

# Hyperchill MAXI

## High Performance Air Cooled Chiller



Hyperchill MAXI process chillers are designed to work in large industrial applications. Compact in footprint, reliable and very efficient, with low noise levels. The choice of high quality components, accurate construction, and strict testing procedures, guarantee the best reliability and no downtimes to industrial users. Easy installation and simplified maintenance, with low energy consumption are the main features that make Hyperchill MAXI suitable for many industrial applications.



### Process cooling applications:

- Extruders
- Welding Engineering
- Plastics Processing
- Injection Moulding
- Surface Processing
- Blow Moulding Machines
- Thermoform Machines
- Cutting Machine Tools
- Food & Beverage Industry
- Coating Systems
- Chemical and Pharmaceutical
- Electroplating Baths

### Product Features:

#### Complete solution, easy to install and manage

- Advanced electronic boards with proprietary software, various programmable options, easy interface and remote control
- Flanged water connections for quick installation
- Protection grills
- Full access design for ease of maintenance

#### High reliability and redundancy guarantee no downtimes

- Double independent fridge circuits
- 2 screw compressors with:
  - oil filters and level control,
  - crankcase heaters and liquid injection
  - shut-off valves
- Maximum working ambient temperature up to 45 °C
- Shell&tube evaporators with antifreeze protection and flow control
- Reverse phase protection

#### Lowest energy consumption in the market

- Oversized condensers and evaporators
- High efficiency screw compressors
- Electronic expansion valves and fans speed regulation with phase control

- Air cooled with axial fans and step control, suitable for outdoor installation.
- R407C optimized shell&tube heat exchangers, with two independent fridge circuits, completely insulated, featuring anti-freeze and water flow protection.
- Flanged water connections.
- Semi-hermetic screw compressors with stepless control, equipped with high efficiency oil filter and level control. Fitted as std. with shut off valves and vibration-damping mounts.
- Std. options: part winding soft start, crankcase heaters and liquid injection for oil cooling.
- Microprocessors allow complete control of the unit parameters, with wide range of programming options and remote monitoring available.
- Water and refrigerant manometers permit easy control of the working parameters.



### Options:

- **Single and double pumps** with different available head pressures.
- **Remote control kit** for complete remote unit management.
- **Connectivity option** for continuous monitoring and management via wireless connection.

### Benefits:

- Increases productivity and reduces production costs
- Optimizes industrial applications
- Adaptable to industrial customer needs
- Accepts wide range of water temperatures and fluctuating water flows

# Technical data

Model ICE		460	550	650	760
Cooling capacity <sup>1</sup>	kW	457,9	544,8	650,7	757,5
Compressor abs. Power <sup>1</sup>	kW	98,5	110,3	139,8	157,8
C.O.P. <sup>1</sup>		4,6	4,9	4,7	4,8
Water flow <sup>1</sup>	m <sup>3</sup> /h	78,8	93,7	111,9	130,3
Water pressure drops <sup>1</sup>	kPa	33,8	44,8	42,2	56,3
Cooling capacity <sup>2</sup>	kW	323,2	382,9	463,4	539,4
Compressor abs. Power <sup>2</sup>	kW	100,1	110,8	141,5	163,4
C.O.P. <sup>2</sup>		3,2	3,5	3,3	3,3
Water flow <sup>2</sup>	m <sup>3</sup> /h	56,9	67,6	81	93,7
Water pressure drops <sup>2</sup>	kPa	18,5	24,1	23,3	30,6
Power supply	V/ph/Hz	400/3/50 no neutral			
Protection in ex		54			
Refrigerant		R407C			

## Compressors

Type	semiermetic screw				
Compressors/circuits	2/2				
Max abs. power (1 comp.)	kW	71	81,3	98,1	118,1

## Axial fans

Quantity	n°	6	8	8	10
Max abs. Power - 1 fan	kW	2,1	2,1	2,1	2,1
Total air flow	m <sup>3</sup> /h	109.000	144.000	144.000	195.000

## Dimensions and weight

Width	mm	2.255	2.255	2.255	2.255
Depth	mm	4.000	5.100	5.100	6.200
Height	mm	2.400	2.400	2.400	2.400
Connections in/out	in	4	4	6	6
Weight	kg	3.240	3.850	4.000	4.800

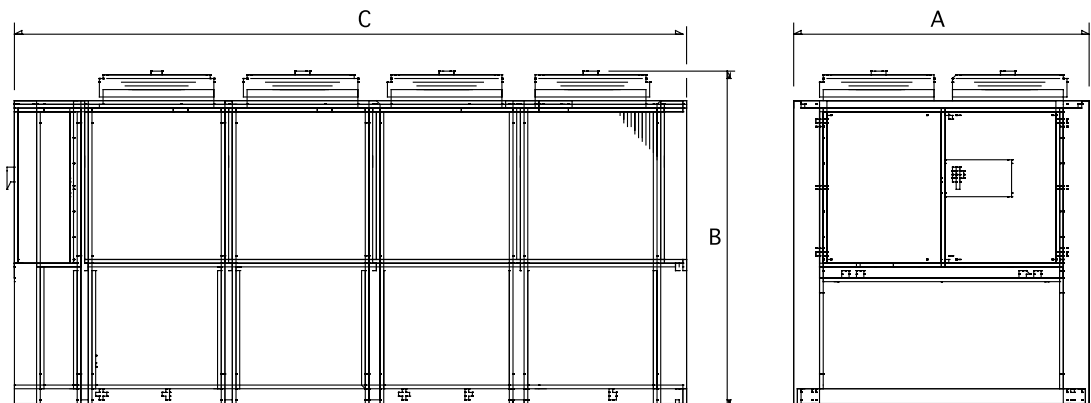
## Noise level

Sound pressure (axial) <sup>3</sup>	dB(A)	73	74	74	75
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1) at water inlet/outlet temperature = 20/15°C, glycol 0%, ambient temperature 25°C.

2) at water inlet/outlet temperature= 12/7°C, glycol 0%, ambient temperature 35°C.

3) measured in free field conditions at a distance of 10m from unit, on condenser side, 1m from ground.



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