



# Water chillers Heat pumps

High energy efficiency with

**R410A**

**Compact and quiet**

**Scroll compressors**

**Brazed plate heat exchangers**

**Self-adjusting electronic control system**



**AQUACIAT 2**

**AQUACIAT 2 EVOLUTION**

**NEW PERFORMANCE  
COOLING ONLY  
80V-700V**

Cooling capacity: 20 to 290 kW

Heating capacity: 20 to 285 kW



Cooling or heating

**Use**



Hydraulic pack



Heat recovery



The **AQUACIAT 2 series LD-LDC-LDH** or **ILD-ILDC-ILDH** water chillers or heaters with air-cooled condensers are medium capacity units particularly adapted for heating and air conditioning applications in Offices, Healthcare, Industry, Administration, Commercial and Residential buildings.

These standard packaged units are designed for outdoor installation; no particular precautions have to be taken against adverse weather conditions.

An optional XTRAFAN version allows if necessary the possibility of mounting an air duct on the fan(s) discharge in the case of air recycling risk or for an acoustic treatment on site.

To operate in COOLING or HEATING mode, these units

use outside air as the only external source; this permits the evacuation of heat in summer or the supply of thermal energy for heating in winter.

Connected to a heating or cooling floor, to fan coil units or to an air handling unit, the reversible Aquaciat 2 Series ILD-ILDC-ILDH permits easy heating and air conditioning of buildings.

Each unit is assembled, electrically wired (control and capacity), charged with refrigerant, and tested in factory.

The installation is very simple and the only operations to be carried out on site are the electrical wiring and water connections.

## RANGE

### **AQUACIAT 2 series LD**

Cooling only chillers without hydraulic equipment.

### **AQUACIAT 2 series LDC - LDH**

Cooling only chillers with hydraulic equipment, water pump only, or pump and buffer tank.

### **AQUACIAT 2 series ILD**

Reversible air/water cooled models without hydraulic equipment.

### **AQUACIAT 2 series ILDC - ILDH**

Reversible air/water cooled models with hydraulic equipment (circulating pump only or pump and buffer tank).



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## AQUACIAT 2

### DESCRIPTION

The standard **AQUACIAT 2 series LD-LDC-LDH (cooling only)** or **series ILD-ILDC-ILDH (reversible)** are delivered with the following components:

- air-cooled condenser with propeller fan motor assembly,
  - chilled water evaporator (or hot water condenser on reversible models),
  - capacity control system on chilled or hot water,
  - starting automatic control, electrical compartment:
    - . Power supply : 3~50Hz 400V (+10%/- 10%) + earth
    - . Control circuit: 1~50Hz 230V
- (transformers are mounted on the unit in the standard version),  
- cabinet for outdoor installation.



80 to 300

#### ■ Conformity with the EC European directives

- Machines EC 2006/42/EC
- Electromagnetic EMC 2004/108/EC
- Under pressure equipment PED EC 97 / 23 EC:
  - category 2 for LD - LDC - LDH 80V to 1100V
  - category 2 for ILD - ILDC - ILDH 80V to 700V
  - category 3 for ILD - ILDC - ILDH 702V to 1100V
- Low voltage 2006/95/EC

#### ■ Conformity to standards

- EN 60-204, EN 378-2 (NFC15 - 100 France).

### NOMENCLATURE

<b>ILD</b>	>	reversible version	<b>H</b>	>	hydraulic version with pump and buffer tank
<b>LD</b>	>	cooling only model	<b>540</b>	>	size
<b>C</b>	>	hydraulic version with pump	<b>V</b>	>	refrigerant R410A

### STANDARD OR OPTIONAL EQUIPMENT

	LD	LDC-LDH	ILD	ILDC - ILDH
	COOLING ONLY		HEAT PUMP	
3-400V 50hz main supply without neutral with transformer	Std	Std	Std	Std
Coil protective grille	Std ➔ 300	Std ➔ 300	Std ➔ 300	Std ➔ 300
Resilient mounts	Std	Std	Std	Std
Main switch	Std	Std	Std	Std
Water flow switch	Std	Std	Std	Std
Additional potential free contacts board	O	O	O	O
Remote control (Remote console)	O	O	O	O
Phases control system (direction, absence, under & over voltage)	O	O	O	O
Progressive soft start	O	O	O	O
Anti-frost protection	O	O	O	O
All year round operation (min. outdoor temp.: -15°C)	Std	Std	Std	Std
Condenser fan speed control (min. outdoor temp.: -20°C)	O	O	O	O
Partial heat recovery - Desuperheater	O	O	O	O
Altena coil protective coating	O	O	O	O
Polyurethane fin protective coating	O	O	O	O
Water filter - 800 µm	O	Std	O	Std
Water adjustment kit (manifold, control valve, stop valve)	O	O	O	O
Flexible water connections	O	O	O	O
Twin pump	-	O / 180 ➔ 1100	-	O / 180 ➔ 1100
Additional technical compartment (without equipment)	O / 180 ➔ 300	O / 180 ➔ 300	O / 180 ➔ 300	O / 180 ➔ 300
Electric auxiliary heater kit 15 kW	-	-	O / 80 ➔ 150	O / 80 ➔ 150
Electric auxiliary heater module 15 - 30 - 45 kW	-	-	O / 180 ➔ 300	O / 180 ➔ 300
MULTICONNECT several units management	O	O	O	O
Auxiliary external heater management board (4 stages)	-	-	O	O
XTRAFAN air fans system	O / ➔ 700	O / ➔ 700	O / ➔ 700	O / ➔ 700
Low temperature glycol/water reinforced insulation (0 to -12°C)	O / 350 ➔	O / 350 ➔	O / 350 ➔	O / 350 ➔
LONWORKS communication gateway	O	O	O	O
Handling for container	350 ➔ 1100	350 ➔ 1100	350 ➔ 1100	350 ➔ 1100
Optimised high pressure operation (all-season operation with energy optimisation)	O / 350 ➔ 1100	O / 350 ➔ 1100	-	-
Electronic expansion valve	O / 350 ➔ 1100	O / 350 ➔ 1100	-	-
Total heat recovery	O / 350 ➔ 1100	O / 350 ➔ 1100	-	-
Shell and tube exchanger	O / 350 ➔ 1100	-	-	-

Std: Standard feature

O: Optional equipment

\_: Not available

**Note:** Some technical specifications not appearing on the above list can however be quoted on request (consult us)