

# ARION

HYDRAULIC MRL LIFT

**KLEEMANN**  
COMPLETE LIFTS

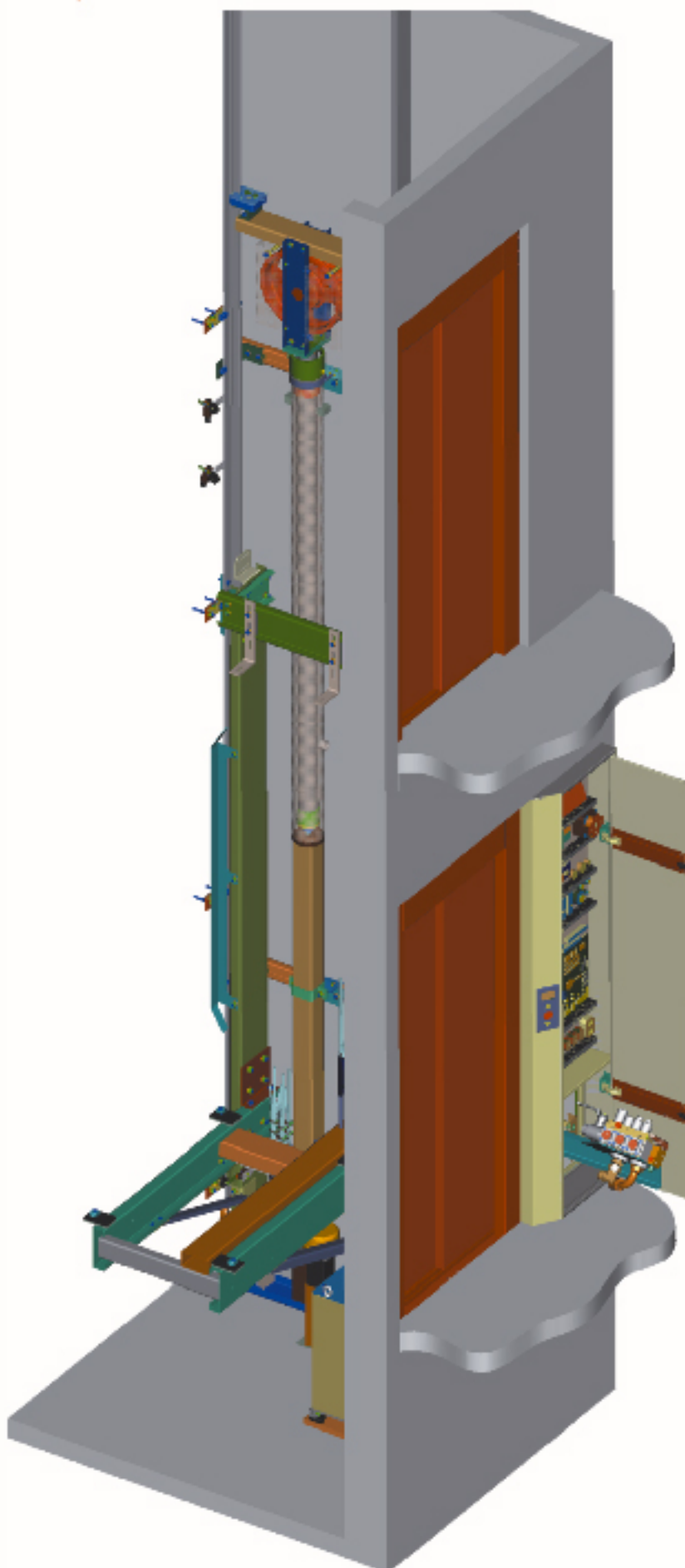






The hydraulic MRL solution

**PATENTED**



Arion Hydro MRL is a pioneering concept, combining ideally the well-known advantages of a quality hydraulic lift, with the elimination of the requirement for a machine room.

