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### **General description**

High efficiency water chillers, energy class "A", aircooled with axial fans for outdoor installation.

### **Structure**

Self-supporting galvanized steel frame further protected with polyester powder painting. Easy to remove panels allow access to the inside of the unit for maintenance and other necessary operations.

### **Compressors**

Screw semihermetic, with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection, hot gas shut off valves and stepless capacity steps.

### **Fans**

Axial fans directly coupled to a three-phase electric motor with external rotor. A safety fan guard is fitted on the air flow discharge. On the super silenced units there are fans with a low rpm therefore some models have more fans.

### **Condenser**

Copper tube and aluminium finned coil.

### **Evaporator**

Shell and tube, with two independent refrigerants circuits and one water circuit.

### **Electrical panel**

Includes: main switch with door safety interlock; fuses, overload protection for compressors and thermocontacts for fans; interface relays and electrical terminals for external connections.

### **Microprocessor**

for automatic control of the unit allowing continuous display of the operational status of the unit, control set and real water temperature and, in case of partial or total block of the unit, indication of security device that intervened.

### **Refrigerant circuit**

Each unit includes two independent refrigerant circuits. Produced in copper tubing, all models have the following components: electronic expansion valve, economizer (except 302), shut off valve on liquid, filter-drier, level and humidity indicator, high and low pressure switches (with fixed setting), safety valve and BP/HP manometers.

### **Water circuit with additional inertial tank. (not available for 732÷1102 models).**

Includes: evaporator built in the insulated inertial tank, temperature sensor, antifreeze sensor, safety valve, manual air vent and water drain.

### **Water circuit with additional circulation pump.**

Includes: evaporator, temperature sensor, antifreeze sensor, circulation pump, flow switch, water manometers in suction and hot gas lines, expansion vessel, safety valve and thermal relay.

### **Electronic proportional device**

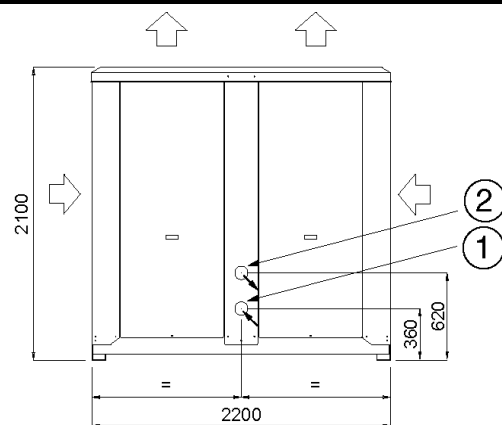
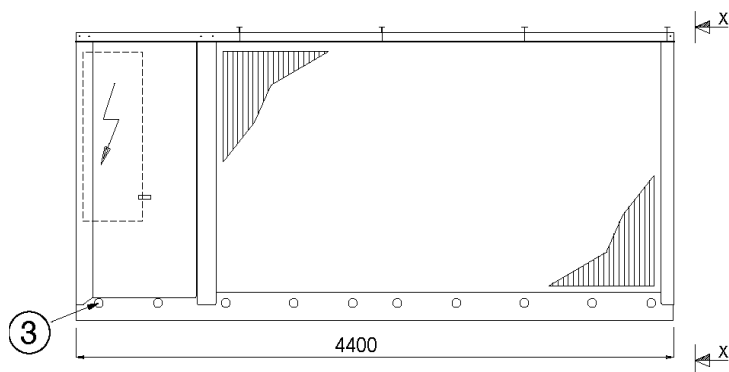
to decrease the sound level, with a continuous regulation of the fan speed. This device allows also the cooling functioning of the unit by external temperature till 0 °C.

