



VAN DER HEIJDEN  
Labortechnik GmbH

**COOL SOLUTIONS - YOUR ADVANTAGE**



## **VDH-SERIES**

**LARGE TEMPERATURE RANGE,  
DIVERSE APPLICATIONS!**

**The product line of the VDH-series supplies air- as well as water-cooled models in selected versions in the temperature range 0-22° C.**

# TECHNICAL DATA:

## FEATURES AND ADVANTAGES:

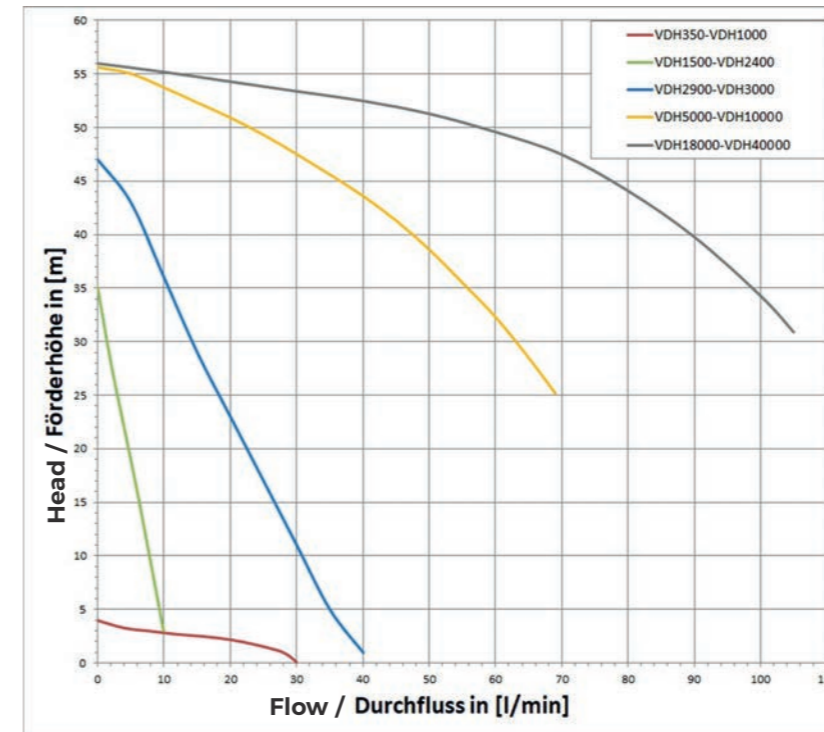
- Models are based on the best-selling cooling capacities
- Versatile temperature range down to 0 °C
- Stability between +1 °C up to +1.5 °C
- Tap water savings 100%
- Adjustable cooling water temperature
- Constant water quality / pressure
- Relatively quiet up to 5 kW
- and many more



## PERFECT COOLING FOR MANY APPLICATIONS:

- Rotary evaporator
- Water baths
- Cooling of general laboratory accessories
- Cooling of instruments
- Primary cooling
- and many more

# PUMP CURVE:



All specifications of the standard range; selected popular cooling capacities with a wider temperature range to allow easy selection of a versatile cooler for many different basic cooling applications.

From 350 watts to 38.5 kW in air and water-cooled versions.

The containers are easy to fill thanks to the large screw cap filling openings on the top of each cooling unit. The evaporation rates are very low. The amortization times are relatively short, as the KÜHLMOBIL saves considerable amounts of water per year.

Article No.	Air-cooled models	Pump capacity max.		Cooling capacity (Watt)			Temperature range (°C)	Dimensions W x D x H (mm)	Voltage
		(l/min)	(bar)	20 °C	10 °C	0 °C			
1-100945	VDH350A	28	0.4	350	250	150	0...+22	360 x 470 x 590	230V 1- 50Hz
1-100946	VDH600A	28	0.4	600	450	300	0...+22	360 x 470 x 590	230V 1- 50Hz
1-100947	VDH1000A	28	0.4	1000	800	500	0...+22	430 x 470 x 695	230V 1- 50Hz
1-100948	VDH1500A	10	3.5	1500	1100	750	0...+22	530 x 580 x 750	230V 1- 50Hz
1-100949	VDH2400A	10	3.5	2400	1750	1200	0...+22	530 x 580 x 750	230V 1- 50Hz
1-100950	VDH2900A	40	4.5	2900	2000	1300	0...+22	580 x 660 x 825	230V 1- 50Hz
1-100951	VDH3000A	40	4.5	3000	2200	1500	0...+22	590 x 620 x 1205	400V 3- 50Hz
1-100952	VDH5000A	66	5.5	5000	4300	3100	0...+22	680 x 730 x 1520	400V 3- 50Hz
1-100953	VDH7000A	66	5.5	7000	5200	3600	0...+22	800 x 850 x 1665	400V 3- 50Hz
1-100954	VDH10000A	66	5.5	10000	8300	5500	0...+22	800 x 850 x 1665	400V 3- 50Hz
1-100955	VDH18000A	100	5.6	18000	15200	11000	0...+22	1400 x 1000 x 1800	400V 3- 50Hz
1-100956	VDH35000A	100	5.6	35000	26000	18000	0...+22	1400 x 1000 x 1800	400V 3- 50Hz
1-100957	VDH40000A	100	5.6	38500	31000	23000	0...+22	1400 x 1000 x 1800	400V 3- 50Hz

