

FROM 4,6 KW TO 49 KW.

CWW/K/WP 15÷151

HEAT PUMPS WITH ROTARY/SCROLL COMPRESSOR AND PLATE EXCHANGERS.



The CWW/K/WP 15÷151 Heat Pumps, with R410A refrigerant, are designed for small and medium domestic or industrial systems which require medium-low power, space-saving units and quiet operation. These units are ideal for indoor installation and, equipped with a self-contained structure, they reduce the overall dimensions to a minimum while at the same time making installation and maintenance operations easier.

These units can be combined with Fan Coil units or with intermediate heat exchangers for process cooling applications.

Equipped with prepainted plate structure, Rotary/Scroll compressor and plate-type exchangers, these units have cooling and hydraulic circuits complete with everything necessary for quick installation and high energy efficiency, even in the version with tank and pump.

A wide range of accessories, factory fitted or supplied separately, completes the outstanding versatility and functionality of the series.

The units are compliant to the ErP Regulation.



VERSION

CWW/K/WP

Reversible Heat Pump

CWW/K/WP/SP

Reversible Heat Pump with tank and pump

FEATURES

- Self-supporting prepainted steel frame.
- Rotary/Scroll compressor with internal overheat protection and crankcase heater, if needed.
- Condenser AISI 316 stainless steel braze welded plates type, with pressostatic valve.
- Evaporator AISI 316 stainless steel braze welded plates type, complete with water differential pressure switch.
- R410A refrigerant.
- Electrical board includes: main switch with door lock device, fuses, compressor and pump remote control switch.
- Water circuit for SP version includes: insulated tank, circulating pump, safety valve, gauge and expansion vessel.
- Microprocessor control and regulation system.

ACCESSORIES

FACTORY FITTED ACCESSORIES

- | | |
|----|---|
| BT | Low water temperature Kit |
| PS | Single circulating pump |
| FE | Antifreeze heater for evaporator |
| FA | Antifreeze heater for tank |
| VV | Pressure valve and solenoid valve (for WP versions) |

LOOSE ACCESSORIES

- | | |
|----|---|
| CR | Remote control panel |
| IS | Modbus RTU protocol, RS485 serial interface |
| AG | Rubber shock absorbers |

MODEL			15	18	21	25	31	41	51	
Cooling	Cooling capacity (1)	kW	4.6	5.8	7.1	8.3	9.6	11.6	14.3	
	Absorbed power (1)	kW	1.1	1.4	1.8	2.0	2.3	2.9	3.4	
	EER (1)		4.18	4.14	3.94	4.15	4.17	4.00	4.21	
Cooling (EN14511)	Cooling capacity (1)	kW	4.6	5.7	7.0	8.2	9.5	11.5	14.2	
	Absorbed power (1)	kW	1.2	1.5	2.0	2.2	2.5	3.2	3.7	
	EER (1)		3.83	3.70	3.47	3.80	3.78	3.58	3.80	
Heating	Heating capacity (2)	kW	5.9	7.2	8.8	10.4	12.5	14.9	17.5	
	Absorbed power (2)	kW	1.4	1.7	2.2	2.5	3.0	3.5	4.3	
	COP (2)		4.21	4.24	4.00	4.16	4.17	4.26	4.07	
Heating (EN14511)	Heating capacity (2)	kW	5.1	6.7	8.4	9.8	11.9	13.7	17.1	
	Absorbed power (2)	kW	1.5	1.8	2.5	2.8	3.7	3.9	4.5	
	COP (2)		3.38	3.64	3.31	3.51	3.25	3.56	3.81	
	SCOP (3)		4.20	4.15	3.85	4.18	4.31	4.38	4.34	
	Energy Efficiency (3)	%	160	158	146	159	164	167	166	
Compressor	Type				Rotary				Scroll	
	Quantity	n°	1	1	1	1	1	1	1	
Evaporator	Water flow	l/s	0.22	0.28	0.34	0.40	0.46	0.55	0.68	
	Pressure drops	kPa	21	30	44	26	30	45	42	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Condenser	Water flow	l/s	0.07	0.09	0.11	0.12	0.14	0.17	0.21	
	Pressure drops	kPa	3	4	5	6	8	10	5	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50						400/3+N/50	
	Max. running current	A	8	10	13	14	16	22	9	
	Max. starting current	A	37	43	62	62	75	86	50	
Unit SP version	Water flow	l/s	0.22	0.28	0.34	0.40	0.46	0.55	0.68	
	Pump available static pressure	kPa	40	33	38	55	50	35	128	
	Tank water volume	l	50	50	50	50	50	50	50	
Sound pressure	STD/SP version (5)	dB(A)	39	39	39	39	41	43	43	
	Transport weight (6)	Kg	77	78	80	84	87	90	93	
Weights	Transport weight (6)	Kg	77	78	80	84	87	90	93	
	Operating weight (6)	Kg	78	79	81	85	88	91	95	

