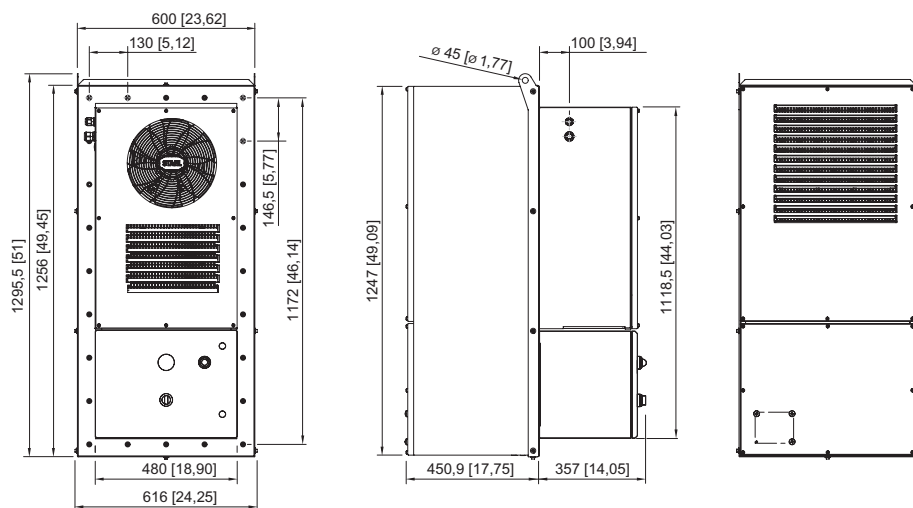
| | |
|---------------------------------------|----------------------------------------------------------------------------|
| Air conditioner enclosure | Stainless steel 1.4404, 316L, brush finished, Natural surface, Painted: No |
| Condenser coil | Copper pipes, aluminium fins, Painted: No |
| Evaporator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

8701/01-1111-0200-04 Art. No. 327394

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

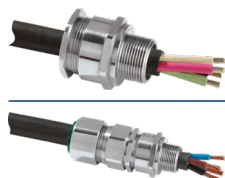


8161/7-M20-1304, Ex e
plastic, M20 x 1.5, cable outer diameter 4 to 13 mm

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 gland for all types of armoured cables (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



8701/01-1111-0200-04 Art. No. 327394

Stopping plug

Art. No.

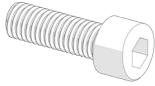


Stainless steel stopping plug M20x1.5 with hexagon insert bit

251101

Screw

Art. No.



Cheese-head screw M10 x 30 A4-70
1 piece

109972

Base plate seal 8701

Art. No.



Seal for base 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.