

FROM 86 KW TO 189 KW.

# CWW/H/A 351-P÷901-P

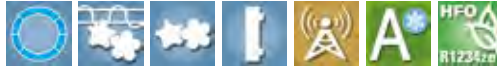
**A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH (INVERTER) SCREW COMPRESSOR AND PLATE EXCHANGERS.**

**NEW**



**INVERTER SCREW**

**HFO R1234ze**



The liquid Chillers of the CWW/H/A 351-P÷901-P series, with A CLASS energy efficiency and **HFO-R1234ze** refrigerant, are designed to satisfy the needs of the service sector or industrial systems requiring high power.

The latest generation refrigerant HFO-R1234ze, with GWP<1 (Global Warming Potential), is the most environmentally sustainable refrigerant on the market, and meets the strictest international environmental regulations.

Equipped with latest generation Screw compressor and plate exchangers, these units have a series of accessories which are factory fitted or supplied separately. Designed and produced to optimize the layout of each component so as to make any necessary maintenance operations more convenient, these units have an essential and compact structure intended for indoor installation. Furthermore, accessories as the Inverter control on one compressor is also available for getting the highest efficiency at part load and a significant reduction of starting current.

**The units are compliant to the ErP 2021 Regulation.**

## VERSION

**CWW/H/A**

Cooling only

**CWW/H/A/SSL**

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressor with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity step.
- Condenser AISI 316 stainless steel braze welded plates type with one circuit on the refrigerant side and one on the water side.
- Evaporator AISI 316 stainless steel braze welded plates type with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- HFO-R1234ze refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relay for compressor.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature kit
RT	Total heat recovery
FE	Antifreeze heater for evaporator
FA	Antifreeze heater for tank
IQ	Inverter on one compressor
SS	Soft start
DP	Device for heat pump operation
HTW	Device for high temperature hot water production.
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)
IS	Modbus RTU protocol, RS485 serial interface

IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
SPU	Inertial tank and single circulating pump
SPD	Inertial tank and double circulating pump
PV2	2-Way electronic pressostatic valve
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers

MODEL			351-P	601-P	801-P	901-P
Cooling	Cooling capacity (1)	kW	86.4	115	152	189
	Absorbed power (1)	kW	16.8	21.7	28.9	35.2
	EER (1)		5.14	5.30	5.26	5.37
Cooling (EN14511)	Cooling capacity (1)	kW	86.3	115	152	189
	Absorbed power (1)	kW	17.0	22.0	29.3	36.0
	EER (1)		5.08	5.23	5.19	5.25
	SEER (2)		5.51	5.49	5.55	5.60
	Energy Efficiency (2)	%	212	212	214	214
Compressor	Quantity	n°	1	1	1	1
	Refrigerant circuits	n°	1	1	1	1
	Capacity steps	n°	Stepless			
Evaporator	Water flow	l/s	4.13	5.49	7.26	9.03
	Pressure drops	kPa	13	14	13	15
	Water connections	"G	2 ½"	2 ½"	3"	3"
Condenser	Water flow	l/s	4.93	6.52	8.60	10.66
	Pressure drops	kPa	12	11	12	19
	Water connections	"G	2 ½"	2 ½"	3"	3"
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50			
	Max. running current	A	93	92	122	141
	Max. starting current	A	172	183	268	317
Unit with tank and pump	Pump available static pressure	kPa	165	125	125	80
	Tank water volume	l	300	300	300	300
	Water connections	"G	2 ½"	2 ½"	3"	3"
Sound pressure	STD version (3)	dB(A)	74	75	75	76
	SSL version (3)	dB(A)	70	71	71	72
Weights	Transport weight (4)	Kg	922	1189	1390	1506
	Operating weight (4)	Kg	960	1280	1490	1610

DIMENSIONS			351-P	601-P	801-P	901-P
L	UNIT	mm	2800	2800	2800	2800
	UNIT + SPU/SPD	mm	3910	3910	3910	3910
W	UNIT	mm	730	730	730	730
	UNIT + SPU/SPD	mm	730	730	730	730
H	UNIT	mm	1620	1620	1620	1620
	UNIT + SPU/SPD	mm	1620	1620	1620	1620

CLEARANCE AREA

CWW/H/A 351-P÷901-P



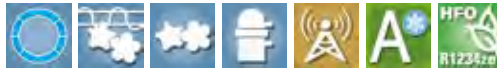
NOTES

1. Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
  2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
  3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
  4. Unit without tank and pump.
- N.B. Weights of SSL version are specified on technical brochure.

FROM 234 KW TO 1650 KW.

# CWW/H/A 1002÷6002

**A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH (INVERTER) SCREW COMPRESSORS AND SHELL AND TUBE EXCHANGERS.**



The liquid Chillers of the CWW/H/A 1002÷6002 series, with A CLASS energy efficiency and **HFO-R1234ze** refrigerant, are designed to satisfy the needs of the service sector or industrial systems requiring high power.

The latest generation refrigerant HFO-R1234ze, with GWP<1 (Global Warming Potential), is the most environmentally sustainable refrigerant on the market, and meets the strictest international environmental regulations.

Equipped with latest generation Screw compressors, shell and tube exchangers and connections for condensation with cooling tower water or well water or with a Dry-Cooler, these units have a series of accessories which are factory fitted or supplied separately. Designed and produced to optimize the layout of each component so as to make any necessary maintenance operations more convenient, these units have an essential and compact structure intended for indoor installation. Furthermore, accessories as the Inverter control on one Screw compressor or both is also available for getting the highest efficiency at part load and a significant reduction of starting current.