MODEL			61	71	81	91	101	131	151	
Cooling	Cooling capacity (1)	kW	17.1	20.0	23.0	27.7	33.6	39.7	49.2	
	Absorbed power (1)	kW	4.1	4.8	5.5	6.8	7.9	9.3	11.5	
	EER (1)		4.17	4.17	4.18	4.07	4.25	4.27	4.28	
Cooling (EN14511)	Cooling capacity (1)	kW	17.0	19.8	22.8	27.5	33.3	39.4	48.8	
	Absorbed power (1)	kW	4.4	5.2	6.0	7.4	8.7	10.1	12.1	
	EER (1)		3.86	3.79	3.79	3.72	3.83	3.92	4.03	
Heating	Heating capacity (2)	kW	20.8	24.3	28.4	33.8	39.8	47.0	59.5	
	Absorbed power (2)	kW	5.4	6.1	7.0	8.2	10.1	11.7	14.4	
	COP (2)		3.85	3.98	4.06	4.12	3.94	4.02	4.13	
Heating (EN14511)	Heating capacity (2)	kW	19.7	22.5	26.3	31.8	37.9	44.5	56.4	
	Absorbed power (2)	kW	5.6	6.3	7.2	8.9	10.8	12.4	15.2	
	COP (2)		3.50	3.59	3.67	3.56	3.50	3.58	3.71	
	SCOP (3)		3.95	4.05	4.05	4.31	3.94	4.18	4.28	
	Energy Efficiency (3)	%	150	154	154	164	150	159	163	
Compressor	Type		Scroll							
	Quantity	n°	1	1	1	1	1	1	1	
Evaporator	Water flow	l/s	0.82	0.96	1.10	1.32	1.61	1.90	2.35	
	Pressure drops	kPa	29	40	47	48	60	49	54	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Condenser	Water flow	l/s	0.25	0.30	0.34	0.41	0.50	0.58	0.73	
	Pressure drops	kPa	8	10	13	20	21	22	22	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Electrical characteristics	Power supply	V/Ph/Hz	400/3+N/50							
	Max. running current	A	11	14	15	18	20	23	29	
	Max. starting current	A	71	74	74	142	142	147	197	
Unit SP version	Water flow	l/s	0.82	0.96	1.10	1.32	1.61	1.90	2.35	
	Pump available static pressure	kPa	131	100	93	187	160	131	155	
	Tank water volume	l	50	50	50	100	100	100	100	
Sound pressure	STD/SP version (5)	dB(A)	44	45	47	49	49	50	50	
	Transport weight (6)	Kg	96	98	100	190	198	204	218	
Weights	Transport weight (6)	Kg	96	98	100	190	198	204	218	
	Operating weight (6)	Kg	98	100	102	193	201	207	221	

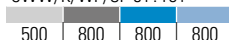
DIMENSIONS			15	18	21	25	31	41	51	61	71	81	91	101	131	151
L	STD	mm	550	550	550	550	550	550	550	550	550	550	550	550	550	550
	SP	mm	550	550	550	550	550	550	550	550	550	550	1100	1100	1100	1100
W	STD/SP	mm	550	550	550	550	550	550	550	550	550	550	550	550	550	550
H	STD/SP	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200

CLEARANCE AREA

CWW/K/WP 15÷151



CWW/K/WP/SP 91÷151



NOTES

1. Chilled water from 12 to 7 °C, water temperature at the condenser from 15 to 35 °C.
 2. Heated water from 40 to 45 °C, water temperature at the evaporator from 15 to 10 °C.
 3. Seasonal energy efficiency of heating at low temperature with average climatic conditions. According to EU Regulation n. 813/2013.
 4. Seasonal energy efficiency class of heating at low temperature with average climatic conditions. According to EU Regulation n. 811/2013.
 5. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
 6. Unit without tank and pump.
- N.B. Weights of WP versions are specified on technical brochure.

CWW/K 182-P÷604-P

WATERCOOLED LIQUID CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS AND PLATE EXCHANGERS.



The CWW/K 182-P÷604-P liquid Chillers and Heat Pumps, with R410A refrigerant, are designed for medium-sized domestic or industrial systems which require medium power, space-saving units and quiet operation. This range is ideal for indoor installation and, equipped with a self-contained structure, it reduces the overall dimensions to a minimum while at the same time making installation and maintenance operations easier. These units are used to remove the heat developed during industrial processes or, combined with Fan Coil units, for the air conditioning of the rooms. They can be supplied with Modbus RTU protocol through RS485 serial interface. Equipped with polyester powder plate painting structure, Scroll compressors and plate-type exchangers, these units have cooling and hydraulic circuits complete with everything necessary for quick installation and high energy efficiency, even in the version with tank and pump; and a series of accessories, factory fitted or supplied separately, like desuperheater and total heat recovery, rounds off the variety of equipment in this product range.

The units are compliant to the ErP Regulation.

On request, units can be supplied with **R452B (CWW/G 182-P÷604-P)** or **R454B (CWW/L 182-P÷604-P)** refrigerant.



