



NSM

Технические характеристики

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NSM

Air/Water chillers for outdoor installation
Screw compressors, shell and tube heat exchangers and axial fans
Cooling capacity 302÷2100kW

1402/9603
cooling only

R134a



- **HIGH EFFICIENCY ALSO AT PARTIAL LOADS**
- **MICROCHANNEL COIL**
- **QUICK AND EASY INSTALLATION**
- **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.

Versions

NSM_° Standard
NSM_L Standard low noise
NSM_A High efficiency
NSM_E High efficiency low noise
NSM_U Very high efficiency
NSM_N Very high efficiency low noise

Range of operation: Work up to 50°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 possibility of using the electronic thermostatic valve brings significant benefits, in particular when the refrigerant is working at partial loads to the benefit of energy efficiency of the unit. It is supplied as standard from size 5202÷6402 and 8403÷9603, optional for all other sizes.
- 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.

T" 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.
- **DCPX:** Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.
Standard in to low noise version or with desuperheater.
- **AVX:** Spring anti-vibration mounts.

Accessories factory fitted only

- **KRS:** Evaporator trace heating
- **KRSDDES/KRSREC:** Evaporator and heat recovery exchangers trace heating
- **RIFNSM:** Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current
- **GP:** Anti-intrusion grids
- **AK: ACUSTIC KIT.** (only version L/E/N)
This accessory allows further sound reduction. Must be requested at time of order and is available factory fitted only.

Compatibility of accessories

Mod. NSM	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		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DCPX	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AVX	°	900	900	900	904	904	904	904	904	904	905	905	908	908	911	911	909
	L	901	901	901	904	905	905	905	903	903	903	903	909	909	907	907	912
	A	901	901	901	904	905	905	905	903	903	903	903	909	909	907	907	912
	E	901	901	902	905	905	903	903	906	906	906	906	907	907	912	910	910
	U	901	901	902	905	905	903	903	906	906	906	906	907	907	912	910	910
N	902	902	903	903	903	906	906	907	907	907	907	912	910	913	913	913	917

Accessories factory fitted only

KRS	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KRS_DES	(1)(2)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KRS_REC	(1)(2)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RIFNSM	(1)	1402	1602	1802	2002	2202	2352	2502	2652	2802	3002	3202	3402	3602	3902	4202	4502
GP	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AK	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

		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		•	•	•	•	•	•	•	•	•	•	•
DCPX	(1)	•	•	•	•	•	•	•	•	•	•	•
AVX	°	909	907	907	907	912	914	914	915	916	916	916
	L	912	912	910	913	913	924	924	925	925	927	926
	A	912	912	910	913	913	924	924	925	925	927	926
	E	913	913	920	917	918	925	927	927	928	-	-
	U	913	913	920	917	918	925	927	927	928	-	-
N	918	919	921	922	923	926	-	-	-	-	-	

Accessories factory fitted only

KRS	(1)	•	•	•	•	•	•	•	•	•	•	•
KRS_DES	(1)(2)	•	•	•	•	•	•	•	•	•	•	•
KRS_REC	(1)(2)	•	•	•	•	•	•	•	•	•	•	•
RIFNSM	(1)	4802	5202	5602	6002	6402	6503	6703	6903	7203	8403	9603
GP	(1)	•	•	•	•	•	•	•	•	•	•	•
AK	(3)	•	•	•	•	•	•	•	•	•	•	•

(1) Accessories to be defined for compatibility

(2) The accessory is standard equipped with the electric resistance for the evaporator also

