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Water-water Scroll multi-compressor chillers made for a high degree of energy efficiency even with partial loads where a variable number of compressors will be in operation, each working to full capacity and therefore to the maximum degree of efficiency.

Features

- 9 two-circuit sizes available
- Three or four steps of partialisation depending on the models
- Heat pump and moto-evaporating versions. The moto-evaporating units are despatched after being pre-charged.
- Low temperature versions
- Silenced versions: a cover on the unit bottom, refrigerant line mufflers and panels made of thick galvanised sheet metal with internal layer of sound-absorbent material are factory-mounted
- All versions are supplied for use with R407C
- Scroll compressors
- Modular microprocessor control system
- Multilingual operating parameter display
- Plate-type heat exchangers
- Compact size
- Metallic protective cabinet with rustproof polyester paint

Accessories

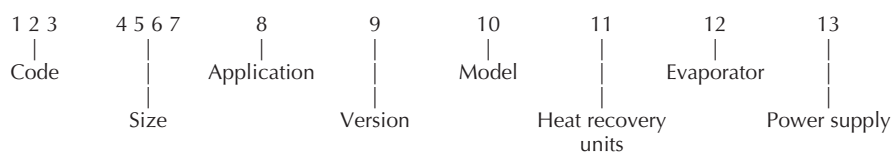
- **AER485:** RS-485 interface for supervision systems with MODBUS protocol.
- **AVX:** Spring anti-vibration mounts. Select the AVX model by using the compatibility table.
- **PGS:** Daily/weekly programmer with facility to program two daily on/off cycles and set different parameters for each day of the week.
- **PR1:** Simplified remote control panel. All main functions of the unit, alarms included, are possible. It can be used with a shielded cable at a distance of 30 m.
- **ROMEO: (Remote Overwatching Modem Enabling Operation)** is a device that enables a remote control of a chiller from an ordinary WAP mobile phone. Furthermore it allows to send alarm or pre-alarm SMS messages up to 3 GSM mobile phones which may not be equipped with WAP. **This device includes**
- **AER485.**
- **SDP:** Electronic card for using PR1 accessory up to a distance of 150 m.
- **TP 1:** Low pressure transducer: to provide working pressure readout on the microprocessor card display (one required for each circuit). Standard on heat pump models.

Mod. NLW	Compatibility of accessories								
	0500	0550	0600	0650	0700	0750	0800	0900	1000
AER485	✓	✓	✓	✓	✓	✓	✓	✓	✓
AVX (NLW Standard)	301	301	302	303	303	304	306	306	307
AVX (NLW E)	301	301	302	302	303	304	305	305	307
AVX (NLW ED)	301	301	302	302	303	304	305	306	307
AVX (NLW D)	301	301	302	303	303	304	306	306	308
AVX (NLW T)	301	301	303	303	304	306	306	308	308
PGS	✓	✓	✓	✓	✓	✓	✓	✓	✓
PR1	✓	✓	✓	✓	✓	✓	✓	✓	✓
ROMEO	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP1	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x2)
SDP	✓	✓	✓	✓	✓	✓	✓	✓	✓

Selection

By combining the various options, each model can be configured exactly to match even the most specific system requirements.

Configuration rules:



Code:

NLW

Size:

0500, 0550, 0600, 0650, 0700, 0750, 0800, 0900, 1000

Application:

- ° - Standard with produced water above +4 °C
- Y - Low temperature with produced water down to -6 °C

Version:

- ° - Standard
- L - Silenced

Model:

- ° - Standard
- E - Moto-evaporating unit

Heat recovery units:

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

Evaporator:

- ° - To PED standards
- G - To TÜV-D standards

Power supply:

- ° - 3~ 400V 50Hz with thermal-magnetic cut-outs
- 4 - 3~ 230V 50Hz with thermal-magnetic cut-outs
- 9 - 3~ 500V 50Hz with thermal-magnetic cut-outs

Warning: standard options are shown by symbol °;

Commercial code example: **NLW0700L**

This code refers to a heat pump NLW unit, size 0700, silenced version, exchangers to PED standards and electrical panel for compressors with 3~ 400V 50Hz motors protected by thermal-magnetic cut-outs.

Note that as each option is precisely identified, it is not necessary to specify standard options (shown with °) in the commercial code.

Technical data

Mod. NLW		0500	0550	0600	0650	0700	0750	0800	0900	1000
Cooling capacity	kW	107	117	142	161	184	218	251	279	307
Total input power	kW	26.2	28.5	34.5	39.2	45.2	53.6	62.1	68.8	75.5
Input current	A	51.1	54.4	66.1	72.7	85.4	98.3	111.2	123.6	135.9
Evaporator water flow rate	l/h	18400	20120	24420	27690	31650	37500	43170	47990	52800
Evaporator pressure drop	kPa	29.0	34.0	37.5	40.0	39.0	33.5	32.9	36.0	32.5
Condenser water flow rate	l/h	22910	25026	30358	34434	39422	46715	53853	59822	65790
Condenser pressure drop	kPa	46.0	54.5	60.0	65.0	63.5	56.0	55.0	60.0	54.0
Heating capacity	kW	115	126	153	174	198	238	276	308	340
Total input power	kW	35.4	38.5	46.8	53.0	60.7	71.0	81.4	90.3	99.2
Input current	A	62.6	67.0	81.3	90.2	105.4	120.7	135.9	150.3	164.8
Condenser water flow rate	l/h	19780	21670	26320	29930	34060	40940	47470	52980	58480
Condenser pressure drop	kPa	34.0	41.0	44.5	48.5	46.0	43.0	42.0	46.0	42.5
Evaporator water consumption (10 °C)	l/h	13690	15050	18270	20810	23620	28720	33470	37440	41420
Evaporator pressure drop	kPa	16.0	19.0	21.0	23.0	21.0	20.0	18.0	20.0	19.0
Scroll compressors	n.	3	3	4	4	4	4	4	4	4
Partialisation steps	n.	3	3	4	4	4	4	4	4	4
♪ Sound pressure	dB(A)	55	55	56	57	57	58	60	60	60
Exchangers water contents	dm ³	7.5 x 2	7.5 x 2	8.8 x 2	9.8 x 2	11.7 x 2	19.4 x 2	22.8 x 2	24.5 x 2	28.8 x 2
Water connections	type*	V	V	V	V	V	V	V	V	V
	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"
Max. current	A	84	90	109	122	143	167	191	210	230
Peak current	A	211	216	194	203	254	302	317	379	394

