



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
- V shape Microchannel condensers for maximum performance
- Inverter pump with integrated hydraulic system
- Shell and tube or plate exchangers
- Powder coated galvanised steel construction with stainless steel rivets
- Very low refrigerant charge to limit environmental impact

Cooling capacities from 160 – 460 kW (54 – 130 RT)

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

MediAir chillers are available in cooling capacities from 160 – 460 kW (54 - 130 RT).

Depending on the required application, the MediAir 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 the newest generation of screw compressors with or without inverters in combination with microchannel condensers and EC fans the MediAir reach a much higher efficiency. The 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 fan blade technologies and noiseless compressor designs. Horos uses the best market acoustic performance fans, this is because of the latest generation of Aerofoil section with sickle-shaped blades, associated with acoustic compressor enclosure.

MEDIAIR AIR-COOLED LIQUID CHILLERS FOR OUTSIDE OPERATION

Chiller	Type	200	230	270	300	340	380	420	480
Cooling only									
Capacity (1)	kW	202	229	266	299	337	377	420	460
Absorbed power	kW	70	84	104	105	122	147	149	170
EER		2,9	2,7	2,6	2,9	2,8	2,6	2,8	2,7
ESEER (2)		4,2	4	3,9	4,1	4,1	3,9	4,5	3,9
Heatpump									
Cooling									
Capacity (1)	kW	191	215	271	295				
Absorbed power	kW	70	85	97	112				
EER		2,8	2,5	2,8	2,7				
ESEER (2)		4	3,8	4	3,9				
Heating									
Capacity (2)	kW	219	252	313	346				
COP		3,2	3,1	3,2	3,1				
Coolingcircuit									
Number of circuits	Nr	2	2	2	2	2	2	2	2
Number of compressors	Nr	4	4	4	4	5	5	6	6
Capacity steps	Nr	6	6	6	5	6	5	7	6
Dimensions									
Length	mm	3590	3590	3590	4620	4620	5650	5650	5650
Wide	mm	2280	2280	2280	2280	2280	2280	2280	2280
Height	mm	1964	1964	1964	1964	1964	1964	1964	1964
Transport weight	kg	2215	2245	2465	2880	3115	3210	3760	3800
Sound pressure level (4)	dB(A)	61	61	62	63	63	63	64	65
Electrical data		400 / 3 / 50 + A							
Maximum absorbed current	A	168	191,4	220,3	250,9	272,8	307,9	338	373

- (1) Water 12°C / 7°C, ambient 35°C please note $1kW = 0,284 RT$
 (2) Water 40°C / 45°C ambient 7°C
 (3) ESEER regarding EN14511 Eurovent calculation method
 (4) At 10m free field condition (ISO 3746)
 Maximum operating temperature 50°C
 Minimum operating temperature -10°C

Options

- Integrated hydraulic system
- Modulating capacity steps
- Inverter compressor
- Low noise
- Anti vibration dampers
- On demand setpoint adjustment
- Stainless steel application
- Evaporator anti freeze heater
- Anti corrosion coil treatment
- Electronic expansion valve
- Electronic starter and phase controller



Your HOROS Supplier: