

# VACUUM OVEN

**VS-8 SC**

**VS-25 SC**

**VS-50 SC**

**VS-130 SC**

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

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

Manual valve for controlled leakage

Analog vacuum Gauge

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

Chamber door made of hardened glass with overpressure relive function

General Vacuum valve

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)

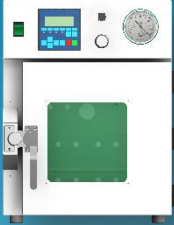
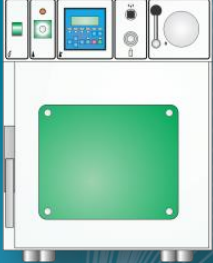
Advanced Oil rotary vane  
Rated capacity: 5,8 m<sup>3</sup>/h (RV-5)


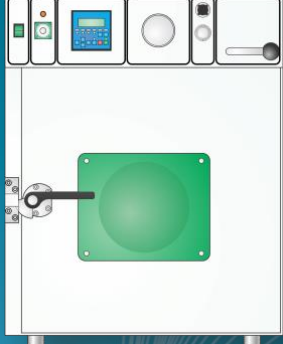
Advanced Chemistry  
Rated capacity: 3.4 m<sup>3</sup>/h (MD4CAKEK)

Advanced Dry  
Rated capacity: 12,7 m<sup>3</sup>/h (nXDS10i)



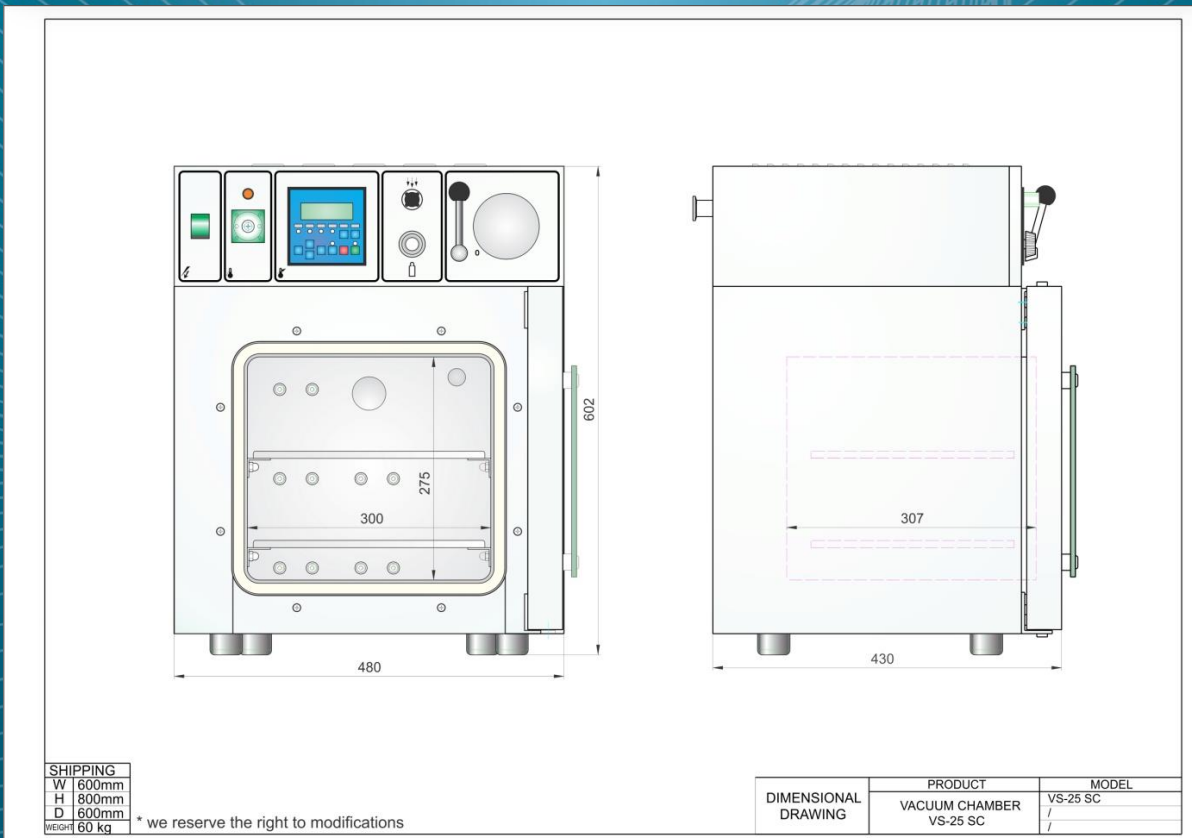
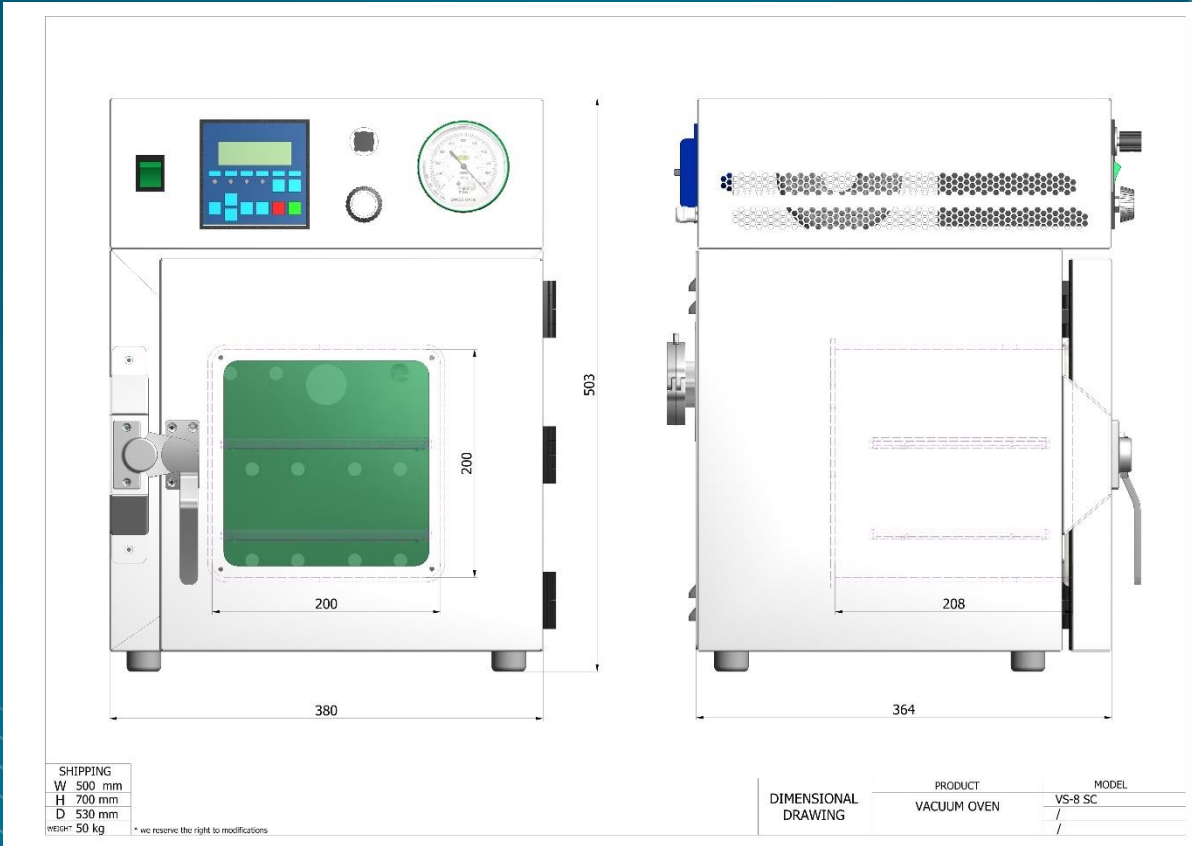
**Technical data:**

