

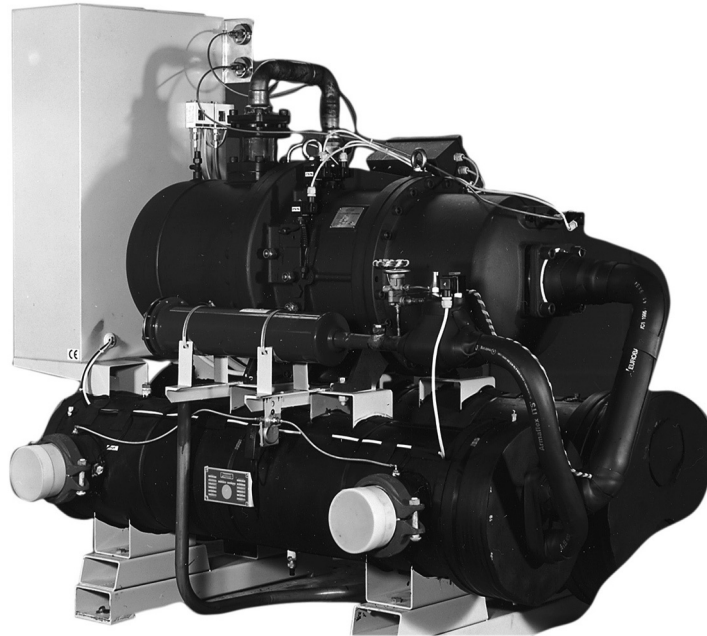
WATER CHILLERS - R407C

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE OR TWO CIRCUITS

RWH...K

Refrigerant R407C - Version K

Cooling capacities from 135 to 1590 kW



RWH 351K

- The units series RWH are suitable for water cooling in industrial processes and air conditioning systems.
- They are assembled in a compact housing which support the compressors and in which shell & tube evaporators are integrated; pipes are made in copper or, for higher capacities, in steel.
- One or two cooling circuits
- Available versions:
 - PWH...K heat pump version with cycle inversion on the hydraulic circuit
 - RWH...K.RT version with total heat recovery

Provided with

- Compressors of semihermetic screw type equipped with capacity steps, oil crankcase heater and motor thermal protection
- Shell & tube evaporator
- Shell & tube condenser
- Electric panel, in compliance with CE norms, supplied with main switch lock-door safety type and with protection fuses
- Components of cooling circuit
 - copper or carbon steel pipes, thermostatic valve, dehydrating filter, shut-off valve on liquid line, shut-off valve on compressors discharge, non return valve on compressors discharge, sight-glass, high and low pressure safety valves, high pressure gauges, high and low pressure switches
- Microprocessor EMIPPLUS

Options:

- A Amperometer
- CA Condenser for seawater
- CC Unit with insulated condensers
- CF Soundproofing fairing
- CFU Sound fairing with silencer

- CI Soundproofing compressors
- CS Compressor pickup counter
- DQ Additional box for supply connection
- DS Closed transition star/delta
- EA Extractable tube evaporator
- IE Wooden cage
- IG Watch card
- IH-IB Serial interface RS 485/422
- IM Seawood packing
- IR Packing with wooden pallet
- KS Kit of lifting
- KT Kit of lifting with thongs
- LI Liquid injection
- M12, M25 Capacity steps of the modulating type
- MA Electrical power supply 230 V / 3 Ph / 50 Hz
- MH Elec. power supply 500V/3F/50Hz
- OS Compressor oil level switch
- PA Rubber type vibration dampers available up to 692 model
- PF Safety water flow switch
- PM Spring type vibration dampers available for all models
- PQ Remote microprocessor
- RA Antifreeze heating coil inside the evaporator
- RF Rephasing system cosφ
- RH Shut-off valve on compressors suction
- RL Compressor overload relais
- RP Partial heat recovery
- RT Total heat recovery
- TC Fish joint and welding coupling for condensers
- TE Electronic thermostatic valve
- V Voltmeter
- VB Brine Version - Low temp.
- VS Solenoid valve