(3) The accessory is only available for the "L/E/N" silenced versions

(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	NSM
4,5,6,7	Sizes 1402-1602-1802-2002-2202-2352-2502-2652-2802-3002-3202 (dual circuit) 3402-3602-3902-4202-4502-4802-5202-5602-6002-6402 (dual circuit) 6503-6703-6903-7203-8403-9603 (triple circuit)
8	Operational limits ° Standard (temperature of water produced up to +4 °C) Y Low temperature (temperature of water produced from +4°C a -6°C) ⁽⁴⁾ X Electronic thermostatic valve (temperature of water produced up to +4 °C) ⁽⁵⁾ Z Low temperature electronic thermostatic valve (temperature of water produced from +4°C a -6°C) ⁽⁴⁾
9	Model ° Cooling Only C Motor condensing unit ⁽⁶⁾
10	Heat recovery ° Without heat recovery D With desuperheater T With total recovery ⁽⁷⁾
11	Version ° Standard L Low noise Standard A High efficiency E Low noise high efficiency 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 M Larger J Inverter
14	Power supply ° 400V/3/50Hz with fuses 8 400V/3/50Hz with magnet circuit breakers 2 230V/3/50Hz with fuses ⁽⁸⁾ 4 230V/3/50Hz with magnet circuit breakers ⁽⁸⁾ 5 500V/3/50Hz with fuses ⁽⁹⁾ 9 500V/3/50Hz with magnet circuit breakers ⁽⁹⁾
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)

(4) The Y/Z option is not compatible with motor condensing units C; with option D and T

(5) sizes from 5202÷6402 and 8403÷9603 come standard with the electronic thermostatic valve

(6) The motor condensing units are not configurable with option D and T, and with the integrated hydronic kit

(7) The models with total recovery are not configurable with the integrated hydronic kit

(8) 230V/3/50Hz available only for sizes from 1402÷2202

(9) 500V/3/50Hz available only for sizes from 1402÷3202

Technical Data

Mod NSM			1402	1602	1802	2002	2202	2352	2502	2652
Cooling capacity	°	kW	307	348	396	449	488	524	543	576
	L	kW	302	343	392	428	490	513	537	582
	A	kW	315	359	414	461	509	544	576	620
	E	kW	319	368	417	472	514	542	579	614
	U	kW	331	378	432	481	527	564	589	634
	N	kW	330	375	431	474	516	550	578	620
Total input power	°	kW	105	121	139	153	166	181	194	210
	L	kW	103	117	136	156	168	179	193	203
	A	kW	99	114	134	148	162	174	183	197
	E	kW	102	117	132	150	165	174	186	195
	U	kW	99	114	129	146	161	169	178	190
	N	kW	98	113	128	145	160	169	178	190
EER	°	W/W	2,93	2,88	2,85	2,94	2,93	2,90	2,80	2,74
	L	W/W	2,94	2,93	2,89	2,74	2,92	2,86	2,79	2,87
	A	W/W	3,18	3,16	3,10	3,11	3,14	3,13	3,14	3,14
	E	W/W	3,14	3,14	3,15	3,15	3,11	3,12	3,11	3,15
	U	W/W	3,36	3,33	3,35	3,30	3,27	3,33	3,30	3,33
	N	W/W	3,36	3,31	3,38	3,27	3,22	3,26	3,24	3,26
ESEER	°	W/W	3,85	3,85	3,80	3,90	3,90	3,85	3,85	3,80
	L	W/W	3,98	3,95	3,87	3,88	3,93	3,92	3,92	3,92
	A	W/W	4,07	4,04	3,96	3,97	4,02	4,01	4,02	4,01
	E	W/W	4,15	4,12	4,15	4,09	4,05	4,13	4,09	4,13
	U	W/W	4,25	4,21	4,24	4,18	4,14	4,22	4,18	4,22
	N	W/W	4,27	4,21	4,30	4,16	4,09	4,14	4,12	4,14
Water flow rate	°	l/h	52940	60070	68350	77550	84280	90320	93610	99370
	L	l/h	52070	59230	67610	73680	84500	88440	92500	100420
	A	l/h	54340	62020	71500	79420	87700	93790	99310	106880
	E	l/h	55020	63440	71880	81320	88500	93500	99770	105880
	U	l/h	57000	65100	74380	82910	90820	97200	101640	109280
	N	l/h	56780	64620	74340	81660	88980	94830	99590	106780
Total pressure drop	°	kPa	27	36	38	49	57	26	28	33
	L	kPa	27	36	38	18	24	25	28	33
	A	kPa	30	39	43	21	26	28	32	37
	E	kPa	15	14	18	21	24	26	30	24
	U	kPa	17	15	19	21	25	28	31	25
	N	kPa	16	15	19	21	24	28	30	25