## The advantages of Arion:

- 4 weeks delivery time
- Type Examination Certificate according to Directive 95/16 EC
- Travel up to 20 m / 8 stops for 630 kg, 25 m / 10 stops for 1000 kg
- Controller installed at the lowest landing level
- Optional use of a soft starter
- Environment-friendly (compatible with certified biodegradable hydraulic oil)
- HR version at 1 m / sec available as well in shaft sizes of 1,65 m wide x 1,80 m deep with 900 mm wide door or 1,60 m wide x 1,80 m deep with 800 mm wide door
- Reduced headroom at 3400 mm
- Only 1100 mm min. pit depth for 630 kg, 1400 mm for 1000 kg
- With minimized shaft dimensions suitable for new construction and modernization
- Available with various cabin sizes and panoramic cabins
- Reduced installation time
- A solution of superior value



## Hydraulic System: Elevation

- Manufactured with high quality materials that secure long life span
- Installation and service friendly parts
- High leveling and stopping accuracy according to pr EN 81.70 that provides ride quality
- Minimum maintenance requirements, low maintenance costs and readily available spare parts
- Compatible also with biodegradable and non-flammable oil



## Controller Electronics:

- The controller is placed at the lowest stop, next to the landing door and outside the shaft
- Easy access to the controller
- State - of - the - art electronics
- Pre – assembled electrical installation (fully pre - wired)
- Available with standard Automatic Emergency Evacuation



## Valve block-Power unit:

- The power unit is placed in the shaft
- Through the "Moving valve block" concept, access to the valve block is as easy as it gets!







The ARION complete system is offered with...



Guaranteed compatibility of all components

Detailed installation, operation and maintenance manuals

Functional packing design

Automatic doors with VVVF operator

Side opening and central opening doors, available in various finishings

Landing doors also as per DIN 18091



Various cabins in attractive designs available



ATHENA

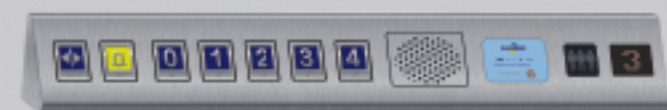


IFIGENIA



DANAE

Large variety of COPs, LOPs



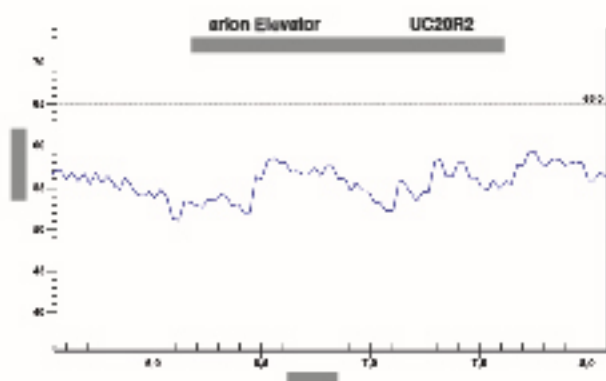




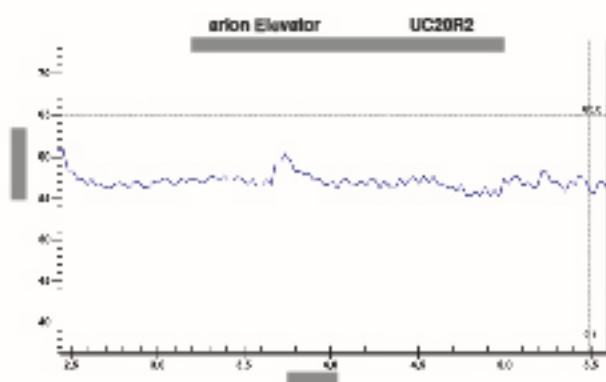
## Sound level measurements

## Planning data

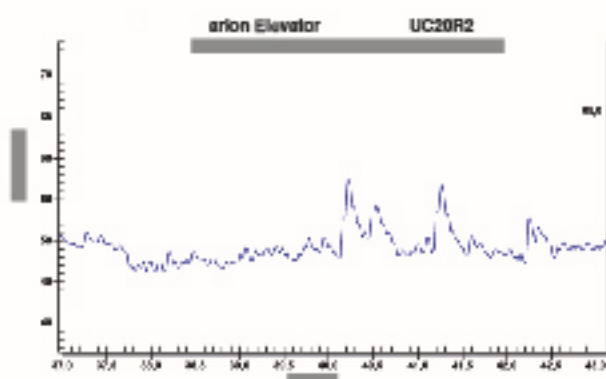
### Operation in ascent direction with nominal speed



