

# NXP

Multipurpose  
Water/Water for indoor installation  
scroll compressor plate exchanger  
Cooling capacity 109÷501kW  
Heating capacity 123÷560kW

# R410A



- **DESIGNED FOR 2 AND 4-PIPE SYSTEMS**
- **HIGH EFFICIENCY EVEN AT PART LOAD**
- **OPTION VERSION WITH BUILT-IN HYDRONIC KIT**

## Characteristics

NXP is the range of multipurpose external units operating on refrigerant R410A, designed for **2 or 4-pipe systems**. With just one unit simultaneous and independent requests for hot and chilled water can be accommodated all year round.

### Version

**NXP\_°** Multipurpose standard  
**NXP\_L** Multipurpose Low noise

- **Operational limits (1)**
- Maximum leaving water temperature 55°C Heating mode
- 2refrigerant circuits
- High efficiency scroll compressors with low

- power input
- Heat exchangers optimised to benefit from the excellent heat transfer characteristics of R410A.
- High and low pressure transducers as standard
- The built-in hydronic module includes the main water circuit components; it is available in various configurations with one or two pumps with high or low head both on the system side and the geothermal side. (jusqu'à un maximum de 4 pompes installées)
- Microprocessor controls
  - Control from the leaving water temperature
  - Automatic rotation of compressors and pumps based on operating hours

- Programmable time-clock
- Analog Inputs Multifunction 0-10V, or da 4-20mA
- Load limiting safety control
- Electrical panel with wires numbered all the main components of security and control
- Externally mounted user interface with display of all operating parameters in 4 languages
- Structure and base in hot dip galvanised sheet steel with epoxy pain finish (RAL 9002)

(1) For more details on operating limits, refer to the technical documentation available on the website

## Accessories

- **AER485P1:** RS-485 interface for supervising systems with MODBUS protocol.
- **AERWEB300:** The AERWEB option allows remote control of a chiller through a standard PC and an ethernet connection with a standard browser; 4 versions available:
  - AERWEB300-6:** Web server to monitor and remote control maximum 6 units on RS485 network;
  - AERWEB300-18:** Web server to monitor and remote control maximum 18 units on RS485 network;
  - AERWEB300-6G:** Web server to monitor and

- remote control maximum 6 units on RS485 network with integrated GPRS modem;
- AERWEB300-18G:** Web server to monitor and remote control maximum 18 units on RS485 network with integrated GPRS modem.
- **PGD1:** Simplified remote panel. Allows control of basic unit functions and alarm notification. Remote mounted up to 500 m away with TWISTED PAIR SCREENED cable and TCONN6J000..
- **AVX** Anti-vibration mounts to be installed under the base of the unit.

### Accessories factory fitted only

- **DRE:** Electronic soft starter which reduces starting current.  
**Available only with 400V power supply.**
- **RIF:** Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

## Compatibility of accessories

Mod. NXP	Vers.	500	550	600	650	700	750	800	900	1000	1250	1400	1500	1650
AER485P1	All	•	•	•	•	•	•	•	•	•	•	•	•	•
AERWEB300	All	•	•	•	•	•	•	•	•	•	•	•	•	•
PGD1	All	•	•	•	•	•	•	•	•	•	•	•	•	•
AVX	(1) All	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Accessories factory fitted only</b>														
DRE	(2) All	501	551	601	651	701	751	801	901	1001	1251	1401	1401	1401
RIF	All	98	98	95	95	95	95	95	96	97	97	97	97	97

(1) Contact us for the compatibility

(2) Only available for 400V/3N/50Hz power supply

## 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.

<b>Field</b>	<b>Code</b>
<b>1,2,3</b>	<b>NXP</b>
<b>4,5,6,7</b>	<b>Size</b>
	0500-0550-0600-0650-0700-0750-0800-0900-1000-1250-1400-1500-1650
<b>8</b>	<b>Field of use:</b>
	° standard thermostatic expansion valve (3)
<b>9</b>	<b>System type</b>
	<b>2</b> 2-pipe system (cooling + DHW heating)
	<b>4</b> 4-pipe system (cooling + heating)
<b>10</b>	<b>Version</b>
	° Standard
	<b>L</b> Low noise
<b>11</b>	<b>Power supply</b>
	° 400V/3N/50Hz with circuit breakers
	<b>4</b> 220V/3/50Hz with circuit breakers (4)
	<b>5</b> 500V/3/50Hz with circuit breakers (5)
<b>12</b>	<b>System integrated hydronic module</b>
	° without pumps or buffer tank
	<b>M</b> n°1 low head pump
	<b>N</b> n°2 low head pumps
	<b>O</b> n°1 high head pump
	<b>P</b> n°2 high head pumps
<b>13</b>	<b>Heat recovery integrated hydronic module</b>
	° without pumps or buffer tank
	<b>U</b> n°1 low head pump
	<b>V</b> n°2 low head pumps
	<b>W</b> n°1 high head pump
	<b>Z</b> n°2 high head pumps

