

# D A T A S H E E T

## Hermetically sealed sliding door KONE HS-A2 (automatic)

### Product description:

#### General:

- **Application;** sealing of conditioned rooms as operating theatres, laboratories, clean rooms, etc. and where the hygienic, noise and hermetically sealing important is
- **Construction;** single or double door leaf, left or right sliding
- **Opening width;** maximum 2400 mm.
- **Opening height;** maximum 2500 mm.
- **Weight;** maximum door weight 140 kg.
- **Noise isolation value;** standard  $R_w = 28$  dB, optional  $R_w = 34$  dB.
- **Air tightness:**
  - Air leakage with 10 Pa: positive pressure 1,5 m<sup>3</sup>/h, negative pressure 1,2 m<sup>3</sup>/h
  - Air leakage with 50 Pa: positive pressure 6,1 m<sup>3</sup>/h, negative pressure 4,2 m<sup>3</sup>/h
- **Certification;** the KONE HS-A2 hermetical door meets the international standards (CE) for quality and safety. Furthermore the drive unit is equipped with a UniDrive<sup>®</sup> control unit which is TÜV certified.

#### Features door construction:

- **Door panel filling;** Foam or wooden filling with 0,8 mm HPL cover, optional:
  - Panel with HPL, radiation resistance 1 mm lead inlay
  - Panel with HPL, radiation resistance 2 mm lead inlay
  - Panel with HPL, 34 dB noise reduction
  - Panel with HPL inclusive window with laminated insulated glass (3.3.2-15-3.3.2):
    - Standard dimensions: (other dimensions on request)
      - 300 x 300 mm.
      - 600 x 600 mm.
      - 300 x 600 mm.
      - 600 x 300 mm.
    - Round 500 mm (laminated glass 4.4.1)
    - Flush window (without frame)
    - Lead glass (2 mm lead equivalent)
  - Panel with HPL and 30 minutes fire resistance
  - Panel with stainless steel surface
  - Panel with full glazing (insulated glass 8-24-8)
- **Panel boundary;** silver anodized aluminium profiles in Waldoor<sup>®</sup> design around the door
- **Panel thickness;** panel 39,6 mm. inclusive boundary 62 mm.
- **Special door handle** in Waldoor<sup>®</sup> design for easy opening and lifting the door in one movement. The handle always returns to the neutral position. Option: door handle on 1 side
- **Synthetic sealing;** specially designed with materials to secure optimal sealing and resistance against detergents and disinfectants
- **Bottom guide;** solid bottom guides to support the door and to assure hermetical sealing.

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### Continuation product description KONE HS-A2 (automatic)

#### Function description and features of the door operator:

- **Intelligence;** “Waldoor® Smart Door Technology”.
- **Construction;** aluminium running track supplied with an integrated changeable rail and basic unit
- **Suspension system;** two 3-dimensional adjustable carriers per door leaf
- **Carriers;** steel carriers with synthetic rollers and bearings to assure a smooth and noiseless running
- **Basic unit;** electro mechanical, consist of a control unit, 2 DC motors and tooth belt
- **Control unit;** UniDrive® control unit with a self adjusting computer and programmable open and closing speed, open hold time, opening width and obstacle safety reverse
- **Speed;** (programmable by using the self learning button on control unit or with the PSION programmer)
  - door weight up-to 140 kg. : 0,55 m/sec.
- **Line power;** 230V, 50Hz, 6Amp, 1 phase. Maximum used power 80 W.
- **Power failure;** in the event of a power failure all settings are stored in the computer, and the door operates as a manual door. Optional: battery unit to take over all functions
- **Electronic program switch;** the system is delivered with a electronic program switch with led indication, surface mounted or built-in
- **Cover;** aluminium cover in Waldoor® design, silver anodized
  - dimensions: depth x height: 148 x 322 mm.

#### Electronic program switch (PGS):

- **Mounting;** surface mounted or built-in, with LED display
- **Functions;** automatic, open position, one-way direction, closed (or optional locked), summer /winter position and sequence opening. Furthermore the PGS has a maintenance indicator which will start flashing in case the door has reached the programmed number of cycles.

#### Standard safety devices:

- **Photo cells;** for safety installed in the free opening. The computer tests every door cycle to comply with safety standards
- **Highly sensitive safety reverse settings** in both open and close direction
- **Speed;** automatically adjusted to a safe level on based on the weight and resistance of the door in conformity with the TÜV specifications.

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#### Options:

##### ➤ Locking

- Electro mechanical locking: standard powerless unlocked. To comply with emergency exit laws
- Mechanical locking with bar lock and with the following options:
  - one side key
  - key at both sides
  - one side key, one side button
  - one side button, one side red-white indicator (toilet lock)

##### ➤ Sequence opening; standard (optional: lamp-indicators)

##### ➤ Nurse opening; reduced opening

##### ➤ Power failure; battery unit can be programmed for various options

##### ➤ Programming;

- 4 free programmable inputs normally open or normally closed contacts to connect to a fire alarm system or other systems:
  - door opens
  - door closes and locks
  - door unlocks, opens, stops and reverts to manual.
- 1 free programmable output
- extension board for 4 extra inputs and 4 extra outputs

##### ➤ Earthing; prepared for S1, S2 or S3 applications

##### ➤ Cover and rail extension

##### ➤ Frame; aluminium frame WM1-Z covered with HPL to create an optimal hermetically closing:

- WM1-Z1; adjusting frame on one side
- WM1-Z2; double sided frame for max. wall thickness 800 mm
- WM1-Z2-Pb1 (lead inlay 1 mm)
- WM1-Z2-Pb2 (lead inlay 2 mm)

##### ➤ Indicators and opening devices:

- Foot switch
- Elbow switch
- Push buttons
- Infrared indicators
- Radar indicators
- Pull cord
- Etc.