### Operation in ascent direction on startup

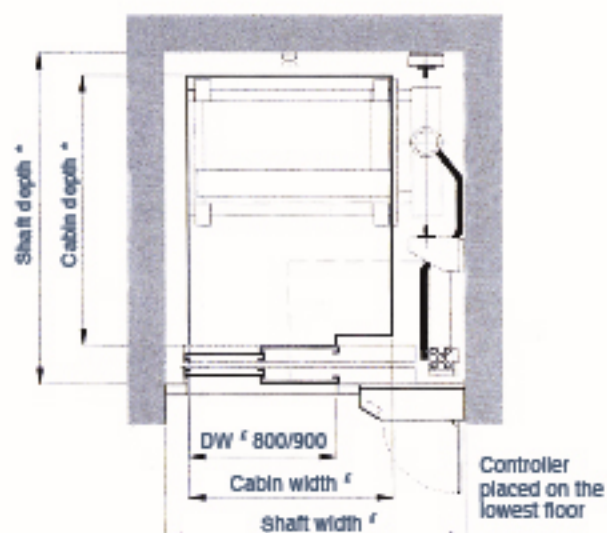
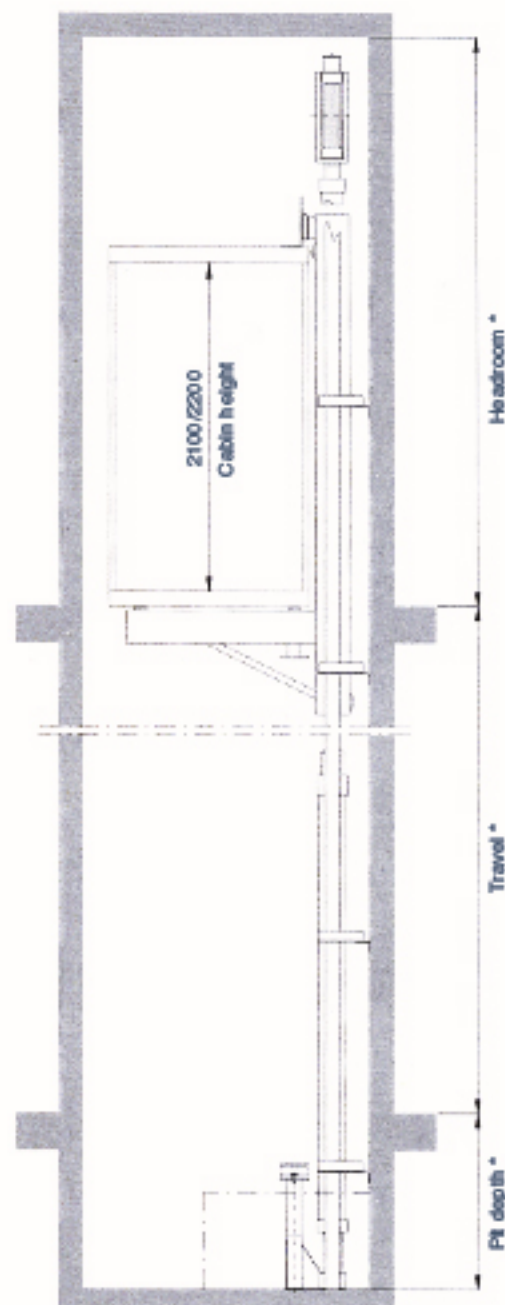