Cooling (14511:2011)

Evaporator water temperature (in/out) 12°C/7°C; External air temperature 35°C

GENERAL DATA			1402	1602	1802	2002	2202	2352	2502	2652
Electrical data										
Total input current	(1)	° A	182	207	229	257	281	306	329	356
	(1)	L A	173	196	218	254	277	297	319	336
	(1)	A A	175	198	223	250	278	298	314	340
	(1)	E A	171	196	214	245	272	288	309	324
	(1)	U A	173	197	218	248	275	292	309	330
	(1)	N A	165	190	207	237	265	281	297	317
Compressors										
		type					two screw			
Compressors	n°		2	2	2	2	2	2	2	2
Circuits	n°		2	2	2	2	2	2	2	2
Refrigerant	type						R134a			
System side exchanger										
		type					Shell and tube			
exchanger	all	n°	1	1	1	1	1	1	1	1
Fans standard										
		type					axial			
fans	°	n°	6	6	6	8	8	8	8	8
	L	n°	8	8	8	8	10	10	10	12
	A	n°	8	8	8	8	10	10	10	12
	E	n°	8	8	10	10	10	12	12	14
	U	n°	8	8	10	10	10	12	12	14
	N	n°	10	10	12	12	12	14	14	16
Air flow rate cooling mode	°	m³/h	96000	96000	96000	128000	128000	128000	128000	144000
	L	m³/h	92000	92000	92000	92000	115000	115000	115000	138000
	A	m³/h	128000	128000	128000	128000	160000	160000	160000	192000
	E	m³/h	92000	92000	115000	115000	115000	138000	138000	161000
	U	m³/h	128000	128000	160000	160000	160000	192000	192000	224000
	N	m³/h	115000	115000	138000	138000	138000	161000	161000	184000
Sound data										
Sound power	°	dB(A)	97	97	97	98	98	98	98	98
	L	dB(A)	89	89	89	89	90	91	91	91
	A	dB(A)	97	97	98	98	98	98	98	99
	E	dB(A)	89	89	90	90	90	91	91	92
	U	dB(A)	97	97	98	98	98	99	99	99
	N	dB(A)	90	90	91	91	91	91	91	92
Power supply		V/ph/Hz					400V/3/50Hz			

Technical Data

Mod NSM			2802	3002	3202	3402	3602	3902	4202	4502
Cooling capacity	°	kW	613	679	723	768	812	904	956	1048
	L	kW	602	663	708	770	825	907	948	1030
	A	kW	658	698	741	799	883	953	1019	1082
	E	kW	651	694	740	795	880	950	1017	1079
	U	kW	674	707	750	810	901	974	1041	1102
	N	kW	658	700	742	802	878	953	1012	1084
Total input power	°	kW	227	233	248	272	298	316	346	360
	L	kW	215	238	261	265	297	316	349	366
	A	kW	208	224	237	253	281	304	329	347
	E	kW	210	224	239	255	284	306	326	347
	U	kW	204	214	228	245	273	295	315	337
	N	kW	204	217	231	248	270	293	316	333
EER	°	W/W	2,70	2,92	2,92	2,82	2,72	2,86	2,76	2,91
	L	W/W	2,79	2,78	2,71	2,90	2,78	2,87	2,72	2,81
	A	W/W	3,16	3,12	3,12	3,15	3,14	3,14	3,10	3,12
	E	W/W	3,10	3,10	3,10	3,12	3,10	3,11	3,12	3,11
	U	W/W	3,30	3,30	3,29	3,30	3,30	3,30	3,30	3,27
	N	W/W	3,22	3,22	3,21	3,24	3,25	3,26	3,21	3,26
ESEER	°	W/W	3,80	3,90	3,85	3,85	3,80	3,90	3,80	3,90
	L	W/W	3,94	3,90	3,89	3,94	3,92	3,92	3,87	3,89
	A	W/W	4,03	3,99	3,99	4,03	4,01	4,01	3,97	3,98
	E	W/W	4,09	4,09	4,07	4,09	4,08	4,09	4,09	4,05
	U	W/W	4,18	4,18	4,16	4,18	4,17	4,18	4,18	4,14
	N	W/W	4,09	4,09	4,08	4,12	4,11	4,11	4,07	4,09
Water flow rate	°	l/h	105660	117140	124820	132560	140070	155970	164980	180930
	L	l/h	103770	114370	122040	132690	142180	156420	163450	177710
	A	l/h	113420	120390	127660	137790	152180	164390	175850	186660
	E	l/h	112240	119690	127460	137080	151730	163810	175370	186260
	U	l/h	116220	121900	129220	139610	155320	167910	179580	190140
	N	l/h	113450	120680	127920	138210	151390	164440	174590	186920
Total pressure drop	°	kPa	35	39	42	47	38	46	41	48
	L	kPa	31	36	23	23	25	32	34	44
	A	kPa	37	40	25	25	29	36	39	49
	E	kPa	26	29	26	25	29	36	40	49
	U	kPa	28	30	26	26	30	37	42	51
	N	kPa	27	29	26	25	30	37	40	35

