AERMEC

NEW

NSG
1402/9603
cooling only

Air/Water chillers for outdoor installation
Screw compressors, shell and tube heat exchangers and axial fans
Cooling capacity 443 - 1578kW

HFO Refrigerant R1234ze

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Aermec
participate in the EUROVENT
program: LCP
the products are present on the site
www.eurovent-certification.com

- **HIGH EFFICIENCY ALSO AT PARTIAL LOADS**
- **MICROCHANNEL COIL**
- **NIGHT MODE**

Characteristics

Outdoor chillers for the production of chilled water with high-efficiency screw compressors, with cooling capacity adjustment via continuous modulation. Axial fans, microchannel external coils, plant side shell and tube heat exchanger. In the units (with desuperheater or total recovery) there is also the possibility of producing hot water for free. The base, the structure and the panels are made of steel treated with rustproof polyester paint.

HFO R1234ze is a mixture featuring
ODP=0 e GWP (**Global Warming Potential) = 7**,
R134a GWP = 1430, with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Versions

NSG_°	Standard
NSG_L	Standard low noise
NSG_A	High efficiency
NSG_E	High efficiency low noise
NSG_U	Very high efficiency
NSG_N	Very high efficiency low noise

Range of operation: Work up to 45°C of outdoor air temperature at full load, depending on size and version. For further details refer to the selection software/technical documentation.

- Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.
- The full range uses aluminium microchannel coils, ensuring very high levels of efficiency. This allows using less refrigerant compared to traditional copper coils.
- The full range uses electronic thermostatic valve . The possibility of using this valve brings significant benefits, in particular when the refrigerant is working at partial loads to the benefit of energy efficiency of the unit.
- Standard differential pressure switch
- Possibility of integrated hydronic kit that encloses the main hydraulic components; it is available in different configurations with one or two pumps, with different static pressures available
- Microprocessor adjustment, with keyboard and LCD display, for easy consultation and intervention on the unit via a menu available in several languages. Adjustment includes complete management of the alarms and their log.
- The presence of a programmable timer allows setting time bands of operation and a possible second set-point
- The temperature control takes place with the **integral proportional logic,** based on the water output temperature.
- **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation, since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

" Night Mode is standard on all low noise versions. For all other versions either the DCPX accessory or "J" inverter fan must be specified to allow Night Mode to operate. "

Accessories

- **AER485P1**: RS-485 interface for supervision systems with MODBUS protocol.
- **AERWEB300:** Accessory AERWEB allows remote control of a chiller through a common PC and an ethernet connection over a common browser; 4 versions available:
  AERWEB300-6: Web server to monitor and remote control max. 6 units in RS485 network;
  AERWEB300-18: Web server to monitor and remote control max. 18 units in RS485 network;
  AERWEB300-6G: Web server to monitor and remote control max. 6 units in RS485 network with integrated GPRS modem;
  AERWEB300-18G: Web server to monitor and remote control max. 18 units in RS485 network with integrated GPRS modem;
- **PRV3:** Remote control of the chiller operating functions.
- **MULTICHILLER:** Control system for multiple parallel installed constant flow chillers providing individual chiller on/off and control capability.
- **AVX:** Spring anti-vibration mounts..

Accessories factory fitted only

- **KRS:** Evaporator trace heating
- **RIFNSM:** Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current
- **GP:** Anti-intrusion grids.

Compatibility of accessories

Mod. NSG	vers.	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002	3202	3402	3602	3902	4202	4502
AER485P1		•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x2)
AERWEB300		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PRV3		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AVX	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Accessories factory fitted only																	
KRS	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

		4802	5202	5602	6002	6402	6503	6703	6903	7203	8403	9603
AER485P1		•(x2)	•(x2)	•(x2)	•(x2)	•(x2)	•(x3)	•(x3)	•(x3)	•(x3)	•(x3)	•(x3)
AERWEB300		•	•	•	•	•	•	•	•	•	•	•
PRV3		•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER		•	•	•	•	•	•	•	•	•	•	•
AVX	(1)	•	•	•	•	•	•	•	•	•	•	•
Accessories factory fitted only												
KRS	(1)	•	•	•	•	•	•	•	•	•	•	•
GP	(1)	•	•	•	•	•	•	•	•	•	•	•