VERSION

CWW/K

CWW/K/WP

Cooling only

Reversible Heat Pump

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser AISI 316 stainless steel braze welded plates type with one circuit on the refrigerant side and one on the water side in 182-P÷453-P models; with two independent circuits on the refrigerant side and one on the water side in 524-P÷604-P models.
- Evaporator AISI 316 stainless steel braze welded plates type with one circuit on the refrigerant side and one on the water side in 182-P÷453-P models; with two independent circuits on the refrigerant side and one on the water side in 524-P÷604-P models, complete with water differential pressure switch.
- R410A refrigerant. On request R452B or R454B refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors, interface relay and terminals for external connections.
- Microprocessor control and regulation system.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
SL	Unit silencing
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
BT	Low water temperature Kit
DS	Desuperheater
RT	Total heat recovery
FE	Antifreeze heater for evaporator
FA	Antifreeze heater for tank
SS	Soft start
IS	Modbus RTU protocol, RS485 serial interface

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		182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P	
Cooling	Cooling capacity (1)	kW	55.4	62.5	72.1	82.5	97.2	112	130	149	170	195
	Absorbed power (1)	kW	12.8	14.3	16.6	18.7	21.8	25.7	28.5	32.8	37.7	43.7
	EER (1)		4.33	4.37	4.34	4.41	4.46	4.36	4.56	4.54	4.51	4.46
Cooling (EN14511)	Cooling capacity (1)	kW	55.0	62.1	71.6	82.0	96.7	111	129	148	169	194
	Absorbed power (1)	kW	13.6	15.3	17.6	19.9	22.9	27.3	29.9	34.3	39.3	45.6
	EER (1)		4.04	4.06	4.06	4.13	4.22	4.08	4.33	4.32	4.31	4.26
	SEER (2)		5.28	5.21	5.22	5.21	5.64	5.20	5.72	6.17	5.78	6.16
	Energy Efficiency (2)	%	203	200	201	200	218	200	221	239	223	238
Heating	Heating capacity (3)	kW	72.5	80.1	93.3	105	121	140	159	180	205	237
	Absorbed power (3)	kW	18.0	20.0	23.2	25.7	28.8	33.2	38.4	42.7	51.7	56.7
	COP		4.03	4.01	4.02	4.09	4.20	4.22	4.14	4.22	3.97	4.18
Heating (EN14511)	Heating capacity (3)	kW	72.8	80.6	93.4	105	122	141	159	180	205	237
	Absorbed power (3)	kW	18.3	20.5	23.3	26.1	29.4	33.9	38.5	42.8	51.8	56.9
	COP (3)		3.98	3.94	4.01	4.04	4.14	4.15	4.13	4.21	3.96	4.17
	SCOP (4)		4.29	4.03	4.77	5.15	5.11	5.05	5.37	5.31	4.76	4.76
	Energy Efficiency (4)	%	164	153	183	198	196	194	207	204	182	182
Compressor	Quantity	n°	2	2	2	2	2	3	3	3	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2
	Capacity steps	n°	2				3			4		
Evaporator	Water flow	l/s	2.65	2.99	3.44	3.94	4.64	5.38	6.23	7.14	8.12	9.33
	Pressure drops	kPa	54	48	49	51	44	57	53	59	49	48
	Water connections	"G	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Condenser	Water flow	l/s	3.26	3.67	4.24	4.84	5.69	6.60	7.59	8.71	9.92	11.41
	Pressure drops	kPa	47	51	52	43	46	54	36	39	43	48
	Water connections	"G	1 1/4"	1 1/4"	1 1/4"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50									
	Max. running current	A	33	39	43	49	60	64	73	90	98	120
	Max. starting current	A	128	137	139	164	204	161	189	234	213	264
Unit with tank and pump	Pump available static pressure	kPa	100	100	90	130	115	120	105	75	110	65
	Tank water volume	l	300	300	300	300	300	300	300	300	300	300
	Water connections	"G	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Sound pressure	STD version (5)	dB(A)	59	59	60	60	62	61	61	63	64	64
	With SL accessory (5)	dB(A)	56	56	57	57	59	58	58	60	61	61
Weights	Transport weight (6)	Kg	384	393	411	423	453	622	658	681	767	803
	Operating weight (6)	Kg	390	400	420	435	470	640	680	705	790	830

DIMENSIONS		182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
UNIT	L	mm	1200	1200	1200	1200	1200	2285	2285	2285	2285
	W	mm	680	680	680	680	680	680	680	680	680
	H	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520
UNIT + SPU/SPD	L	mm	2310	2310	2310	2310	2310	3395	3395	3395	3395
	W	mm	680	680	680	680	680	680	680	680	680
	H	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520

CLEARANCE AREA

CWW/K 182-P÷604-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. Heated water from 40 to 45 °C, water temperature at the evaporator from 15 to 10 °C.
4. Seasonal energy efficiency of heating at low temperature with average climatic conditions. According to EU Regulation n. 813/2013.
5. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
6. Unit without tank and pump.
- N.B. Weights of WP version are specified on technical brochure.

CWW/K 182÷604

WATERCOOLED LIQUID CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS AND SHELL AND TUBE EXCHANGERS.



The CWW/K 182÷604 liquid Chillers and Heat Pumps, with R410A refrigerant, are designed for medium-sized domestic or industrial systems which require medium power, space-saving units and quiet operation. This range is ideal for indoor installation and, equipped with a self-contained structure, it reduces the overall dimensions to a minimum while at the same time making installation and maintenance operations easier. These units are used to remove the heat developed during industrial processes or, combined with Fan Coil units, for the air conditioning of the rooms. They can be supplied with Modbus RTU protocol through RS485 serial interface. Equipped with Scroll compressors and shell and tube exchangers, these units have cooling and hydraulic circuits complete with everything necessary for quick installation and high energy efficiency, even in the version with tank and pump; a series of accessories, factory fitted or supplied separately, like desuperheater and total heat recovery, rounds off the variety of equipment in this product range.

The units are compliant to the ErP Regulation.