**The models 1002÷1402 are compliant to the ErP 2021 Regulation. The models 1602÷6002 are compliant to the ErP 2021 Regulation for process cooling application; for comfort cooling application they are compliant if provided with ID accessory (Inverter on all compressors).**



**INVERTER SCREW**

**HFO R1234ze**

## VERSION

**CWW/H/A**

Cooling only

**CWW/H/A/SSL**

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressors with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity steps.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations. Each cooling circuit is supplied with an independent condenser. Water connections for cooling tower and Dry-Cooler operation; on request for well water.
- Shell and tube type evaporator, with two independent circuits on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- HFO-R1234ze refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature Kit
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
II	Inverter on one compressor and soft start
ID	Inverter on all compressors
SS	Soft start
DP	Device for heat pump operation
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)
IS	Modbus RTU protocol, RS485 serial interface

IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			1002	1202	1402	1602	1802	2202	2502
Cooling	Cooling capacity (1)	kW	234	310	375	437	488	558	655
	Absorbed power (1)	kW	44	57	66	80	89	100	117
	EER (1)		5.32	5.44	5.68	5.46	5.48	5.58	5.60
Cooling (EN14511)	Cooling capacity (1)	kW	233	309	373	436	487	557	653
	Absorbed power (1)	kW	45	59	68	83	92	103	121
	EER (1)		5.18	5.23	5.46	5.27	5.32	5.39	5.42
	SEER (2)		5.68	5.84	5.93	5.88	5.90	5.91	5.95
	Energy Efficiency (2)	%	219	226	229	227	228	228	230
	SEER with ID accessory (2)		6.53	6.71	6.81	6.76	6.79	6.80	6.84
	Energy Efficiency with ID accessory (2)	%	253	260	264	262	264	264	266
Compressor	Quantity	n°	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless						
Evaporator	Water flow	l/s	11.18	14.81	17.92	20.88	23.32	26.66	31.29
	Pressure drops	kPa	36	37	42	39	32	31	35
	Water connections	DN	125	150	150	150	200	200	200
Condenser	Water flow	l/s	13.28	17.53	21.07	24.70	27.57	31.44	36.88
	Pressure drops	kPa	17	28	34	36	36	35	32
	Water connections	DN	80	80	80	80	80	80	100
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						
	Max. running current	A	144	190	220	260	290	334	384
	Max. starting current	A	199	257	318	373	420	504	492
Sound pressure	STD version (3)	dB(A)	76	76	76	76	76	76	76
	SSL version (3)	dB(A)	72	72	72	72	72	72	72
Weights	Transport weight	Kg	2140	2445	2640	2860	3090	3230	4180
	Operating weight	Kg	2300	2660	2840	3100	3420	3550	4590

MODEL			2802	3302	3602	4602	4802	5402	6002
Cooling	Cooling capacity (1)	kW	736	868	980	1160	1278	1475	1650
	Absorbed power (1)	kW	131	154	174	222	242	275	304
	EER (1)		5.62	5.64	5.63	5.23	5.28	5.36	5.43
Cooling (EN14511)	Cooling capacity (1)	kW	734	866	977	1157	1274	1469	1644
	Absorbed power (1)	kW	135	159	180	229	250	285	314
	EER (1)		5.42	5.45	5.44	5.06	5.10	5.16	5.23
	SEER (2)		6.02	6.11	6.07	6.14	6.21	6.33	6.33
	Energy Efficiency (2)	%	233	236	235	238	240	245	245
	SEER with ID accessory (2)		6.92	7.02	6.98	7.06	7.14	7.28	7.28
	Energy Efficiency with ID accessory (2)	%	269	273	271	274	278	283	283
Compressor	Quantity	n°	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless						
Evaporator	Water flow	l/s	35.16	41.47	46.82	55.42	61.06	70.47	78.83
	Pressure drops	kPa	45	39	38	39	49	57	54
	Water connections	DN	200	200	250	250	250	250	250
Condenser	Water flow	l/s	41.42	48.83	55.14	66.03	72.62	83.61	93.36
	Pressure drops	kPa	34	37	37	37	37	35	32
	Water connections	DN	100	100	100	125	125	125	150
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						
	Max. running current	A	436	489	549	701	761	873	961
	Max. starting current	A	576	692	782	1144	1174	1372	1416
Sound pressure	STD version (3)	dB(A)	77	78	79	80	80	81	82
	SSL version (3)	dB(A)	73	74	75	76	76	77	78
Weights	Transport weight	Kg	4560	5205	5670	6950	7080	9060	10050
	Operating weight	Kg	5110	5880	6470	7220	7880	10030	11230

DIMENSIONS			1002	1202	1402	1602	1802	2202	2502	2802	3302	3602	4602	4802	5402	6002
L	STD/SSL	mm	3700	3700	3700	3800	3900	3900	3900	4900	4900	4900	5300	5300	5550	5550
	STD	mm	1000	1100	1100	1150	1200	1200	1200	1200	1300	1300	1400	1400	2000	2000
W	SSL	mm	1200	1250	1250	1350	1350	1350	1400	1400	1450	1450	1550	1550	2150	2150
	STD	mm	1800	1800	1900	1950	2000	2050	2150	2150	2250	2300	2450	2450	2500	2550
H	SSL	mm	1800	1950	2050	2100	2150	2200	2300	2300	2400	2450	2600	2600	2650	2700

CLEARANCE AREA

CWW/H/A 1002÷6002

500 | 500 | 800 | 500



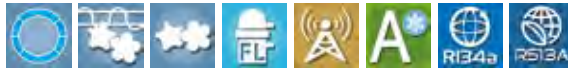
Electrical board side

NOTES

1. Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
  2. Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
  3. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
- N.B. Weights of SSL version are specified on technical brochure.

# CWW/Y/A 1302÷4802

**A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH (INVERTER) SCREW COMPRESSORS AND FLOODED SHELL AND TUBE EXCHANGERS.**



The A CLASS liquid chillers of the CWW/Y/A 1302÷4802 series, with R134a refrigerant, are designed to satisfy the needs of the service sector or industrial systems requiring high power. These units are characterized by an high efficiency (EER) and are equipped with latest generation Screw compressors, flooded shell and tube exchangers and connections for condensation with cooling tower water or well water or with a Dry-Cooler. Furthermore, they have a series of accessories which are factory fitted or supplied separately such as desuperheater, total heat recovery and, if necessary, a device for operating a Heat Pump. Designed and produced to optimize the layout of each component so as to make any necessary maintenance operations more convenient, these units have an essential and compact structure intended for indoor installation. The units can be equipped with Inverter control on one or on both the Screw compressors, to significantly reduce the inrush current of the unit. The solution with double Inverter allows, in addition to the above described, to increase the power efficiency of the unit in the same size, adapting to the different needs and solutions.



**INVERTER SCREW**

**The units are compliant to the ErP 2021 Regulation.**

On request, units can be supplied with **R513A** refrigerant (**CWW/J/A 1302÷4802**).