(1) Accessories to be defined for compatibility
(x2) Indicates the amount to order

Unit Configurator

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

Field		Description
1,2,3		**NSG**
4,5,6,7		**Sizes**
		1402-1602-1802-2002-2202-2352-2502-2652-2802-3002-3202-3402-3602-3902-4202-4502-4802-5202-5602-6002-6402 6503-6703-6903-7203-8403-9603
8		**Operational limits**
	X	Electronic thermostatic valve (temperature of water produced up to +4 °C)
9		**Model**
	°	Cooling Only
10		**Heat recovery**
	°	Without heat recovery
	D	With desuperheater
11		**Version**
	°	Standard
	L	Low noise Standard
	A	High efficiency
	E	Low noise high efficency
	U	Very high efficiency
	N	Low noise very high efficiency
12		**Coils**
	°	Aluminium microchannel
	O	Painted aluminium microchannel
	R	Copper - Copper
	S	Copper - Thinned
13		**Fans**
	°	Standard
	J	Inverter
14		**Power supply**
	°	400V/3/50Hz with fuses
	8	400V/3/50Hz with magnet circuit breakers
	2	230V/3/50Hz with fuses **(2)**
	4	230V/3/50Hz with magnet circuit breakers **(2)**
	5	500V/3/50Hz with fuses **(3)**
	9	500V/3/50Hz with magnet circuit breakers **(3)**
15-16		**Integrated hydronic kit**
	00	Without hydronic kit
	PA	Pumping unit (pump A)
	PB	Pumping unit (pump B)
	PC	Pumping unit (pump C)
	PD	Pumping unit (pump D)
	PE	Pumping unit (pump E)
	PF	Pumping unit (pump F)
	PG	Pumping unit (pump G)
	PH	Pumping unit (pump H)
	PI	Pumping unit (pump I)
	PJ	Pumping unit (pump J)
	DA	Pumping unit (pump A and stand-by pump)
	DB	Pumping unit (pump B and stand-by pump)
	DC	Pumping unit (pump C and stand-by pump)
	DD	Pumping unit (pump D and stand-by pump)
	DE	Pumping unit (pump E and stand-by pump)
	DF	Pumping unit (pump F and stand-by pump)
	DG	Pumping unit (pump G and stand-by pump)
	DH	Pumping unit (pump H and stand-by pump)
	DI	Pumping unit (pump I and stand-by pump)
	DJ	Pumping unit (pump J and stand-by pump)
Operation of pumps in parallel		
	TF	Double static pressure pump (pump F)
	TG	Double static pressure pump (pump G)
	TH	Double static pressure pump (pump H)
	TI	Double static pressure pump (pump I)
	TJ	Double static pressure pump (pump J)

(2) 230V/3/50Hz available only for sizes from 1402÷2202
(3) 500V/3/50Hz available only for sizes from 1402÷3202

