

NS

Air cooled chillers
With axial fans and power ratings from 238 up to 1600 kW with two-screw compressor

R134a



Aermec adhere to the EUROVENT Certification program up to 600 kW. The products concerned appear in the EUROVENT Certified product guide.



Features

- Available in 32 different sizes
- Cooling only versions
- The versions are made with R134 gas
- Available versions fitted with partial and total heat recovery unit
- High efficiency volute compressors with quiet functioning and with regulation of refrigerating capacity by means of continuous modulation from 40 to 100%. **(25-100% with electronic valve - option to indicate in the order)**
- Possibility of also having a **pump assembly** (see configurator) that includes:
 - 1 pump, or 1 pump plus 1 reserve pump
 - two 25 litre expansion tanks
- Standard Version (°):
 - **Operating limits up to 42 °C** room air temperature.
 - Acoustic protection cover on the compressor for silent functioning
- Version L:
 - Acoustic protection cover on the compressor for silent functioning
 - Fan-speed control device
 - Muffler on the pressing line.
- High efficiency version A:
 - **Operating limits up to 48 °C** room air temperature.
 - Acoustic protection cover on the compressor for silent functioning.
- Versions E:
 - **Operating limits up to 48 °C (46 °C for NS 5402 at 5702)** room air temperature.
 - Compressor hood for acoustic protection.
 - Fan-speed control device
 - Muffler on the pressing line.
- Modular microprocessor control system.
- Multilingual operating parameter display.
- Tubular band exchanger optimised for R134a gas.
- Axial flow fan units for extremely quiet operation
- Compact size
- Metallic protective cabinet with rustproofing polyester paint.

Accessories

- **AER485P1:** RS-485 interface for supervision systems with MODBUS protocol.
- **AVX:** Sprung shock absorber supports. Select the AVX model from the technical booklet.
- **DCPX:** Low temperature device for operation of outdoor units at ambient temperatures from less than 19 °C down to - 10 °C. Standard for versions D, and L, E.
- **KRS:** Exchanger electrical element **to be installed in the factory**
- **KRSDS/KRSREC:** evaporator electric heater and recovers electric heater **Accessories can only be fitted in the factory**
- **GP:** Safety grille: protects external batteries from accidental impact and hail damage. **To be installed in the factory.**
- **PRV3:** This allows the refrigerator command operations to be given from a distance.
- **RIFNS:** Current rephaser. Parallel connection with the motor makes the reduction of input current possible (about 10%). **This can only be installed when the machine is being made and must therefore be specified when the order is placed.** Select the RIF model from the technical booklet.
- **AERWEB30:** the AERWEB device allows the remote control of a chiller from a common PC by means of a serial connection. By using additional modules the device allows control of the chiller by telephone network, using the **AERMODEM;** accessory or GSM network, using the **AERMODEMGSM.** The AERWEB can pilot up to 9 chillers, each of which must be equipped with the AER485 or AER485P2 accessory.2.
- **AK: ACUSTIC KIT. (only for version L-E)** This accessory allows to reduce noise further. This can only be installed when the machine is being made and must therefore be specified when the order is placed. (to be installed in the factory) deve essere richiesto in fase d'ordine.
- **MULTICHILLER:** Control system for control, switch-on and switch-off of the single chillers in a plant in which multiple units are installed in parallel, always ensuring constant flow to the evaporators.