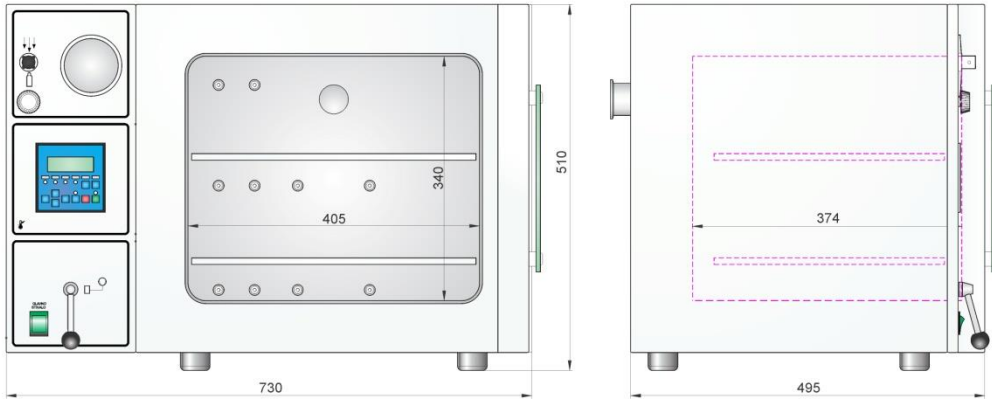
	VS-8 SC	VS-25 SC
		
External dimensions (WxHxD) in mm	390 x 500 x 425	480 x 602 x 430
Internal dimensions (WxHxD) in mm	200 x 200 x 208	300 x 275 x 307
Volume (L)	8	25
Temperature range (°C)	T <sub>ambient</sub> ...200°C	T <sub>ambient</sub> ...200°C
Temperature display resolution (°C)	0,1	0,1
Temperature set resolution (°C)	0,1	0,1
Temperature stability (°C)	0,1	0,1
Temperature uniformity (°C)	± 0,4°C @ 60°C ± 0,7°C @ 100°C ± 0,8°C @ 150°C	± 0,4°C @ 60°C ± 0,7°C @ 100°C ± 0,8°C @ 150°C
Shelve	2	2
Shelve dimension (mm)	185 x 158	280 x 245
Shelve inter-distance (mm)	~80	~80
Heat-up rate	~ 2 °C / min	~ 2 °C / min
Temperature control	PID	PID
Power supply	230V ; 50 Hz	230V ; 50 Hz
Wattage (W)	1800	2000
Interface	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet
Access port (standard)	NW-40	NW-40
Noise (dBA) @ 1 m distance	NA	NA
Weight (kg)	42	53

	VS-50 SC	VS-130 SC
		
External dimensions (WxHxD) in mm	730 x 510 x 495	675 x 856 x 725
Internal dimensions (WxHxD) in mm	405 x 340 x 370	495 x 495 x 530
Volume (L)	50	130
Temperature range (°C)	T <sub>ambient</sub> ... 200°C	T <sub>ambient</sub> ... 200°C
Temperature display resolution (°C)	0,1	0,1
Temperature set resolution (°C)	0,1	0,1
Temperature stability (°C)	0,1	0,1
Temperature uniformity (°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	5
Shelve dimension (mm)	400 x 320	480 x 480
Shelve inter-distance (mm)	~100	~70
Heat-up rate	~ 2 °C / min	~ 2 °C / min
Temperature control	PID	PID
Power supply	230V ; 50 Hz	3 x 400V ; 50 Hz
Wattage (W)	2500	5000
Interface	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet
Access port (standard)	NW-40	NW-40
Noise (dBA) @ 1 m distance	NA	NA
Weight (kg)	98	236

Ordering information and accessories:

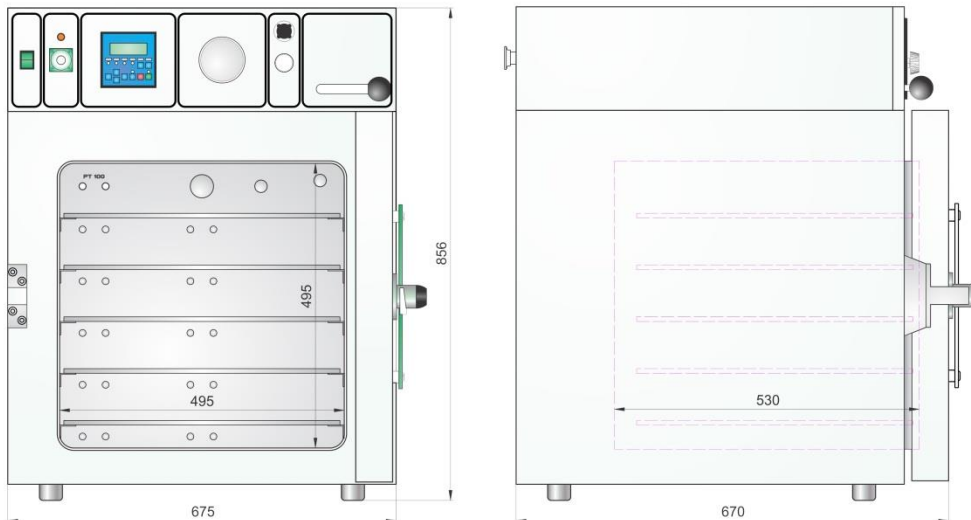
Description	Part no.
Vacuum oven VS-8 SC	220
Vacuum oven VS-25 SC	202
Vacuum oven VS-50 SC	204
Vacuum oven VS-130 SC	208
Vacuum pump basic oil rotary vane 180L/min (RS9D)	1704
Vacuum pump advanced oil rotary vane 5,8m <sup>3</sup> /h (RV-5)	1705
Vacuum pump advanced chemistry 3,4m <sup>3</sup> /h (MD4CAKEK)	1707
Vacuum pump advanced dry 12,7m <sup>3</sup> /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





SHIPPING  
W 850mm  
H 700mm  
D 650mm  
WEIGHT 100 kg \* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	VACUUM CHAMBER VS-50 SC	VS-50 SC



SHIPPING  
W 800mm  
H 1105mm  
D 950mm  
WEIGHT 250 kg \* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	VACUUM CHAMBER VS-130 SC	VS-130 SC