Technical Data

NSG - °				1402	1602	1802	2002	2202	2352	2502
		V/ph/Hz					400V/3/50Hz			
12°C / 7°C	Cooling capacity	(1)	kW	228	261	298	334	358	389	402
	Total input power	(1)	kW	74	86	100	108	120	130	138
	EER	(1)		3,07	3,04	2,96	3,08	2,99	3,00	2,91
	ESEER	(1)		3,94	3,99	3,93	4,05	4,04	3,99	3,98
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	39360	45000	51280	57520	61730	67100	69330
	Pressure drops	(1)	kPa	14	18	16	21	24	20	22
NSG - L										
12°C / 7°C	Cooling capacity	(1)	kW	228	261	298	335	373	386	415
	Total input power	(1)	kW	73	84	98	113	120	128	138
	EER	(1)		3,13	3,11	3,04	2,97	3,11	3,01	3,00
	ESEER	(1)		4,03	4,12	4,03	4,03	4,09	4,07	4,08
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	39210	45060	51430	57680	64310	66580	71470
	Pressure drops	(1)	kPa	15	18	17	15	19	20	16
NSG - A										
12°C / 7°C	Cooling capacity	(1)	kW	233	267	307	346	383	397	429
	Total input power	(1)	kW	74	84	97	110	118	126	135
	EER	(1)		3,16	3,19	3,17	3,15	3,23	3,15	3,18
	ESEER	(1)		4,11	4,16	4,08	4,09	4,14	4,12	4,13
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	40120	46030	52840	59650	65990	68450	73840
	Pressure drops	(1)	kPa	15	19	18	16	20	22	17
NSG - E										
12°C / 7°C	Cooling capacity	(1)	kW	243	281	317	359	387	413	428
	Total input power	(1)	kW	74	86	97	111	122	127	133
	EER	(1)		3,30	3,25	3,28	3,23	3,17	3,26	3,21
	ESEER	(1)		4,20	4,25	4,27	4,21	4,17	4,25	4,21
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	41920	48360	54640	61790	66710	71120	73760
	Pressure drops	(1)	kPa	12	11	14	9	11	12	13
NSG - U										
12°C / 7°C	Cooling capacity	(1)	kW	249	288	325	369	399	424	440
	Total input power	(1)	kW	74	86	97	110	120	126	132
	EER	(1)		3,36	3,36	3,35	3,35	3,33	3,36	3,33
	ESEER	(1)		4,25	4,30	4,32	4,26	4,22	4,30	4,26
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	42910	49680	55930	63520	68770	72950	75740
	Pressure drops	(1)	kPa	13	11	14	10	11	13	14
NSG - N										
12°C / 7°C	Cooling capacity	(1)	kW	245	283	318	364	394	417	433
	Total input power	(1)	kW	73	84	95	108	119	125	131
	EER	(1)		3,33	3,36	3,34	3,38	3,32	3,35	3,31
	ESEER	(1)		4,27	4,29	4,38	4,25	4,17	4,23	4,20
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	42200	48820	54780	62730	67870	71820	74530
	Pressure drops	(1)	kPa	13	11	15	9	11	13	13

Date (14511:2013)

(1) Water evaporator 12°C/7°C, External air 35°C

				1402	1602	1802	2002	2202	2352	2502
Electrical data										
Total input currente (cooling)	°	(2)	A	138	156	174	192	214	233	248
	L	(2)	A	131	148	165	192	208	224	242
	A	(2)	A	139	155	170	195	214	229	246
	E	(2)	A	133	152	163	189	211	222	237
	U	(2)	A	141	158	172	196	217	231	246
	N	(2)	A	132	149	162	185	207	219	234
Compressors two screw										
Compressors / Circuit			n°	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Refrigerant			Tipo				HFOR1234ze			
System side exchanger - Shell and tube										
Exchanger	°		n°	1	1	1	1	1	1	1
	L		n°	1	1	1	1	1	1	1
	A		n°	1	1	1	1	1	1	1
	E		n°	1	1	1	1	1	1	1
	U		n°	1	1	1	1	1	1	1
	N		n°	1	1	1	1	1	1	1
hydraulic connections (In/Out)			Ø				Please refer to technical documentation			
Ventilatori assiali standard										
Fan	°		n°	6	6	6	8	8	8	8
	L		n°	8	8	8	8	10	10	10
	A		n°	8	8	8	8	10	10	10
	E		n°	8	8	10	10	10	12	12
	U		n°	8	8	10	10	10	12	12
	N		n°	10	10	12	12	12	14	14
Sound data (cooling)										
Sound power level	°		dB(A)	97	97	97	98	98	98	98
	L		dB(A)	89	89	89	89	90	91	91
	A		dB(A)	97	97	98	98	98	98	98
	E		dB(A)	89	89	90	90	90	91	91
	U		dB(A)	97	97	98	98	98	99	99
	N		dB(A)	90	90	91	91	91	91	91