WATER CHILLERS - R407C

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE OR TWO CIRCUITS

RWH...K Technical data

MODEL RWH...K		141K	171K	211K	271K	351K	441K	501K	601K	801K
Cooling capacity 1)	kW	136.4	170.6	210.2	265.0	348.9	435.5	499.4	599.3	798.7
Absorbed capacity	kW	33.9	42.6	52.3	65.9	85.7	107.3	120.3	143.9	184.6
Heating capacity 3)	kW	159.1	199.2	245.3	309.1	405.9	507.0	578.2	693.3	nd
[Shell and tube evaporator]										
Quantity	n	1	1	1	1	1	1	1	1	1
Water/gas circuits	n/n	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Water flow	l/s	6.52	8.15	10.04	12.66	16.67	20.81	23.86	28.63	38.16
Pressure drop	kPa	47	33	41	27	40	33	33	41	48
Water volume	l	46	60	57	101	96	95	133	180	274
[Shell and Tube condenser]										
Quantity	n	1	1	1	1	1	1	1	1	1
Water flow	l/s	8.1	10.2	12.5	15.8	20.8	25.9	29.6	35.5	47
Pressure drop	kPa	8	8	8	8	8	8	8	8	9
Refrigerant charge	kg	23	22	41	39	68	65	28	80	147
Sound pressure level 2)	dB(A)	73	73	75	77	78	78	79	80	81
[Screw compressors]										
Number of compressors	n	1	1	1	1	1	1	1	1	1
Capacity steps - standard	%	G2 - 0 / 50 / 100								
Capacity steps - optional	%	M25 - Modulating from 25 to 100								
Nominal input current	A	59	74	90	114	148	185	208	248	319
Max input current	A	80	100	123	155	202	252	282	338	434
Inrush current (direct)	A	390	522	582	828	995	1305	1467	1884	2340
Inrush current (star/delta)	A	128	165	171	216	294	333	480	630	760
[Dimensions]										
Length	mm	2650	2650	2700	2700	3570	2700	3500	3500	3500
Width	mm	840	840	840	840	900	900	900	900	940
Height	mm	1490	1490	1565	1565	1665	1665	1570	1560	1680
Transport weight	kg	1089	1193	1412	1561	1954	2125	2284	2405	3013
Weight during operation	kg	1135	1253	1469	1662	2051	2220	2417	2585	3287
[Version with total heat recovery]										
Cooling capacity 3)	kW	120.6	150.8	185.8	234.3	308.5	385	441.4	529.8	na
Absorbed capacity	kW	38.6	48.4	59.5	74.9	97.5	122	136.8	163.6	na
Heating capacity 3)	kW	159.1	199.2	245.3	309.1	405.9	507	578.2	693.3	na
Water flow at evaporator	l/s	5.76	7.21	8.88	11.19	14.74	18.39	21.09	25.31	na
Evaporator pressure drop	kPa	37	25	34	21	33	26	26	32	na
Water flow at recuperator	l/s	7.60	9.52	11.72	14.77	19.39	24.22	27.63	33.13	na
Recuperator pressure drop	kPa	7	7	7	7	7	7	7	7	na
Refrigerant charge	kg	35	64	61	55	130	121	117	116	na
[Dimensions]										
Length	mm	2650	2700	2700	2700	3570	3500	3500	3500	nd
Width	mm	840	840	955	840	900	900	900	900	nd
Height	mm	1490	1565	1665	1665	1665	1665	1665	1665	nd
Transport weight	kg	1222	1511	1655	1825	2222	2406	2680	2785	nd
Weight during operation	kg	1268	1570	1712	1926	2318	2500	2813	2965	nd
Power supply		400V/50Hz/3Ph+T								

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C.

