

Product range



SVK - Water chiller with a cooling capacity of 15 to 130 kW, with tank and pump. Compact design with high temperature accuracy.



TRK - Immersion chiller for cooling lubricants with a cooling capacity of 2 to 70 kW. Service-friendly in maintenance and cleaning.



LWK - Air-type water recoler without refrigeration system with a cooling capacity of 2 to 2.5 kW, with tank and pump. The low-cost alternative for applications with higher water operating temperatures.



CHILLY - cooling-water chiller with a cooling capacity of 0.8 to 4.5 kW, with tank and pump. Space-saving and reliable.

In addition to our standard product range, we offer you solutions for liquid cooling in all industrial applications.

Our systems are available in compact or split design, air or water cooled.

Continuous-flow recoolers and expansions with cleanable plate-type heat exchangers are just as available as versions with special voltages.

Our sales team of engineers and technicians is always available to you for comprehensive consultation. Do not hesitate, we are awaiting your enquiry!

HYFRA Industriekühlanlagen GmbH

Industriepark 54 · D-56593 Kunkel

Phone: +49 (0) 26 87 / 8 98-0 · Fax: +49 (0) 26 87 / 8 98-25 · eMail: info@hyfra-pedia.de

www.hyfra-pedia.com

VWK

VWK
Shell & Tubes

SVK

TRK

CHILLY

VWK
Desk Unit

LWK

Special



VWK-D

Shell & Tubes Chiller

Plug-in plug-out water chiller
Cooling capacity from 2 to 70 kW



Competence and experience in industrial cooling systems

VWK Shell & Tubes Chiller

Standard equipment:

- Emulsion / oil cooling
- Stainless steel frame
- Copper-nickel plated evaporator
- Chiller IP 54
- Operating temp. 37° C ambient
- High tech scroll compressor / low noise
- High efficiency air cooled condenser
- Digital thermostat hysteresis +/- 1,0 K
- Refrigerant circuit with TÜV approved low and high pressure switch
- All systems with control transformer, no neutral required
- Environment friendly refrigerant R407C
- CH-pump with carbide / carbide shaft seal
- CR-pump with carbide / carbide shaft seal for oil
- Panels in RAL paint upon request
- Flow switch
- Antifreeze thermostat
- Easy cleanable evaporator

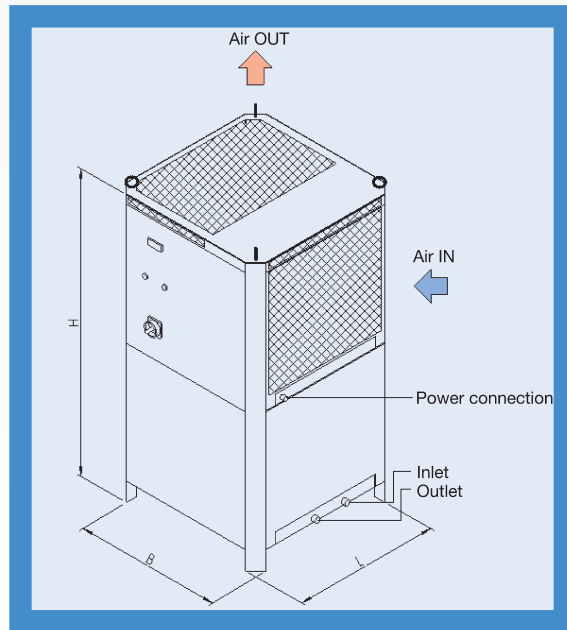


Shell & Tubes evaporator



Options:

- DC voltage - control circuit
- Fluid outlet manometer
- Winter start up regulation (0-50-100%)
- Special voltage
- By-Pass valve
- Centrifugal fan for high air pressure
- Common alarm (potential free)
- Fluid set point +40° C max.
- Shut off valves (inlet/outlet)
- Wire labeling
- Harting connectors / plugs
- Refrigerant R 134 A
- Hysteresis +/- 0,3 K
- Air filter
- Stop process with low/high temperature alarm
- Operating temperature > 37° C ambient
- Gear pump



Technical data

Cooling capacities

Temperature			VWK 20-D	VWK 30-D	VWK 50-D	VWK 70-D	VWK 90-D	VWK 110-D	VWK 140-D	VWK 180-D	VWK 220-D	VWK 270-D	VWK 320-D	VWK 360-D	VWK 440-D	VWK 540-D	VWK 640-D
Ambient air	Emulsion	Oil	Cooling capacities in kW														
32° C	10° C	15° C	1,9	3,2	5,2	6,6	9,7	11,8	14,1	17,6	22,1	26,4	32,1	35,3	44,3	52,8	64,3
	15° C	20° C	2,4	4,0	6,2	7,8	11,5	13,9	16,6	20,0	25,3	29,9	37,0	40,0	50,7	59,9	74,1
	20° C	25° C	2,7	4,5	6,9	8,7	12,6	15,4	18,3	21,7	28,0	33,5	41,5	43,5	56,0	67,1	83,1
37° C	10° C	15° C	1,8	2,8	5,1	6,0	9,1	10,9	13,1	16,7	20,2	23,9	29,6	33,4	40,5	47,9	59,2
	15° C	20° C	2,5	3,6	6,1	7,2	10,7	13,0	15,7	20,0	23,9	28,2	34,9	40,0	47,8	56,5	69,8
	20° C	25° C	3,02,6	4,1	6,7	7,9	11,8	14,4	17,2	21,7	25,6	31,1	37,9	43,5	51,3	62,4	75,9
42° C	10° C	15° C	1,7	3,2	4,7	5,9	8,7	9,1	12,9	15,6	19,6	22,9	25,0	31,4	39,3	45,8	50,0
	15° C	20° C	2,1	3,4	5,7	7,1	10,2	11,4	15,4	18,5	23,5	27,4	30,9	37,0	47,1	54,9	61,9
	20° C	25° C	2,6	3,9	6,4	7,9	11,2	13,0	17,0	20,4	25,6	30,2	35,0	40,9	51,3	60,6	70,0

All standard machines are specified for a maximum ambient temperature of + 37° C.
*) Machines for + 42° C maximum ambient temperature are available at extra cost.
Machine sizes will not change.