(2) Unit standar configuration without hydronic kit

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Technical Data

NSG - °				2652	2802	3002	3202	3402	3602	3902
	V/ph/Hz						400V/3/50Hz			
12°C / 7°C	Cooling capacity	(1)	kW	443	462	506	531	566	623	675
	Total input power	(1)	kW	152	163	167	176	194	215	228
	EER	(1)		2,92	2,84	3,03	3,02	2,92	2,90	2,96
	ESEER	(1)		3,93	3,92	3,98	3,99	3,98	3,93	4,00
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	76370	79630	87140	91490	97510	107320	116360
	Pressure drops	(1)	kPa	18	19	17	19	21	24	29
NSG - L										
12°C / 7°C	Cooling capacity	(1)	kW	446	476	497	546	601	645	706
	Total input power	(1)	kW	144	156	165	179	193	213	231
	EER	(1)		3,09	3,06	3,01	3,05	3,11	3,03	3,05
	ESEER	(1)		4,08	4,10	4,05	4,05	4,11	4,08	4,08
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	76820	82060	85710	94100	103610	111050	121680
	Pressure drops	(1)	kPa	19	16	17	19	15	18	22
NSG - A										
12°C / 7°C	Cooling capacity	(1)	kW	458	491	511	560	619	668	730
	Total input power	(1)	kW	142	153	161	172	188	206	225
	EER	(1)		3,22	3,22	3,18	3,26	3,30	3,24	3,25
	ESEER	(1)		4,13	4,16	4,11	4,11	4,16	4,14	4,13
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	78940	84630	88070	96570	106680	115150	125820
	Pressure drops	(1)	kPa	20	16	18	20	16	19	24
NSG - E										
12°C / 7°C	Cooling capacity	(1)	kW	471	494	514	549	608	654	713
	Total input power	(1)	kW	144	153	160	172	189	205	222
	EER	(1)		3,28	3,22	3,21	3,19	3,22	3,19	3,21
	ESEER	(1)		4,25	4,21	4,21	4,19	4,21	4,20	4,21
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	81220	85060	88510	94660	104650	112670	122950
	Pressure drops	(1)	kPa	15	16	18	19	16	18	23
NSG - U										
12°C / 7°C	Cooling capacity	(1)	kW	483	507	525	564	622	674	734
	Total input power	(1)	kW	144	152	158	168	186	201	219
	EER	(1)		3,36	3,33	3,34	3,36	3,35	3,35	3,36
	ESEER	(1)		4,30	4,26	4,26	4,24	4,26	4,25	4,26
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	83210	87280	90540	97100	107230	116140	126520
	Pressure drops	(1)	kPa	16	17	18	20	17	20	24
NSG - N										
12°C / 7°C	Cooling capacity	(1)	kW	475	498	517	552	612	669	726
	Total input power	(1)	kW	141	149	157	166	183	200	216
	EER	(1)		3,36	3,33	3,30	3,33	3,35	3,34	3,36
	ESEER	(1)		4,23	4,17	4,17	4,16	4,20	4,19	4,19
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	81800	85740	89040	95110	105500	115230	125190
	Pressure drops	(1)	kPa	15	17	18	20	16	20	24

Date (14511:2013)