On request, units can be supplied with **R452B (CWW/G 182÷604)** or **R454B (CWW/L 182÷604)** refrigerant.

VERSION

CWW/K	CWW/K/WP
Cooling only	Reversible Heat Pump
CWW/K/SSL	CWW/K/WP/SSL
Super silenced cooling only	Super silenced reversible Heat Pump

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Shell and tube type condenser with one circuit on the refrigerant side and one on the water side in 182÷453 models; with two independent circuits on the refrigerant side and one on the water side in 524÷604 models.
- Shell and tube type evaporator with one circuit on the refrigerant side and one on the water side in 182÷453 models; with two independent circuits on the refrigerant side and one on the water side in 524÷604 models, complete with water differential pressure switch.
- R410A refrigerant. On request R452B or R454B refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors, interface relay and terminals for external connections.
- Microprocessor control and regulation system.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
BT	Low water temperature Kit
HR	Desuperheater
HRT	Total heat recovery
SP	Inertial tank
SPU	Inertial tank and single circulating pump
SPD	Inertial tank and double circulating pump
FE	Antifreeze heater for evaporator

FB	Antifreeze heater for evaporator and tank
SS	Soft start
IS	Modbus RTU protocol, RS485 serial interface

LOOSE ACCESSORIES

MN	High and low pressure gauges
CR	Remote control panel
PV2	2-Way electronic pressostatic valve
PV3	3-Way electronic pressostatic valve
AG	Rubber shock absorbers
AM	Spring shock absorbers
FL	Flow switch

MODEL			182	202	242	262	302	363	393	453	524	604
Cooling	Cooling capacity (1)	kW	57.0	62.6	70.9	82.9	98.3	111	129	151	172	196
	Absorbed power (1)	kW	13.2	14.3	16.4	18.9	22.0	25.7	28.2	33.1	38.2	44.1
	EER (1)		4.32	4.38	4.32	4.39	4.47	4.32	4.57	4.56	4.50	4.44
Cooling (EN14511)	Cooling capacity (1)	kW	56.7	62.2	70.4	82.2	97.6	110	128	150	171	195
	Absorbed power (1)	kW	13.7	14.9	17.2	19.9	23.1	26.9	29.4	34.5	39.7	45.7
	EER (1)		4.14	4.17	4.10	4.14	4.23	4.10	4.36	4.36	4.31	4.27
	SEER (2)		5.21	5.22	5.21	5.22	5.71	5.22	5.74	6.21	5.83	6.19
	Energy Efficiency (2)	%	200	201	200	201	220	201	222	240	225	240
Heating	Heating capacity (3)	kW	74.6	80.3	91.7	106	122	139	158	182	208	238
	Absorbed power (3)	kW	18.6	20.0	22.9	26.0	29.1	33.2	38.0	43.1	52.3	57.3
	COP		4.01	4.02	4.00	4.08	4.19	4.19	4.16	4.22	3.98	4.15
Heating (EN14511)	Heating capacity (3)	kW	75.1	80.9	92.5	106	123	140	159	183	210	239
	Absorbed power (3)	kW	19.3	20.9	24.0	27.1	30.6	34.8	39.6	44.8	54.4	59.4
	COP (3)		3.89	3.88	3.86	3.92	4.03	4.03	4.02	4.08	3.85	4.03
	SCOP (4)		4.16	4.39	4.39	4.53	4.62	4.57	4.85	4.64	4.72	4.84
	Energy Efficiency (4)	%	158	168	168	173	177	175	186	178	181	186
Compressor	Quantity	n°	2	2	2	2	2	3	3	3	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2
	Capacity steps	n°	2					3			4	
Evaporator	Water flow	l/s	2.72	2.99	3.39	3.96	4.70	5.30	6.16	7.21	8.22	9.36
	Pressure drops	kPa	32	42	55	74	62	55	57	49	63	49
	Water connections	"G	1 1/2"	1 1/2"	2"	2"	2"	2 1/2"	2 1/2"	3"	3"	3"
Condenser	Water flow	l/s	3.35	3.67	4.17	4.86	5.75	6.53	7.51	8.80	10.04	11.47
	Pressure drops	kPa	15	17	18	20	27	33	23	30	20	27
	Water connections	"G	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50									
	Max. running current	A	33	39	43	49	60	64	73	90	98	120
	Max. starting current	A	128	137	139	164	204	161	189	234	213	264
Unit with tank and pump	Pump available static pressure	kPa	150	145	130	140	110	165	165	140	135	105
	Tank water volume	l	470	470	470	470	470	470	470	470	660	660
	Water connections	"G	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Sound pressure	STD version (5)	dB(A)	59	59	61	60	62	62	63	65	65	65
	With SL accessory (5)	dB(A)	56	56	58	57	58	59	60	62	62	62
	SSL version (5)	dB(A)	54	54	56	56	57	57	59	60	60	60
Weights	Transport weight (6)	Kg	465	470	478	488	504	590	606	657	840	856
	Operating weight (6)	Kg	495	500	510	520	540	630	650	710	900	920

DIMENSIONS			182	202	242	262	302	363	393	453	524	604
L	STD/SSL	mm	2100	2100	2300	2100	2700	2400	2400	2400	2400	2600
W	STD/SSL	mm	830	830	830	830	830	830	830	830	830	830
H	STD/SSL	mm	1300	1300	1300	1300	1300	1300	1300	1300	1450	1450

CLEARANCE AREA

CWW/K 182÷604

500 | 500 | 800 | 1500



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. Heated water from 40 to 45 °C, water temperature at the evaporator from 15 to 10 °C.
 4. Seasonal energy efficiency of heating at low temperature with average climatic conditions. According to EU Regulation n. 813/2013.
 5. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.
 6. Unit without tank and pump.
- N.B. Weights of SSL and WP versions are specified on technical brochure.