Specification for emulsion

		VWK 20-DE	VWK 30-DE	VWK 50-DE	VWK 70-DE	VWK 90-DE	VWK 110-DE	VWK 140-DE	VWK 180-DE	VWK 220-DE	VWK 270-DE	VWK 320-DE	VWK 360-DE	VWK 440-DE	VWK 540-DE	VWK 640-DE
Number of Scroll-compressors		1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
Power consumption compressor max.	kW	2,0	2,0	2,6	3,1	4,3	5,9	6,2	7,9	9,7	11,1	14,6	15,6	19,4	22,2	29,2
Power consumption max.	kW	2,9	3,0	3,8	4,1	5,5	7,5	7,9	10,1	11,9	13,3	17,4	19,7	23,3	26,1	34,4
Current max.	A	5,6	5,6	7,0	7,4	9,9	13,4	13,7	17,9	20,5	22,9	29,5	34,8	40,0	44,8	58,0
Air flow rate max.	m³/h	2300	2800	4500	2600	4300	5500	5800	9300	9300	9300	11000	18600	18600	18600	22000
Pump inlet pressure	m	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Fluid pressure	bar	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Nominal fluid flow	m³/h	3,5	3,5	3,5	3,5	3,5	3,5	6,5	6,5	6,5	6,5	6,5	13,0	13,0	13,0	13,0
Pump type	Grundfos	CH 4-20	CH 4-20	CH 4-20	CH 4-20	CH 4-20	CH 4-20	CH 8-20	CH 8-20	CH 8-20	CH 8-20	CH 8-20	CH 8-20	CH 12-20	CH 12-20	CH 12-20
Fluid connection inlet/outlet	inch	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Length (L)	mm	715	715	715	715	715	715	1000	1000	1000	1000	1000	2000	2000	2000	2000
Width (B)	mm	715	715	715	715	715	715	1000	1000	1000	1000	1000	1000	1000	1000	1000
Height (H)	mm	1375	1375	1375	1375	1375	1375	2000	2000	2000	2000	2000	2000	2000	2000	2000
Weight (approx.)	kg	170	170	180	180	200	200	320	370	400	400	410	740	800	800	810

Power supply 3/PE/400 V/50 Hz. Control voltage 24 V AC. All technical data is valid for machines with a maximum ambient temperature of + 42° C.

Specification for oil

		VWK 20-DÖ	VWK 30-DÖ	VWK 50-DÖ	VWK 70-DÖ	VWK 90-DÖ	VWK 110-DÖ	VWK 140-DÖ	VWK 180-DÖ	VWK 220-DÖ	VWK 270-DÖ	VWK 320-DÖ	VWK 360-DÖ	VWK 440-DÖ	VWK 540-DÖ	VWK 640-DÖ
Number of Scroll-compressors		1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
Power consumption compressor max.	kW	2,0	2,0	2,6	3,1	4,3	5,9	6,2	7,9	9,7	11,1	14,6	15,6	19,4	22,2	29,2
Power consumption max.	kW	3,0	3,2	4,0	4,3	5,7	7,6	8,0	10,1	11,9	13,3	17,5	20,7	24,3	27,1	35,4
Current max.	A	5,8	5,9	7,2	7,7	10,1	13,6	14,2	18,4	21,0	23,4	30,0	37,4	42,6	47,4	60,6
Air flow rate max.	m³/h	2300	2800	4500	2600	4300	5500	5800	9300	9300	9300	11000	18600	18600	18600	22000
Pump inlet pressure	m	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Fluid pressure	bar	1,5	1,5	1,5	1,5	1,5	1,5	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Nominal fluid flow	m³/h	5,0	5,0	5,0	5,0	5,0	5,0	10,0	10,0	10,0	10,0	10,0	20,0	20,0	20,0	20,0
Pump type	Grundfos	CR 5-4	CR 5-4	CR 5-4	CR 5-4	CR 5-4	CR 5-4	CR 8-20	CR 8-20	CR 8-20	CR 8-20	CR 8-20	CR 32-1	CR 32-1	CR 32-1	CR 32-1
Fluid connections inlet/outlet	inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2	2	3	3	3	3
Length (L)	mm	715	715	715	715	715	715	1000	1000	1000	1000	1000	2000	2000	2000	2000
Width (B)	mm	715	715	715	715	715	715	1000	1000	1000	1000	1000	1000	1000	1000	1000
Height (H)	mm	1375	1375	1375	1375	1375	1375	2000	2000	2000	2000	2000	2000	2000	2000	2000
Weight (approx.)	kg	170	170	180	180	200	200	320	370	400	400	410	740	800	800	810

Power supply 3/PE/400 V/50 Hz. Control voltage 24 V AC. All technical data is valid for machines with a maximum ambient temperature of + 42° C.

Specifications subject to change.
Viscosity: max 100 mm²/s

Competence and experience in industrial cooling systems