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C

WATER CHILLERS - R407C

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE OR TWO CIRCUITS

RWH...K Technical data

MODEL RWH...K		272 K	312 K	342 K	382 K	422 K	482 K	532 K	622 K	702 K
Cooling capacity 1)	kW	272.8	307.0	341.2	380.8	420.3	475.2	530.0	613.9	697.9
Absorbed capacity	kW	67.9	76.5	85.2	94.9	104.7	118.2	131.7	151.6	171.4
Heating capacity 3)	kW	318.3	358.4	398.5	444.5	490.6	554.4	618.3	715.1	811.8
[Shell and tube evaporator]										
Quantity	n	1	1	1	1	1	1	1	1	1
Water/gas circuits	n/n	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water flow	l/s	13.03	14.67	16.30	18.19	20.08	22.70	25.32	29.33	33.34
Pressure drop	kPa	48	38	40	29	40	38	33	33	52
Water volume	l	96	94	92	141	138	131	128	158	150
[Shell and Tube condenser]										
Quantity	n	2	2	2	2	2	2	2	2	2
Water flow	l/s	16.30	18.30	20.40	22.70	25.10	28.30	31.60	36.60	41.50
Pressure drop	kPa	10	7	9	9	9	7	8	8	8
Refrigerant charge	kg	48	44	44	85	83	96	96	93	90
Sound pressure level 2)	dB(A)	76	76	76	77	78	79	80	80	81
[Screw compressors]										
Number of compressors	n	2	2	2	2	2	2	2	2	2
Capacity steps - standard	%	G4 - 0 / 25 / 50 / 75 / 100								
Capacity steps - optional	%	M12 - Modulating from 12,5 to 100								
Nominal input current	A	118	133	148	164	180	204	228	262	296
Max input current	A	160	180	200	223	246	278	310	357	404
Inrush current (direct)	A	449	581	596	656	672	918	942	1109	1143
Inrush current (star/delta)	A	187	224	239	245	261	306	330	408	442
[Dimensions]										
Length	mm	3350	3350	3350	3350	3350	3800	3800	3750	3720
Width	mm	700	700	700	920	900	1000	1000	1000	1000
Height	mm	1485	1485	1485	1710	1530	1690	1690	1700	1685
Transport weight	kg	1931	2023	2084	2539	2678	2729	2831	3096	3316
Weight during operation	kg	2027	2117	2175	2680	2816	2860	2959	3254	3466
[Version with total heat recovery]										
Cooling capacity 3)	kW	241.1	271.4	301.7	336.6	371.6	420.1	468.5	542.7	616.9
Absorbed capacity	kW	77.2	87.0	96.8	107.9	119.0	134.4	149.7	172.3	194.9
Heating capacity 3)	kW	318.3	358.4	398.5	444.5	490.6	554.4	618.3	715.1	811.8
Water flow at evaporator	l/s	11.52	12.97	14.41	16.08	17.75	20.07	22.39	25.93	29.47
Evaporator pressure drop	kPa	35	30	30	24	29	27	27	25	41
Water flow at recuperator	l/s	15.2	17.1	19	21.2	23.4	26.5	29.5	34.2	38.8
Recuperator pressure drop	kPa	9	7	7	8	8	6	7	7	7
Refrigerant charge	kg	90	86	81	164	160	155	148	142	137
[Dimensions]										
Length	mm	3350	3350	3350	3620	3620	3800	3800	3800	3800
Width	mm	700	700	700	1000	1000	1000	1000	1000	1000
Height	mm	1445	1445	1445	1780	1780	1780	1780	1780	1780
Transport weight	kg	2107	2188	2273	2876	3018	3154	3279	3550	3776
Weight during operation	kg	2202	2282	2364	3017	3156	3285	3407	3708	3926
Power supply		400V/50Hz/3Ph+T								

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C.

