

## PROFILE

The **Heavygel** compact industrial chillers of the **HGL** series have been designed to cope with the most demanding cooling requirements of high outputs in various industrial processes. They are air-cooled units with axial fans for external installation and equipped with screw compressors.

- The **HGL** series comes in configuration without any pump (**N**) for connection to GPH pumping stations.
- **Tropicalization fitted as standard** for continuous operation in environments up to **+110°F**
- The **Heavygel** series uses **ecological gas**, in respect of the European directives for environmental protection
- Electronic controller with microprocessor with easy-to-use immediate interface, fitted with self diagnosis for complete management of the cooling unit.
- Possibility of connecting **Remote-assistance** with **Frigel Service** via GSM.
- High efficiency screw **compressors**, with control of the cooling capacity supplied by means of proportional regulation.
- **Fans** with **direct current (brushless)** motor with speed control. Unlike the traditional step or TRIAC systems, these fans significantly reduce noise, increase the machine reliability and lifetime, reducing **the electric consumption of the fans by more than a third**.
- The particular design of the **Heavygel** chillers permits simplicity of use and easy maintenance of all the parts.
- Possible combination with the air blast fluid coolers of the **Ecodrygel** series to create **free-cooling** type cooling systems.
- The choice of components, the assembly procedures and the strict final testing of 100% of the production guarantee continuous operating cycles with excellent reliability even in the most difficult conditions.
- The range includes 6 models with a cooling output ranging from **93 to 261 Tons**.

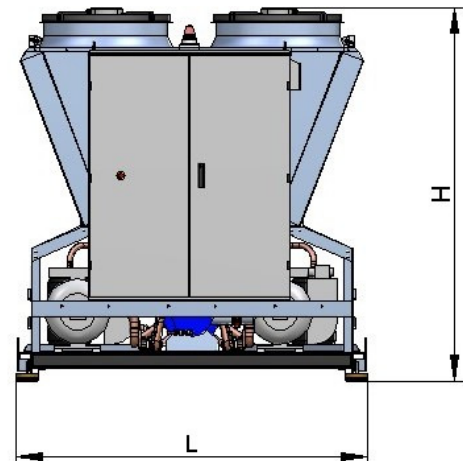
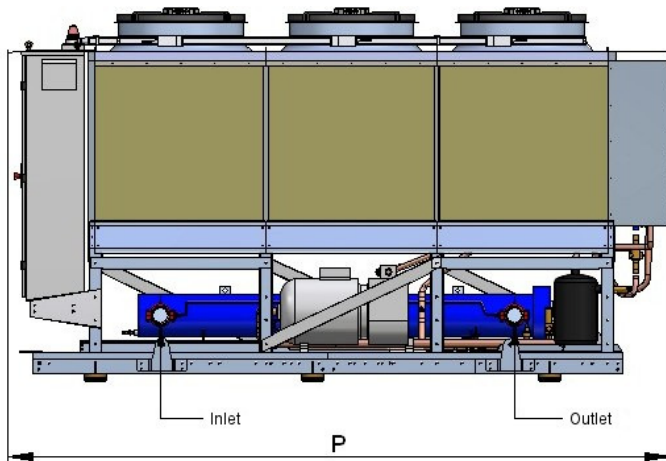


mod.  
HGL660/2AN

## TECHNICAL DATA

Microgel			HGL					
Model			360/2	400/2	540/2	660/2	800/2	950/2
Cooling capacity	*59/77	Tons	93	120	152	176	217	261
	*50/95	Tons	74	96	122	141	173	209
	*45/90	Tons	69	89	113	131	161	194
Cooling capacity "T" version	*50/95	Tons	56	72	91	106	130	157
	*50/125	Tons	45	57	73	85	104	125
Compressor	No.		2	2	2	2	2	2
	nom. HP		40	50	65	80	100	120
Evaporator	nom.	GPM	22	19	20	16	30	26
	$\Delta p$	Psi	198	255	324	376	462	557
Fans	No.		6		8		10	12
	kW		2,5		2,5		2,5	2,5
Total Max Load Values	kW		132	148	181	22	251	302
	A - 460		183	203	278	31	374	437
	A - 380		221	245	335	36	450	526
Sound level @ 10 mt.	dB (A)		54	54	55	56	57	58
Connections	Victaulic®		DN100		DN150		DN150	DN150
Width - L	in		169		213		254	297
Depth - P	in		89		89		89	89
Height - H	in		94		94		94	94
Net weight	Lb		7275	7716	8818	8851	11034	12621