**CHA/Y 1502-A SPU**  
**Aircooled liquid chiller with axial fans**

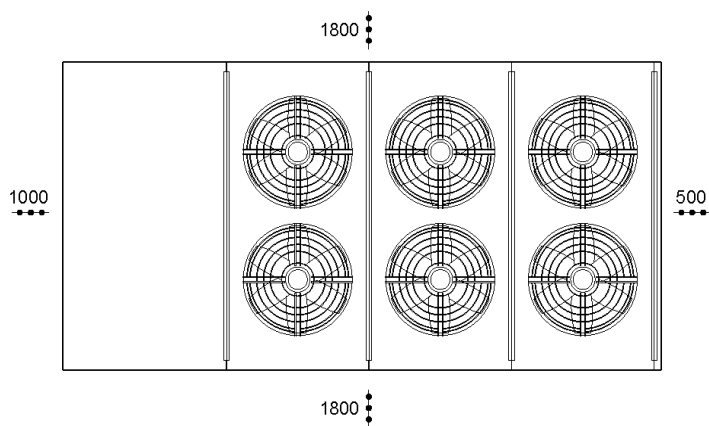


| OFFER: 22  |         | POSITION: 2       |  | QUANTITY: 1 |  |
|--|---------|-------------------|--|-------------|--|
| GENERAL INFORMATION                                  |         | Summer            |  | Winter      |  |
| Cooling capacity                                     | kW      | 276,0             |  |             |  |
| Heating capacity                                     | kW      |                   |  |             |  |
| Power input compressors                              | kW      | 86,1              |  |             |  |
| Refrigerant  | Type    | R134a             |  |             |  |
| Compressors  | Type    | Screw             |  |             |  |
| Compressors / Refrigerant circuits                   | n°      | 2 / 2             |  |             |  |
| Capacity steps                                       | %       | stepless          |  |             |  |
| Refrigerant charge                                   | kg      | 77,0              |  |             |  |
| ESEER  |         | 4,37              |  |             |  |
| IPLV   |         | 4,66              |  |             |  |
| ELECTRICAL DATA                                      |         |                   |  |             |  |
| Power input unit                                     | kW      | 99,6              |  |             |  |
| Input current unit                                   | A       | 176,6             |  |             |  |
| Max input current unit                               | A       | 216,0             |  |             |  |
| Inrush current unit <sup>1</sup>                     | A       | 274,0             |  |             |  |
| Supply voltage (power)                               | V/Hz/Ph | 400/50/3          |  |             |  |
| Supply voltage (auxiliary)                           | V/Hz/Ph | 230/50/1          |  |             |  |
| SOUND PRESSURE                                       |         |                   |  |             |  |
| Sound pressure level at 1 m from the unit (ISO 3744) | dB(A)   | 68                |  |             |  |
| FAN SECTION (PRIMARY)                                |         |                   |  |             |  |
| Condenser  | Type    | Finned coils      |  |             |  |
| Fans   | n°      | 6                 |  |             |  |
| Ambient air temperature                              | °C      | 35,0              |  |             |  |
| Air flow   | m³/s    | 28,30             |  |             |  |
| Usable static pressure                               | Pa      | 0                 |  |             |  |
| Power input  | kW      | 8,0               |  |             |  |
| Current input  | A       | 19,0              |  |             |  |
| HYDRAULIC SECTION (SECONDARY)                        |         |                   |  |             |  |
| Evaporator   | Type    | Tube bundle       |  |             |  |
| Fluid  |         | Glicole etil. 30% |  |             |  |
| Inlet temperature                                    | °C      | 12,0              |  |             |  |
| Outlet temperature                                   | °C      | 7,0               |  |             |  |
| Waterflow  | l/s     | 14,6              |  |             |  |
| Pressure drop  | kPa     | 40,8              |  |             |  |
| SPU VERSION  |         |                   |  |             |  |
| Pump available static pressure                       | kPa     | 214               |  |             |  |
| Pump nominal power                                   | kW      | 5,50              |  |             |  |
| Pump nominal current                                 | A       | 14,0              |  |             |  |
| Ex vessel volume                                     | Litres  | 35                |  |             |  |
| Tank volume  | Litres  | 1100              |  |             |  |
| DIMENSIONS AND WEIGHT                                |         |                   |  |             |  |
| Length x Width x Height                              | mm      | 4400x2200x2100    |  |             |  |
| Transport weight / Operating weight                  | kg      | 3645 / 4855       |  |             |  |

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view X-X



- 1) Water inlet
- 2) Water outlet
- 3) Lifting points
- 4) Clearance area