FROM 4,0 KW TO 42 KW.

MEA/K 15÷151

CONDENSERLESS LIQUID CHILLERS AND HEAT PUMPS WITH ROTARY/ SCROLL COMPRESSOR AND PLATE EXCHANGER.



The liquid Chillers and Heat Pumps for remote condensation of the MEA/K 15÷151 series, with R410A refrigerant, are designed for domestic or service sector systems which require medium power, space-saving units and quiet operation. Combined with remote condenser, these units are ideal for indoor installation and, equipped with a self-contained structure, they reduce the overall dimensions to a minimum while at the same time making installation and maintenance operations easier.

Equipped with prepainted plate structure, Rotary/Scroll compressor and plate-type exchanger, these units have cooling and hydraulic circuits designed for quick installation and high energy efficiency, even in the version with tank and pump.

A wide range of accessories, factory fitted or supplied separately, completes the outstanding versatility and functionality of the series.



VERSION

MEA/K

Cooling only

MEA/K/WP

Reversible Heat Pump

MEA/K/SP

Cooling only with tank and pump

MEA/K/WP/SP

Reversible Heat Pump with tank and pump

FEATURES

- Self-supporting prepainted steel frame.
- Rotary/Scroll compressor with internal overheat protection and crankcase heater, if needed.
- Evaporator AISI 316 stainless steel braze welded plates type, complete with water differential pressure switch.
- R410A refrigerant.
- Electrical board includes: main switch with door lock device, fuses, compressor and pump remote control switch.
- Water circuit for SP version includes: insulated tank, circulating pump, safety valve, gauge and expansion vessel.
- Microprocessor control and regulation system.

ACCESSORIES

FACTORY FITTED ACCESSORIES

BT	Low water temperature Kit
PS	Single circulating pump
RL	Liquid receiver
FE	Antifreeze heater for evaporator
FA	Antifreeze heater for tank

LOOSE ACCESSORIES

CR	Remote control panel
IS	Modbus RTU protocol, RS485 serial interface
AG	Rubber shock absorbers

MEA/K 15÷151

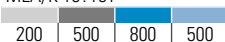
MODEL			15	18	21	25	31	41	51	
Cooling	Cooling capacity (1)	kW	4.0	5.1	6.2	7.3	8.5	10.1	12.1	
	Absorbed power (1)	kW	1.4	1.8	2.1	3.0	3.3	3.7	3.3	
Heating	Heating capacity (2)	kW	5.1	6.4	8.2	9.4	10.7	13.2	15.5	
	Absorbed power (2)	kW	1.5	1.9	2.4	2.7	3.0	4.2	4.5	
Compressor	Type		Rotary				Scroll			
	Quantity	n°	1	1	1	1	1	1	1	
Evaporator	Water flow	l/s	0.19	0.24	0.30	0.35	0.41	0.48	0.58	
	Pressure drops	kPa	15	15	20	18	20	25	35	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Connections	Delivery line	Ø mm	12	12	12	12	12	12	16	
	Liquid line	Ø mm	10	10	10	10	10	10	12	
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50						400/3+N/50	
	Max. running current	A	8	10	13	14	16	22	9	
	Max. starting current	A	37	43	62	62	75	86	50	
Unit SP version	Water flow	l/s	0.19	0.24	0.30	0.35	0.41	0.48	0.58	
	Pump available static pressure	kPa	50	45	75	70	70	60	180	
	Tank water volume	l	50	50	50	50	50	50	50	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Sound pressure	STD/SP versions (3)	dB(A)	39	39	39	39	41	43	43	
Weights	Transport weight (4)	Kg	74	75	77	81	84	87	86	
	Operating weight (4)	Kg	75	76	78	82	85	88	88	

MODEL			61	71	81	91	101	131	151	
Cooling	Cooling capacity (1)	kW	14.5	17.0	20.0	24.1	28.8	33.9	41.5	
	Absorbed power (1)	kW	5.2	6.0	7.1	7.8	9.3	10.9	13.3	
Heating	Heating capacity (2)	kW	18.5	22.0	25.9	30.4	36.4	43.0	53.2	
	Absorbed power (2)	kW	5.5	6.5	7.7	8.3	10.1	11.7	14.2	
Compressor	Type		Scroll							
	Quantity	n°	1	1	1	1	1	1	1	
Evaporator	Water flow	l/s	0.69	0.81	0.96	1.15	1.38	1.62	1.98	
	Pressure drops	kPa	28	35	39	40	45	40	40	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Connections	Delivery line	Ø mm	16	16	16	22	22	22	22	
	Liquid line	Ø mm	12	12	12	12	12	12	16	
Electrical characteristics	Power supply	V/Ph/Hz	400/3+N/50							
	Max. running current	A	11	14	15	18	20	23	29	
	Max. starting current	A	71	74	74	142	142	147	197	
Unit SP version	Water flow	l/s	0.69	0.81	0.96	1.15	1.38	1.62	1.98	
	Pump available static pressure	kPa	170	140	110	215	130	155	235	
	Tank water volume	l	50	50	50	100	100	100	100	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	
Sound pressure	STD/SP versions (3)	dB(A)	44	45	47	49	49	50	50	
Weights	Transport weight (4)	Kg	89	91	93	183	189	195	206	
	Operating weight (4)	Kg	91	93	95	186	192	198	209	