(1) Water evaporator 12°C/7°C, External air 35°C

				2652	2802	3002	3202	3402	3602	3902
Electrical data										
Total input currente (cooling)	°	(2)	A	271	289	297	309	332	359	390
	L	(2)	A	252	270	284	303	318	342	375
	A	(2)	A	260	276	287	303	322	344	380
	E	(2)	A	251	267	279	293	310	334	368
	U	(2)	A	263	277	287	298	319	342	377
	N	(2)	A	249	264	274	287	306	324	359
Compressors two screw										
Compressors / Circuit			n°	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Refrigerant			Tipo				HFOR1234ze			
System side exchanger - Shell and tube										
Exchanger	°		n°	1	1	1	1	1	1	1
	L		n°	1	1	1	1	1	1	1
	A		n°	1	1	1	1	1	1	1
	E		n°	1	1	1	1	1	1	1
	U		n°	1	1	1	1	1	1	1
	N		n°	1	1	1	1	1	1	1
hydraulic connections (In/Out)			Ø				Please refer to technical documentation			
Ventilatori assiali standard										
Fan	°		n°	8	8	10	10	10	10	12
	L		n°	12	12	12	12	14	14	16
	A		n°	12	12	12	12	14	14	16
	E		n°	14	14	14	14	16	16	18
	U		n°	14	14	14	14	16	16	18
	N		n°	16	16	16	16	18	20	22
Sound data (cooling)										
Sound power level	°		dB(A)	98	98	99	100	100	100	101
	L		dB(A)	91	91	91	91	91	91	92
	A		dB(A)	99	99	99	99	99	99	100
	E		dB(A)	92	92	92	92	93	93	93
	U		dB(A)	99	99	99	99	100	100	100
	N		dB(A)	92	92	92	92	93	93	93

(2) Unit standar configuration without hydronic kit

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Technical Data

NSG - °				4202	4502	4802	5202	5602	6002	6402
		V/ph/Hz					400V/3/50Hz			
12°C / 7°C	Cooling capacity	(1)	kW	738	791	834	873	895	940	987
	Total input power	(1)	kW	252	263	282	289	302	321	330
	EER	(1)		2,93	3,01	2,96	3,02	2,96	2,93	2,99
	ESEER	(1)		3,93	4,00	3,98	3,98	3,98	3,93	3,99
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	127290	136400	143740	150570	154380	162220	170230
	Pressure drops	(1)	kPa	33	38	28	31	33	38	42
NSG - L										
12°C / 7°C	Cooling capacity	(1)	kW	742	805	840	892	932	981	1021
	Total input power	(1)	kW	252	267	284	298	306	315	334
	EER	(1)		2,94	3,02	2,96	3,00	3,05	3,11	3,05
	ESEER	(1)		4,02	4,05	4,04	4,03	4,05	4,06	4,02
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	127960	138770	144850	153740	160700	169130	176070
	Pressure drops	(1)	kPa	24	31	33	24	26	31	33
NSG - A										
12°C / 7°C	Cooling capacity	(1)	kW	769	832	870	922	960	1009	1052
	Total input power	(1)	kW	244	259	274	291	302	313	330
	EER	(1)		3,16	3,22	3,18	3,16	3,18	3,23	3,18
	ESEER	(1)		4,08	4,10	4,10	4,09	4,11	4,11	4,08
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	132590	143490	150130	158890	165540	173990	181360
	Pressure drops	(1)	kPa	26	33	36	26	28	33	35
NSG - E										
12°C / 7°C	Cooling capacity	(1)	kW	763	812	876	899	944	999	1028
	Total input power	(1)	kW	236	256	273	284	293	310	319
	EER	(1)		3,23	3,18	3,20	3,17	3,22	3,22	3,23
	ESEER	(1)		4,21	4,17	4,22	4,13	4,14	4,14	4,22
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	131540	139970	150920	155010	162580	172130	177050
	Pressure drops	(1)	kPa	26	32	24	25	16	16	19
NSG - U										
12°C / 7°C	Cooling capacity	(1)	kW	783	836	901	926	970	1026	1054
	Total input power	(1)	kW	232	250	268	278	288	306	316
	EER	(1)		3,37	3,34	3,36	3,33	3,36	3,35	3,34
	ESEER	(1)		4,26	4,22	4,27	4,18	4,18	4,19	4,27
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	135020	144090	155200	159640	167100	176680	181500
	Pressure drops	(1)	kPa	28	34	25	27	17	17	20
NSG - N										
12°C / 7°C	Cooling capacity	(1)	kW	766	833	879	924	960	1002	1035
	Total input power	(1)	kW	230	248	261	275	287	296	312
	EER	(1)		3,33	3,36	3,36	3,36	3,35	3,38	3,32
	ESEER	(1)		4,15	4,17	4,18	4,21	4,14	4,16	4,13
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A	A
	Water flow rate	(1)	l/h	131990	143570	151590	159270	165390	172630	178330
	Pressure drops	(1)	kPa	27	23	29	29	17	17	20

