

D A T A S H E E T

Hermetic sealing sliding door KONE HS-A2 (automatic)

General product description:

- **Application;** sealing of conditioned rooms (operating theatres, laboratories, clean rooms, etc.) where hygiene, noise reduction and air pressure control is important
- **Construction;** single or double door panel
- **Opening width;** maximum 2400 mm.
- **Opening height;** maximum 2500 mm.
- **Weight;** maximum door weight 140 kg.
- **Sound insulation value;** standard $R_w = 28$ dB, optional $R_w = 34$ dB.
- **Air tightness:**
 - Air leakage with 10 Pa: positive pressure 1,5 m³/h, negative pressure 1,2 m³/h
 - Air leakage with 50 Pa: positive pressure 6,1 m³/h, negative pressure 4,2 m³/h
- **Certification;** the KONE HS-A2 hermetic sealing door meets the international standards (CE) for quality and safety. The drive unit is equipped with a UniDrive[®] control unit which is TÜV certified.

Features door panel:

- **Panel boundary;** silver anodized aluminium design profiles around the door.
- **Panel thickness;** panel 39,6 mm. inclusive boundary 62 mm.
- **Synthetic sealing;** specially designed with materials to secure optimal sealing and resistance against detergents and disinfectants.
- **Door panel filling;** Foam or wooden filling with 0,8 mm HPL cover, optional:
 - Panel with 1 or 2 mm lead inlay (radiation resistance/X-ray doors)
 - Panel with 34 dB sound insulation
 - Glass panel instead of HPL (insulated glass 8-24-8)
 - Panel with 60 minutes fire resistance (optional: with 2 mm lead)
- **Windows;**
 - Square window with aluminium frame and insulated glass (with or without lead glass)
Standard sizes: 300x300 mm, 600x600 mm, 300x600 mm (other sizes on request)
 - Round window with stainless steel frame (laminated glass)
 - Flush frameless window (insulated glass)
 - Window with blinds (insulated glass)
 - Window with laser shielding on 1 side (insulated glass)
- **Door handle;** design handle with lever mechanism for easy lifting and opening of the door in one movement. The handle always returns to the neutral position. Aluminium handle in RAL 9006. Option: door handle on 1 side.
- **Bottom guide;** solid bottom guides to support the door and to assure hermetical sealing.

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Features of door operator:

- **Intelligence;** “Smart Door Technology”.
- **Basic unit;** electro mechanical, consist of a control unit, 2 DC motors and tooth belt.
- **Control unit;** control unit with an intelligent (self monitoring and adjusting) computer; programmable opening and closing speed, open time, opening width, several timing functions, a learning button (to program the door by hand) and obstacle safety reverse.
- **Speed;** automatically adjusted to a safe level based on the door weight and resistance in conformity with the TUV specification. Speed can also be programmed by using a learning button on control unit or with the PSION programmer.
 - Average door speed for door with weight up-to 140 kg. : approx. 0,55 m/sec.
- **Line power;** 230V, 50Hz, 2Amp, 1 phase. Nominal used power 80 W.
- **Program switch;** wireless switch (wall mount), which can be used to change door functions.
 - Door functions: automatic, open position, one-way direction, closed (or optional locked), summer /winter position, sequence opening and reset
 - Range: 15-35 meter (dependent on environment)
 - Optional: handheld PGS or wired PGS (max. 7 wireless switches can be used for 1 operator)
- **External connections;** 4 free programmable inputs and 1 free programmable output, e.g. for fire alarm, entrance control system or external door control.
- **Rail;** aluminium rail supplied with an integrated changeable running rail with notches to assure an optimal hermetic sealing of the door.
- **Carriers;** steel carriers with synthetic rollers and bearings to assure a smooth and noiseless running.
- **Cover;** aluminium design cover, silver anodized. Size (depth x height): 148 x 322 mm.

Safety features:

- **Electronic safety reverse;** highly sensitive reverse settings in both open and close direction.
- **Photocell safety;** consists of a transmitter and receiver, installed in the door opening. The control unit tests the function of the photocells prior to every door closing cycle.
- **Speed;** automatically adjusted to a safe level on based on the weight and resistance of the door in conformity with the TÜV specifications.
- **Power failure;** in the event of a power failure all settings are stored in the computer and the door operates as a manual door (if the door is not locked).

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Options:

- **Locking;** electric or mechanical
 - Electric lock, mono-stabile: powerless unlocked (=standard setting)
 - Mechanical lock with bar lock and with the following options:
 - key (Euro cylinder) on 1 or both sides
 - one side key, one side button
 - one side button, one side red-white indicator (toilet lock)
- **Sequence opening;** assures that 2 doors (connected to each other in e.g. an air lock situation) will not be open at the same time.
Optional: lamp-indicators
- **Nurse opening;** reduced opening
- **Battery unit;** unit with 3 batteries (12V / 0,8Ah), takes over all door functions temporarily in case of power failure
- **Extension unit;** 4 extra inputs and 4 extra outputs
- **Earth connection;** K3 (earthing of unit, door and wall frame)
- **Extended cover and rail**
- **Wall frame;** aluminium wall frame in order to create an optimal hermetical sealing:
 - Z1; adjustable wall frame on one side
 - Z2; double wall frame with HPL panels for max. wall thickness 800 mm
 - Z2-Pb1; double wall frame with 1 mm lead inlay
 - Z2-Pb2; double wall frame with 2 mm lead inlay
- **Activators and safety sensors:** several possibilities for activation (push buttons / switches / radars) and detection (safety sensors).