### Operation in descent direction



| Sound in cabin                                       | ARION<br>600<br>MRL | ARION<br>1000<br>MRL |
|------------------------------------------------------|---------------------|----------------------|
| Operation in ascent direction with nominal speed     | 55 dB               | 57 dB                |
| Operation in ascent direction on startup             | 58 dB               | 61 dB                |
| Operation in descent direction                       | 52 dB               | 55 dB                |
| Sound in front of shaft door /<br>controller cabinet | ARION<br>600<br>MRL | ARION<br>1000<br>MRL |
| Operation in ascent direction with nominal speed     | 57 dB               | 59 dB                |
| Operation in ascent direction on startup             | 60 dB               | 62 dB                |
| Operation in descent direction                       | 53 dB               | 56 dB                |

Sound level measurements effectuated in factory conditions via the EVA-625 measurement device in accordance to the ride quality standard ISO 18738



\*According to site



## Summary technical data

|                                                    | ARION – 600 LR<br>Low Rise    | ARION – 600 HR<br>High Rise   | ARION – 1000 MRL              |
|----------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Rated load (kg)                                    | 630                           | 630                           | 1000                          |
| Max. travel (m)                                    | 14                            | 20                            | 25                            |
| Number of stops                                    | 6                             | 8                             | 9                             |
| Max. speed (m/sec)                                 | 0,64                          | 1,0                           | 1,0                           |
| Min. pit depth (mm)                                | 1100                          | 1200                          | 1400                          |
| Min. headroom (mm)                                 | 3400                          | 3400                          | 3400                          |
| Max. load on piston (kg)                           | 2650                          | 3200                          | 4600                          |
| Sling weight (kg)                                  | 220                           | 220                           | 250                           |
| Max. cabin weight incl. cabin doors (kg)           | 440                           | 700                           | 1000                          |
| Cabin sling                                        | LSF 1600 with diagonal girder | LSF 1600 with diagonal girder | LSF 2200 with diagonal girder |
| Pulley                                             | PL - 400                      | PL - 400                      | PL - 400                      |
| Guide rails                                        | T89x62x16                     | T89x62x16                     | T90x75x16                     |
| Max. ram                                           | Ø90 massive                   | Ø 120x9                       | Ø 150x12                      |
| Wire ropes (mm)                                    | 4 x Ø10 (70.2 KN)             | 4 x Ø10 (70.2 KN)             | 5 x Ø10 (70.2 KN)             |
| Max. vertical distance between guide brackets (mm) | 1500                          | 1500                          | 1200                          |
| Oil tank capacity (Lt)                             | 270                           | 325                           | 480                           |
| Max. pump capacity (Lt)                            | 125                           | 210                           | 300                           |
| Rubber hose (power unit- cylinder)                 | R1A 1"                        | R1A 1 ¼"                      | R1A 1 ½"                      |
| Valve block                                        | EV-100 ¾"                     | EV-100 1 ½"                   | EV-100 1 ½"                   |
| Soft starter (optional)                            | RST (ESB-LC-1)                | RST (ESB-LC-1 and -2)         | RST (ESB-LC-1 and -2)         |

## KLEEMANN SOLUTIONS RANGE

### COMPLETE LIFT SYSTEMS

- COMPLETE HYDRAULIC / TRACTION SYSTEMS WITH MACHINE ROOM
- MRL SOLUTIONS (HYDRAULIC / TRACTION)

### LIFT ASSEMBLIES

- CABINS
  - PASSENGER CABINS
  - FREIGHT / GOODS CABINS
- DOORS
  - AUTOMATIC DOORS WITH VVVF OPERATOR
  - FOLDING DOORS
  - SEMI-AUTOMATIC LANDING DOORS
  - CIRCULAR DOORS
  - MODERNIZATION DOORS
- ELECTRONICS
  - CONTROLLERS
  - CAR AND LANDING OPERATING PANELS
  - PRE-WIRING
- HYDRAULIC ELEVATION SYSTEMS
  - PISTON AND CYLINDER ASSEMBLY
  - POWER UNITS
  - CAR FRAMES
  - GUIDE RAILS
  - WIRE ROPES
  - HYDRAULIC OIL
- TRACTION ELEVATION SYSTEMS
  - TRACTION MACHINES
  - CAR SLINGS
  - COUNTERWEIGHT SLINGS
  - GOVERNORS
  - GUIDE RAILS
  - WIRE ROPES



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