## VERSION

**CWW/Y/A**

**CWW/Y/A/SSL**

Cooling only

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressors with suction filter, oil sight glass, thermal protection and stepless capacity steps. Oil separator and crankcase heater installed on cooling circuit.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations. Water connections for cooling tower and Dry-Cooler operation; on request for well water.
- High efficiency flooded shell and tube type evaporator, with one circuit on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on suction, discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature Kit
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
II	Inverter on one compressor and soft start
ID	Inverter on all compressors
SS	Soft start
DP	Device for heat pump operation
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)
IS	Modbus RTU protocol, RS485 serial interface

IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch



MODEL			1302	1502	1702	1902	2002	2602	2802	3002	3602	4202	4802
Cooling	Cooling capacity (1)	kW	280	341	392	448	507	626	711	792	961	1126	1289
	Absorbed power (1)	kW	50	60	69	79	88	108	121	132	160	188	217
	EER (1)		5.60	5.68	5.68	5.67	5.76	5.80	5.88	6.00	6.01	5.99	5.94
Cooling (EN14511)	Cooling capacity (1)	kW	279	340	391	446	505	623	708	789	957	1122	1284
	Absorbed power (1)	kW	51	61	70	81	90	111	124	135	164	192	222
	EER (1)		5.47	5.57	5.59	5.51	5.61	5.61	5.71	5.84	5.84	5.84	5.78
	SEER (2)		7.03	7.20	7.25	7.11	7.27	7.34	7.46	7.63	7.66	7.67	7.62
	Energy Efficiency (2)	%	273	280	282	276	283	286	290	297	298	299	297
Cooling *	Cooling capacity (1)	kW	329	401	459	527	595	734	833	928	1125	1319	1510
	Absorbed power (1)	kW	60	73	84	96	107	131	148	161	194	228	263
	EER (1)		5.48	5.49	5.46	5.49	5.56	5.60	5.63	5.76	5.80	5.79	5.74
Cooling * (EN14511)	Cooling capacity (1)	kW	328	399	458	524	592	730	828	923	1119	1312	1502
	Absorbed power (1)	kW	61	75	85	99	110	135	153	166	200	235	271
	EER (1)		5.38	5.32	5.39	5.29	5.38	5.41	5.41	5.56	5.60	5.58	5.54
Compressor	Quantity	n°	2	2	2	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1	1
	Capacity steps	n°	Stepless										
Evaporator	Water flow	l/s	13.38	16.29	18.73	21.40	24.22	29.91	33.97	37.84	45.91	53.80	61.59
	Pressure drops	kPa	28	32	26	60	54	57	57	54	56	57	61
	Water connections	DN	100	100	100	125	125	125	125	150	150	150	150
Condenser	Water flow	l/s	15.77	19.16	22.03	25.18	28.43	35.07	39.75	44.15	53.56	62.78	71.95
	Pressure drops	kPa	46	39	42	62	52	60	62	65	58	58	59
	Water connections	DN	80	100	100	100	125	125	125	125	150	150	150
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50										
	Max. running current	A	178	214	238	270	292	354	398	438	456	536	622
	Max. starting current	A	240	258	314	330	434	465	487	549	558	598	775
Sound pressure	STD version (3)	dB(A)	76	76	77	77	77	77	77	79	79	80	80
	SSL version (3)	dB(A)	72	72	73	73	73	73	73	75	75	76	76
Weights	Transport weight	Kg	2690	2830	2913	3215	3602	3980	4210	4745	5210	5675	6500
	Operating weight	Kg	2750	2900	3000	3500	3700	4100	4350	4900	5400	5900	6750

DIMENSIONS			1302	1502	1702	1902	2002	2602	2802	3002	3602	4202	4802
L	STD/SSL	mm	3700	3700	3700	4200	4200	4200	4200	4200	4200	4500	4600
W	STD/SSL	mm	1300	1300	1300	1400	1400	1400	1400	1400	1600	1600	1600
H	STD/SSL	mm	2100	2100	2100	2200	2200	2200	2200	2200	2250	2250	2250

CLEARANCE AREA

CWW/Y/A 1302÷4802

500 | 500 | 800 | 500



NOTES

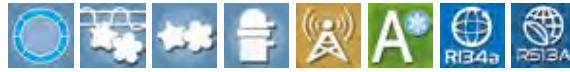
- Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
  - Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
  - Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
- N.B. Weights of SSL version are specified on technical brochure.  
\* Unit provided with Inverter on both compressors.

FROM 250 KW TO 2143 KW.

# CWW/Y/A 1002-T÷7202-T

**A CLASS ENERGY EFFICIENCY WATERCOOLED LIQUID CHILLERS WITH (INVERTER) SCREW COMPRESSORS AND SHELL AND TUBE EXCHANGERS.**

**NEW**



The liquid Chillers of the CWW/Y/A 1002-T÷7202-T series, with A CLASS energy efficiency and R134a refrigerant, are designed to satisfy the needs of the service sector or industrial systems requiring high power.

Equipped with latest generation Screw compressors, shell and tube exchangers and connections for condensation with cooling tower water or well water or with a Dry-Cooler, these units have a series of accessories which are factory fitted or supplied separately. Designed and produced to optimize the layout of each component so as to make any necessary maintenance operations more convenient, these units have an essential and compact structure intended for indoor installation. Furthermore, accessories as the Inverter control on one Screw compressor or both is also available for getting the highest efficiency at part load and a significant reduction of starting current.

**The units are compliant to the ErP 2021 Regulation.**

On request, units can be supplied with **R513A** refrigerant (**CWW/J/A 1002-T÷7202-T**).