Accessory compatibility																
Mod. NS	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
AER485P1	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)
MULTICHILLER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AK-ACUSTIC KIT (*)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PRV3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AERWEB30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mod. NS	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
AER485P1	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x1)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x3)	✓(x3)	✓(x3)	✓(x3)	✓(x3)
MULTICHILLER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AK-ACUSTIC KIT (*)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PRV3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AERWEB30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mod. NS %L (*)	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
GP 300M (2)	✓	✓	✓	✓												
GP 400M (2)					✓	✓										
GP 300B (2)							✓	✓	✓							
GP 400B (2)										✓	✓	✓	✓			
GP 500B (2)														✓	✓	
GP 300M+300M (2)																✓
KRS	KRS10	KRS10	KRS10	KRS10	KRS11	KRS11	KRS10	KRS10	KRS10	KRS10	KRS10	KRS10	KRS10	KRS11	KRS11	KRS12
KRSDES (***)	KRS10DES	KRS10DES	KRS10DES	KRS10DES	KRS11DES	KRS11DES	KRS18DES	KRS18DES	KRS18DES	KRS18DES	KRS18DES	KRS18DES	KRS18DES	KRS19DES	KRS19DES	KRS12DES
KRSREC (***)	KRS10REC	KRS10REC	KRS10REC	KRS10REC	KRS11REC	KRS11REC	KRS10REC	KRS10REC	KRS10REC	KRS10REC	KRS10REC	KRS10REC	KRS10REC	KRS11REC	KRS11REC	KRS12REC
Mod. NS %L (*)	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
GP 300M+300M	✓	✓														
GP 300M+400M			✓	✓	✓											
GP 400M+400M						✓	✓									
GP 400M+500M								✓								
GP 500M+500M									✓	✓	✓					
GP 300M+300M+400M												✓				
GP 300M+400M+400M													✓	✓		
GP 400M+400M+400M															✓	✓
KRS	KRS12	KRS12	KRS12	KRS13	KRS13	KRS14	KRS14	KRS14	KRS14	KRS14	KRS14	KRS15	KRS16	KRS16	KRS17	KRS17
KRSDES (***)	KRS12DES	KRS12DES	KRS12DES	KRS13DES	KRS13DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS15DES	KRS16DES	KRS16DES	KRS17DES	KRS17DES
KRSREC (***)	KRS12REC	KRS12REC	KRS12REC	KRS13REC	KRS13REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS15REC	KRS16REC	KRS16REC	KRS17REC	KRS17REC
Mod. NS A/E (*)	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
GP 300M	✓	✓	✓													
GP 400M				✓												
GP 500M					✓	✓										
GP 300B							✓	✓								
GP 400B									✓							
GP 500B										✓	✓	✓	✓	✓	✓	✓
GP 300M+300M																✓
KRS	KRS10	KRS10	KRS11	KRS10	KRS11	KRS11	KRS11	KRS11	KRS10	KRS10	KRS11	KRS11	KRS11	KRS11	KRS11	KRS13
KRSDES (***)	KRS10DES	KRS10DES	KRS11DES	KRS10DES	KRS11DES	KRS11DES	KRS19DES	KRS19DES	KRS18DES	KRS18DES	KRS19DES	KRS19DES	KRS19DES	KRS19DES	KRS19DES	KRS13DES
KRSREC (***)	KRS10REC	KRS10REC	KRS11REC	KRS10REC	KRS11REC	KRS11REC	KRS11REC	KRS11REC	KRS10REC	KRS10REC	KRS11REC	KRS11REC	KRS11REC	KRS11REC	KRS11REC	KRS13REC
Mod. NS A/E (*)	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
GP 300M+300M	✓															
GP 300M+400M		✓														
GP 400M+400M			✓													
GP 400M+500M				✓	✓											
GP 500M+500M						✓	✓	✓	✓	✓	✓					
GP 400M+400M+500M												✓				
GP 400M+500M+500M													✓	✓		
GP 500M+500M+500M															✓	✓
KRS	KRS14	KRS13	KRS12	KRS13	KRS13	KRS14	KRS14	KRS14	KRS14	KRS14	KRS14	KRS15	KRS16	KRS16	KRS17	KRS17
KRSDES (***)	KRS14DES	KRS13DES	KRS12DES	KRS13DES	KRS13DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS14DES	KRS15DES	KRS16DES	KRS16DES	KRS17DES	KRS17DES
KRSREC (***)	KRS14REC	KRS13REC	KRS12REC	KRS13REC	KRS13REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS14REC	KRS15REC	KRS16REC	KRS16REC	KRS17REC	KRS17REC
Mod. NS %L	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
AVX	502	502	502	501	506	506	502	502	503	504	505	505	505	511	511	509
RIFNS	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2602	2802	3002
Mod. NS %L	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
AVX	509	509	507	508	508	516	516	532	533	533	534	517	515	515	523	523
RIFNS	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
Mod. NS A/E	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
AVX	502	502	502	506	510	510	503	503	504	511	511	511	511	511	511	509
RIFNS	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2602	2802	3002
Mod. NS A/E	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
AVX	509	513	516	519	519	521	521	535	535	535	535	526	528	528	531	531
RIFNS	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203

Note:

(*) Accessories can only be applied in the factory

(**) accessory supplied as standard on versions L-E-D

The number in brackets e.g. (x3) indicates the quantity.