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C

WATER CHILLERS - R407C

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE OR TWO CIRCUITS

RWH...K Technical data

MODEL RWH...K		792 K	872 K	942 K	1002 K	1102 K	1202 K	1402 K	1602 K
Cooling capacity 1)	kW	784.4	871.0	934.9	998.8	1098.6	1198.5	1397.9	1597.4
Absorbed capacity	kW	193.0	214.6	227.6	240.6	264.2	287.7	328.5	369.2
Heating capacity 3)	kW	912.9	1014.0	1085.2	1156.4	1271.5	1386.6	nd	nd
[Shell and tube evaporator]									
Quantity	n	1	1	1	1	1	1	1	1
Water/gas circuits	n/n	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water flow	l/s	37.48	41.62	44.67	47.72	52.49	57.26	66.79	76.32
Pressure drop	kPa	41	29	37	45	32	41	19	28
Water volume	l	474	469	464	460	445	440	648	637
[Shell and Tube condenser]									
Quantity	n	2	2	2	2	2	2	2	2
Water flow	l/s	46.70	51.90	55.50	59.20	65.10	71.00	82.50	94.00
Pressure drop	kPa	8	9	8	8	8	8	9	9
Refrigerant charge	kg	120	126	177	121	122	173	302	295
Sound pressure level 2)	dB(A)	81	81	82	82	83	83	84	84
[Screw compressors]									
Number of compressors	n	2	2	2	2	2	2	2	2
Capacity steps - standard	%	G4 - 0 / 25 / 50 / 75 / 100							
Capacity steps - optional	%	M12 - Modulating from 12,5 to 100							
Nominal input current	A	333	370	393	416	492	568	603	638
Max input current	A	454	504	534	564	620	676	772	868
Inrush current (direct)	A	1453	1490	1652	1675	2092	2168	2624	2659
Inrush current (star/delta)	A	481	518	665	688	838	914	1044	1079
[Dimensions]									
Length	mm	4200	4200	4450	4345	4345	4345	4600	4600
Width	mm	1200	1200	1200	1200	1200	1200	1200	1200
Height	mm	2090	2090	2090	2090	2090	2090	2190	2190
Transport weight	kg	4081	4208	4536	4686	4765	4873	5783	6138
Weight during operation	kg	4555	4677	5000	5146	5210	5313	6431	6775
[Version with total heat recovery]									
Cooling capacity 3)	kW	693.4	770.0	826.4	882.9	971.2	1059.5	na	na
Absorbed capacity	kW	219.5	244.0	258.8	273.5	300.3	327.1	na	na
Heating capacity 3)	kW	912.9	1014.0	1085.2	1156.4	1271.5	1386.6	na	na
Water flow at evaporator	l/s	33.13	36.79	39.49	42.18	46.4	50.62	na	na
Evaporator pressure drop	kPa	32	23	29	35	25	32	na	na
Water flow at recuperator	l/s	43.6	48.4	51.8	55.3	60.8	66.3	na	na
Recuperator pressure drop	kPa	7	8	7	7	7	7	na	na
Refrigerant charge	kg	271	263	254	245	247	244	na	na
[Dimensions]									
Length	mm	4200	4000	4450	4450	4450	4450	na	na
Width	mm	1200	1200	1200	1200	1200	1200	na	na
Height	mm	2190	2190	2190	2190	2190	2190	na	na
Transport weight	kg	4841	4890	5263	5494	5591	5653	na	na
Weight during operation	kg	5315	5449	5727	5954	6036	6093	na	na
Power supply		400V/50Hz/3Ph+T							

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C.