Cooling (14511:2011)

Evaporator water temperature (in/out) 12°C/7°C; External air temperature 35°C

GENERAL DATA			2802	3002	3202	3402	3602	3902	4202	4502
Electrical data										
Total input current	(1)	° A	381	392	414	447	484	520	573	597
	(1)	L A	354	391	426	429	473	509	567	593
	(1)	A A	355	378	399	421	459	502	547	577
	(1)	E A	347	367	389	411	450	490	529	560
	(1)	U A	352	366	387	410	448	490	530	562
	(1)	N A	339	358	378	399	429	470	513	540
Compressors										
Compressors			type two screw							
Compressors			n°	2	2	2	2	2	2	2
Circuits			n°	2	2	2	2	2	2	2
Refrigerant			type R134a							
System side exchanger			type Shell and tube							
Exchanger	°/L/A/E/U	n°	1	1	1	1	1	1	1	1
	N	n°	1	1	1	1	1	1	1	2
Fans standard			type axial							
fans	°	n°	8	10	10	10	10	12	12	14
	L	n°	12	12	12	14	14	16	16	18
	A	n°	12	12	12	14	14	16	16	18
	E	n°	14	14	14	16	16	18	20	20
	U	n°	14	14	14	16	16	18	20	20
	N	n°	16	16	16	18	20	22	22	26
Air flow rate cooling mode	°	m³/h	144000	180000	180000	180000	180000	216000	216000	252000
	L	m³/h	138000	138000	138000	161000	161000	184000	184000	207000
	A	m³/h	192000	192000	192000	224000	224000	256000	256000	288000
	E	m³/h	161000	161000	161000	184000	184000	207000	230000	230000
	U	m³/h	224000	224000	224000	256000	256000	288000	320000	320000
	N	m³/h	184000	184000	184000	207000	230000	253000	253000	299000
Sound data										
Sound power	°	dB(A)	98	99	100	100	100	101	101	101
	L	dB(A)	91	91	91	91	91	92	93	93
	A	dB(A)	99	99	99	99	99	100	100	100
	E	dB(A)	92	92	92	93	93	93	94	94
	U	dB(A)	99	99	99	100	100	100	101	101
	N	dB(A)	92	92	92	93	93	93	93	94
Power supply			V/ph/Hz 400V/3/50Hz							