**MAXI  
POWER**

**INVERTER SCREW**

## VERSION

**CWW/Y/A**

Cooling only

**CWW/Y/A/SSL**

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressors with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity steps.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations. Each cooling circuit is supplied with an independent condenser. Water connections for cooling tower and Dry-Cooler operation; on request for well water.
- Shell and tube evaporator with two independent circuits on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature kit
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
II	Inverter on one compressor and soft start
ID	Inverter on all compressors
SS	Soft start
DP	Device for heat pump operation
HTW	Device for high temperature hot water production.
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)

IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

# CWW/Y/A 1002-T÷7202-T



MODEL			1002-T	1202-T	1402-T	1602-T	1802-T	2202-T	2502-T	2802-T
Cooling	Cooling capacity (1)	kW	250	307	359	427	499	572	675	783
	Absorbed power (1)	kW	46.2	58.1	65.4	78.1	85.0	101	121	137
	EER (1)		5.41	5.28	5.49	5.47	5.87	5.66	5.58	5.72
Cooling (EN14511)	Cooling capacity (1)	kW	250	307	359	427	499	571	674	782
	Absorbed power (1)	kW	47.6	60.0	67.7	80.7	88.4	104	125	142
	EER (1)		5.25	5.12	5.30	5.29	5.64	5.49	5.39	5.51
	SEER (2)		6.35	6.55	6.71	6.68	6.87	6.87	6.98	6.87
	Energy Efficiency (2)	%	246	254	260	259	267	267	271	267
Compressor	Quantity	n°	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless							
Evaporator	Water flow	l/s	11.94	14.67	17.15	20.40	23.84	27.33	32.25	37.41
	Pressure drops	kPa	43	37	40	39	34	38	38	52
	Water connections	DN	125	150	150	150	200	200	200	200
Condenser	Water flow	l/s	14.15	17.44	20.28	24.13	27.90	32.15	38.03	43.96
	Pressure drops	kPa	19	27	32	35	37	37	34	40
	Water connections	DN	80	80	80	80	80	80	100	100
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50							
	Max. running current	A	184	182	210	240	278	306	392	444
	Max. starting current	A	200	218	245	282	347	383	471	559
Sound pressure	STD version (3)	dB(A)	75	75	75	75	76	76	76	76
	SSL version (3)	dB(A)	71	71	71	71	72	72	72	72
Weights	Transport weight	Kg	1983	2254	2423	2625	2943	3039	3715	4079
	Operating weight	Kg	2140	2460	2620	2860	3260	3350	4110	4610

MODEL			3302-T	3602-T	4602-T	4802-T	5402-T	6002-T	6602-T	7202-T
Cooling	Cooling capacity (1)	kW	901	1040	1183	1342	1497	1662	1902	2143
	Absorbed power (1)	kW	157	182	205	235	255	293	355	374
	EER (1)		5.74	5.71	5.77	5.71	5.87	5.67	5.36	5.73
Cooling (EN14511)	Cooling capacity (1)	kW	901	1039	1182	1341	1496	1661	1901	2142
	Absorbed power (1)	kW	163	188	212	243	265	301	366	387
	EER (1)		5.53	5.53	5.58	5.52	5.65	5.52	5.19	5.53
	SEER (2)		6.99	7.07	7.23	7.21	7.29	7.22	7.12	7.12
	Energy Efficiency (2)	%	272	275	281	280	284	281	277	277
Compressor	Quantity	n°	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless							
Evaporator	Water flow	l/s	43.05	49.69	56.52	64.12	71.52	79.41	90.87	102
	Pressure drops	kPa	43	44	42	52	59	40	50	49
	Water connections	DN	200	250	250	250	250	250	250	300
Condenser	Water flow	l/s	50.55	58.38	66.32	75.35	83.71	93.41	108	120
	Pressure drops	kPa	39	41	37	40	35	32	42	41
	Water connections	DN	100	100	125	125	125	125	125	125
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50							
	Max. running current	A	528	590	672	770	730	804	1296	1464
	Max. starting current	A	564	653	784	893	912	992	1583	1667
Sound pressure	STD version (3)	dB(A)	77	77	77	78	79	79	81	82
	SSL version (3)	dB(A)	73	73	73	74	75	75	77	78
Weights	Transport weight	Kg	4862	5259	6070	6315	7843	8263	9713	10308
	Operating weight	Kg	5520	6040	6820	7110	8790	9250	10700	11470

DIMENSIONI			1002-T	1202-T	1402-T	1602-T	1802-T	2202-T	2502-T	2802-T	3302-T	3602-T	4602-T	4802-T	5402-T	6002-T	6602-T	7202-T
L	STD/SSL	mm	3700	3700	3700	3800	3900	3900	3900	4900	4900	4900	5300	5300	5550	5550	5550	5550
W	STD	mm	1000	1100	1100	1150	1200	1200	1200	1200	1300	1300	1400	1400	2000	2000	2000	2000
	SSL	mm	1200	1250	1250	1350	1350	1350	1400	1400	1450	1450	1550	1550	2150	2150	2150	2150
H	STD	mm	1800	1800	1900	1950	2000	2050	2150	2150	2250	2300	2450	2450	2500	2550	2550	2550
	SSL	mm	1800	1950	2050	2100	2150	2200	2300	2300	2400	2450	2600	2600	2650	2700	2700	2700

## CLEARANCE AREA

CWW/Y/A 1002-T÷7202-T

500	500	800	500
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## NOTES

- Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
  - Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
  - Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
- N.B. Weights of SSL version are specified on technical brochure.

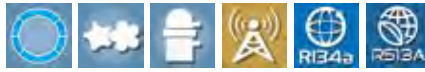


FROM 267 KW TO 2349 KW.

# CWW/Y 1302-B÷9002-B

**WATERCOOLED LIQUID CHILLERS WITH SCREW COMPRESSORS AND SHELL AND TUBE EXCHANGERS.**

**NEW**



The liquid Chillers of the CWW/Y 1302-B÷9002-B series, with R134a refrigerant, are designed to satisfy the needs of the service sector or industrial systems requiring high power. Equipped with latest generation Screw compressors, shell and tube exchangers and connections for condensation with cooling tower water or well water or with a Dry-Cooler, these units can also be produced in super silent versions. Furthermore, they have a series of accessories which are factory fitted or supplied separately such as heat recovery in series or in parallel, soft start and, if necessary, a device for operating a Heat Pump. Designed and produced to optimize the layout of each component so as to make any necessary maintenance operations more convenient, these units have an essential and compact structure intended for indoor installation.

**The models 1302-B÷1702-B are compliant to the ErP 2021 Regulation. The models 1902-B÷9002-B are compliant to the ErP 2021 Regulation with ID accessory (Inverter on all compressors).**

On request, units can be supplied with **R513A** refrigerant (**CWW/J 1302-B÷9002-B**).

