# PCR Cabinets

*Probably the safest and most comfortable PCR cabinets in the world*

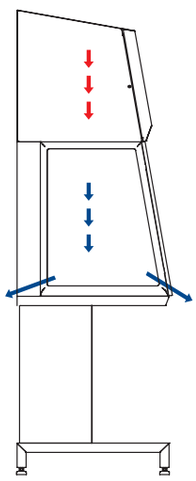
# PCR cabinets with maximum protection

ScanLaf offers a complete range of PCR cabinets in a size, and with the safety features, to suit your requirement.
When working with PCR samples, cross-contamination between samples and airborne contamination from the surroundings can cause major problems. To overcome this, the Scanlaf PCR cabinet range offers both a highly effective UV irradiation system for the deactivation of RNA and DNA strands and also a U-14 HEPA filtered uniform, downward, airflow to guarantee turbulence free, sterile air at the work surface. This excellent air flow pattern with deviations in speed less than 10 % avoids cross contamination and ensures than any RNA/DNA fragments will be trapped on the table top or follow the laminar flow out of the cabinet (or to the HEPA filters in the Mars).

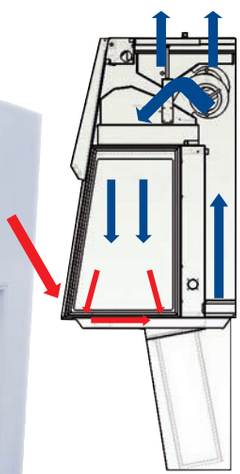
The cabinets are constructed to avoid exposure to harmful UV-light by lab personnel during irradiation after work and hence offer an effective way to manipulate PCR samples safely. TheUV tubes are shielded by a night closing panel so the light cannot escape through the front cabinet windows but is directed onto the work table with a short irradiation pathway giving maximum exposure to any fragments.
The time for the UV-light exposure can be set and adjusted thereby offering an extended lifetime for the UV tube.
Remember there is no glass which is 100 % UV-C absorbent, of whatever thickness. Some UV will always pass through.
The operator comfort is also essential, the more pleasant the work condition the safer and better the results. This is ensured by extremely low noise levels, excellent high light intensity, high working apertures and ergonomically correct seating positions.

**We can offer 3 different PCR cabinet solutions:**

**Fortuna PCR**
Clean air cabinets
In 4 sizes 900 mm to 1800 mm
Bench top or floor stands - 90 to 105 cm work heights



**Mars PCR**
Safety Class 2 cabinets Clean air with operator and environment protection
In 4 sizes 900 mm to 1800 mm
Bench top or floor stands - 90 to 105 cm work heights
TÜV approved according to EN 12469:2000



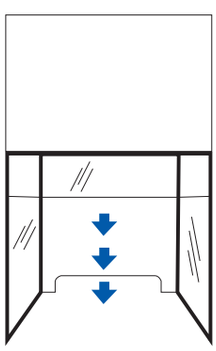
**For better operator comfort:**
Noise levels of less than 52 dBA
Sloped front and high window view

**For highest safety:**
Laminar flow for easy clean
No direct UV-C light in the lab with timer
Alarms for incorrect safety with autostart procedures

**For faster and better results:**
No cross contamination risk

**Better workspace:**
Fast cleaning
Safety glass allows all cleaning agents
Smooth rounded corners

**Titan PCR**
Clean air cabinets
67 cm wide
Bench top or on electrical elevation stands



# Fortuna Vertical Flow Cabinet 900 PCR

Fortuna is a Vertical Flow Cabinet that focuses on excellently controlled, balanced and monitored non turbulent airflow with a high light intensity and additional natural light from the side windows. An easy to clean smooth interior is provided to ensure product cleanliness is maintained.
It prevents air from blowing directly into the eyes of the operator and ensures sterility around all products in the work area.

- Maximum product protection
- Negative pressure around the HEPA filters prevents leakage even with older filter seals.
- Smooth table tops in AISI 304 for best airflow, no cross contamination and easy cleaning
- Transparent side windows of safety glass which can be prepared with holes for cables (Please specify upon ordering)
- Laminator creates excellent airflow and light distribution, excellent vibration free balanced airflow better than 0.35 m/s ± 10 %. (Variable up to 0.55 m/s)
- Fixed glass window with 35 cm work opening
- UV light integrated as standard with UV-timer which can also come with an optional easily removable locking plate for deactivation
- Easy to see and change prefilter for longer life of the main filter
- Reduced speed for the lowest noise and power consumption leaving the cabinet ready to use
- Low noise level < 52 dB(A)
- Variable light intensity 0-2000 Lux
- Visual and acoustic alarms warning if airflow is incorrect.
- Each cabinet is individually tested and has a certificate.

**Specifications:**

External dimensions (DxWxH) mm .....686x1031x1335
Working chamber, dimensions (DxWxH) mm ..... 564x900x636
Front opening, fixed mm .....350
Support Stand, height mm .....750 - 900 + 50
Air velocity, Vertical flow m/s 0,35±% .....10
Flow rate $m^3/h$ .....800
Noise level, ISO 6081 dB(A) ..... <52
Light intensity variable Lux ..... 0-2000
UV-light intensity .....254 / 15
HEPA filters ..... H-14
Voltage/frequency V/Hz .....230/50
Power W ..... 300
Fuses A ..... 8
Net weight kg.....150
Shipping volume $m^3$ .....2,2

**Accessories:**

- Electric outlets left or right side
- Support stand working height 75, 80 or 90 cm please specify
- Electrical elevation stand variable work heights from 75-105 cm
- Lock plate for closing the cabinet during deactivation

Other sizes are also available 1200, 1500 and 1800 cm wide.