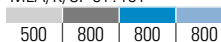
DIMENSIONS			15	18	21	25	31	41	51	61	71	81	91	101	131	151
L	STD	mm	550	550	550	550	550	550	550	550	550	550	550	550	550	550
	SP	mm	550	550	550	550	550	550	550	550	550	550	1100	1100	1100	1100
W	STD/SP	mm	550	550	550	550	550	550	550	550	550	550	550	550	550	550
H	STD/SP	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200

CLEARANCE AREA

MEA/K 15÷151



MEA/K/SP 91÷151



Electrical board side

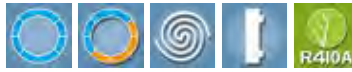
NOTES

1. Chilled water from 12 to 7 °C, condensing temperature 50 °C.
 2. Heated water from 40 to 45 °C, evaporating temperature 0 °C.
 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 WP versions are specified on technical brochure.

FROM 51 KW TO 176 KW.

MEA/K 182-P÷604-P

CONDENSERLESS LIQUID CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS AND PLATE EXCHANGER.



MEA/K 182-P÷604-P series liquid Chillers and Heat Pumps for remote condensation, with R410A refrigerant, are designed to meet the needs of residential or industrial-type systems requiring high power together with space-saving and quiet operation. These units are ideal for indoor installation and, equipped with a self-contained structure, minimise overall dimensions while also facilitating installation and maintenance operations. Equipped with polyester plate powder painting structure, Scroll compressors and plate-type exchanger they have refrigerant and hydraulic circuits, even in the version with tank, with pump or tank and pump, complete with everything necessary for quick installation operations and for high energy efficiencies. A number of accessories, factory fitted or supplied separately, such as the desuperheater or the total heat recovery, enhance and complete the equipment of this range.



VERSION

MEA/K

Cooling only

MEA/K/WP

Reversible Heat Pump

FEATURES

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Evaporator AISI 316 stainless steel braze welded plates type with one circuit on the refrigerant side and one on the water side in 182-P÷453-P models; with two independent circuits on the refrigerant side and one on the water side in 524-P÷604-P models, complete with water differential pressure switch.
- R410A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors, interface relay and terminals for external connections.
- Microprocessor control and regulation system.

ACCESSORIES

FACTORY FITTED ACCESSORIES

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
BT	Low water temperature Kit
DS	Desuperheater
RT	Total heat recovery
FE	Antifreeze heater for evaporator
FA	Antifreeze heater for tank
SS	Soft start
IS	Modbus RTU protocol, RS485 serial interface

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
AG	Rubber shock absorbers
AM	Spring shock absorbers

MEA/K 182-P÷604-P

MODEL			182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
Cooling	Cooling capacity (1)	kW	50.8	57.1	64.3	73.6	87.1	98.8	114	134	149	176
	Absorbed power (1)	kW	15.4	17.3	19.0	21.6	25.8	29.4	32.9	38.7	43.5	51.5
Heating	Heating capacity (2)	kW	59.5	65.8	74.3	84.7	96.5	107	122	148	157	194
	Absorbed power (2)	kW	18.0	20.0	22.3	24.7	27.8	32.8	37.2	41.1	50.8	56.5
Compressor	Quantity	n°	2	2	2	2	2	3	3	3	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2
	Capacity steps	n°	2						3			4
Evaporator	Water flow	l/s	2.43	2.73	3.07	3.52	4.16	4.72	5.42	6.41	7.10	8.41
	Pressure drops	kPa	47	42	41	42	40	48	44	51	41	40
	Water connections	"G	1 ¼"	1 ¼"	1 ¼"	1 ¼"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"
Connections	Delivery line	Ø mm	28	28	28	28	28	28	28	28	2 x 28	2 x 28
	Liquid line	Ø mm	22	22	22	22	22	22	22	22	2 x 22	2 x 22
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50									
	Max. running current	A	33	39	43	49	60	64	73	90	98	120
	Max. starting current	A	128	137	139	164	204	161	189	234	213	264
Unit with tank and pump	Pump available static pressure	kPa	105	110	100	135	120	130	120	110	120	100
	Tank water volume	l	300	300	300	300	300	300	300	300	300	300
	Water connections	"G	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"	2 ½"
Sound pressure	STD version (3)	dB(A)	59	59	60	60	62	61	61	63	64	64
	With SL accessory (3)	dB(A)	56	56	57	57	59	58	58	60	61	61
Weights	Transport weight (4)	Kg	347	357	376	386	397	562	581	595	669	708
	Operating weight (4)	Kg	350	360	380	390	405	570	590	605	680	720

DIMENSIONS			182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
UNIT	L	mm	1200	1200	1200	1200	1200	2285	2285	2285	2285	2285
	W	mm	680	680	680	680	680	680	680	680	680	680
	H	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520
UNIT + SPU/SPD	L	mm	2310	2310	2310	2310	2310	3395	3395	3395	3395	3395
	W	mm	680	680	680	680	680	680	680	680	680	680
	H	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520

CLEARANCE AREA

MEA/K 182-P÷604-P

0 | 300 | 800 | 300

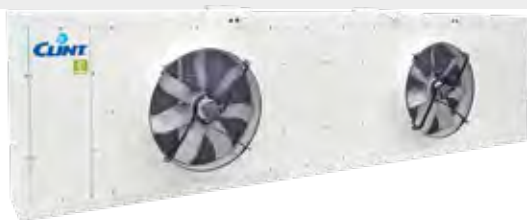


NOTES

1. Chilled water from 12 to 7 °C, condensing temperature 50 °C.
 2. Heated water from 40 to 45 °C, evaporating temperature 0 °C.
 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 WP version are specified on technical brochure.