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(1) Water evaporator 12°C/7°C, External air 35°C

				4202	4502	4802	5202	5602	6002	6402
Electrical data										
Total input currente (cooling)	°	(2)	A	434	454	482	500	524	558	581
	L	(2)	A	416	437	465	490	507	533	563
	A	(2)	A	417	440	466	502	524	554	583
	E	(2)	A	399	428	450	475	495	519	544
	U	(2)	A	411	437	461	486	509	536	564
	N	(2)	A	395	413	435	458	480	509	537
Compressors two screw										
Compressors / Circuit			n°	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Refrigerant			Tipo				HFOR1234ze			
System side exchanger - Shell and tube										
Exchanger	°		n°	1	1	1	1	1	1	1
	L		n°	1	1	1	1	1	1	1
	A		n°	1	1	1	1	1	1	1
	E		n°	1	1	1	1	2	2	2
	U		n°	1	1	1	1	2	2	2
	N		n°	1	2	2	2	2	2	2
hydraulic connections (In/Out)			Ø				Please refer to technical documentation			
Ventilatori assiali standard										
Fan	°		n°	12	14	14	16	16	16	18
	L		n°	16	18	18	18	20	22	22
	A		n°	16	18	18	18	20	22	22
	E		n°	20	20	22	22	24	26	28
	U		n°	20	20	22	22	24	26	28
	N		n°	22	26	28	30	32	32	32
Sound data (cooling)										
Sound power level	°		dB(A)	101	101	101	102	102	102	102
	L		dB(A)	93	93	93	93	94	94	94
	A		dB(A)	100	100	101	102	102	102	102
	E		dB(A)	94	94	94	94	94	94	94
	U		dB(A)	101	101	101	102	102	102	102
	N		dB(A)	93	94	94	95	95	95	95

