



ABOUT THE RANGE

ICS Cool Energy can provide a range of Heat Pump chillers, capable of offering cooling and heating from one single source.

This new range of chillers, which also offer low power usage and internal circulation pumps and thermal buffer tanks can provide cooling down to -10°C and heating up to 45°C.

THE ICS COOL ENERGY PORTFOLIO

ICS Cool Energy can also supply the following equipment:

- Air-cooled rental chiller range from 0.3kW – 1,000kW units.
- Water-cooled rental chiller range from 7.5kW – 1,000kW units.
- Air handling units & fan coils from 5kW – 500kW duties.
- Air conditioning units from 1.3kW – 350kW units.
- Low temperature chillers (-30°C) and fan coils (0°C air off).

- Dehumidifiers (desiccant & electric) 200-10,000m³/hr.
- Generator Power with 20KVA – 800KVA, fuel tanks and management.
- Air distribution (flexible ducting and perforated air socks).
- Hot water generators and boilers from 25kW – 500kW units.
- Heating (office/warehouse) from 3kW to 200kW electric/indirect/heat pump.

We also provide full installation, transportation, lifting and monitoring.

CONTACT

Bel ons op
+31 (0)88 - 258 2580 of
 bezoek onze website
www.icscoolenergy.nl

info@icscoolenergy.nl

TECHNICAL

TECHNICAL SPECIFICATION	COOLING	HEATING
Refrigerant	R410A	
Frequency	50 Hz	
Fans	Axial	
Heat exchanger	Shell & Tube	
Compressors	Scroll	
Inlet Water Temperature	7°C	40°C
Outlet Water Temperature	12°C	45°C
Glycol Type	EthyleneGlycol	
Glycol Percentage Weight	35%	
Fouling Factor	0 m² K/W	
Ambient Temperature	35°C	7°C
Relative Humidity	-	87%
Cooling Capacity	160kW	-
Heating Capacity	-	175kW
Total Absorbed Power	52,6kW	58,3kW
EER	1,45 kW/kW	-
COP	-	2,99 kW/kW
Evaporator water flow Rate	14,7 m³/h	33 m³/h
Evaporator Pressure Drops	0,187 bar	0,704 bar
Min Ambient Temperature	-10°C	-6°C
Max Ambient Temperature	39°C	25°C

SOUND LEVELS

Measurements are taken in accordance with the standard ISO 3744.

Sound pressure average value obtained in free field on a reflective surface at a distance of 10m from the longer side of the machine at a height of 1.6m +/- 2 under full load in normal conditions.

For measurements closer than 10m add the following: 5m +6, 3m +10 and 1m +15

MODEL	OCTANE BANDS (Hz)	63	125	250	500	1000	2000	4000	8000
Heat Pump 175	Sound Power Level	56,8	74,4	85,9	86,8	86,8	83,9	76	65,6

MODEL	SOUND POWER LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL	SOUND PRESSURE LEVEL
Heat Pump 175	92,2 dB(A)	64,2 dB(A) 10 m	70,2 dB(A) 5 m	74,2 dB(A) 3 m	79,2 dB(A) 1 m

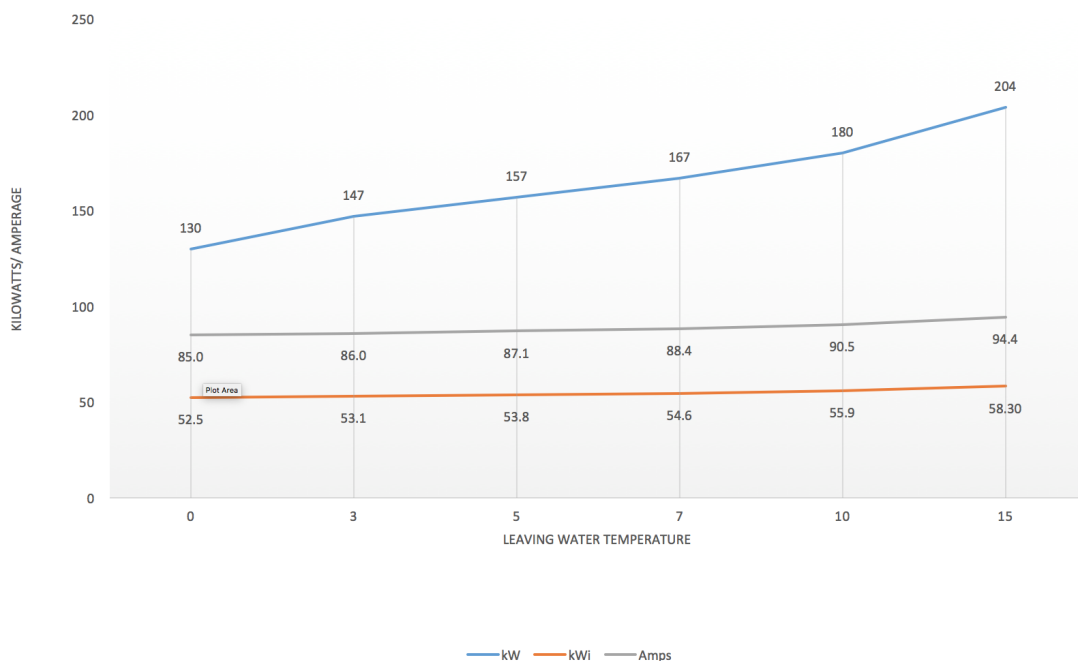
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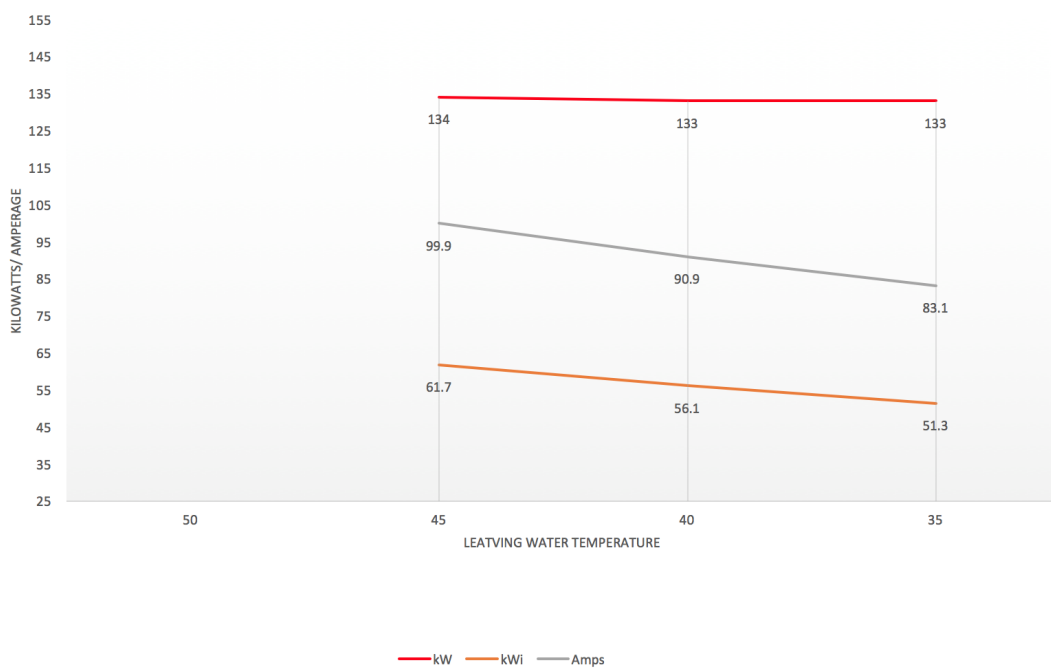
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HEAT PUMP 175

COOLING



HEATING -5°C AMBIENT



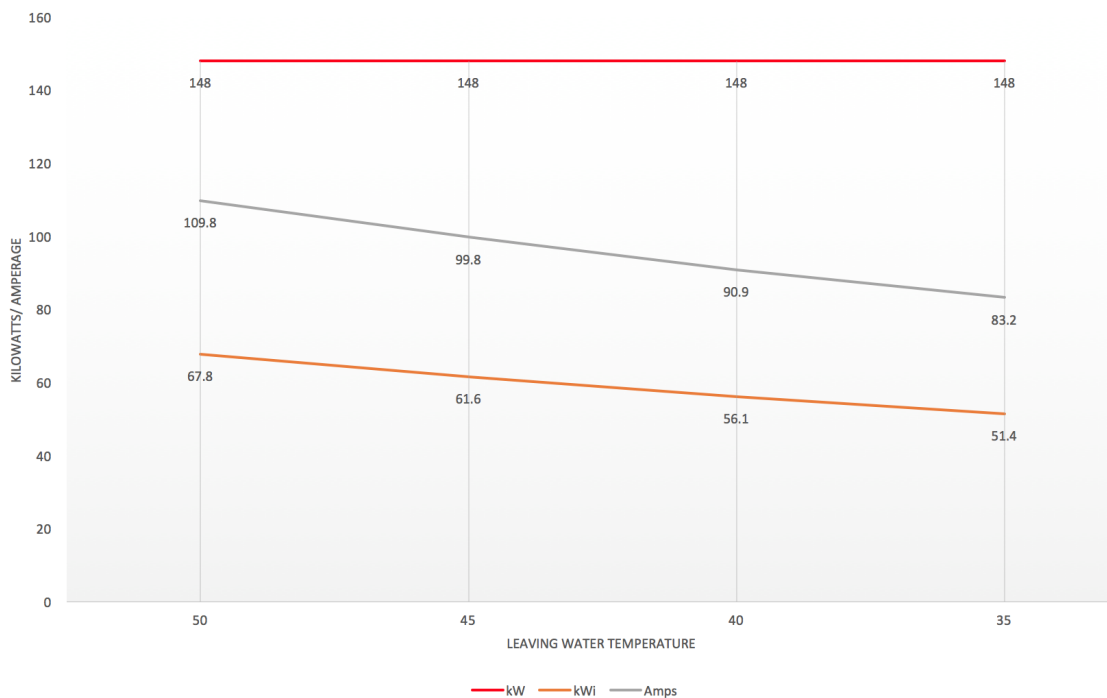
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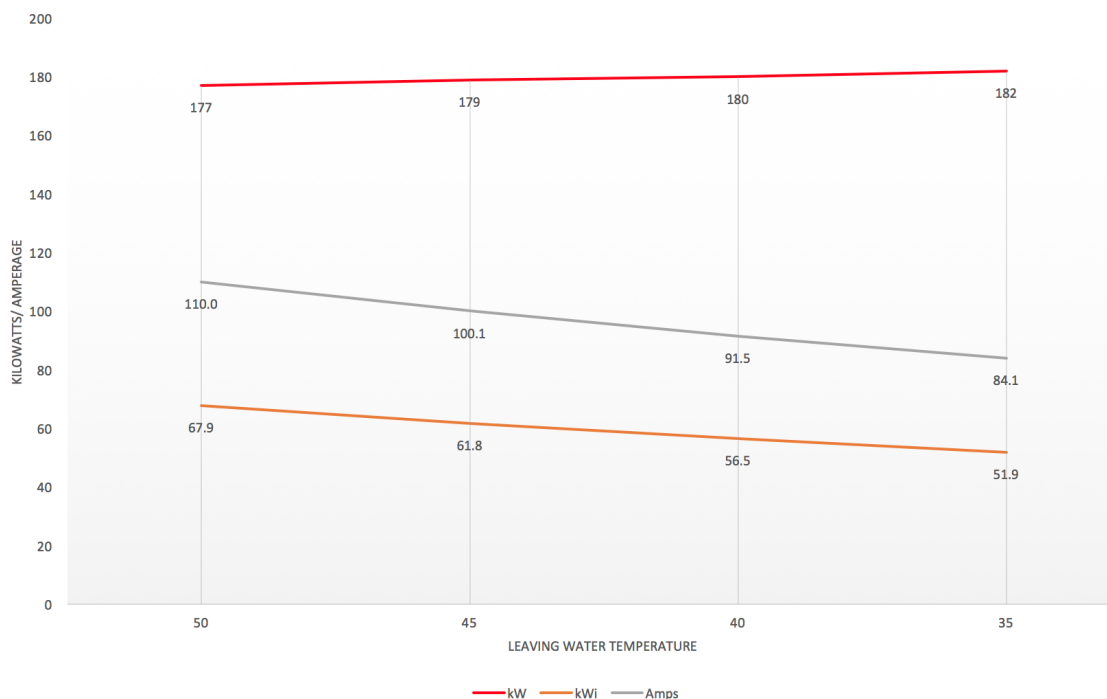
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HEAT PUMP 175

HEATING -1°C AMBIENT



HEATING 7°C AMBIENT



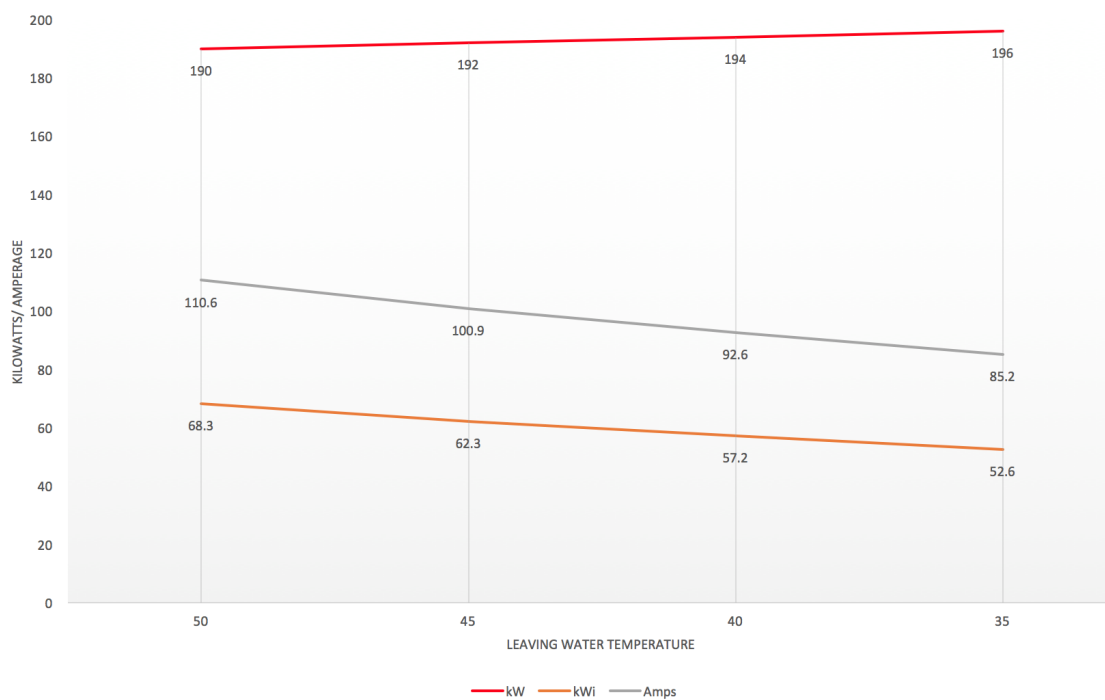
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HEAT PUMP 175

HEATING 10°C AMBIENT



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