

Water chiller IK-H (semi-hermetic) for ambient temperatures over 42°C



Water chiller IK-H 11

IK-H 2 to IK-H 115

Systems for indoor and outdoor installation from 1,7 to 150 kW cooling power. These are top of the range liquid recoolers. In principle the design corresponds with units with fully-hermetic motorised compressors. With semi-hermetic equipment it is possible to use the refrigeration system at ambient temperatures higher than 42°C. The compressors are particularly tough and are suitable for operation under extreme conditions.



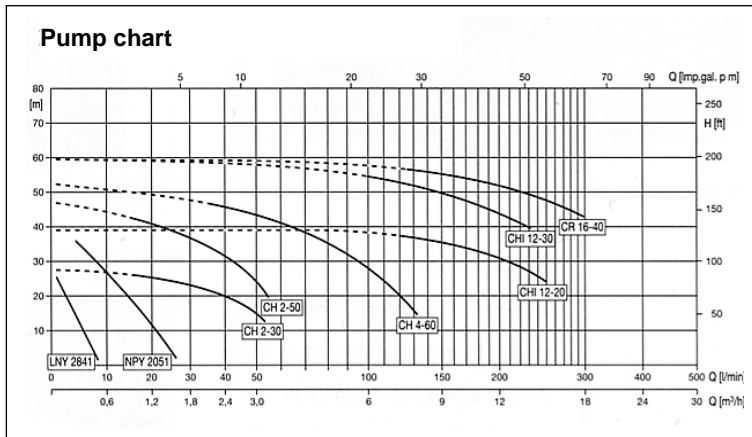
Inside view IK-H 2 to IK-H 5

Technical Data

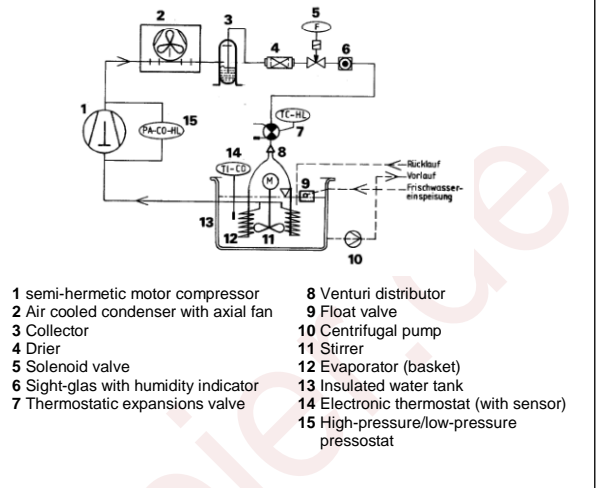
Type		IK-H 2	IK-H 3	IK-H 5	IK-H 7	IK-H 9	IK-H 11	IK-H 15
Refrigerant		R 134a	R 134a	R 134a	R 134a	R 134a	R 134a	R 134a
Nominal output	kcal/h*	2.100	3.700	5.900	7.600	9.500	11.200	15.000
Nominal output	kW*	2,44	4,3	6,85	8,84	11,04	13,03	17,5
Pump type		CH 2-30	CH 2-50	CH 2-50	CH 2-50	CH 2-50	CH 4-60	CH 4-60
Pump output	kW	0,33	0,50	0,50	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	1,71	2,59	3,72	4,95	5,92	7,18	8,05
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	3,9	6,2	8,0	9,8	11,8	16,9	16,8
Dimensions	length	mm	730	730	860	860	1470	1470
	width	mm	675	675	760	760	730	930
	height	mm	1165	1165	1370	1520	1560	1790
Weight ca.	kg	160	180	270	280	390	390	610

Type		IK-H 19	IK-H 22	IK-H 28	IK-H 35	IK-H 45	IK-H 55	IK-H 65
Refrigerant		R 134a	R 134a	R 134a	R 134a	R 134a	R 134a	R 134a
Nominal output	kcal/h*	19.000	22.500	28.000	35.000	45.000	55.000	65.000
Nominal output	kW*	22,1	26,2	32,6	40,7	52,3	63,9	75,6
Pump type		CH 4-60	CHI 4-60	CHI 12-20	CHI 12-20	CHI 12-30	CHI 12-30	CHI 12-30
Pump output	kW	1,05	1,05	1,76	1,76	2,67	3,50	3,50
Basin capacity	ltr.	500	500	500	500	500	500	500
Pipe connection		R 1"	R 1"	R 1 1/4"	R 1 1/4"	R 1 1/2"	R 1 1/2"	R 1 1/2"
Connected power	kW	9,41	10,53	13,38	15,79	24,85	30,31	34,01
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	18,7	24,1	27,0	34,5	50,4	60,5	73,7
Dimensions	length	mm	1670	1670	1910	1910	1800	2460
	width	mm	930	930	1130	1130	1100	1380
	height	mm	1790	1790	1900	1900	2050	2050
Weight ca.	kg	630	650	750	890	1.250	1.450	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-H 2 to IK-H 115:

- **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 semi-hermetic**
- **Cu-snake tube evaporator**
- **Insulated water tank**
(IK-H 2 to IK-H 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

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 ...