RCA/K 4111÷8222

REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.



The Remote aircooled Condensers with axial fans of the RCA/K series are designed to be combined with evaporating units with R410A refrigerant (MEA/K).

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 can be installed with either horizontal or vertical air delivery, as needed.

VERSION

RCA/K

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/K	15	18	21	25	31	41	51	61	71	81
RCA/K	4111	4111	4111	4111	4111	4112	5111	5111	5112	5113
MEA/K	91	101	131	151						
RCA/K	6111	6112	6113	5121						
MEA/K	182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
RCA/K	6114	6121	6122	6123	6124	6125	6131	6132	8221	8222

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/K 4111÷8222

MODEL			4111	4112	5111	5112	5113	5121	6111	6112	6113	6114	
Fan	Quantity	n°	1	1	1	1	1	1	1	1	1	1	
Connections	In	∅ mm	22	28	22	28	28	28	35	28	28	35	
	Out	∅ mm	18	18	18	18	18	28	22	22	22	28	
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50					400/3/50					
	Absorbed power	kW	0.22	0.22	0.83	0.83	0.83	1.90	0.63	1.90	1.90	1.90	
	Absorbed current	A	0.97	0.97	1.45	1.45	1.45	3.2	1.25	3.20	3.20	3.20	
Sound pressure	STD version (1)	dB(A)	43	43	51	51	51	58	46	58	58	58	
Weights	Transport weight	Kg	89	89	89	94	94	169	158	158	158	178	
	Operating weight	Kg	90	91	90	96	96	174	161	163	164	184	

MODEL			6121	6122	6123	6124	6125	6131	6132	8221	8222
Fan	Quantity	n°	2	2	2	2	2	3	3	4	4
Connections	In	∅ mm	35	42	35	42	42	42	54	2x35	2x35
	Out	∅ mm	28	35	28	35	35	35	35	2x28	2x28
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50								
	Absorbed power	kW	1.26	1.26	3.80	3.80	3.80	5.70	5.70	5.76	7.20
	Absorbed current	A	2.50	2.50	6.40	6.40	6.40	9.60	9.60	11.60	15.20
Sound pressure	STD version (1)	dB(A)	48	48	60	60	60	62	62	54	55
Weights	Transport weight	Kg	178	198	178	198	218	304	322	555	555
	Operating weight	Kg	184	207	184	207	230	313	336	573	569

DIMENSIONS			4111	4112	5111	5112	5113	5121	6111	6112	6113	6114	6121	6122	6123	6124	6125	6131	6132	8221	8222
L	STD	mm	1130	1130	1130	1130	1130	1910	1490	1490	1490	1490	2630	2630	2630	2630	2630	3770	3770	3230	3230
W	STD	mm	900	900	900	900	900	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	2400	2400
H	STD	mm	980	980	980	980	980	990	990	990	990	990	990	990	990	990	990	990	990	1565	1565

CLEARANCE AREA

RCA/K 4111÷8222

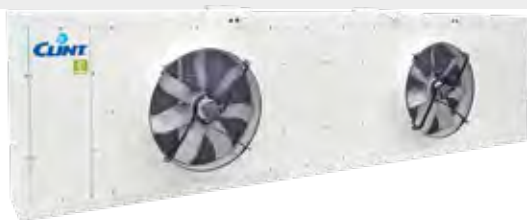


NOTES

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/K/SL 4111÷8222

SILENCED REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.



The Remote aircooled Condensers with axial fans of the RCA/K/SL series are designed to be combined with evaporating units with R410A refrigerant (MEA/K).

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 can be installed with either horizontal or vertical air delivery, as needed.

VERSION

RCA/K/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/K	15	18	21	25	31	41	51	61	71	81
RCA/K/SL	4111	4111	4111	4112	4113	5111	5112	5113	5121	6111
MEA/K	91	101	131	151						
RCA/K/SL	6111	6111	6112	6120						
MEA/K	182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
RCA/K/SL	6121	6122	6123	6124	6131	6132	6133	6134	8221	8222

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/K/SL 4111÷8222

MODEL			4111	4112	4113	5111	5112	5113	5121	6111	6112	6120
Fan	Quantity	n°	1	1	1	1	1	1	2	1	1	2
Connections	In	∅ mm	22	22	22	22	22	28	28	35	35	28
	Out	∅ mm	18	18	18	18	18	18	22	28	28	22
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50				400/3/50					
	Absorbed power	kW	0.22	0.22	0.22	0.22	0.55	0.55	0.55	1.35	1.35	1.15
	Absorbed current	A	0.97	0.97	0.97	0.97	0.97	0.97	0.97	2.20	2.20	2.20
Sound pressure	SL version (1)	dB(A)	43	43	43	43	43	43	43	52	52	42
Weights	Transport weight	Kg	89	89	89	89	89	94	99	158	169	215
	Operating weight	Kg	90	91	92	90	90	96	105	161	174	221

