



## Key features:

- Sustainable components of European brands
- High performance operation related to energy consumption
- Low sound level
- Environmental friendly refrigerants with low GWP
- Advanced microprocessor controller
- New generation screw and oil free centrifugal compressors
- Inverter pump with integrated hydraulic system
- Shell and tube flooded evaporator or plate exchangers
- Powder coated galvanised steel construction with stainless steel rivets
- Very low refrigerant charge to limit environmental impact

Due to the European ECODesign directive and the search of maximum flexibility, the new range of **MaxiQua** water cooled chiller is designed for a lower environmental impact. MaxiQua's next-generation refrigerants operate through high-efficiency and low global warming potential (GWP).

Maxiqua chillers are available in cooling capacities from 390– 2100 kW (100-500 RT)

Depending on the required application, the MaxiQua is designed for commercial, hospitals, datacenters, petrochemical/gas industry and marine. Our products are built with premium European grade materials for a maximum reliability.

### Unique design philosophy for a sustainable green environment

With 65 years of experience, Horos takes the responsibility to reduce the carbon emissions by next-generation, low global warming potential (GWP) refrigerants and high-efficiency operation.

### Efficiency

Using screw compressors with or without inverters and oil free centrifugal compressors in combination with microchannel condensers and EC fans, the MaxiQua reach a much higher efficiency. The centrifugal compressors with no lubricating oil entrainment, high capacities and compact design, frequency controlled capacity regulation with a remarkable precision on the adjustment of the discharge temperature, slight inrush current and maximum efficiency achieves remarkable ESEER values.

### Intelligence

The powerful microprocessors control the performance of the chiller and is designed to maximise the efficiency and performance with high reliability. It optimizes the capacity control with partial load and fan speed. The controller is able to communicate with most BMS for monitoring its performance.

### Acoustic performance

The best acoustic performances have been achieved by innovations on the new generation screw-, and oil free centrifugal compressors. All units can be equipped with acoustic compressor enclosure.

# MAXIQUA WATER-COOLED LIQUID CHILLERS FOR INSIDE OPERATION

Cooling	Type	472	592	672	772	1062	1222	1392	1462	1652	1933	2203	2493
Capacity (1)	kW	390	483	552	639	835	960	1093	1231	1404	1647	1858	2098
<b>Heating</b>													
Capacity (1)	kW	535	660	755	868	1131	1307	1482	1674	1901	2231	2524	2843
Absorbed power	kW	146	177	203	229	297	347	389	443	497	583	665	745
COP		3,7	3,7	3,7	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8
<b>Cooling circuit</b>													
Number of circuits	Nr	2	2	2	2	2	2	2	2	2	3	3	3
Number of compressors	Nr	2	2	2	2	2	2	2	2	2	3	3	3
Capacity steps	Nr	6	6	6	6	6	6	6	6	6	9	9	9
Modulating		0 - 12 ÷ 100									0 - 8 ÷ 100		
<b>Dimensions</b>													
Length	mm	3860	3990	3990	3990	5200	5200	5200	5200	5200	5200	5200	5200
Wide	mm	900	1000	1000	1000	1300	1300	1300	1300	1300	2000	2000	2000
Height	mm	1790	1990	1990	1990	2370	2370	2370	2370	2370	2370	2370	2370
Transport weight	kg	2425	3376	3426	3895	6026	6104	6483	7006	7184	9834	10195	10523
Sound pressure level (2)	dB(A)	80	80	83	84	85	86	87	88	90	89	90	92
Electrical data	V / Ph / Hz	400 / 3 / 50 + N + A											
Maximum absorbed current	A	324	360	432	492	660	740	840	900	900	1.260	1.350	1.350

(1) Water 12°C / 7°C, Condensor 30°C / 35°C please note 1kW = 0,284 RT  
 (2) At 1m free field condition (ISO 3746)

## Options

- Modulating capacity steps
- Oil free centrifugal compressor
- Low noise
- Flow switch
- Communication via Modbus, BACnet or LonWorks
- Anti vibration dampers
- On demand setpoint adjustment
- Evaporator anti freeze heater
- Electronic expansion valve
- Electronic starter and phase controller



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