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C

WATER CHILLERS - R134a

WATER COOLED CHILLERS

WITH SCREW COMPRESSORS - ONE, TWO OR THREE CIRCUITS

RWH...Ka

Refrigerant R134a - Version Ka

Cooling capacities from 80 to 1550 kW



RWH 1293 Ka

- The units series RWH are suitable for water cooling in industrial processes and air conditioning systems
- They are assembled in a compact housing which support the compressors and in which shell & tube evaporators are integrated; pipes are made in copper or, for higher capacities, in steel
- One, two or three cooling circuits
- Available versions:
 - PWH...Ka heat pump version with cycle inversion on the hydraulic circuits
 - RWH...Ka.RT version with total heat recovery

Provided with

- Compressors of semihermetic screw type equipped with capacity steps, oil crankcase heater and motor thermal protection
- Shell & tube evaporator
- Shell & tube condenser
- Electric panel, in compliance with CE norms, supplied with main switch lock-door safety type and with protection fuses
- Components of cooling circuit
 - copper or carbon steel pipes, thermostatic valve, dehydrating filter, shut-off valve on liquid line, shut-off valve on compressors discharge, non return valve on compressors discharge, sight-glass, high and low pressure safety valves, high pressure gauges, high and low pressure switches
- Microprocessor EMIPPLUS

Options:

- A Amperometer
- CA Condenser for seawater
- CC Unit with insulated condensers
- CF Soundproofing fairing
- CFU Sound fairing with silencer
- CI Soundproofing compressors

- CS Compressor pickup counter
- DQ Additional box for supply connection
- DS Closed transition star/delta
- EA Extractable tube evaporator
- IE Wooden cage
- IG Watch card
- IH-IB Serial interface RS 485/422
- IM Seawood packing
- IR Packing with wooden pallet
- KS Kit of lifting
- KT Kit of lifting with thongs
- LI Liquid injection
- M8,M12,M25 Capacity steps of the modulating type
- MA Elec. power supply 230 V / 3 Ph / 50 Hz
- MH Elec. power supply 500V/3F/50Hz
- OS Compressor oil level switch
- PA Rubber type vibration dampers available up to 692 model.
- PF Safety water flow switch
- PM Spring type vibration dampers available for all models
- PQ Remote microprocessor
- RA Antifreeze heating coil inside the evaporator
- RF Power factor correction cosφ
- RL Compressor overload relays
- RH Shut-off valve on compressors suction
- RP Partial heat recovery
- RT Total heat recovery
- TC Fish joint and welding coupling for condensers
- TE Electronic thermostatic valve
- V Voltmeter
- VB Brine Version - Low temp.
- VS Solenoid valve

