

VACUUM OVEN

VS-25SC

VS-50SC

VS-130SC

Drying in vacuum down to 1 mbar with heated shelves:

- Determination of vacuum drying process parameters
 - Low temperature evaporation
 - Drying curves determination
 - Dry mass determination
 - Pilot vacuum drying





Manual vacuum break valve

Manual valve for controlled leakage

Analog vacuum Gauge

AISI 304 Stainless steel chamber, polished to Ra(0,5µm with quick door closing mechanism and highly resistant food grade silicone seal

Fully enclosed design with powder coated exterior RAL 7035

PLC based controller. Simple and effective programming of all vacuum-drying steps, and optional manual controls. RS-232, USB or Ethernet communication port

Protection observation window

General Vacuum valve

Chamber door made of hardened glass with overpressure relive function

PT-100 on cable for sample temperature monitoring

Heated shelves Integrated heater and PID Temperature control individual for each shelf

Trolley with shelf for vacuum pump (as accessory)

Vacuum pumps:

Basic Oil rotary vane Rated capacity: 180L/min (RS9D)



Advanced Oil rotary vane Rated capacity: 5,8 m³/h (RV-5)



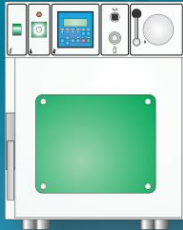
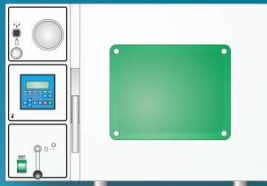
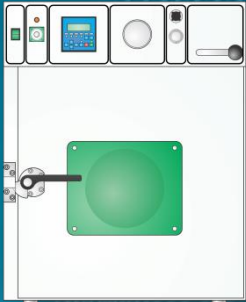
Advanced Chemistry Rated capacity: 3.4 m³/h (MD4CAKEK)



Advanced Dry Rated capacity: 12,7 m³/h (nXDS10i)



Technical data:

	VS-25 SC	VS-50 SC	VS-130 SC
			
External dimensions (WxHxD) in mm	480 x 602 x 430	730 x 510 x 495	67 x 856 x 725
Internal dimensions (WxHxD) in mm	300 x 275 x 307	405 x 340 x 370	495 x 495 x 530
Volume (L)	25	50	130
Temperature range (°C)	T _{ambient}200°C	T _{ambient}200°C	T _{ambient}200°C
Temperature display resolution (°C)	0,1	0,1	0,1
Temperature set resolution (°C)	0,1	0,1	0,1
Temperature stability (°C)	0,1	0,1	0,1
Temperature uniformity (°C)	± 0,4°C @ 60°C ± 0,7°C @ 100°C ± 0,8°C @ 150°C	± 0,7°C @ 60°C ± 0,8°C @ 100°C ± 1,1°C @ 150°C	± 0,5°C @ 60°C ± 0,6°C @ 100°C ± 1,6°C @ 150°C
Shelve	2	2	5
Shelve dimension (mm)	280 x 245	400 x 320	480 x 480
Shelve inter-distance (mm)	~80	~100	~70
Heat-up rate	~ 2 °C / min	~ 2 °C / min	~ 2 °C / min
Temperature control	PID	PID	PID
Power supply	230V ; 50 Hz	230V ; 50 Hz	3 x 400V ; 50 Hz
Wattage (W)	2000	2500	5000
Interface	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet
Access port (standard)	NW-40	NW-40	NW-40
Noise (dBA) @ 1 m distance	NA	NA	NA
Weight (kg)	53	98	236

Ordering information and accessories:

Description	Part no.
Vacuum oven VS-25 SC	202
Vacuum oven VS-50 SC	204
Vacuum oven VS-130 SC	208
Vacuum pump basic oil rotary vane 180L/min (RS9D)	1704
Vacuum pump advanced oil rotary vane 5,8m ³ /h (RV-5)	1705
Vacuum pump advanced chemistry 3,4m ³ /h (MD4CAKEK)	1707
Vacuum pump advanced dry 12,7m ³ /h (nXDS10i)	2626
USB interface	1466
Ethernet interface	1716
VS Software Monitoring & History	1663
Evaluation report	1719
Trolley for VS-25 SC	2617
Trolley for VS-50 SC	2618
Trolley for VS-130 SC	2619