## VERSION

**CWW/Y**

**CWW/Y/SSL**

Cooling only

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressors with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity steps.
- Shell and tube type condenser, with easily removable cast iron heads to enable access for maintenance operations. Each cooling circuit is supplied with an independent condenser. Water connections for cooling tower and Dry-Cooler operation; on request for well water.
- Shell and tube type evaporator with two independent circuits on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature Kit
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
II	Inverter on one compressor and soft start
ID	Inverter on all compressors
SS	Soft start
DP	Device for heat pump operation
HTW	Device for high temperature hot water production.
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)
IS	Modbus RTU protocol, RS485 serial interface

IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

# CWW/Y 1302-B÷9002-B



MODEL			1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B
Cooling	Cooling capacity (1)	kW	267	323	374	426	488	577	660	750	892
	Absorbed power (1)	kW	57	69	80	90	99	123	136	150	182
	EER (1)		4.68	4.68	4.68	4.73	4.93	4.69	4.85	5.00	4.90
Cooling (EN14511)	Cooling capacity (1)	kW	266	322	372	424	486	574	657	747	889
	Absorbed power (1)	kW	59	72	83	94	103	128	142	157	189
	EER (1)		4.47	4.48	4.46	4.51	4.74	4.48	4.62	4.77	4.70
	SEER (2)		5.66	5.71	5.71	5.95	6.11	5.93	5.95	6.15	6.07
	Energy Efficiency (2)	%	218	220	220	230	236	229	230	238	235
	SEER with ID accessory (2)		6.23	6.28	6.28	6.55	6.54	6.52	6.55	6.58	6.56
Compressor	Energy Efficiency with ID accessory (2)	%	241	243	243	254	254	253	254	255	254
	Quantity	n°	2	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2	2
Evaporator	Capacity steps	n°	Stepless								
	Water flow	l/s	12.76	15.43	17.87	20.35	23.32	27.57	31.53	35.83	42.62
	Pressure drops	kPa	51	43	55	60	48	61	67	66	47
	Water connections	DN	100	125	125	125	125	150	150	150	200
Condenser	Water flow	l/s	15.48	18.71	21.67	24.67	28.00	33.43	38.00	42.99	51.32
	Pressure drops	kPa	43	49	51	47	36	52	48	45	57
	Water connections	DN	65	65	65	65	80	80	80	80	80
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Max. running current	A	178	214	238	270	306	354	398	438	518
	Max. starting current	A	240	258	314	330	374	465	487	549	723
Sound pressure	STD version (3)	dB(A)	76	76	76	76	76	76	76	77	78
	SSL version (3)	dB(A)	72	72	72	72	72	72	72	73	74
Weights	Transport weight	Kg	2124	2183	2309	2340	2973	3121	3174	4274	4613
	Operating weight	Kg	2240	2350	2480	2510	3160	3440	3490	4580	5050

MODEL			4202-B	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B
Cooling	Cooling capacity (1)	kW	1049	1159	1286	1438	1612	1753	1922	2116	2349
	Absorbed power (1)	kW	210	234	256	287	323	350	383	425	475
	EER (1)		5.00	4.95	5.02	5.01	4.99	5.01	5.02	4.98	4.95
Cooling (EN14511)	Cooling capacity (1)	kW	1045	1155	1281	1432	1604	1744	1913	2107	2333
	Absorbed power (1)	kW	219	244	269	299	339	367	403	444	502
	EER (1)		4.78	4.73	4.77	4.79	4.73	4.75	4.75	4.75	4.65
	SEER (2)		6.24	6.13	6.2	6.37	6.45	6.45	6.33	6.33	6.33
	Energy Efficiency (2)	%	242	237	240	247	250	250	245	245	245
	SEER with ID accessory (2)		6.68	6.68	6.76	6.82	7.10	7.10	7.03	7.03	7.03
Compressor	Energy Efficiency with ID accessory (2)	%	259	259	262	265	276	276	273	273	273
	Quantity	n°	2	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2	2
Evaporator	Capacity steps	n°	Stepless								
	Water flow	l/s	50.12	55.37	61.44	68.70	77.02	83.75	91.83	101.10	112.23
	Pressure drops	kPa	62	51	59	65	81	74	70	60	107
	Water connections	DN	200	200	200	200	200	250	250	250	250
Condenser	Water flow	l/s	60.17	66.55	73.67	82.42	92.45	100.48	110.13	121.40	134.92
	Pressure drops	kPa	49	66	77	66	63	63	73	67	57
	Water connections	DN	100	100	100	100	125	125	125	125	125
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Max. running current	A	602	602	658	818	834	801	863	1032	1144
	Max. starting current	A	765	765	793	1610	1479	1013	1045	1129	1365
Sound pressure	STD version (3)	dB(A)	79	80	80	81	82	82	83	84	85
	SSL version (3)	dB(A)	75	76	76	77	78	78	79	80	81
Weights	Transport weight	Kg	4645	4650	5360	5440	6000	6630	8040	8100	9150
	Operating weight	Kg	5100	5220	5940	6100	6690	7380	8940	9050	10170

DIMENSIONS			1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B
L	STD/SSL	mm	3550	3550	3300	3300	3300	3500	3500	3600	3600
W	STD/SSL	mm	800	800	1400	1400	1400	1450	1450	1650	1650
H	STD/SSL	mm	2000	2000	2150	2150	2150	2150	2150	2150	2150

DIMENSIONS			4202-B	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B
L	STD/SSL	mm	3600	4800	4800	5200	5200	5500	5500	5500	5500
W	STD/SSL	mm	1650	1800	1800	1800	1800	2250	2250	2250	2250
H	STD/SSL	mm	2150	2150	2150	2150	2150	2200	2200	2200	2200

## CLEARANCE AREA

CWW/Y 1302-B÷9002-B

500	500	800	500
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Electrical board side

## NOTES

- Chilled water from 12 to 7 °C, water temperature at the condenser from 30 to 35 °C.
  - Seasonal energy efficiency of cooling at low temperature. According to EU Regulation n. 2016/2281.
  - Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
- N.B. Weights of SSL version are specified on technical brochure.

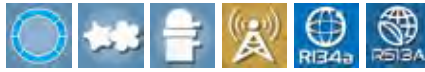


FROM 235 KW TO 2060 KW.