Mod. NLW		0500 E	0550 E	0600 E	0650 E	0700 E	0750 E	0800 E	0900 E	1000 E
Cooling capacity	kW	100	109	132	150	172	202	234	260	288
Total input power	kW	28.1	30.6	36.9	41.9	48.4	57.2	66.0	73.2	80.5
Input current	A	53,2	56,8	69,0	76,2	89,4	102,3	115,3	127,7	140,0
Evaporator water flow rate	l/h	17200	18750	22700	25800	29580	34740	40250	44720	49540
Evaporator pressure drop	kPa	25.8	30.1	33.0	35.6	34.5	29.7	29.2	31.8	29.1
Scroll compressors	n.	3	3	4	4	4	4	4	4	4
Partialisation steps	n.	3	3	4	4	4	4	4	4	4
♪ Sound pressure	dB(A)	55	55	56	57	57	58	60	60	60
Exchangers water contents	dm ³	7.5	7.5	8.8	9.8	11.7	19.4	22.8	24.5	28.8
Water connections	type*	V	V	V	V	V	V	V	V	V
	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"
Max. current	A	84	90	109	122	143	167	191	210	230
Peak current	A	211	216	194	203	254	302	317	379	394

Power supply = 3N~ 400V 50 Hz.

Performance values refer to the following conditions:

■ Cooling:

- processed water temperature 7 °C
- condenser water inlet temperature 30 °C
- Δt = 5 °C

■ Cooling (NLW E):

- processed water temperature 7 °C
- condensation temperature 45 °C
- evaporator water inlet temperature 12 °C
- Δt = 5 °C

■ Heating:

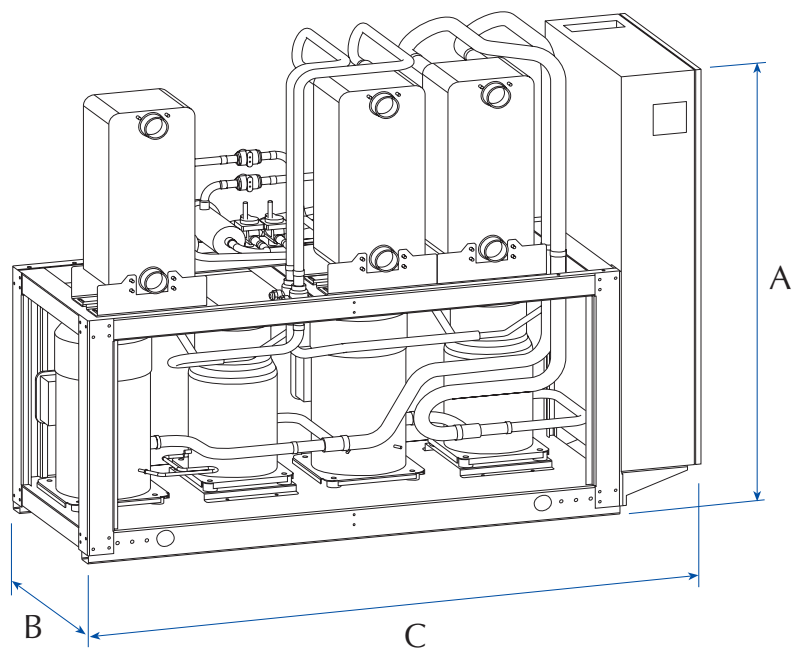
- processed water temperature 50 °C
- evaporator water inlet temperature 10 °C
- Δt = 5 °C

- power supply: 380 V.

♪ Sound pressure measured in free field conditions at distance of 10 m with direction factor = 2.

* V = Victaulic connection

Dimensions (mm)



Mod.		0500	0550	0600	0650	0700	0750	0800	0900	1000
Height	A (NLW)	1785	1785	1785	1785	1785	1875	1875	1875	1875
	A (NLW L)	1785	1785	1785	1785	1785	1975	1975	1975	1975
	A (NLW E)	1785	1785	1785	1785	1785	1875	1875	1875	1875
Width	B	800	800	800	800	800	800	800	800	800
Depth	C	1506	1506	2006	2006	2006	2306	2306	2306	2306
Weight	kg (NLW)	650	660	755	800	860	1110	1250	1280	1355
	kg (NLW E)	602.5	614.1	703.7	740.3	792.2	1034	1156	1178	1227