WATER CHILLERS - R134a

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE, TWO OR THREE CIRCUITS

RWH...Ka Technical data

MODEL RWH...Ka		91 Ka	111Ka	141Ka	181Ka	231Ka	291Ka	331Ka	391Ka	511Ka
Cooling capacity 1)	kW	88.7	111.0	136.7	172.4	227.0	283.3	324.9	389.8	508.3
Absorbed capacity	kW	19.9	25.0	30.8	38.7	50.4	63.1	70.7	84.6	108.5
Heating capacity 3)	kW	102.1	127.8	157.4	198.4	260.5	325.4	371.1	444.9	578.0
[Shell and tube evaporator]										
Quantity	n	1	1	1	1	1	1	1	1	1
Water/gas circuits	n/n	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Water flow	l/s	4.24	5.30	6.53	8.24	10.85	13.54	15.52	18.62	24.28
Pressure drop	kPa	29	39	47	34	48	32	50	31	40
Water volume	l	29	28	46	60	57	101	125	141	131
[Shell and Tube condenser]										
Quantity	n	1	1	1	1	1	1	1	1	1
Water flow	l/s	5.2	6.5	8.0	10.1	13.3	16.5	18.9	22.7	29.5
Pressure drop	kPa	42	44	48	42	42	48	45	41	40
Refrigerant charge	kg	9	9	9	14	28	28	27	57	56
Sound pressure level 2)	dB(A)	72	73	74	76	77	77	78	79	81
[Screw compressors]										
Number of compressors	n	1	1	1	1	1	1	1	1	1
Capacity steps - standard	%	G2 - 0 / 50 / 100								
Capacity steps - optional	%	M25 - Modulating from 25 to 100								
Nominal input current	A	35	45	53	67	87	109	123	146	187
Max input current	A	54	69	84	106	138	172	193	233	298
Inrush current (direct)	A	390	522	582	828	995	1305	1467	1884	2340
Inrush current (star/delta)	A	128	165	171	216	294	333	480	630	760
[Dimensions]										
Length	mm	2600	2650	2650	2650	2650	2650	3200	3450	3450
Width	mm	840	840	840	840	900	900	900	900	900
Height	mm	1400	1480	1480	1480	1565	1565	1555	1555	1555
Transport weight	kg	772	829	999	1147	1544	1674	1712	2074	2392
Weight during operation	kg	801	857	1044	1207	1601	1775	1737	2215	2523
[Version with total heat recovery]										
Cooling capacity 3)	kW	77.8	97.3	119.9	151.2	199.1	248.5	284.9	341.9	445.8
Absorbed capacity	kW	24.3	30.5	37.5	47.2	61.4	76.9	86.2	103.1	132.3
Heating capacity 3)	kW	102.1	127.8	157.4	198.4	260.5	325.4	371.1	444.9	578.0
Water flow at evaporator	l/s	3.72	4.65	5.73	7.22	9.51	11.87	13.61	16.33	21.30
Evaporator pressure drop	kPa	22	23	38	27	38	24	40	24	30
Water flow at recuperator	l/s	4.88	6.11	7.52	9.48	12.45	15.54	17.73	21.26	27.62
Recuperator pressure drop	kPa	36	38	41	40	39	41	37	34	35
Refrigerant charge	kg	11	25	24	24	43	41	48	89	86
[Dimensions]										
Length	mm	2600	2650	2650	2650	2700	2700	3230	3500	3500
Width	mm	840	840	840	840	900	900	900	900	900
Height	mm	1400	1490	1490	1490	1565	1565	1555	1570	1560
Transport weight	kg	800	1069	1246	1379	1665	1804	1930	2271	2609
Weight during operation	kg	830	1097	1292	1439	1722	1905	1955	2412	2740
Power supply		400V/50Hz/3Ph+T								