Article No.	Water-cooled models	Pump capacity max.		Cooling capacity (Watt)			Temperature range (°C)	Dimensions W x D x H (mm)	Voltage
		(l/min)	(bar)	20 °C	10 °C	0 °C			
2-100330	VDH350W	28	0.4	350	250	150	0...+22	360 x 470 x 590	230V 1- 50Hz
2-100331	VDH600W	28	0.4	600	450	300	0...+22	360 x 470 x 590	230V 1- 50Hz
2-100332	VDH1000W	28	0.4	1000	800	500	0...+22	430 x 470 x 695	230V 1- 50Hz
2-100333	VDH1500W	10	3.5	1500	1100	750	0...+22	530 x 580 x 750	230V 1- 50Hz
2-100334	VDH2400W	10	3.5	2400	1750	1200	0...+22	530 x 580 x 750	230V 1- 50Hz
2-100335	VDH2900W	40	4.5	2900	2000	1300	0...+22	580 x 660 x 825	230V 1- 50Hz
2-100336	VDH3000W	40	4.5	3000	2200	1500	0...+22	590 x 620 x 1205	400V 3- 50Hz
2-100337	VDH5000W	66	5.5	5000	4300	3100	0...+22	680 x 730 x 1520	400V 3- 50Hz
2-100338	VDH7000W	66	5.5	7000	5200	3600	0...+22	680 x 730 x 1520	400V 3- 50Hz
2-100339	VDH10000W	66	5.5	10000	8300	5500	0...+22	680 x 730 x 1520	400V 3- 50Hz
2-100340	VDH18000W	100	5.6	18000	15200	11000	0...+22	800 x 850 x 1665	400V 3- 50Hz
2-100341	VDH35000W	100	5.6	35000	26000	18000	0...+22	800 x 850 x 1665	400V 3- 50Hz
2-100342	VDH40000W	100	5.6	40000	31000	23000	0...+22	800 x 850 x 1665	400V 3- 50Hz

# OPTIONS AND ACCESSORIES

## DIGITAL FLOW INDICATOR

Description	No.
Digital flow display in l/min. Readable from the front of the control unit, up to 10 l/min.	4

## REMOTE CONTROL

Description	No.	
Remote control in the desk casing for operation, control and temperature display on the remote control. The connections are on the remote control. The remote control is optional for all types; cable length up to	20 m	19A
	40 m	19B
	60 m	19C
	100 m	19D

## ELEKTRONICAL POWER REGULATION

Description	No.	
Electronic power control to keep the water supply temperature constant at 0.1 K/min. Microprocessor control with setpoint and actual value display on devices:	< 3.5 kW	1A
	< 6 kW	1B
	< 12.5 kW	1C
	< 40 kW	1D
Electronic power control via a proportional valve to extend the service life of the cooling unit when the load is reduced.	2	
Electronic power control via a clocked solenoid valve to extend the service life of the cooling unit with reduced loads.	3	

## OVERFLOW PROTECTION

Description	No.	
Overflow protection: A check valve in the flow and a solenoid valve in the return for geodetic height differences of 5 m or more, when the cooler is below the application	3/8"	27A
	1/2"	27B
	3/4"	27C
	1"	27D

## AUTOMATICAL BYPASS VALVE

Description	No.	
Automatic bypass valve between the water supply and return, which opens automatically when the set pressure is exceeded (opening pressure ... bar)	3/8"	7A
	1/2"	7B
	3/4"	7C
	1"	7D
	1 1/4"	7E
	1 1/2"	7F

## DIRT FILTER

Description	No.	
Dirt filter with sieve insert <0.25 mm, on the primary side in the water inlet	3/8"	5A
	1/2"	5B
	3/4"	5C
	1"	5D
Dirt filter with sieve insert <0.25 mm in the water flow to the unit to be cooled, easily accessible from the outside	3/8"	6A
	1/2"	6B
	3/4"	6C
	1"	6D

## POTENTIAL FREE CONTACT

Description	No.
Potential-free contact with an external plug contact as an interface that <b>opens</b> in the event of a fault	17A
Potential-free contact with an external plug contact as an interface that is <b>closed</b> in the event of a fault	17B

## AUTOMATIC SWITCHOVER

Description	No.	
Automatic switchover to the water pipe in the event of failure or power failure to maintain the cooling function	3/8"	21A
	1/2"	21B
	3/4"	21C
	1"	21D