(***) The accessory KRSDES/KRSREC includes evaporator electric heater and recovers electric heater

COMPATIBILITY DCPX

Mod. NS °	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
DCPX (**)	65(x1)	65(x1)	65(x1)	65(x1)	69(x1)	69(x1)	69(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)
Mod. NS °	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
DCPX (**)	68(x1)	68(x1)	68(x1)	72(x1)	72(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	68+76	72+76	72+76	73+76	73+76

Mod. NS A	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
DCPX (**)	65(x1)	65(x1)	65(x1)	69(x1)	69(x1)	69(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)
Mod. NS A	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
DCPX (**)	68(x1)	72(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73+76	73+76	73+76	73+76	73+76

DCPX VERSION WITH OVERSIZED FANS

Mod. NS °	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
	69(x1)	69(x1)	69(x1)	69(x1)	69(x1)	69(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	68(x1)	73(x1)
Mod. NS °	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	74(x1)	75(x1)	73+76	73+76	73+76	73+76	73+76

Mod. NS A	1251	1401	1601	1801	2101	2401	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002
	69(x1)	69(x1)	69(x1)	69(x1)	70(x1)	70(x1)	68(x1)	68(x1)	68(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)	73(x1)
Mod. NS A	3202	3402	3602	3902	4202	4502	4802	5002	5202	5402	5702	6003	6303	6603	6903	7203
	73(x1)	73(x1)	73(x1)	74(x1)	74(x1)	75(x1)	75(x1)	75(x1)	75(x1)	75(x1)	75(x1)	73+77	74+77	74+77	75+77	75+77

Note:

(*) Accessories can only be applied in the factory

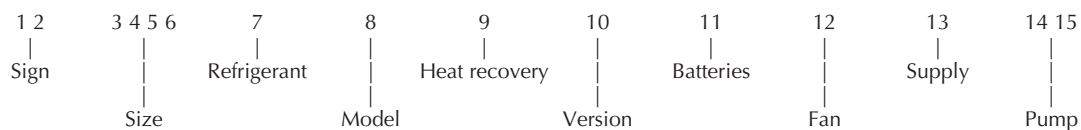
The number in brackets e.g. (x3) indicates the quantity.

(**) accessory supplied as standard on versions L-E-D

Choice of Unit

By suitably combining the numerous options available, it is possible to configure each model in such a way as to meet the most particular of system requirements.

Sheet configurer:



Sign:

NS

Size:

1251, 1401, 1601, 1801, 2101, 2401, 1402, 1602, 1802, 2002, 2202
2352, 2502, 2652, 2802,3002, 3202,3402, 3602, 3902,4202,4502,
4802, 5002, 5202, 5402, 5702, 6003, 6303, 6603, 6903, 7203

Refrigerant:

- ° - R134a VT mechanical and minimum water temp. produced at +4°C
- Y - R134a VT mechanical and minimum water temp. produced down to -6 °C
- X - R134a VT electronic and minimum water temp. produced down to -6 °C

Model:

- ° - Cooling only, with evaporator according to PED standards
- C - Condenser unit

Heat recovery:

- ° - Without recoverers
- D - With desuperheaters
- T - With total heat recovery units

Version:

- ° - Standard
- L - Standard in silenced version
- A - High efficiency
- E - High efficiency in silenced version

Batteries:

- ° - Aluminium
- R - Copper
- S - Tinned copper
- V - Painted aluminium copper

Fan:

- ° - Standard
- M - Enlarged
- J - Inverter

Supply:

- ° - 400V 3~ 50Hz with fuses
- 2 - 230V 3~ 50Hz with fuses *
- 4 - 230V 3~ 50Hz with thermomagnetic switches *
- * (not available as for: 1251~2401, 2352~7203)
- 5 - 500V 3~ 50Hz with fuses **
- 8 - 400V 3~ 50Hz with thermomagnetic switches
- 9 - 500V 3~ 50Hz with thermomagnetic switches **
- ** (not available as for 1801~2401, 3402~7203)

Pump:

- 00 - Without pumping assembly
- PA - Pumping assembly (Pump A)
- PB - Pumping assembly (Pump A and reserve pump)
- PC - Pumping assembly (Pump C)
- PD - Pumping assembly (Pump Cand reserve pump)
- PE - Pumping assembly (Pump E)
- PF - Pumping assembly (Pump E and reserve pump)
- PG - Pumping assembly (Pump G)
- PH - Pumping assembly (Pump G and reserve pump)
- PJ - Pumping assembly (Pump J)
- PK - Pumping assembly (Pump J and reserve pump)

Warning:

- the standard options are shown by the symbol °;
- options D - T - C are not compatible with option Y;
- 500V 3~50Hz power supply are compatible only with enlarged fans versions (M).
- sizes 5002-5202-5402-5702 are available only with electronic valve (X).

This is an NS unit with a 1401 size, version standard version in silenced form, with copper batteries, alimentazione 400V 3~ 50Hz power with thermomagnetic switches and pumping group with just pump A.

As you might have noted, as every operation is represented unequivocally by all the others, it is not necessary to indicate the standard options (represented by °) inside the commercial code.

Example of the commercial code: **NS1401LR8PA**

Technical data

Mod. NS	Vers.	1251	1401	1601	1801	2101	2401	1402	1602
Cooling capacity (kW)	(°)	259	294	336	385	443	493	282	317
	L	238	265	308	361	412	454	259	287
	A	276	314	347	420	466	533	304	345
	E	252	291	330	391	432	497	273	314
Total input power (kW)	(°)	91	108	117	145	166	180	102	121
	L	97	113	124	150	170	185	106	125
	A	88	97	104	134	150	165	97	109
	E	90	101	109	140	155	172	101	115
Water flow rate (l/h)	(°)	44550	50570	57790	66220	76200	84800	48500	54520
	L	40940	45580	52980	62090	70860	78090	44550	49360
	A	47470	54010	59680	72240	80150	91680	52290	59340
	E	43340	50050	56760	67250	74300	85480	46960	54010
Pressure drop (kPa)	(°)	42	44	45	58	37	43	39	47
	L	35	36	38	51	32	36	33	39
	A	45	39	25	45	38	47	30	39
	E	38	33	23	39	33	41	24	32
EER	(°)	2,85	2,72	2,87	2,66	2,67	2,75	2,77	2,62
	L	2,45	2,34	2,48	2,41	2,42	2,45	2,44	2,29
	A	3,14	3,24	3,34	3,13	3,11	3,23	3,13	3,17
	E	2,80	2,88	3,03	2,79	2,79	2,89	2,70	2,73
ESEER	(°)	3,81	3,75	3,70	3,73	3,78	3,76	3,88	3,72
	L	3,70	3,64	3,59	3,62	3,67	3,65	3,76	3,61
	A	4,22	4,24	4,30	4,24	4,20	4,28	4,20	4,22
	E	4,09	4,11	4,17	4,11	4,07	4,15	4,07	4,09
Total input current (A)	(°)	159	187	197	238	280	301	177	207
	L	162	192	206	244	284	307	180	212
	A	154	172	181	222	256	279	171	190
	E	152	170	182	225	255	283	170	194
Maximum current (LRA) (A)	(°)-L	236	236	236	331	348	388	269	309
	A-E	236	236	236	338	355	395	269	309
Starting current (FLA) (A)	(°)-L	381	425	425	486	614	678	245	283
	A-E	381	425	425	493	621	685	245	283
Compressors (no./circuit)	(All)	1	1	1	1	1	1	2	2
Fan air flow rate (m³/h)	(°)	116000	116000	110000	110000	150000	145000	116000	116000
	L	82000	82000	82000	82000	110000	104000	82000	82000
	A	110000	106000	106000	136000	180000	174000	106000	106000
	E	70000	74000	81500	94000	113000	118000	74000	77000
Number of fans	(°)-L	6	6	6	6	8	8	6	6
	A-E	6	6	6	8	10	10	6	6
♪ Sound power (dB)	(°)	94	95	97	97	98	98	96	97
	L	86	87	89	89	90	90	88	89
	A	94	95	97	97	98	98	96	97
	E	86	87	89	89	90	90	88	89
♪♪ Sound pressure (dB)	(°)	62	63	65	65	66	66	64	65
	L	54	55	57	57	58	58	56	57
	A	62	63	65	65	66	66	64	65
	E	54	55	57	57	58	58	56	57

Power supply voltage = 400V 3~ 50Hz.

Performance values refer to the following conditions:

♪ Aermec determines the value of sound power on the basis of measurements made in accordance with the legislation 9614-2, in relation to the requirements of the Eurovent certification.

♪♪ Sound pressure measured in free field over reflecting plane (direction factor Q = 2), to 10 meters away from the outer surface of the unit, in accordance with the ISO 3744.

■ Cooling:

- water inlet temperature 12 °C
- water outlet temperature 7 °C
- outside air temp. 35 °C
- Δt = 5 °C.

Technical data

Mod. NS	Vers.	1802	2002	2202	2352	2502	2652	2802	3002
Cooling capacity (kW)	(°)	358	404	450	486	503	541	578	629
	L	325	372	420	443	459	495	530	573
	A	397	450	495	519	543	577	612	661
	E	364	410	453	478	503	539	574	622
Total input power (kW)	(°)	138	154	171	177	187	202	216	225
	L	142	160	181	185	198	211	230	237
	A	127	144	157	166	173	182	197	201
	E	130	150	161	171	181	192	207	210
Water flow rate (l/h)	(°)	61580	69490	77400	83590	86520	93050	99420	108190
	L	5590	63980	72240	76200	78950	85140	91160	98560
	A	68280	77400	85140	89270	93400	99240	105260	113690
	E	62610	70520	77920	82220	86520	92710	98730	106980
Pressure drop (kPa)	(°)	53	36	40	48	50	47	53	44
	L	44	31	35	40	42	39	45	37
	A	35	44	39	42	46	48	55	32
	E	29	37	33	36	39	42	48	28
EER	(°)	2,59	2,62	2,63	2,74	2,70	2,68	2,67	2,79
	L	2,28	2,32	2,33	2,39	2,32	2,34	2,30	2,41
	A	3,13	3,13	3,15	3,13	3,14	3,17	3,11	3,29
	E	2,80	2,73	2,81	2,80	2,78	2,81	2,77	2,96
ESEER	(°)	3,69	3,59	3,56	3,82	3,81	3,73	3,78	3,68
	L	3,58	3,48	3,45	3,71	3,70	3,62	3,67	3,57
	A	4,20	4,23	4,24	4,23	4,25	4,25	4,21	4,28
	E	4,07	4,10	4,11	4,10	4,12	4,12	4,08	4,15
Total input current (A)	(°)	218	261	295	306	322	347	371	384
	L	221	266	301	310	333	354	381	398
	A	215	248	274	288	301	320	339	353
	E	214	247	277	290	303	320	344	352
Maximum current (LRA) (A)	(°)-L	345	372	392	425	458	458	458	472
	A-E	352	379	399	432	465	465	465	472
Starting current (FLA) (A)	(°)-L	325	403	420	480	507	551	553	567
	A-E	332	410	427	487	514	558	560	567
Compressors (no./circuit)	(All)	2	2	2	2	2	2	2	2
Fan air flow rate (m ³ /h)	(°)	110000	145000	145000	145000	145000	152000	152000	226000
	L	82000	104000	104000	104000	104000	108000	108000	164000
	A	144000	187500	180000	176500	173000	173000	173000	212000
	E	96000	124500	120000	123000	126000	130000	136000	155500
Number of fans	(°)-L	6	8	8	8	8	8	8	12
	A-E	8	10	10	10	10	10	10	12
♪ Sound power (dB)	(°)	97	98	98	97	98	98	98	99
	L	89	90	90	90	90	90	91	90
	A	97	98	98	97	98	98	98	99
	E	89	90	90	90	90	90	91	90
♪♪ Sound pressure (dB)	(°)	65	66	66	65	66	66	66	66
	L	57	58	58	58	58	58	59	57
	A	65	66	66	65	66	66	66	66
	E	57	58	58	58	58	58	59	57

Power supply voltage = 400V 3~ 50Hz.

Performance values refer to the following conditions:

♪ Aermec determines the value of sound power on the basis of measurements made in accordance with the legislation 9614-2, in relation to the requirements of the Eurovent certification.

♪♪ Sound pressure measured in free field over reflecting plane (direction factor Q = 2), to 10 meters away from the outer surface of the unit, in accordance with the ISO 3744.

■ Cooling:

- water inlet temperature 12 °C
- water outlet temperature 7 °C
- outside air temp. 35 °C
- Δt = 5 °C.

Technical data

Mod. NS	Vers.	3202	3402	3602	3902	4202	4502	4802	5002
Cooling capacity (kW)	(°)	671	721	771	828	879	936	987	1063
	L	616	669	722	773	815	866	907	984
	A	695	767	839	885	953	999	1066	1155
	E	660	721	782	822	888	928	994	1088
Total input power (kW)	(°)	235	262	290	311	324	345	359	390
	L	248	274	300	320	335	355	370	405
	A	208	238	268	284	298	314	329	360
	E	218	249	280	295	312	327	344	376
Water flow rate (l/h)	(°)	115410	124010	132610	142420	151190	160990	169760	182838
	L	105950	115070	124180	132960	140180	148950	156000	169250
	A	119540	131920	144310	152220	163920	171830	183350	198662
	E	113520	124010	134500	141380	152740	159620	170970	187138
Pressure drop (kPa)	(°)	38	50	58	46	50	40	43	40
	L	32	43	51	40	43	34	36	34
	A	25	35	45	41	46	43	47	42
	E	23	31	39	35	40	37	41	37
EER	(°)	2,86	2,75	2,66	2,66	2,71	2,71	2,75	2,73
	L	2,48	2,44	2,41	2,42	2,43	2,44	2,45	2,43
	A	3,34	3,22	3,13	3,12	3,20	3,18	3,24	3,21
	E	3,03	2,90	2,79	2,79	2,85	2,84	2,89	2,89
ESEER	(°)	3,68	3,68	3,68	3,73	3,73	3,73	3,67	3,71
	L	3,57	3,57	3,57	3,62	3,62	3,62	3,56	3,60
	A	4,30	4,26	4,19	4,18	4,24	4,17	4,17	4,25
	E	4,17	4,13	4,06	4,05	4,11	4,04	4,04	4,12
Total input current (A)	(°)	394	435	477	519	540	582	603	648
	L	411	450	488	527	551	591	613	670
	A	362	403	444	478	501	535	558	614
	E	364	407	450	480	508	538	566	626
Maximum current (LRA) (A)	(°)-L	472	567	662	679	719	736	776	866
	A-E	472	574	676	693	733	750	790	880
Starting current (FLA) (A)	(°)-L	567	628	654	778	825	900	900	1051
	A-E	567	635	661	792	839	914	914	1065
Compressors (no./circuit)	(All)	2	2	2	2	2	2	2	2
Fan air flow rate (m³/h)	(°)	220000	220000	220000	260000	255000	295000	290000	297000
	L	164000	164000	164000	192000	186000	214000	208000	212000
	A	212000	242000	272000	316000	310000	354000	348000	346000
	E	163000	175500	188000	207000	212000	231000	236000	254000
Number of fans	(°)-L	12	12	12	14	14	16	16	16
	A-E	12	14	16	18	18	20	20	20
♪ Sound power (dB)	(°)	99	99	99	100	100	100	100	101
	L	91	91	92	92	92	92	92	93
	A	99	99	99	100	100	100	100	101
	E	91	91	92	92	92	92	92	93
♪♪ Sound pressure (dB)	(°)	66	66	66	67	67	67	67	68
	L	58	58	59	59	59	59	59	60
	A	66	66	66	67	67	67	67	68
	E	58	58	59	59	59	59	59	60

Power supply voltage = 400V 3~ 50Hz.

Performance values refer to the following conditions:

♪ Aermec determines the value of sound power on the basis of measurements made in accordance with the legislation 9614-2, in relation to the requirements of the Eurovent certification.

♪♪ Sound pressure measured in free field over reflecting plane (direction factor Q = 2), to 10 meters away from the outer surface of the unit, in accordance with the ISO 3744.

■ Cooling:

- water inlet temperature 12 °C
- water outlet temperature 7 °C
- outside air temp. 35 °C
- Δt = 5 °C.

Technical data

Mod. NS	Vers.	5202	5402	5702	6003	6303	6603	6903	7203
Cooling capacity (kW)	(°)	1140	1185	1230	1264	1321	1372	1430	1480
	L	1060	1105	1150	1176	1227	1268	1319	1361
	A	1244	1287	1330	1372	1419	1486	1532	1600
	E	1160	1198	1236	1278	1319	1384	1425	1490
Total input power (kW)	(°)	420	432	444	469	490	504	525	539
	L	440	454	467	485	505	520	540	555
	A	390	408	426	432	448	463	479	494
	E	407	426	444	452	467	484	499	516
Water flow rate (l/h)	(°)	196082	203822	211562	217410	227210	235980	245960	254560
	L	182322	190062	197802	202270	211040	218100	226870	234090
	A	213970	221366	228763	235980	244070	255589	263500	275200
	E	199522	206058	212594	219820	226870	238050	245100	256280
Pressure drop (kPa)	(°)	36	39	42	53	46	48	41	43
	L	31	34	37	46	40	41	35	36
	A	37	39	42	45	43	46	44	47
	E	32	34	36	39	37	40	38	41
EER	(°)	2,71	2,74	2,77	2,69	2,69	2,72	2,72	2,75
	L	2,41	2,44	2,46	2,43	2,43	2,44	2,44	2,45
	A	3,19	3,15	3,12	3,18	3,17	3,21	3,20	3,24
	E	2,85	2,82	2,78	2,83	2,82	2,86	2,86	2,89
ESEER	(°)	3,71	3,69	3,69	3,76	3,78	3,76	3,81	3,76
	L	3,60	3,58	3,58	3,65	3,67	3,65	3,70	3,65
	A	4,26	4,20	4,15	4,28	4,25	4,28	4,29	4,28
	E	4,13	4,07	4,03	4,15	4,12	4,15	4,16	4,15
Total input current (A)	(°)	693	715	736	778	820	841	883	904
	L	726	750	774	795	834	858	898	921
	A	655	685	715	723	757	780	814	837
	E	670	700	735	733	763	791	821	849
Maximum current (LRA) (A)	(°)-L	924	968	1012	1050	1067	1107	1124	1164
	A-E	938	975	1012	1071	1088	1128	1145	1185
Starting current (FLA) (A)	(°)-L	1109	1228	1227	1013	1072	1064	1122	1122
	A-E	1123	1235	1227	1034	1093	1085	1143	1143
Compressors (no./circuit)	(All)	2	2	2	3	3	3	3	3
Fan air flow rate (m ³ /h)	(°)	304000	324000	360000	365000	405000	400000	440000	435000
	L	216000	240000	267000	268000	296000	290000	318000	312000
	A	346000	346000	346000	446000	490000	484000	528000	522000
	E	272000	283500	295000	306000	325000	330000	349000	354000
Number of fans	(°)-L	16	18	20	20	22	22	24	24
	A-E	20	20	20	26	28	28	30	30
♪ Sound power (dB)	(°)	101	101	101	101	101	101	102	102
	L	93	93	93	93	93	93	93	94
	A	101	101	101	101	101	101	102	102
	E	93	93	93	93	93	93	93	94
♪♪ Sound pressure (dB)	(°)	68	68	68	68	68	68	69	68
	L	60	60	60	60	60	60	60	61
	A	68	68	68	68	68	68	68	68
	E	60	60	60	60	60	60	59	60

Power supply voltage = 400V 3~ 50Hz.

Performance values refer to the following conditions:

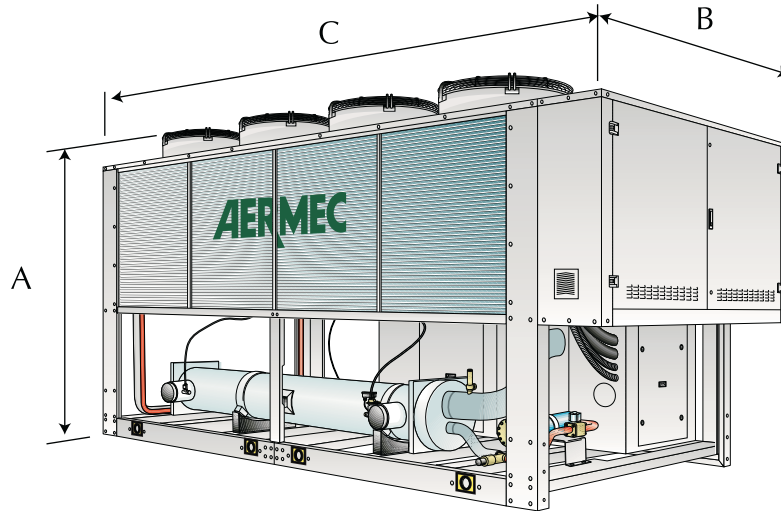
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♪♪ Sound pressure measured in free field over reflecting plane (direction factor Q = 2), to 10 meters away from the outer surface of the unit, in accordance with the ISO 3744.

■ Cooling:

- water inlet temperature 12 °C
- water outlet temperature 7 °C
- outside air temp. 35 °C
- Δt = 5 °C.

Dimensions (mm)



Mod. NS			1251	1401	1601	1801	2101	2401	1402	1602
Height	(A)		2450	2450	2450	2450	2450	2450	2450	2450
Width	(B)		2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
Depth	(C)	%L	3780	3780	3780	3780	4770	4770	3780	3780
		A/E	3780	3780	3780	4770	5750	5750	3780	3780
Weight when empty	kg	%L	2910	3060	3150	3650	4230	4570	3250	3270
		A/E	3050	3230	3250	4330	4920	5150	3420	3560
Mod. NS			1802	2002	2202	2352	2502	2652	2802	3002
Height	(A)		2450	2450	2450	2450	2450	2450	2450	2450
Width	(B)		2200	2200	2200	2200	2200	2200	2200	2200
Depth	(C)	%L	3780	4770	4770	4770	4770	5750	5750	7160
		A/E	4770	5750	5750	5750	5750	5750	5750	7160
Weight when empty	kg	%L	3460	4270	4740	4800	4900	5320	5330	6180
		A/E	3900	4700	5270	5390	5500	5510	5520	6450
Mod. NS			3202	3402	3602	3902	4202	4502	4802	5002
Height	(A)		2450	2450	2450	2450	2450	2450	2450	2450
Width	(B)		2200	2200	2200	2200	2200	2200	2200	2200
Depth	(C)	%L	7160	7160	7160	8150	8150	9140	9140	10120
		A/E	7160	8150	9140	10120	10120	11100	11100	11100
Weight when empty	kg	%L	6270	6770	7280	7830	8180	8750	9090	9360
		A/E	6520	7540	8610	9180	9410	9820	10200	10450
Mod. NS			5202	5402	5702	6003	6303	6603	6903	7203
Height	(A)		2450	2450	2450	2450	2450	2450	2450	2450
Width	(B)		2200	2200	2200	2200	2200	2200	2200	2200
Depth	(C)	%L	11100	11100	11100	11530	12520	12520	13510	13510
		A/E	11100	11100	11100	14490	15470	15470	16450	16450
Weight when empty	kg	%L	10100	10200	10350	11390	12210	12250	13230	13570
		A/E	10750	10800	10850	13760	14330	14560	14970	15350

For transportation reasons, NS A/E sizes from 6003 to 7203 are sent separately, consisting of two compressors and their standard electrical box (placed in front of the machine) and one module with a compressor and the electrical box at the side of the compressors under

the slatted exchange battery. On the site, it is only necessary to connect the two units electrically. For greater information, refer to the technical and/or installation manual.