# MEA/Y 1302-B÷9002-B

**CONDENSERLESS LIQUID CHILLERS WITH SCREW COMPRESSORS AND SHELL AND TUBE EXCHANGER.**

**NEW**



The liquid Chillers for remote condensation of MEA/Y 1302-B÷9002-B series, with R134a refrigerant, are designed to satisfy the needs of the service sector or industrial systems which require high power with continual refrigerant delivery, space-saving units and quiet operation. Combined with the remote condenser, these units are ideal for indoor installation and, equipped with a self-supporting structure that sustains the main components, they reduce the overall dimensions to a minimum while at the same time making installation and maintenance operations easier.

Equipped with latest generation Screw compressors and shell and tube exchanger, these units can also be produced in a super silent version. They have cooling and hydraulic circuits complete with everything necessary for quick installation and high energy efficiency. A series of accessories, factory fitted or supplied separately, rounds off the variety of equipment in this product range.

On request, units can be supplied for **R513A** refrigerant (**MEA/J 1302-B÷9002-B**).



## VERSION

### MEA/Y

Cooling only

### MEA/Y/SSL

Super silenced cooling only

## FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Screw compressors with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity steps.
- Shell and tube type evaporator with two independent circuits on the refrigerant side and one on the water side, complete with water differential pressure switch.
- Cooling circuit shut-off valves on discharge and liquid line.
- Electronic expansion valve.
- Electronic high and low pressure gauges.
- R134a refrigerant. On request R513A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors.
- Microprocessor control and regulation system.

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
BT	Low water temperature Kit
HR	Desuperheater
HRT	Total heat recovery
FE	Antifreeze heater for evaporator
II	Inverter on one compressor and soft start
ID	Inverter on all compressors
SS	Soft start
WM	Web Monitoring - Wireless remote monitoring (GPRS/EDGE/3G/TCP-IP)
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port

ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
IAV	Remote set-point, 0-10 V signal
IAA	Remote set-point, 4-20 mA signal
IAS	Remote signal for second set-point activation
IDL	Demand limit from digital input
CP	Potential free contacts

### LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

# MEA/Y 1302-B÷9002-B

MODEL			1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B
Cooling	Cooling capacity (1)	kW	235	279	325	375	424	526	599	672	778
	Absorbed power (1)	kW	73	85	103	118	133	158	176	193	228
Compressor	Quantity	n°	2	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless								
Evaporator	Water flow	l/s	11.23	13.33	15.53	17.92	20.26	25.13	28.62	32.11	37.17
	Pressure drops	kPa	49	34	39	41	34	50	48	55	51
	Water connections	DN	100	125	125	125	125	150	150	150	150
Connections	Delivery line	Ø mm	2 x 42	2 x 42	2 x 54	2 x 54	2 x 54	2 x 64	2 x 64	2 x 76	2 x 76
	Liquid line	Ø mm	2 x 35	2 x 35	2 x 35	2 x 35	2 x 35	2 x 42	2 x 42	2 x 42	2 x 54
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Max. running current	A	178	214	238	270	306	354	398	438	518
	Max. starting current	A	240	258	314	330	374	465	487	549	723
Sound pressure	STD version (2)	dB(A)	76	76	76	76	76	76	76	77	78
	SSL version (2)	dB(A)	72	72	72	72	72	72	72	73	74
Weights	Transport weight	Kg	1480	1820	1840	1860	1900	2420	2540	2590	3190
	Operating weight	Kg	1570	1960	1990	2010	2040	2680	2820	2850	3460

MODEL			4202-B	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B
Cooling	Cooling capacity (1)	kW	905	1015	1140	1282	1433	1535	1681	1833	2060
	Absorbed power (1)	kW	262	296	327	364	417	447	483	528	599
Compressor	Quantity	n°	2	2	2	2	2	2	2	2	2
	Refrigerant circuits	n°	2	2	2	2	2	2	2	2	2
	Capacity steps	n°	Stepless								
Evaporator	Water flow	l/s	43.24	48.49	54.47	61.25	68.47	73.34	80.31	87.58	98.42
	Pressure drops	kPa	57	55	56	52	69	75	54	62	86
	Water connections	DN	150	200	200	200	200	250	250	250	250
Connections	Delivery line	Ø mm	2 x 76	2 x 76	2 x 89	2 x 89	2 x 89	2x89	2x89	2x108	2x108
	Liquid line	Ø mm	2 x 54	2 x 54	2 x 54	2 x 54	2 x 54	2x54	2x64	2x64	2x64
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Max. running current	A	602	602	658	818	834	801	863	1032	1144
	Max. starting current	A	765	765	793	1610	1479	1013	1045	1129	1365
Sound pressure	STD version (2)	dB(A)	79	80	80	81	82	82	83	84	85
	SSL version (2)	dB(A)	75	76	76	77	78	78	79	80	81
Weights	Transport weight	Kg	3225	3525	4445	4530	4600	4830	5690	6925	7280
	Operating weight	Kg	3480	3980	4980	5040	5100	5420	6390	7660	7980

DIMENSIONS			1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B
L	STD/SSL	mm	3300	3300	3700	3700	3700	3800	4000	4000	4300
	STD	mm	800	800	800	800	800	1080	1080	1080	1080
W	SSL	mm	800	800	800	800	800	1080	1080	1080	1080
	STD	mm	1700	1700	1700	1700	1700	1700	2100	2100	2100
H	STD	mm	1700	1700	1700	1700	1700	1700	2100	2100	2100
	SSL	mm	1700	1700	1700	1700	1700	1700	2100	2100	2100

DIMENSIONS			4202-B	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B
L	STD/SSL	mm	4300	4300	5100	5100	5100	6000	6000	6000	6000
	STD	mm	1080	1080	1080	1080	1080	1400	1400	1400	1400
W	SSL	mm	1080	1080	1080	1080	1080	1450	1450	1500	1500
	STD	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100
H	STD	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100
	SSL	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100

## CLEARANCE AREA

MEA/Y 1302-B÷9002-B

500 | 500 | 800 | 500



## NOTES

- Chilled water from 12 to 7 °C, condensing temperature 50 °C.
  - Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
- N.B. Weights of SSL version are specified on technical brochure.

# RCA/Y 8141÷9282

REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.



The Remote aircooled Condensers with axial fans of the RCA/Y series are designed to be combined with evaporating units with R134a refrigerant (MEA/Y).

These units, available in three configurations depending on the level of noiselessness required: Standard, Silenced (SL) and Super silenced (SSL), are equipped with latest generation axial fans, with motor fan shrouds having a large radius of curvature to eliminate all the air flow turbulence and with larger plenum to uniform the air distribution on the cooling coil.