# Mars Class 2 Cabinet 900 PCR

Mars is a Microbiological Safety Cabinet Class 2 that focuses on safety with an ergonomic V-shaped air input, an intelligent and informative microprocessor, high light intensity with a general view from the side windows and a cleaning interior and safe efficient UV light deactivation system.

- Produced tested and approved by TÜV according to EN 12469:2000 and BS 5726
- Maximum operator-, product- and environment protection
- Front window 20 cm or optional 30 cm with full operator protection
- Clean room design for easy cleaning inside and outside
- Divided perforated table tops and hrough in AISI 304 for best airflow and no cross contamination
- V-shaped controlled air input in the working opening in AISI 304 for higher safety
- Laminator creates excellent airflow and light distribution Excellent vibration free balanced airflow better than 0.35 m/s ± 10 % (Variable from 0.25-0.75 m/s)
- Variable light intensity from higher than 2000 Lux down to 0 giving the best working condition
- Transparent side window of hardened safety glass.
- Sloping sash window of glass with electric hoisting for best operator comfort
- UV light integrated with UV-timer – do not disturb the laminar air flow and allows complete deactivation of the chamber and table top without any direct shine of dangerours UV-c beams.
- Low noise level < 54 dB(A)
- Visual and acoustic alarms warning if any safety parameters are incorrect.
- Slim design only 79,5 cm deep and 200 cm high on support stand allowing easy transportation and full use of electrical elevation stand.
- Microprocessor controller with velocity indicator for downflow and exhaust air with digital display and is located in eye contact for the operator without disturbing the cabinet backwall

**Specifications:**

Window material, hardened/laminated glass
Cabinet material, Polyestercoated steel / AISI 304 Stainless steel.
External dimensions (DxWxH) mm..... 798x1003x1248
Working chamber, dimensions (DxWxH) mm ..... 650x900x720
Front opening, fixed mm..... 200
Working height cm ..... 75 - 105
Air velocity, Vertical flow m/s ..... 0,35
Air velocity, Deviation ±%.....10
Down Flow rate $m^3/h$ .....800
Exhaust Flow rate $m^3/h$ ..... 300
Noise level, ISO 6081 dB(A)..... <54
Light intensity variable Lux..... 0-2000
HEPA filters ..... H-14
Voltage/frequency V/Hz.....220/50 or 115/60
Power W.....600
Fuses A .....10
Net weight kg.....225
Shipping volume $m^3$.....2,2

**Accessories:**

- Electric outlets left or right side
- Support stand working height 75, 80 or 90 cm please specify
- Electrical elevation stand variable work heights from 75-105 cm
- Lock plate for closing the cabinet during deactivation
- Other accessories like carstors double exhaust availble

Other sizes are also available 1200, 1500 and 1800 cm wide.

# Titan PCR

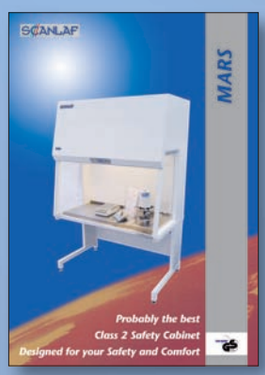
Titan PCR is compact work station and a true vertical laminar flow cabinet with build in UV-light.
UV-light ensures inactivation of RNA/DNA contaminants within a few minutes and is the safe way to reliable results during daily PCR technology.
True laminar airflow with sterile air better than class 100 eliminates the risk of cross-contamination while working but remember, full product protection over the entire working area can be valuable in other work rather than just PCR work.
The combination of UV light and sterile air together with an easy to clean chamber in stainless steel, large work opening and maximum operator comfort make the Titan a good choice.
Excellent light conditions due to sidewalls in laminated glass and built-in light tube.
An optional electrical elevation stand will make an excellent work bench with excellent work posture for sitting or standing during working periods.

**Specification:**
Pressure chamber in polyester coated steel
Table top and back wall of chamber in stainless steel 304
Front and side windows in laminated glass
Outer dimensions, DxBxH, mm: ..... 336x626x975
Working chamber, DxBxH, mm: ..... 313x574x530
Downflow, $m^3/h$ (0,40 m/s), ..... 300
Wattage A: ..... 0,2
Energy consumption/Effect, W: ..... 200
Sound level, dB(A): ..... 56
Filterdug: PETP, Pressure drop max. 40 PA v/ ..... 0.5 m/s
HEPA filter, EN 1822, H-14: ..... 99,995 % MPPS
Prefilters, quality EU 3: ..... ASHRAE 83
UV-light intensity: ..... 254/15
Weight, kg: ..... 40

**Accessories**
- Electrical elevation stand working heights from 75 cm to 105 cm

## Our other Products

SCANLAF



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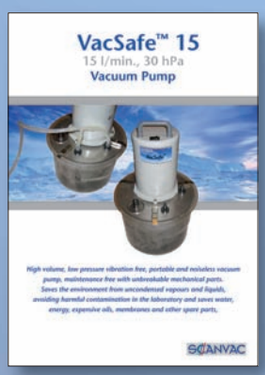


SCANLAF

Nøglegårdsvej 20, Vassingerød, DK-3540 Lynge
Phone +45 3940 2566, Mobile +45 3016 0990, Telefax +45 4498 1741
scanlaf@scanlaf.dk, www.scanlaf.dk

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