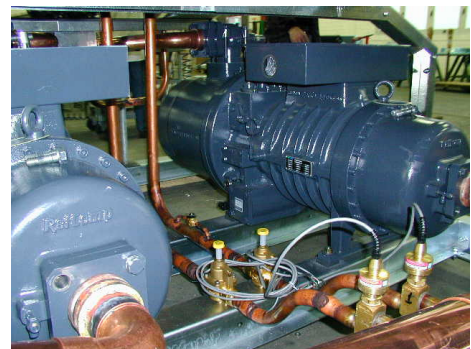
[\*] Cooling water temperature / Ambient temperature (°F)  
Supply : 380-460 Volt  $\pm$  15% - 60Hz



## TECHNICAL FEATURES

- **REFRIGERATION EQUIPMENT**

- screw rotary compressors
- shell & tube evaporators
- copper pipe condensers with aluminium fins, designed to withstand extreme climatic conditions (maximum temperature +110°F)
- die-cast aluminium axial fans with direct current (brushless) motor with speed control
- operating temperature can be set from 32°F to +85°F



- **WATER DISTRIBUTION EQUIPMENT**

- chiller pump, fitted with a high resistance mechanical seal and tropicalized motor
- completely insulated pipes, tank, connection parts and manifolds

- **ELECTRICAL AND CONTROL EQUIPMENT**

- separate thermal protection on each compressor, pump and fan
- main switch with door lock
- emergency stop
- in line with EN 60204/1 standards
- microprocessor control for regulating and controlling all the functions and displaying the alarms.



- **FRAME**

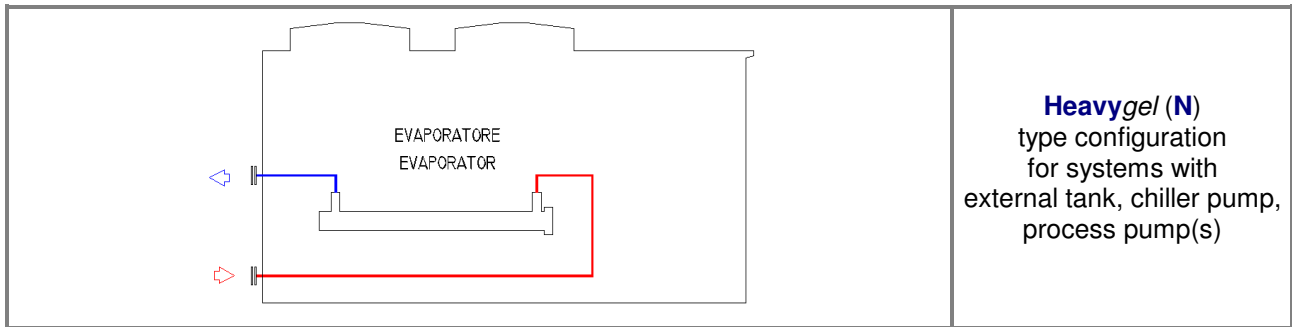
- galvanised steel

<b>Ordering code</b> Example: HGL660/2AM	<div style="border: 1px solid black; padding: 2px;">HGL</div> --- Series	<div style="border: 1px solid black; padding: 2px;">660</div> --- Cooling capacity	/2	<div style="border: 1px solid black; padding: 2px;">A</div> A = Axial fans	<div style="border: 1px solid black; padding: 2px;">N</div> N = without pump

## ACCESSORIES AND OPTIONALS

- **PMR Heavygel**  
Remote control panel for operating the cooling unit remotely.
- *Epoxy* coating on condenser's aluminium fins for installation in aggressive environments.

## CONFIGURATION



## INSTALLATION DIAGRAM