Technical Data

Mod NSM			4802	5202	5602	6002	6402	6503	6703	6903
Cooling capacity	°	kW	1096	1165	1192	1234	1323	1390	1436	1576
	L	kW	1074	1120	1181	1251	1292	1393	1434	1601
	A	kW	1157	1211	1273	1349	1399	1459	1529	1678
	E	kW	1157	1204	1264	1320	1387	1462	1525	1666
	U	kW	1182	1231	1299	1359	1417	1502	1576	1689
	N	kW	1167	1216	1265	1315	1365	1450	n.d.	n.d.
Total input power	°	kW	388	403	431	453	460	489	517	560
	L	kW	395	429	443	453	477	492	524	557
	A	kW	372	389	411	433	451	466	493	535
	E	kW	371	388	406	422	444	469	489	534
	U	kW	357	380	401	418	428	453	473	522
	N	kW	353	375	397	410	428	450	n.d.	n.d.
EER	°	W/W	2,82	2,89	2,77	2,72	2,87	2,85	2,78	2,82
	L	W/W	2,72	2,61	2,67	2,76	2,71	2,83	2,74	2,87
	A	W/W	3,11	3,11	3,10	3,12	3,10	3,13	3,10	3,14
	E	W/W	3,12	3,11	3,12	3,13	3,13	3,12	3,12	3,12
	U	W/W	3,31	3,24	3,24	3,25	3,31	3,31	3,33	3,23
	N	W/W	3,31	3,25	3,19	3,20	3,19	3,22	n.d.	n.d.
ESEER	°	W/W	3,85	3,90	3,85	3,80	3,85	3,90	3,80	3,85
	L	W/W	3,89	3,88	3,90	3,89	3,87	3,91	3,87	3,92
	A	W/W	3,98	3,97	3,99	3,98	3,96	4,00	3,96	4,01
	E	W/W	4,10	4,01	4,02	4,02	4,10	4,10	4,12	4,01
	U	W/W	4,18	4,09	4,10	4,11	4,19	4,19	4,22	4,09
	N	W/W	4,10	4,13	4,05	4,07	4,05	4,09	n.d.	n.d.
Water flow rate	°	l/h	189160	201040	205680	213030	228500	239870	247790	271650
	L	l/h	185350	193220	203720	215910	222970	240090	247230	276220
	A	l/h	199680	208790	219570	232740	241410	251620	263620	289610
	E	l/h	199490	207680	217720	227490	239130	252090	262970	287420
	U	l/h	203880	212380	223920	234170	244270	259100	271780	291410
	N	l/h	201310	209810	218040	226640	235280	249980	n.d.	n.d.
Total pressure drop	°	kPa	42	46	48	55	62	44	46	30
	L	kPa	46	33	36	42	45	33	34	45
	A	kPa	53	38	42	49	52	36	39	49
	E	kPa	36	38	24	24	29	35	40	49
	U	kPa	38	40	26	26	31	37	42	51
	N	kPa	44	44	26	26	30	37	n.d.	n.d.

Cooling (14511:2011)

Evaporator water temperature (in/out) 12°C/7°C; External air temperature 35°C

GENERAL DATA			4802	5202	5602	6002	6402	6503	6703	6903
Electrical data										
Total input current	(I)	° A	641	668	712	749	766	806	857	927
	(I)	L A	638	693	716	736	776	793	849	914
	(I)	A A	614	647	685	725	758	772	821	897
	(I)	E A	598	628	656	686	724	764	792	861
	(I)	U A	597	634	671	706	725	762	795	870
	(I)	N A	569	605	643	668	700	731	n.d.	n.d.
Compressors		type					two screw			
Compressors	n°		2	2	2	2	2	3	3	3
Circuits	n°		2	2	2	2	2	3	3	3
Refrigerant		type					R134a			
System side exchanger		type					Shell and tube			
Exchanger	°	n°	1	1	1	1	1	1	1	1
	L	n°	1	1	1	1	1	2	2	2
	A	n°	1	1	1	1	1	2	2	2
	E	n°	1	1	2	2	2	2	2	2
	U	n°	1	1	2	2	2	2	2	2
	N	n°	2	2	2	2	2	2	n.d.	n.d.
Ventilatori standard		type					axial			
fans	°	n°	14	16	16	16	18	18	18	20
	L	n°	18	18	20	22	22	24	24	28
	A	n°	18	18	20	22	22	24	24	28
	E	n°	22	22	24	26	28	28	30	30
	U	n°	22	22	24	26	28	28	30	30
	N	n°	28	30	32	32	32	34	n.d.	n.d.
Air flow rate cooling mode	°	m³/h	252000	288000	288000	288000	324000	324000	324000	360000
	L	m³/h	207000	288000	320000	352000	352000	276000	276000	322000
	A	m³/h	288000	324000	360000	396000	396000	384000	384000	448000
	E	m³/h	253000	253000	276000	299000	322000	322000	345000	345000
	U	m³/h	352000	352000	384000	416000	448000	448000	480000	480000
	N	m³/h	322000	345000	368000	368000	368000	391000	n.d.	n.d.
Sound data										
Sound power	°	dB(A)	101	102	102	102	102	102	102	103
	L	dB(A)	93	93	94	94	94	94	94	94
	A	dB(A)	101	102	102	102	102	102	102	102
	E	dB(A)	94	94	94	94	94	94	94	94
	U	dB(A)	101	102	102	102	102	102	102	102
	N	dB(A)	94	95	95	95	95	95	n.d.	n.d.
Power supply		V/ph/Hz					400V/3/50Hz			

