

## Technical Data:

DHA-80 field housing  
DHA-80 with compressor cooled  
sample storage  
DHA-80 in box housing  
DHA-80 in mounting rack 19"



Models, dimensions	<ul style="list-style-type: none"> <li>field housing: 1355 x 600 x 250 mm (H x W x D), 60kg</li> <li>compressor cooled sample storage: 1385 x 600 x 250 mm (H x W x D), 75 kg</li> <li>box housing: 1260 x 528 x 250 mm (H x W x D), 43 kg, IP50</li> <li>mounting rack 19": 960 x 483 x 500 mm (H x W x D), 45 kg, IP50</li> </ul>
Power supply; fusing	230V +/-10%, 50Hz, max.1700VA; 10A
Specification power cable	3 x 1,0 mm <sup>2</sup> , 10 A, 250 V
Installation	category II, (standard networks)
Application range	5... 40 °C; 10 ... 90 % rH or -.20 ... 40 °C; 10 ... 95 % rH with interior heating max. operation altitude: 2000m above sea level (over 2000m above sea level on request)
Flow rate (optional)	420 - 600 l/min (100-1000l/min)
Volume flow control accuracy	< 5% of MRAV (uncalibrated)
Suction blower, average life span	36.000h
Reproducible tolerance of settings (according to UMEG report No. 6-08/00)	+/- 0,45%
Accuracy of measured flow volume	<+/- 2%
Time programs	Work, Pause (0-59999 minutes each); start time adjustable by date and time
Protection class	IP54 (field housing)
Filters	15 round filters: d=150mm, (flowing area: d=140mm); filter material quartz fibre, glass fibre, membrane filters (depending on the aim of research)
Negative pressure at 1000 l/min	max. 130 mbar
Features	automatic filter change, changer failure recognition, manual filter change, empty magazine recognition, overload cut-off, blower capacity, operating hours counter, internal data memory, remote control
Communication/Ports	USB, RS232, Ethernet, RS485, GSM module (optional)
Interface protocols	DIGITEL, Bayern-Hessen-protocol, AK-protocol, customer specific
Languages	English, German, French, Spanish
Inlet heating control	30V / 50Hz, 160 VA max.

Article numbers	Description	Art. No.
<b>Models</b>		
Field housing	Outside application	13106
Compressor cooled sample storage	Outside application, compressor cooled sample storage, cooling capacity: 150W	13343
Box housing	Installation in measuring cabin	13135
Mounting rack 19"	Installation in 19" Rack	12506
<b>Options</b>		
PAH single filter cartridge holder	Manual change, 1 cartridge (d=100x140 mm)	10976
Cartridges (for manual cartridge changer)	Glass tubes for PUF (single filter cartridge), covers, screens	13019
PAH cartridge changer (for 4 cartridges)	Automatic cartridge changer, 4 cartridges (d=60x100mm) for PU-foams, granulates, etc.	13054
Cartridges (for automatic cartridge changer)	Glass tubes for PUF (automatic cartridge changer), boxes, screens	12711
Thermo printer DTD02	Protocol printer	12516
USB Backfitting set	USB data logger to serial interface for older instruments	13102
SMS alarm option	Automatic request/dispatch of instrument data by SMS	13151
GSM Module	Transmission of instrument data (flow rate, status..) to webpage	12845
Ambient temperature sensor	To record external pressure and temperature values (for SN >1499)	12829
Ambient temperature sensor	To record external pressure and temperature values (for SN <1500)	13163
Wind sensor	For wind controlled sampling	13125
<b>Accessories</b>		
Empa TSP inlet	TSP inlet to measure total dust	12069
Heating for Empa TSP inlet		10930
PM10 inlet	For PM10 measurements, selection size: 10µm, flow rate: 30m³/h	12517
PM2,5 inlet	For PM2,5 measurements, selection size: 2,5µm, flow rate: 30m³/h	12518
Heating for PM10 + PM2,5 inlet		10929
PM1 inlet	For PM1 measurements, selection size: 1µm, flow rate: 30m³/h	12519
Heating for PM1 inlet		12755
Fly screen	Insect protection, d=208 mm, h=54 mm	20726
Satz Filterhalter	For filter diameter 150 mm (140 mm effective filter diameter)	10992
Transportcase aluminum	To transport 15 filter holders (for filters d=150 mm)	13170
Transport case blue	To transport 15 filter holders (for filters d=150 mm) and 1 baffle pot	13174
Container roof pipe feed through	Container roof pipe feed through for extension tubes with d=44mm	10829
Extension tubes	Made of emataled aluminum, d=40/44, various sizes from 0,5-2,5m	misc.
Calibration unit	420-600l/min or 100-1000l/min, incl. test certificate	13055/12577

## Spare parts

Suction blower	3-stage suction blower, 200Hz, 1520W, MTBF 36'000h	10993
Frequency converter	1,5 kW, Type V1000, for instruments with HDI2 or DMCU control unit	10921
Frequency converter	1,5 kW, Type V1000, for instruments with HVS11 control unit	13124
Photo cell	Photo cell for flow meter	12777
Display	iLCD panel - CT6448	13119

## Consumables

Glass fiber filters	Glass fiber filters with binder, d=150 mm, box of 100 pcs	10913
Quartz fiber filters	Type: QM-A, d=150 mm, box of 100 pcs	10914
Sealing set for DHA-80	Sealing set for DHA-80, incl. sealing ring for inlet	13059

Please always mention the instrument's serial number in your spare parts order.

A list with more articles can be found in our High Volume Sampler brochure or requested from: [info@digitel-ag.com](mailto:info@digitel-ag.com)

Version control unit *	Serial numbers	Year
Rotary knob (HDI)	approx. 001 – 350	1980 - 1996
Keyboard (HDI)	351 – 1159 (conversions -N)	1996 - 2008
Keyboard (DMCU)	1160 - 1212	2008 - 2009
Touch screen (DMCU)	1500 - 1585	2009 - 2011
Touch screen (DMCU), compressor cooled sample storage	5000 – 5018	2009 - 2011
Touch screen (HVS11)	from 1586 (conversions -T)	from 2011
Touch screen (HVS11), compressor cooled sample storage	from 5019	from 2011

\* The list provided above is for reference purposes only, there can be individual deviations. Therefore it's important to mention the serial number on your spare parts order.