MODEL			6121	6122	6123	6124	6131	6132	6133	6134	8221	8222
Fan	Quantity	n°	2	2	2	2	3	3	3	3	4	4
Connections	In	∅ mm	35	42	35	42	42	42	54	54	2x35	2x42
	Out	∅ mm	28	35	28	35	35	35	35	35	2x28	2x35
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50									
	Absorbed power	kW	0.88	0.88	2.70	2.70	1.89	4.05	4.05	4.05	4.60	4.60
	Absorbed current	A	1.46	1.46	4.40	4.40	3.75	6.60	6.60	6.60	8.80	8.80
Sound pressure	SL version (1)	dB(A)	43	43	54	54	50	56	56	56	48	48
Weights	Transport weight	Kg	178	198	178	198	304	304	322	351	555	603
	Operating weight	Kg	184	207	184	207	313	313	336	369	569	625

DIMENSIONS			4111	4112	4113	5111	5112	5113	5121	6111	6112	6120
L	SL	mm	1130	1130	1130	1130	1130	1130	1910	1490	1490	2630
W	SL	mm	900	900	900	900	900	900	900	1260	1260	1260
H	SL	mm	980	980	980	980	980	980	980	990	990	990

DIMENSIONS			6121	6122	6123	6124	6131	6132	6133	6134	8221	8222
L	SL	mm	2630	2630	2630	2630	3770	3770	3770	3770	3230	3230
W	SL	mm	1260	1260	1260	1260	1260	1260	1260	1260	2400	2400
H	SL	mm	990	990	990	990	990	990	990	990	1565	1565

CLEARANCE AREA

RCA/K/SL 4111-8222

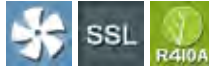
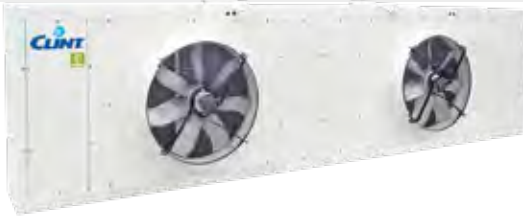


NOTES

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/K/SSL 5111÷8222

SUPER SILENCED REMOTE AIRCOOLED CONDENSERS WITH AXIAL FANS.



The Remote aircooled Condensers with axial fans of the RCA/K/SSL series are designed to be combined with evaporating units with R410A refrigerant (MEA/K).

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 can be installed with either horizontal or vertical air delivery, as needed.

VERSION

RCA/K/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/K	15	18	21	25	31	41	51	61	71	81
RCA/K/SSL	5111	5111	5111	5111	5111	5112	6111	6111	6111	6111
MEA/K	91	101	131	151						
RCA/K/SSL	6112	6121	6121	6121						
MEA/K	182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	524-P	604-P
RCA/K/SSL	6124	6131	6132	6133	6141	8121	8131	8132	8221	8222

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/K/SSL 5111÷8222

MODEL			5111	5112	6111	6112	6121	6124	6131	6132
Fan	Quantity	n°	1	1	1	1	2	2	3	3
Connections	In	∅ mm	22	28	28	35	35	42	42	42
	Out	∅ mm	18	18	22	28	28	35	35	35
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50				400/3/50			
	Absorbed power	kW	0.13	0.94	0.24	0.24	0.47	0.47	0.42	0.71
	Absorbed current	A	0.59	1.60	0.55	0.55	1.10	1.10	0.81	1.65
Sound pressure	SSL version (1)	dB(A)	34	22	41	41	43	43	39	45
Weights	Transport weight	Kg	48	79	158	178	178	198	304	304
	Operating weight	Kg	49	81	161	181	184	207	313	313

MODEL			6133	6141	8121	8131	8132	8221	8222	
Fan	Quantity	n°	3	4	2	3	3	4	4	
Connections	In	∅ mm	54	35	42	42	54	2x35	2x35	
	Out	∅ mm	35	28	35	35	42	2x28	2x28	
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50							
	Absorbed power	kW	0.71	0.94	1.78	2.67	2.67	3.56	3.56	
	Absorbed current	A	1.65	2.20	4.44	6.66	6.66	8.88	8.88	
Sound pressure	SSL version (1)	dB(A)	45	46	46	48	48	49	49	
Weights	Transport weight	Kg	322	407	434	545	586	555	603	
	Operating weight	Kg	336	419	450	557	604	569	625	

DIMENSIONS			5111	5112	6111	6112	6121	6124	6131	6132	6133	6141	8121	8131	8132	8221	8222
L	SSL	mm	1130	1130	1490	1490	2630	2630	3770	3770	3770	4910	3230	4580	4580	3230	3230
W	SSL	mm	900	900	1260	1260	1260	1260	1260	1260	1260	1260	1380	1380	1380	2400	2400
H	SSL	mm	980	980	990	990	990	990	990	990	990	990	1565	1565	1565	1565	1565

CLEARANCE AREA

RCA/K/SSL 5111÷8222



NOTES

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