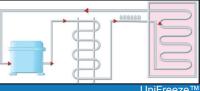
Freezer

SMART-Lab™

upright-type personal-type

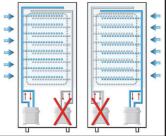
UniFreeze™ system

Single compressor ensures temperatures down to -86°C, minimized power consumption and minimized noise level.



DuoFreeze™system

The combination of a doubled Uni-Freeze™ system ensures temperatures down to -95°C. The second system also acts as backup system.



Time taken to reach low temperature:

	UniFreeze™					DuoFreeze™			
upright-type	SWUF-80	SWUF-300	SWUF-400	SWUF-500	SWUF-700	SWUF-D300	SWUF-D400	SWUF-D500	SWUF-D700
Capacity	82 I	308 I	393 I	503 I	714 I	308 I	393 I	503 I	714 I
Down to -80°C	170 min	270 min	250 min	310 min	430 min	140 min	150 min	160 min	250 min

tested with room temperature of 30°C - 33°C



Green product

RoHs certified

No hazardous substances (Pb, Cd, Hg, Hex-Cr, PBB, PBDE) are used in all UniFreeze™ and DuoFreeze™ freezers!

Natural refrigerants

Instead of using HFC refrigerants (R-134a, R-404A, R-507) all UniFreeze[™] and DuoFreeze[™] models have a specially mixed refrigerant mostly consisting of natural materials.

Power consumption

UniFreeze™ SWUF-D500	Savings	Competitor (typical)	
4,015 kWh/year	39%	6,570 kWh/year	
1,963 kgCO ₂ /year	33 /0	3,212 kgCO ₂ /year	

calculated by the electricity-specific emission factors sourced from the IEA (2011a)





- · full touch screen TFT LCD:
- WiRe[™] app service, remote control system
- variable program settings
- self-diagnosis and interactive temperature graph
- automatic data recording and password protection
- · data transfer to PC by USB memory
- digital calibration (offset function)
- min-/max-temperature memory & program function
- push-alarm service to smartphone or tablet PC

more information on page 8 - 11



Freezer

personal-type, UniFreeze™ system, SmartLab™ controller, down to -86°C, 82 I







SWUF-80 -86°C, UniFreeze™

Ideal for:

ultra low refrigeration

Features:

- personal-type compact ultra-low temperature freezer
- freeze down to -86°C
- CFC-free refrigerant
- external temperature sensor hole
- · block condenser removes filter
- filter-free mechanism lowers compressor heat
- · easy maintenance and improved performance
- high-quality insulation panel and inner doors (powder-coated stainless steel) ensure defrosting around outer surface
- stainless steel interior & powder-coated steel body
- CE, UL/CUL & RoHS certified and unique serial number for tracing

Safety mechanism:

- push alarm service to your smartphone
- sensor error detection
- door locking system, door open error
- · door ajar and power failure alarm
- standard warning and alarm functions

Controller:

- Smart-Lab™ controller with 7" touch screen TFT LCD:
- ♦ WiRe™ app service, remote control system
- variable program settings
- ♦ self-diagnostic function
- ♦ automatic data recording
- ♦ data transfer to PC by USB memory
- ♦ Internet connectivity with WiFi

vailable	44.0c	
U.		
SWU	available available	

Model	SWUF-80			
Capacity	82 I			
Temperature range & sensor	-86°C to -65°C, at 30°C room temperature & 70% humidity, PT 100 sensor			
Compressor	Hermetic type			
Condenser type	block condenser, no pin, filter-free			
Shelves	1 stainless steel shelf included			
Max. rack quantity	4 pcs. of 12 (3x4) placed rack (RFU8)			
Internal dimensions (W x D x H)	340 x 485 x 520 mm			
External dimensions (W x D x H), net weight	530 x 687 x 1060 mm, 60 kg			
Packing size (W x D x H), gross weight	960 x 760 x 1350 mm, 102 kg			
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz			
Power consumption	321 w/h			
Order number 230V	DH.SWUF0075			
Order number 120V	DH.SWUF0175			

Accessories: Suitable racks and temperature recorder can be found on page 103