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C

WATER CHILLERS - R134a

WATER COOLED CHILLERS

WITH SCREW COMPRESSORS - ONE, TWO OR THREE CIRCUITS

RWH...Ka Technical data

MODEL RWH...Ka		182 Ka	202 Ka	232 Ka	252 Ka	282 Ka	312 Ka	352 Ka	402 Ka	462 Ka	512 Ka	572 Ka
Cooling capacity 1)	kW	177.5	199.7	222.0	247.7	273.4	309.1	344.7	399.4	454.0	510.3	566.6
Absorbed capacity	kW	39.9	45.0	50.1	55.8	61.5	69.5	77.4	89.1	100.8	113.5	126.2
Heating capacity 3)	kW	204.3	230.0	255.7	285.2	314.8	355.8	396.7	458.8	521.0	585.8	650.7
[Shell and tube evaporator]												
Quantity	n	1	1	1	1	1	1	1	1	1	1	1
Water/gas circuits	n/n	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water flow	l/s	8.48	9.54	10.6	11.83	13.06	14.77	16.47	19.08	21.69	24.38	27.07
Pressure drop	kPa	33	41	51	31	37	37	37	32	29	40	29
Water volume	l	58	57	56	96	96	94	92	141	133	131	289
[Shell and Tube condenser]												
Quantity	n	2	2	2	2	2	2	2	2	2	2	2
Water flow	l/s	10.4	11.7	13.0	14.5	16.0	18.1	20.2	23.3	26.5	29.8	33.1
Pressure drop	kPa	42	43	44	40	36	36	36	39	41	37	35
Refrigerant charge	kg	29	28	28	57	56	56	55	55	56	48	60
Sound pressure level 2)	dB(A)	75	75	76	76	77	78	79	79	80	80	80
[Screw compressors]												
Number of compressors	n	2	2	2	2	2	2	2	2	2	2	2
Capacity steps - standard	%	G4 - 0 / 25 / 50 / 75 / 100										
Capacity steps - optional	%	M12 - Modulating from 12,5 to 100										
Nominal input current	A	70	80	90	98	106	120	134	154	174	196	218
Max input current	A	108	123	138	153	168	190	212	244	276	310	344
Inrush current (direct)	A	425	557	566	626	635	881	895	1062	1082	1392	1414
Inrush current (star/delta)	A	163	206	209	215	218	269	283	361	381	420	442
[Dimensions]												
Length	mm	3300	3300	3350	3350	3350	3770	3800	3800	3800	4000	4125
Width	mm	700	700	700	900	900	1000	1000	1000	1000	1000	1200
Height	mm	1365	1365	1365	1450	1450	1610	1610	1610	1610	1910	1910
Transport weight	kg	1418	1475	1534	2126	2252	2012	2115	2427	2627	2715	2969
Weight during operation	kg	1476	1532	1589	2221	2348	2106	2207	2568	2760	2846	3258
[Version with total heat recovery]												
Cooling capacity 3)	kW	155.6	175.1	194.7	217.2	239.8	271.1	302.3	350.2	398.1	447.5	496.9
Absorbed capacity	kW	48.6	54.8	61.0	68.0	75.0	84.7	94.4	108.6	122.8	138.3	153.8
Heating capacity 3)	kW	204.3	230.0	255.7	285.2	314.8	355.8	396.7	458.8	521.0	585.8	650.7
Water flow at evaporator	l/s	7.44	8.37	9.30	10.38	11.46	12.95	14.44	16.73	19.02	21.38	23.74
Evaporator pressure drop	kPa	25	32	36	24	29	30	30	25	21	31	23
Water flow at recuperator	l/s	9.8	11.0	12.2	13.6	15.0	17.0	19.0	21.9	24.9	28.0	31.1
Recuperator pressure drop	kPa	36	38	36	35	31	32	32	34	36	33	30
Refrigerant charge	kg	24	51	50	50	49	105	105	102	101	100	106
[Dimensions]												
Length	mm	3300	3300	3350	3350	3350	3800	3800	3800	3800	4000	4000
Width	mm	700	700	700	900	900	1000	1000	1000	1000	1000	1200
Height	mm	1365	1445	1445	1450	1450	1690	1690	1690	1690	1990	1990
Transport weight	kg	1440	1919	1985	2167	2293	2513	2617	2939	3149	3529	3501
Weight during operation	kg	1498	1976	2041	2262	2389	2607	2709	3080	3282	3390	3790
Power supply		400V/50Hz/3Ph+T										