n.d. versions not available

Technical Data

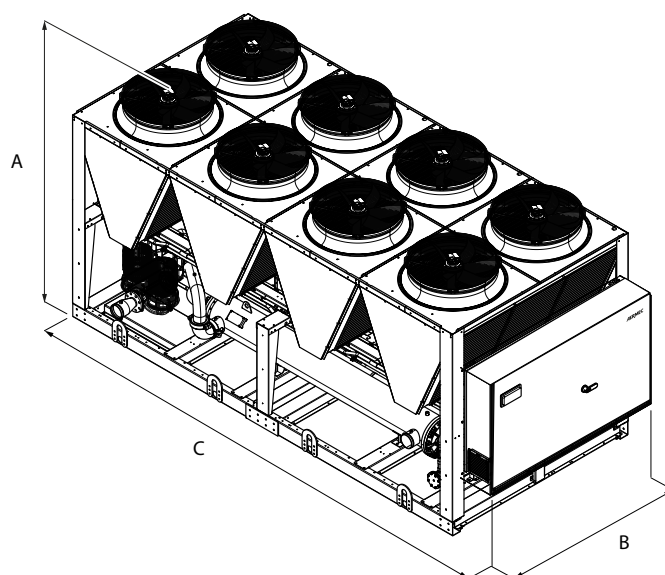
Mod NSM			7203	8403	9603
Cooling capacity	°	kW	1667	1739	1856
	L	kW	1645	1754	1941
	A	kW	1748	1904	2100
	E	kW	1749	n.d.	n.d.
	U	kW	1768	n.d.	n.d.
	N	kW	n.d.	n.d.	n.d.
Total input power	°	kW	575	659	731
	L	kW	587	660	714
	A	kW	560	614	673
	E	kW	563	n.d.	n.d.
	U	kW	541	n.d.	n.d.
	N	kW	n.d.	n.d.	n.d.
EER	°	W/W	2,90	2,64	2,54
	L	W/W	2,80	2,66	2,72
	A	W/W	3,12	3,10	3,12
	E	W/W	3,11	n.d.	n.d.
	U	W/W	3,27	n.d.	n.d.
	N	W/W	n.d.	n.d.	n.d.
ESEER	°	W/W	3,85	3,80	3,80
	L	W/W	3,90	3,87	3,89
	A	W/W	3,99	3,96	3,99
	E	W/W	4,05	n.d.	n.d.
	U	W/W	4,14	n.d.	n.d.
	N	W/W	n.d.	n.d.	n.d.
Water flow rate	°	l/h	287330	299790	320050
	L	l/h	283850	302520	334990
	A	l/h	301740	328430	362460
	E	l/h	301590	n.d.	n.d.
	U	l/h	305050	n.d.	n.d.
	N	l/h	n.d.	n.d.	n.d.
Total pressure drop	°	kPa	33	36	40
	L	kPa	47	34	45
	A	kPa	53	41	52
	E	kPa	45	n.d.	n.d.
	U	kPa	46	n.d.	n.d.
	N	kPa	n.d.	n.d.	n.d.