The units, except the V shaped ones, can be installed with either horizontal or vertical air delivery, as needed.

On request, units can be supplied for **R513A** refrigerant (**RCA/J 8141÷9282**).

## VERSION

RCA/Y

Base unit

## FEATURES

- Frame in oven painted with a polyurethane resin and galvanised steel casework.
- The cowlings of the motorfans are made with a wide bending radius to eliminate any turbulence in the air flow.
- Heat exchanger is made with corrugated tubes with a greater heat exchange surface, fins cut with a special louver configuration to give the best external coefficient of heat exchange.

## COMBINATIONS

MEA/Y	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/Y	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/Y	8141	8151	8161	8171	8172	8251	8261	8271	8281	8282	RCA/Y	9272	9273	9281	9282	2x8272	2x8281	2x8282	2x9272		
MEA/J	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/J	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/J	8141	8151	8161	8171	8172	8251	8261	8271	8281	8282	RCA/J	9272	9273	9281	9282	2x8272	2x8281	2x8282	2x9272		

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

- SD Wiring integrated in branch circuit box
- FR Fan speed control

### LOOSE ACCESSORIES

- SVV Supports for vertical air flow versions



## RCA/Y 8141÷9282

MODEL			8141	8151	8161	8171	8172	8251	8252	8261	8262
Fan	Quantity	n°	4	5	6	7	7	10	10	12	12
Connections	In	Ø mm	2X64	2X64	2X76	2X76	2X76	2X64	2X64	2X76	2X76
	Out	Ø mm	2x42	2x42	2x42	2x54	2x54	2x42	2x42	2x42	2x42
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Absorbed power	kW	7.20	9.00	10.80	12.60	12.60	18.00	68.40	21.60	21.60
	Absorbed current	A	15.20	19.00	22.80	26.60	26.60	38.00	38.00	45.60	45.60
Sound pressure	STD version (1)	dB(A)	55	56	57	56	56	59	59	59	59
Weights	Transport weight	Kg	822	1016	1210	1302	1404	1590	1467	1754	1902
	Operating weight	Kg	854	1055	1282	1366	1489	1660	1521	1854	2033

MODEL			8271	8272	8281	8282	9272	9273	9281	9282	
Fan	Quantity	n°	14	14	16	16	14	14	16	16	
Connections	In	Ø mm	2X76	2X76	2X76	2X76	2X76	2X76	2X76	2X76	
	Out	Ø mm	2x54	2x54	2x54	2x54	2X64	2X64	2X64	2X64	
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Absorbed power	kW	25.20	25.20	28.80	28.80	34.30	34.30	39.20	57.60	
	Absorbed current	A	53.20	53.20	60.80	60.80	72.80	72.80	83.20	115.20	
Sound pressure	STD version (1)	dB(A)	59	59	60	60	63	63	64	70	
Weights	Transport weight	Kg	2043	2214	2331	2528	3971	4218	4769	4769	
	Operating weight	Kg	2196	2367	2463	2702	4102	4369	4940	4940	

DIMENSIONS			8141	8151	8161	8171	8172	8251	8252	8261	8262	8271	8272	8281	8282	9272	9273	9281	9282
L	STD	mm	5930	7280	8630	9980	9980	7280	7280	8630	8630	9980	9980	11330	11330	9240	9240	10490	10490
W	STD	mm	1380	1380	1380	1380	1380	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
H	STD	mm	1565	1565	1565	1565	1565	1565	1565	1565	1565	1565	1565	1565	1565	2260	2260	2260	2260

### CLEARANCE AREA

RCA/Y 8141-8282

RCA/Y 9261-9282



### NOTES

1. Sound pressure level measured in free field conditions at 10 m from the unit. According to ISO 3744.
- N.B. Combinations are made at condensing temperature 50 °C, ambient air temperature 35 °C.
- N.B. Clearance areas are specified on installation, use and maintenance manual.

# RCA/Y/SL 8231÷9282

SILENCED REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.



The Remote aircooled Condensers with axial fans of the RCA/Y/SL series are designed to be combined with evaporating units with R134a refrigerant (MEA/Y). These units, available in three configurations depending on the level of noiselessness required: Standard, Silenced (SL) and Super silenced (SSL), are equipped with latest generation axial fans, with motor fan shrouds having a large radius of curvature to eliminate all the air flow turbulence and with larger plenum to uniform the air distribution on the cooling coil. The units, except the V shaped ones, can be installed with either horizontal or vertical air delivery, as needed.

On request, units can be supplied for **R513A** refrigerant (**RCA/J/SL 8231+9282**).

## VERSION

**RCA/Y/SL**

Silenced unit

## FEATURES

- Frame in oven painted with a polyurethane resin and galvanised steel casework.
- The cowlings of the motorfans are made with a wide bending radius to eliminate any turbulence in the air flow.
- Heat exchanger is made with corrugated tubes with a greater heat exchange surface, fins cut with a special louver configuration to give the best external coefficient of heat exchange.

## COMBINATIONS

MEA/Y	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/Y	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/Y/SL	8231	8232	8241	8242	8251	8261	8271	8281	9261	9271	RCA/Y/SL	9281	9282	2x8272	2x8282	2x9252	2x9261	2x9271	2x9281		
MEA/J	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/J	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/J/SL	8231	8232	8241	8242	8251	8261	8271	8281	9261	9271	RCA/J/SL	9281	9282	2x8272	2x8282	2x9252	2x9261	2x9271	2x9281		

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

- SD Wiring integrated in branch circuit box
- FR Fan speed control

### LOOSE ACCESSORIES

- SVV Supports for vertical air flow versions

## RCA/Y/SL 8231÷9282

MODEL			8231	8232	8241	8242	8251	8261	8271	8272	8281
Fan	Quantity	n°	6	6	8	8	10	12	14	14	16
Connections	In	Ø mm	2x54	2x54	2x54	2x54	2X64	2X76	2X76	2X76	2X76
	Out	Ø mm	2x42	2x42	2x35	2x42	2x42	2x42	2x54	2x54	2x54
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Absorbed power	kW	6.90	6.90	9.20	9.20	11.50	13.80	16.10	16.10	18.40
	Absorbed current	A	13.20	13.20	17.60	17.60	22.00	26.40	30.80	30.80	35.20
Sound pressure	SL version (1)	dB(A)	50	50	51	51	52	52	52	52	53
Weights	Transport weight	Kg	891	965	1179	1278	1467	1754	2043	2214	2331
	Operating weight	Kg	924	1008	1222	1334	1521	1854	2160	2367	2463