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C

WATER CHILLERS - R134a

WATER COOLED CHILLERS WITH SCREW COMPRESSORS - ONE, TWO OR THREE CIRCUITS

RWH...Ka Technical data

MODEL RWH...Ka		612 Ka	652 Ka	722 Ka	782 Ka	902 Ka	1022 Ka	1113 Ka	1173 Ka	1293 Ka	1413 Ka	1533 Ka	
Cooling capacity 1)	kW	608.2	649.8	714.7	779.6	898.1	1016.5	1104.5	1169.4	1287.9	1406.3	1524.8	
Absorbed capacity	kW	133.8	141.4	155.3	169.1	193.1	217.0	239.8	253.7	277.6	301.6	325.5	
Heating capacity 3)	kW	696.5	742.2	816.0	889.9	1023.0	1156.0	1261.0	1334.8	1467.9	1601.0	1734.1	
[Shell and tube evaporator]													
Quantity	n	1	1	1	1	1	1	1	1	1	1	1	
Water/gas circuits	n/n	1/2	1/2	1/2	1/2	1/2	1/2	1/3	1/3	1/3	1/3	1/3	
Water flow	l/s	29.06	31.04	34.15	37.25	42.91	48.57	52.77	55.87	61.53	67.19	72.85	
Pressure drop	kPa	36	26	35	46	20	27	31	24	13	19	23	
Water volume	l	285	281	277	274	454	449	497	617	592	586	579	
[Shell and Tube condenser]													
Quantity	n	2	2	2	2	2	2	3	3	3	3	3	
Water flow	l/s	35.4	37.8	41.6	45.3	52.1	58.9	64.2	68.0	74.8	81.6	88.4	
Pressure drop	kPa	39	45	42	41	40	39	30	24	21	27	24	
Refrigerant charge	kg	69	61	88	121	124	122	183	182	190	194	193	
Sound pressure level 2)	dB(A)	81	81	82	82	83	84	86	87	87	88	88	
[Screw compressors]													
Number of compressors	n	2	2	2	2	2	2	3	3	3	3	3	
Capacity steps - standard	%	G4 - 0 / 25 / 50 / 75 / 100						G6 - 0 / 16,6 / 33,3 / 50 / 66,6 / 83,2 / 100					
Capacity steps - optional	%	M12 - Modulating from 12,5 to 100						M8 - Modulating from 8 to 100					
Nominal input current	A	232	246	269	292	333	374	415	438	479	520	561	
Max input current	A	365	386	426	466	531	596	659	699	764	829	894	
Inrush current (direct)	A	1576	1590	2007	2030	2486	2527	2153	2176	2632	2673	2714	
Inrush current (star/delta)	A	589	603	753	753	906	947	899	922	1052	1093	1134	
[Dimensions]													
Length	mm	4125	4200	4200	4200	4900	4900	3850	3850	3700	3700	3700	
Width	mm	1200	1200	1100	1100	1200	1200	2000	2000	2000	2000	2000	
Height	mm	1910	1910	1990	1990	1990	1990	2130	2130	2130	2130	2130	
Transport weight	kg	3171	3346	3819	3892	4528	4838	5887	5930	6327	6628	6939	
Weight during operation	kg	3456	3627	4096	4166	4982	5287	6384	6547	6519	7214	7518	
[Version with total heat recovery]													
Cooling capacity 3)	kW	533.4	569.9	626.8	683.7	787.6	891.5	968.6	1025.6	1129.5	1233.4	1337.3	
Absorbed capacity	kW	163.1	172.4	189.3	206.2	235.3	264.5	292.4	309.2	338.4	367.6	396.8	
Heating capacity 3)	kW	696.5	742.2	816.0	889.9	1023.0	1156.0	1261.0	1334.8	1467.9	1601.0	1734.1	
Water flow at evaporator	l/s	25.48	27.23	29.95	32.67	37.63	42.59	46.28	49	53.96	58.93	63.89	
Evaporator pressure drop	kPa	29	20	27	35	16	24	24	18	10	15	18	
Water flow at recuperator	l/s	33.30	35.50	39.00	42.50	48.90	55.20	60.25	63.77	70.13	76.49	82.85	
Recuperator pressure drop	kPa	35	40	38	36	35	36	27	20	19	22	21	
Refrigerant charge	kg	112	105	102	185	186	182	205	260	264	266	262	
[Dimensions]													
Length	mm	4050	4200	4200	4200	4520	4520	3700	3700	3700	3700	3850	
Width	mm	1200	1100	1100	1100	1200	1200	2000	2000	2000	2000	2000	
Height	mm	1990	1990	1990	2080	2080	2080	2130	2130	2130	2130	2130	
Transport weight	kg	2597	2785	2816	3166	3532	3848	6357	6573	6977	7308	7601	
Weight during operation	kg	2882	3066	3093	3440	3986	4297	6854	7190	7569	7894	8180	
Power supply		400V/50Hz/3Ph+T											

1) Chilled water: 12/7 °C; Condensing water: 30/35 °C

2) Sound pressure level at 1 m in free field (ISO 3746).

3) Version with total heat recovery chilled water: 12/7 °C; Condensing water 40/45 °C