(2) Unit standar configuration without hydronic kit

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Technical Data

NSG - °				6503	6703	6903	7203	8403	9603
	V/ph/Hz			400V/3/50Hz					
12°C / 7°C	Cooling capacity	(1)	kW	1058	1093	1214	1267	1331	1408
	Total input power	(1)	kW	355	375	408	419	462	512
	EER	(1)		2,98	2,91	2,98	3,02	2,88	2,75
	ESEER	(1)		3,98	3,93	3,99	3,99	3,93	3,92
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A
	Water flow rate	(1)	l/h	182470	188460	209100	218340	229400	242630
	Pressure drops	(1)	kPa	29	31	20	22	25	28
NSG - L									
12°C / 7°C	Cooling capacity	(1)	kW	1082	1119	1221	1267	1381	1514
	Total input power	(1)	kW	358	379	402	421	465	505
	EER	(1)		3,03	2,95	3,04	3,01	2,97	3,00
	ESEER	(1)		4,07	4,02	4,08	4,05	4,02	4,05
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A
	Water flow rate	(1)	l/h	186480	192760	210460	218450	238070	261080
	Pressure drops	(1)	kPa	22	24	31	33	26	32
NSG - A									
12°C / 7°C	Cooling capacity	(1)	kW	1120	1159	1261	1311	1431	1578
	Total input power	(1)	kW	347	366	390	408	451	496
	EER	(1)		3,23	3,17	3,23	3,21	3,17	3,18
	ESEER	(1)		4,12	4,08	4,14	4,11	4,08	4,10
	Cooling Energy Class Eurovent	(1)		A	A	A	A	A	A
	Water flow rate	(1)	l/h	193010	199780	217420	226030	246560	272000
	Pressure drops	(1)	kPa	24	26	33	36	27	35
NSG - E									
12°C / 7°C	Cooling capacity	(1)	kW	1100	1150	1241	1299	n.d.	n.d.
	Total input power	(1)	kW	343	358	392	408	n.d.	n.d.
	EER	(1)		3,21	3,21	3,16	3,19	n.d.	n.d.
	ESEER	(1)		4,23	4,25	4,12	4,17	n.d.	n.d.
	Cooling Energy Class Eurovent	(1)		A	A	A	A	n.d.	n.d.
	Water flow rate	(1)	l/h	189610	198200	213880	223860	n.d.	n.d.
	Pressure drops	(1)	kPa	23	26	32	24	n.d.	n.d.
NSG - U									
12°C / 7°C	Cooling capacity	(1)	kW	1132	1181	1278	1337	n.d.	n.d.
	Total input power	(1)	kW	337	352	383	399	n.d.	n.d.
	EER	(1)		3,35	3,35	3,34	3,35	n.d.	n.d.
	ESEER	(1)		4,28	4,30	4,17	4,22	n.d.	n.d.
	Cooling Energy Class Eurovent	(1)		A	A	A	A	n.d.	n.d.
	Water flow rate	(1)	l/h	195000	203490	220310	230420	n.d.	n.d.
	Pressure drops	(1)	kPa	24	28	34	25	n.d.	n.d.
NSG - N									
12°C / 7°C	Cooling capacity	(1)	kW	1119	n.d.	n.d.	n.d.	n.d.	n.d.
	Total input power	(1)	kW	333	n.d.	n.d.	n.d.	n.d.	n.d.
	EER	(1)		3,36	n.d.	n.d.	n.d.	n.d.	n.d.
	ESEER	(1)		4,18	n.d.	n.d.	n.d.	n.d.	n.d.
	Cooling Energy Class Eurovent	(1)		A	n.d.	n.d.	n.d.	n.d.	n.d.
	Water flow rate	(1)	l/h	192800	n.d.	n.d.	n.d.	n.d.	n.d.
	Pressure drops	(1)	kPa	24	n.d.	n.d.	n.d.	n.d.	n.d.

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(1) Water evaporator 12°C/7°C, External air 35°C ; n.d. Versions not available

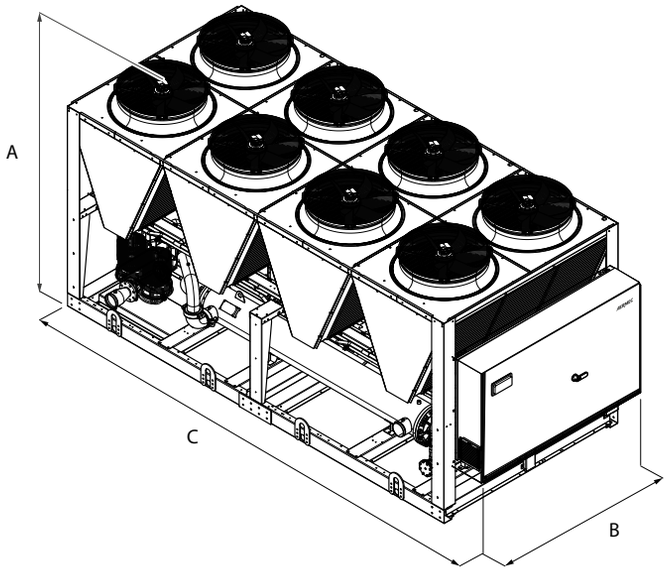
				6503	6703	6903	7203	8403	9603
Electrical data									
Total input currente (cooling)	°	(2)	A	609	649	701	728	805	900
	L	(2)	A	583	623	670	699	763	848
	A	(2)	A	588	625	676	701	769	866
	E	(2)	A	572	599	656	673	/	/
	U	(2)	A	586	617	668	689	/	/
	N	(2)	A	557	/	/	/	/	/
Compressors two screw									
Compressors / Circuit			n°	3/3	3/3	3/3	3/3	3/3	3/3
Refrigerant			Tipo	HFOR1234ze					
System side exchanger - Shell and tube									
Exchanger	°		n°	1	1	1	1	1	1
	L		n°	2	2	2	2	2	2
	A		n°	2	2	2	2	2	2
	E		n°	2	2	2	2	/	/
	U		n°	2	2	2	2	/	/
	N		n°	2	/	/	/	/	/
hydraulic connections (In/Out)			Ø	Please refer to technical documentation					
Ventilatori assiali standard									
Fan	°		n°	18	18	20	22	22	22
	L		n°	24	24	28	28	30	34
	A		n°	24	24	28	28	30	34
	E		n°	28	30	30	32	0	0
	U		n°	28	30	30	32	0	0
	N		n°	34	0	0	0	0	0
Sound data (cooling)									
Sound power level	°		dB(A)	102	102	103	103	103	103
	L		dB(A)	94	94	94	94	94	95
	A		dB(A)	102	102	102	102	103	104
	E		dB(A)	94	94	94	95	/	/
	U		dB(A)	102	102	102	102	/	/
	N		dB(A)	95	/	/	/	/	/

