

PHOENIX^{plus}

Air cooled water chillers featuring double screw semihermetic compressors.



pure energy



Conditioning your ambient,
maximising your comfort.



Cooling, conditioning, purifying.

ELEVATED IPLV

The new Phoenix Plus range of chillers has been specifically designed to optimize the benefits of refrigerant R134a; **their maximum advantage is achieved in those installations where the chiller operates below its design load conditions for most of the year.**

Thanks to unique technical solutions and continuous compressor regulation according to the exact effective cooling load requested by the system, Phoenix Plus achieves market leading ESEER and IPLV seasonal performance ratios, as well as nominal load EER ratios which are well above the minimum limit of the Class A energy efficiency category.

- 20 different basic models to match the specific requirements of the installation;
- Maximum ease of access to all components and coils for routine cleaning operations;
- High temperature limits already from the basic units (up to 50°C for the HE version);
- High efficiency version with the majority of models in energy efficiency Class A;
- Facility to choose between three different sound insulation configurations.



STANDARD FEATURES

- R134a ecological refrigerant with zero ozone depletion potential;
- Microprocessor controller;
- Semi-hermetic dual screw compressors expressly developed for use with R134a;
- Tube core evaporator expressly designed for use with R134a
- "Victaulic" hydraulic connections;
- Condensers with transverse "V" formation and subcooling section;
- Check valve on compressor discharge and shut-off valves on discharge and suction lines;
- Shut-off valve and solenoid valve on the liquid line;
- Limitation of peak current by means of part-winding device;
- Muffler and flexible hoses on compressor suction and discharge (SSN version);
- IP54 protection rating;
- Extensive factory tested;
- 400/3/50 power supply.

MAIN OPTIONS

- Electronic expansion valves;
- Electronic fan speed control;
- Version for -20 °C ambient air temperature;
- Filters to protect the condenser coils;
- Refrigerant-water exchangers protected with antifreeze heaters;
- Condenser coils with anticorrosion treatment;
- Special applications for dual set-point operation;
- Special applications with partial or total heat recovery exchangers;
- Special applications for water temperatures down to -10 °C;
- Special very high efficiency applications;
- Special applications with power factor correction capacitors;
- Replicated or single type remote control kit;
- Antivibration mounts kit;
- Protocols for supervision systems.

6-key semi-graphic backlit PGD terminal.



Electronic thermostatic expansion valves.



Maximum accessibility to compressors.



TECHNICAL DATA

Modelo PN		160	170	180	190	200	220	250	265	280	310	330	360	390	405	420	440	470	500	530	560
Cooling capacity	kW	320	340	359	389	420	476	522	564	606	667	714	765	824	868	927	980	1007	1039	1148	1233
Absorbed power	kW	114	122	131	133	145	158	176	190	201	220	237	259	279	290	304	321	338	356	383	405
I.P.L.V.	-	3.9	4.0	4.0	4.1	4.1	4.1	3.9	4.2	4.3	4.1	4.1	4.0	4.1	4.2	4.3	4.2	4.1	3.9	4.2	4.3
ESEER	-	3.6	3.7	3.7	3.7	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.8	3.8	3.7	3.8	3.9
Max external air temp.	°C	44	44	44	44	44	46	44	44	44	46	46	44	44	44	44	45	44	44	44	44
Compressors	n°	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4
Noise	dB(A)	68.9	68.9	68.9	70.1	70.1	71.0	71.1	71.0	70.9	72.4	72.7	72.8	72.8	72.7	72.6	74.0	74.1	74.1	74.0	73.9
Depth	mm	4530	4530	4530	4530	4530	4530	4530	4530	4530	6510	6510	6460	6510	6510	6510	8490	8490	8490	8490	8490
Width	mm	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190	2190
Height	mm	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360
Installed weight	Kg	3354	3396	3440	3976	4104	4518	4644	4727	4811	6216	6612	6824	6929	7010	7204	8662	8900	8943	9358	9525

- Chiller: evaporator water inlet-outlet 12-7 °C, external air temperature 35 °C.

IPLV calculated in accordance with ARI Standard 550/590-2003

ESEER: European Seasonal Energy Efficiency Ratio adopted by Eurovent

Sound pressure level in hemispherical field at 10 m from condenser side and 1.6 m from ground.

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