Cooling (14511:2011)

Evaporator water temperature (in/out) 12°C/7°C; External air temperature 35°C

GENERAL DATA			7203	8403	9603	
Electrical data						
Total input current	(1)	°	A	966	1103	1230
	(1)	L	A	960	1067	1163
	(1)	A	A	936	1017	1132
	(1)	E	A	898	n.d.	n.d.
	(1)	U	A	896	n.d.	n.d.
	(1)	N	A	n.d.	n.d.	n.d.
Compressors			type two screw			
Compressors	n°		3	3	3	
Circuits	n°		3	3	3	
Refrigerant	type		R134a			
System side exchanger			type shell and tube			
Exchanger	°	n°	1	1	1	
	L	n°	2	2	2	
	A	n°	2	2	2	
	E	n°	2	n.d.	n.d.	
	U	n°	2	n.d.	n.d.	
	N	n°	n.d.	n.d.	n.d.	
Ventilatori standard			type axial			
fans	°	n°	22	22	22	
	L	n°	28	30	34	
	A	n°	28	30	34	
	E	n°	32	n.d.	n.d.	
	U	n°	32	n.d.	n.d.	
	N	n°	n.d.	n.d.	n.d.	
Air flow rate cooling mode	°	m³/h	396000	396000	396000	
	L	m³/h	322000	345000	490000	
	A	m³/h	448000	480000	588000	
	E	m³/h	368000	n.d.	n.d.	
	U	m³/h	512000	n.d.	n.d.	
	N	m³/h	n.d.	n.d.	n.d.	
Sound data						
Sound power	°	dB(A)	103	103	103	
	L	dB(A)	94	94	95	
	A	dB(A)	102	103	104	
	E	dB(A)	95	n.d.	n.d.	
	U	dB(A)	102	n.d.	n.d.	
	N	dB(A)	n.d.	n.d.	n.d.	
Power supply		V/ph/Hz	400V/3/50Hz			

Dimensions (mm)



Mod. NSM		Vers		1402	1602	1802	2002	2202	2352	2502	2652
Height	(mm)	A	all	2450	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	all	2200	2200	2200	2200	2200	2200	2200	2200
			°	3970	3970	3970	5160	5160	5160	5160	5160
Depth	(mm)	C	L	5160	5160	5160	5160	6350	6350	6350	7140
			A	5160	5160	5160	5160	6350	6350	6350	7140
			E	5160	5160	6350	6350	6350	7140	7140	8330
			U	5160	5160	6350	6350	6350	7140	7140	8330
			N	6350	6350	7140	7140	7140	8330	8330	9520
			°	3970	3970	3970	5160	5160	5160	5160	5160

Mod. NSM		Vers		2802	3002	3202	3402	3602	3902	4202	4502
Height	(mm)	A	all	2450	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	all	2200	2200	2200	2200	2200	2200	2200	2200
			°	5160	6350	6350	6350	6350	7140	7140	8330
Depth	(mm)	C	L	7140	7140	7140	8330	8330	9520	9520	10710
			A	7140	7140	7140	8330	8330	9520	9520	10710
			E	8330	8330	8330	9520	9520	10710	11900	11900
			U	8330	8330	8330	9520	9520	10710	11900	11900
			N	9520	9520	9520	10710	11900	13090	13090	15470
			°	5160	6350	6350	6350	6350	7140	7140	8330

Mod. NSM		Vers		4802	5202	5602	6002	6402	6503	6703	6903
Height	(mm)	A	all	2450	2450	2450	2450	2450	2450	2450	2450
Width	(mm)	B	all	2200	2200	2200	2200	2200	2200	2200	2200
			°	8330	9520	9520	9520	10710	11110	11110	11900
Depth	(mm)	C	L	10710	10710	11900	13090	13090	14280	14280	16660
			A	10710	10710	11900	13090	13090	14280	14280	16660
			E	13090	13090	14280	15470	16660	16660	17850	17850
			U	13090	13090	14280	15470	16660	16660	17850	17850
			N	16660	17850	19040	19040	19040	20230	n.d.	n.d.
			°	8330	9520	9520	9520	10710	11110	11110	11900

Mod. NSM		Vers		7203	8403	9603
Height	(mm)	A	all	2450	2450	2450
Width	(mm)	B	all	2200	2200	2200
			°	13090	13090	13090
Depth	(mm)	C	L	16660	17850	20230
			A	16660	17850	20230
			E	19040	n.d.	n.d.
			U	19040	n.d.	n.d.
			N	n.d.	n.d.	n.d.
			°	13090	13090	13090



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