(3) leaving water above +4 °C

(4) Only size 0500÷0700

(5) Only size 0800÷1000



## Technical Data

DATI GENERALI			500	550	600	650	700	750	800	900	1000	1250	1400	1500	1650
<b>Electrical data only cooling mode</b>															
Total input current	(7)	A	47	50	58	65	83	90	92	100	106	135	149	169	188
<b>only heating mode</b>															
Total input current	(7)	A	54	58	68	76	95	103	112	123	130	154	173	196	217
<b>only recovery mode</b>															
Total input current	(7)	A	54	57	67	75	94	103	110	122	129	153	171	194	216
<b>Cooling heat recovery mode</b>															
Total input current	(7)	A	54	57	67	75	95	103	110	121	129	153	171	195	216
Maximum current (FLA)	(7)	A	71	77	91	102	124	135	163	179	195	208	237	266	295
Starting current (LRA)	(7)	A	214	220	206	216	267	323	332	340	356	459	488	600	629
<b>Compressors</b>															
Compressors		type	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
		n°	3	3	4	4	4	4	4	4	4	4	4	4	4
Circuits		n°	2	2	2	2	2	2	2	2	2	2	2	2	2
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
<b>Exchanger side (hot/cold) 2 pipe system / side (cold) 4 pipe system</b>															
Exchanger		type	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate
		n°	1	1	1	1	1	1	1	1	1	1	1	1	1
hydraulic connections	(7) (in/out)	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
<b>Exchanger side (DHW) 2 pipe system / side (hot) 4 pipe system</b>															
Exchanger		type	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate
		n°	1	1	1	1	1	1	1	1	1	1	1	1	1
hydraulic connections	(7) (in/out)	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
<b>Exchanger side (geothermal)</b>															
Exchanger		type	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate	plate
		n°	1	1	1	1	1	1	1	1	1	1	1	1	1
hydraulic connections	(7) (in/out)	Ø	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	3"	3"	3"	3"	3"	3"	3"
<b>System integrated hydronic module</b> For more information, refer to the selection program Magellan or the technical documentation available															
<b>Dati sonori</b>															
Sound pressure	(8) °	dB(A)	46	47	47	48	50	54	56	56	56	58	58	60	60
	(8) L	dB(A)	40	41	41	42	44	48	50	50	50	52	52	54	54
Sound power	(8) °	dB(A)	78	79	79	80	82	86	88	88	88	90	90	92	92
	(8) L	dB(A)	72	73	73	74	76	80	82	82	82	84	84	86	86
Power supply		V/ph/Hz	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3	400V/3

### 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.

### Sound pressure

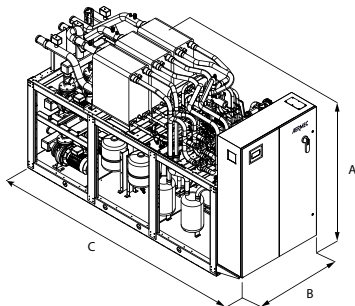
Sound pressure in free field, at 10 m distance from the external surface of the unit (in accordance with UNI EN ISO 3744).

(7) The technical data are versions without hydronic module integrated

(8) Calculated in cooling mode

**Note: For more information, refer to the selection program Magellan or the technical documentation available on the website**

## Dimensions (mm)



Mod. NXP (without pumps)	Vers	500	550	600	650	700	750	800	900	1000	1250	1400	1500	1650
Height	(mm) A	°	1976	1976	1976	1976	1976	2021	2021	2021	2021	2021	2021	2021
		L	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120
Width	(mm) B		1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Depth	(mm) C		2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600

Mod. NXP (with pumps)	Vers	500	550	600	650	700	750	800	900	1000	1250	1400	1500	1650
Height	(mm) A	°	1976	1976	1976	1976	1976	2021	2021	2021	2021	2021	2021	2021
		L	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120	2120
Width	(mm) B		1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Depth	(mm) C		3452	3452	3452	3452	3452	3452	3452	3750	3750	3750	3750	3750