

## Water chiller IK-V (fully-hermetic) for ambient temperatures up to 42°C



Water chiller IK-V 18

### IK-V 2 to IK-V 70

Systems for indoor and outdoor installation from 2,3 to 81,5kW cooling power. Systems of this size incorporate decades of experience in refrigeration engineering and modern production methods and set standards in economics and reliability.

Fine tuning of cooling power and pump performance ensures a high degree of trouble-free operation.



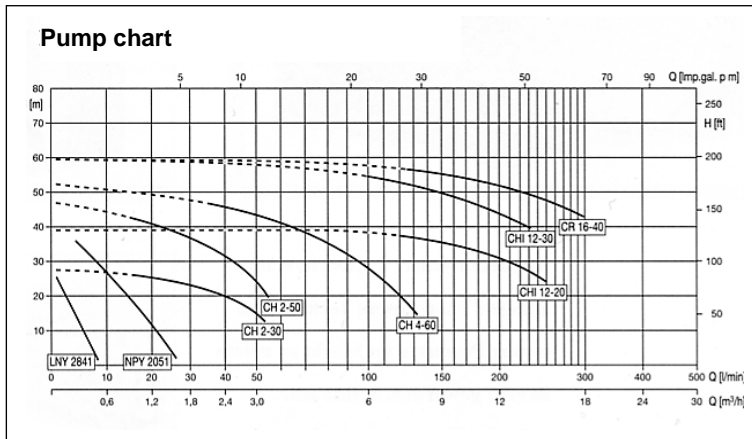
Inside view IK-V 2 to IK-V 5

### Technical Data

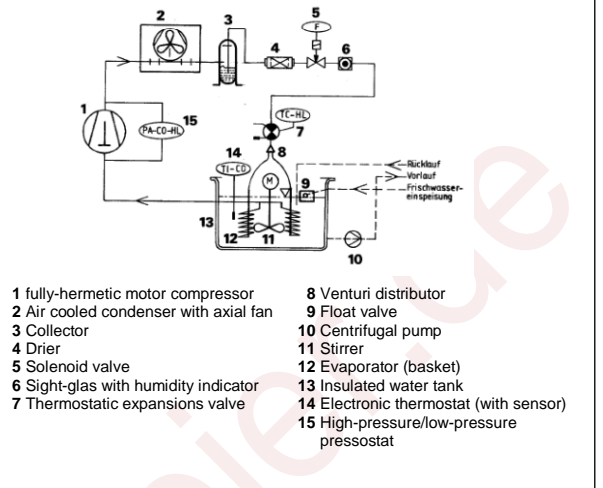
Type		IK-V 2	IK-V 3	IK-V 5	IK-V 7	IK-V 9	IK-V 13	IK-V 18
Refrigerant		R 134a	R 134a	R 134a	R 134a	R 134a	R 404a	R 404a
Nominal output	kcal/h*	2.000	3.200	5.200	7.800	9.750	13.000	18.000
Nominal output	kW*	2,3	3,7	6,1	9,1	11,3	15,1	20,9
Pump type		CH 2-30	CH 2-30	CH 2-30	CH 2-50	CH 2-50	CH 4-60	CH 4-60
Pump output	kW	0,33	0,33	0,33	0,50	0,50	1,05	1,05
Basin capacity	ltr.	87	87	87	140	140	300	300
Pipe connection		R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 1"	R 1"
Connected power	kW	1,60	2,40	2,80	4,50	5,10	8,50	10,60
Rated voltage	V/Hz	1x230/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50
Control voltage	V	230 AC	24 AC	24 AC	24 AC	24 AC	24 AC	24 AC
Maximum current	A	10,2	5,5	6,5	8,3	10,4	17,3	21,3
Dimensions	length	mm	730	730	730	860	1470	1470
	width	mm	675	675	675	760	730	730
	height	mm	1165	1165	1165	1370	1560	1560
Weight ca.	kg	148	152	165	205	220	420	465

Type		IK-V 23	IK-V 28	IK-V 34	IK-V 40	IK-V 50	IK-V 60	IK-V 70
Refrigerant		R 404a	R 404a	R 404a	R 404a	R 404a	R 404a	R 404a
Nominal output	kcal/h*	23.800	28.000	34.000	40.000	50.000	60.000	70.000
Nominal output	kW*	27,7	32,5	39,5	46,5	58,2	70,0	81,5
Pump type		CH 4-60	CHI 12-20	CHI 12-20	CHI 12-30	CHI 12-30	CHI 12-30	CHI 12-30
Pump output	kW	1,05	1,76	1,76	2,67	2,67	2,67	2,67
Basin capacity	ltr.	500	500	500	500	500	500	500
Pipe connection		R 1"	R 1 1/4"	R 1 1/4"	R 1 1/2"	R 1 1/2"	R 1 1/2"	R 1 1/2"
Connected power	kW	13,70	16,90	16,90	21,40	27,30	32,80	32,80
Rated voltage	V/Hz	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50	3x400/N/PE/50
Control voltage	V	24 AC	24 AC	24 AC	24 AC	24 AC	24 AC	24 AC
Maximum current	A	26,4	31,8	32,1	42,8	52,2	61,6	61,6
Dimensions	length	mm	1670	1670	1910	1910	2460	2460
	width	mm	930	930	1130	1130	1380	1380
	height	mm	1790	1790	1900	1900	2050	2050
Weight ca.	kg	540	620	780	850	1.100	1.300	1.600

\* The mentioned cooling capacity refers to an ambient temperature of +32°C, the water inlet temperature is +15°C. If the water inlet temperature is lower, the cooling capacity decrease about 3% per °C.



**Schematic Diagramm**



**Standard equipment water chiller between IK-V 2 to IK-V 70:**

- **Electronic thermostat with LCD Display**  
soll- and ist-value display in steps of 0,1°C  
with integrated status display 1 - 4 and error detection system F1 - F5
- **Motor compressor fully-hermetic**
- **Cu-snake tube evaporator**
- **Insulated water tank**  
(IK-V 2 to IK-V 7 with stainless steel tank)
- **Insulated closed bottom plate**
- **Air cooled lamella-capacitor with axial fan**
- **Float valve for fresh water supply**
- **Water level display outside**
- **Paint: blue, similar to RAL 5012 structural**



**thermostat MRF**

**Versions:**

- **Systems with water cooled condenser IK-H\_W**  
for connection to a water circulation system
- **Systems with a flow evaporator IK-H\_D**
- **Systems with radial fan IK-H\_R**  
for connection to an available ventilation system
- **Systems with noise reduction IK-V\_L**  
for use in laboratories, ca. 10dB(A) lower

Over and above this our units can be supplied with accessories, e.g., with special pumps, special paint color, in stainless steel, liquid circuit for corrosive agents, units with special voltage, units with a heating and much more ...