MODEL			8282	9171	9172	9251	9252	9261	9271	9281	9282
Fan	Quantity	n°	16	7	7	10	10	12	14	16	16
Connections	In	Ø mm	2X76	2X76	2X76	2X76	2X76	2X76	2X76	2X76	2X76
	Out	Ø mm	2x54	2x54	2x54	2x54	2x54	2x54	2X64	2X64	2X64
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Absorbed power	kW	18.40	10.92	10.92	15.60	15.60	18.72	21.84	24.96	38.40
	Absorbed current	A	35.20	20.30	20.30	29.00	29.00	34.80	40.60	46.40	65.60
Sound pressure	SL version (1)	dB(A)	53	53	53	55	55	56	56	57	65
Weights	Transport weight	Kg	2528	2097	2283	2942	3117	3668	4218	4769	4769
	Operating weight	Kg	2702	2183	2396	3027	3227	3799	4369	4940	4940

DIMENSIONS			8231	8232	8241	8242	8251	8261	8271	8272	8281	8282	9171	9172	9251	9252	9261	9271	9281	9282
L	SL	mm	4580	4580	5930	5930	7280	8630	9980	9980	11330	11330	10275	10275	6740	6740	7990	9240	10490	10490
W	SL	mm	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	1170	1170	2400	2400	2400	2400	2400	2400
H	SL	mm	1565	1565	1565	1565	1565	1565	1565	1565	1565	1565	1805	1805	2260	2260	2260	2260	2260	2260

### CLEARANCE AREA

RCA/Y/SL 8231-8282

RCA/Y/SL 9171-9282



### NOTES

1. Sound pressure level measured in free field conditions at 10 m from the unit. According to ISO 3744.
- N.B. Combinations are made at condensing temperature 50 °C, ambient air temperature 35 °C.
- N.B. Clearance areas are specified on installation, use and maintenance manual.

Electrical board side

# RCA/Y/SSL 8151÷9281

*SUPER SILENCED REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.*



The Remote aircooled Condensers with axial fans of the RCA/Y/SSL series are designed to be combined with evaporating units with R134a refrigerant (MEA/Y).

These units, available in three configurations depending on the level of noiselessness required: Standard, Silenced (SL) and Super silenced (SSL), are equipped with latest generation axial fans, with motor fan shrouds having a large radius of curvature to eliminate all the air flow turbulence and with larger plenum to uniform the air distribution on the cooling coil.

The units, except the V shaped ones, can be installed with either horizontal or vertical air delivery, as needed.

On request, units can be supplied for **R513A** refrigerant (**RCA/J/SSL 8151÷9281**).

## VERSION

**RCA/Y/SSL**

Super silenced unit

## FEATURES

- Frame in oven painted with a polyurethane resin and galvanised steel casework.
- The cowlings of the motorfans are made with a wide bending radius to eliminate any turbulence in the air flow.
- Heat exchanger is made with corrugated tubes with a greater heat exchange surface, fins cut with a special louver configuration to give the best external coefficient of heat exchange.

## COMBINATIONS

MEA/Y	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/Y	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/Y/SSL	8151	8161	8171	8251	8251	8261	8272	8282	9271	9272	RCA/Y/SSL	9281	2x8271	2x8281	2x8282	2x8282	2x9271	2x9272	2x9281		
MEA/J	1302-B	1502-B	1702-B	1902-B	2002-B	2602-B	2802-B	3002-B	3602-B	4202-B	MEA/J	4402-B	4802-B	5402-B	6002-B	6602-B	7202-B	8102-B	9002-B		
RCA/J/SSL	8151	8161	8171	8251	8251	8261	8272	8282	9271	9272	RCA/J/SSL	9281	2x8271	2x8281	2x8282	2x8282	2x9271	2x9272	2x9281		

## ACCESSORIES

### FACTORY FITTED ACCESSORIES

- SD Wiring integrated in branch circuit box
- FR Fan speed control

### LOOSE ACCESSORIES

- SVV Supports for vertical air flow versions

# RCA/Y/SSL 8151÷9281

MODEL			8151	8161	8171	8251	8261	8271	8272	8281	8282	9271	9272	9281
Fan	Quantity	n°	5	6	7	10	12	14	14	16	16	14	14	16
Connections	In	Ø mm	2X64	2X76	2X76	2X64	2X76	2X76	2X76	2x54	2x54	2X76	2X76	2X76
	Out	Ø mm	2x42	2x42	2x54	2x42	2x42	2x54	2x54	2x54	2x54	2X64	2X64	2X64
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50											
	Absorbed power	kW	4.45	5.34	6.23	8.90	10.68	12.46	12.46	14.24	14.24	12.74	12.74	14.56
	Absorbed current	A	11.10	13.32	15.54	22.20	26.64	31.08	31.08	35.52	35.52	31.78	31.78	36.32
Sound pressure	SSL version (1)	dB(A)	50	51	50	53	53	53	53	54	54	57	57	58
Weights	Transport weight	Kg	1016	1210	1404	1467	1902	2214	2043	2528	2331	3971	4218	3769
	Operating weight	Kg	1055	1282	1489	1521	2033	2367	2156	2702	2463	4088	4369	3940

1  
2  
3  
4  
5  
6  
7

DIMENSIONS			8151	8161	8171	8251	8261	8271	8272	8281	8282	9271	9272	9281
L	SSL	mm	7280	8630	9980	7280	8630	9980	9980	11330	11330	9240	9240	10490
W	SSL	mm	1380	1380	1380	2400	2400	2400	2400	2400	2400	2400	2400	2400
H	SSL	mm	1565	1565	1565	1565	1565	1565	1565	1565	1565	2262	2262	2262

## CLEARANCE AREA

RCA/Y/SSL 8151÷8282

RCA/Y/SSL 9271÷9281



## NOTES

1. Sound pressure level measured in free field conditions at 10 m from the unit. According to ISO 3744.
- N.B. Combinations are made at condensing temperature 50 °C, ambient air temperature 35 °C.
- N.B. Clearance areas are specified on installation, use and maintenance manual.

Electrical board side