# OPTIONS AND ACCESSORIES

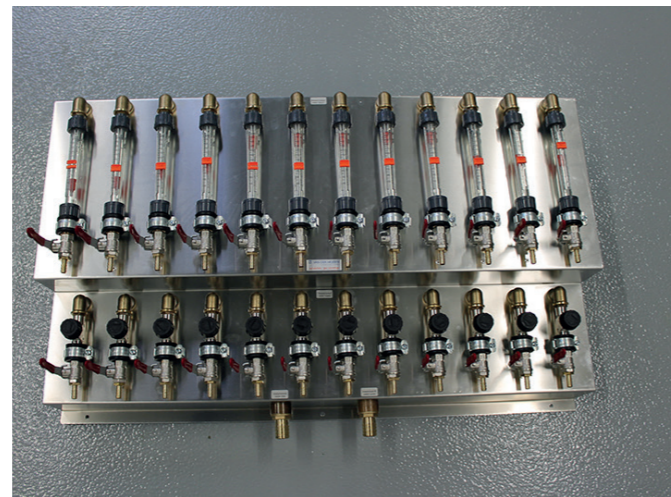


## Multiple distributors

3-way distributor with 6 x 1/2" ball valves and a flow indicator per water return. A regulating valve for volume flow regulation is also installed per water supply. Designed for external wall mounting, it can be placed anywhere. The distributor is mounted on a wall bracket and can be attached to various locations from the outside. Wall brackets are possible with up to 12 forwards and 12 returns.



3-WAY MULTIPLE DISTRIBUTOR



12-WAY MULTIPLE DISTRIBUTOR WITH REGULATION VALVE

Description multiple distributor (mounted version on the device)	No.	
Multiple distributor, 2-way with 4 ball valves	3/8"	22/2A
	1/2"	22/2B
	3/4"	22/2C
	1"	22/2D
Multiple distributor, 3-way with 6 ball valves	3/8"	22/3A
	1/2"	22/3B
	3/4"	22/3C
	1"	22/3D
Multiple distributor, 4-way with 8 ball valves	3/8"	22/4A
	1/2"	22/4B
	3/4"	22/4C
	1"	22/4D



Laboratory cooler with multiple distributors on the device

## Remote control included control unit

Remote control in the desk case with control unit B400 (with setpoint and actual value display). With plug connections to connect between cooler and remote control. The remote control is optionally available for all cooler models.

Control and temperature display on the housing. The connections are on the remote control. The remote control is optional for all types; Cable length up to 100 m.



## Functions of the control unit

- Bright O-LED display
- Easy-care and hygienic surface
- Capacitive touch technology with acoustic confirmation
- Simple control element, menu-driven and multilingual
- Acoustic alarm with reset function
- Display of error messages with detailed explanations
- Fast identification of the functional status with moving symbols and illuminated status bar
- Display of the parameter without key code
- Display of actual and target temperature simultaneously
- Interface with potential-free contact for collective alarm
- PID control characteristic for high temperature constancy of the water temperature
- Serial number of the cooler available on the display
- Can be displayed in °C or Fahrenheit with a resolution of 1/10 °
- Electronic calibration
- Delayed pump shutdown for post-cooling possible
- Drive of 3 different pumps possible in one device
- Digital volume flow in l / min readable in the control unit (as an option)
- RS 232

WE HAVE MANY MORE OPTIONS, PLEASE ASK FOR INDIVIDUAL OFFERS!

# VAN DER HEIJDEN - YOUR PARTNER IN COOLING



## Budget Friendly

Van der Heijden chillers offer very high value due to the competitive pricing, amount of delivered cooling power and the very short payback period compared with running water costs. A 2 year minimum warranty which may be extended to 3, gives reassurance of the high quality and life expectancy of the chillers.



## Eco-friendly Cooling

Our chillers save 100% water when compared to using running water cooling. Maximum energy efficiency is achieved by only using the compressor when needed. Water to water chillers do not need a compressor, delivering even more savings. Water cooled chillers do not discharge waste air to the ambient room.



## Company Experience

Van der Heijden have been manufacturing for over 40 years and has extensive knowledge and experience of cooling technology. Having developed many chiller models in close collaboration with world leading instrument manufacturers, you can be assured that we understand your requirements. German design and manufacturing but with a global service support network.



## Customised Solution

Our chillers are fully customisable with almost infinite options even for a single unit or multiple manufacture. E.g. models are available as system separators up to 150 kW cooling power, increased stability control, and many more.

Very high quality components and construction can prevent the formation of condensation on pipework during the Summer.



## Easy Operation

The units are ready to use and easy to set up. The menu shows understandable text descriptions of warnings or fault conditions and no codes.

All models are equipped with a hinged lid for easy coolant refill and easy access at service and castors for easy manoeuvrability. The temperature setting as required (can be factory set).



## High Quality

Our robust air and water-cooled chillers with a 2 mm epoxy coated metal case are suitable for 24/7 use.

A high-pressure pump feed allows good flow rates. Constant supply of water quality, temperature and pressure. Low or no noise and vibration, no fan and very low heat generation on water-cooled units. No compressor on water-water chillers.

## Contact



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