(2) Unità in configurazione ed esecuzione standard, senza kit idronico integrato

Potenza sonora Aermec determina il valore della potenza sonora sulla base di misure effettuate in accordo con la normativa UNI EN ISO 9614-2, nel rispetto della certificazione Eurovent.

Pressione sonora (Funzionamento a freddo) Pressione sonora misurata in campo libero, a 10 m di distanza dalla superficie esterna dell'unità (in accordo con la UNI EN ISO 3744).

Dimensioni e Pesi



Mod. NSG			Vers	1402	1602	1802	2002	2202	2352	2502
Height	(mm)	A	Tutte	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	Tutte	2200	2200	2200	2200	2200	2200	2200
Depth	(mm)	C	°	3970	3970	3970	5160	5160	5160	5160
			L	5160	5160	5160	5160	6350	6350	6350
			A	5160	5160	5160	5160	6350	6350	6350
			E	5160	5160	6350	6350	6350	7540	7540
			U	5160	5160	6350	6350	6350	7540	7540
			N	6350	6350	7540	7540	7540	8730	8730

Mod. NSG			Vers	2652	2802	3002	3202	3402	3602	3902
Height	(mm)	A	Tutte	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	Tutte	2200	2200	2200	2200	2200	2200	2200
Depth	(mm)	C	°	5160	5160	6350	6350	6350	6350	7540
			L	7540	7540	7540	7540	8730	8730	9920
			A	7540	7540	7540	7540	8730	8730	9920
			E	8730	8730	8730	8730	9920	9920	11110
			U	8730	8730	8730	8730	9920	9920	11110
			N	9920	9920	9920	9920	11110	12300	13490

Mod. NSG			Vers	4202	4502	4802	5202	5602	6002	6402
Height	(mm)	A	Tutte	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	Tutte	2200	2200	2200	2200	2200	2200	2200
Depth	(mm)	C	°	7540	8730	8730	9920	9920	9920	11110
			L	9920	11110	11110	11110	12300	13490	13490
			A	9920	11110	11110	11110	12300	13490	13490
			E	12300	12300	13490	13490	15080	16270	17460
			U	12300	12300	13490	13490	15080	16270	17460
			N	13490	16270	17460	18650	19840	19840	19840

Mod. NSG			Vers	6503	6703	6903	7203	8403	9603
Height	(mm)	A	Tutte	2450	2450	2450	2450	2450	2450
Width	(mm)	B	Tutte	2200	2200	2200	2200	2200	2200
Depth	(mm)	C	°	11110	11110	12300	13490	13490	13490
			L	15080	15080	17460	17460	18650	21030
			A	15080	15080	17460	17460	18650	21030
			E	17460	18650	18650	19840	n.d.	n.d.
			U	17460	18650	18650	19840	n.d.	n.d.
			N	21030	n.d.	n.d.	n.d.	n.d.	n.d.

For transport reasons, the sizes of the units with the depth of more than 13090 mm are shipped separately. For more information, please refer to the technical manual and / or installation.

Cod.: SNSGUY.00 / 1609

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com