

LIFT 1204-P

WATER COOLED HEAT PUMPS FOR HOT WATER PRODUCTION AT VERY HIGH TEMPERATURE WITH SCROLL COMPRESSORS AND PLATE EXCHANGERS.



The picture and the descriptions are only a sample of the selected unit. The real unit configuration can change depending on versions and or accessories selected.

TECHNICAL FEATURES

General description.

Water cooled Heat Pumps for indoor installation.

Frame.

Self-supporting galvanized steel frame further protected with polyester powder painting. Easy to remove panels allow access to the inside of the unit for maintenance and other necessary operations.

Compressors

Scroll with oil sight glass. They are fitted with internal overheat protection and crankcase heater. They are installed on rubber shock absorbers.

Condenser

AISI 316 stainless steel braze welded plate type, with two independent circuits on the refrigerant side and one on the water side.

Evaporator

AISI 316 stainless steel braze welded plate type, with two independent circuits on the refrigerant side and one on the water side.

Electrical board.

It includes: main switch with door safety interlock; fuses; thermal relays for compressors protection; interface relays; electrical terminals for external connections.

Microprocessor

For automatic control of the unit, allowing continuous display of the operational status of the unit, control set and real water temperature and, in case of partial or total block of the unit, indication of security device that intervened.

Refrigerant circuit.

Made of copper pipe, it includes the following components on all models: thermostatic electronic expansion valve; filter drier; liquid and humidity indicator; high and low pressure switches (with fixed setting).

Source side water circuit.

It includes: evaporator; temperature sensors; water differential pressure switch.

User side water circuit.

It includes: condenser; temperature sensors; water differential pressure switch.

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TECHNICAL DATA

Unit	LIFT 1204-P	
Refrigerant	R134a	
Refrigerant circuits	n°	2
Refrigerant charge	kg	33.7

Heating conditions

User side

Fluid	Water	
Inlet fluid temperature	°C	70.0
Outlet fluid temperature	°C	80.0
Flow rate	l/s	9.79
Pressure drops	kPa	11.3

Source side

Fluid	Water	
Inlet fluid temperature	°C	31.0
Outlet fluid temperature	°C	26.0
Flow rate	l/s	12.48
Pressure drops	kPa	18.3

Heating performances

Heating capacity	kW	399.7
Compressors absorbed power	kW	140.3
Partialization	%	100
COP		2.85
SCOP (**)		4.50
Energy efficiency (**)	%	172
Energy class (***)		-

Compressors

Type	Scroll	
Number	n°	4
Capacity steps	%	0/25/50/75/100
Minimum capacity step	%	25

Hydraulic section (User side)

Heat exchanger	Plate	
Fouling factor	m ² °C/W	0.0000000
Minimum water circuit content	l	610
Water connections	DN 80	

Hydraulic section (Source side)

Heat exchanger	Plate	
Fouling factor	m ² °C/W	0.0000000

Minimum water circuit content	l	1180
Water connections		DN 80

Dimensions

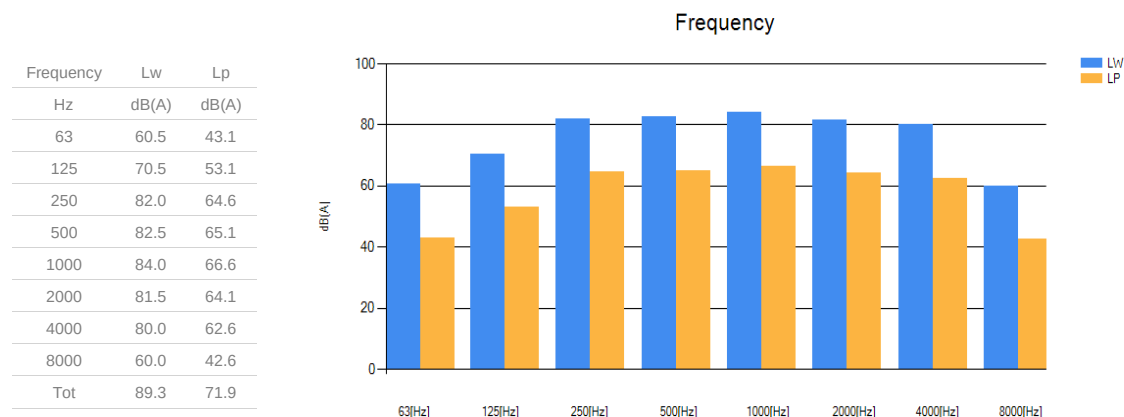
Length	mm	2500
Width	mm	800
Height	mm	1900

Weight

Transport weight	kg	1519
Operating weight	kg	1610

Sound data

Sound power (Lw) (1)	dB(A)	89.3
Sound pressure (Lp) (2)	dB(A)	71.9
Distance from the unit	m	1



Electrical data

Absorbed current	A	214.5
Max running current	A	226.0
Unit max starting current	A	480.0
Power supply	V-Hz-ph	400/50/3
Auxiliary supply	V-Hz-ph	230/50/1

Notes

(1) Sound power according to Standard ISO 3744 and Eurovent 8/1.

(2) Sound pressure measured in free field conditions. Average value as defined by ISO 3744.

(**) Seasonal energy efficiency of heating at medium temperature with average climatic conditions. According to EU Regulation n. 813/2013.

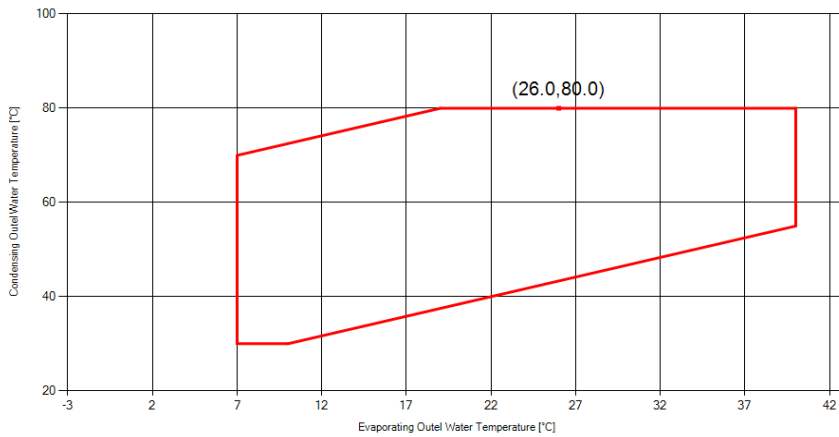
(***) Seasonal energy efficiency class of heating at medium temperature with average climatic conditions. According to EU Regulation n. 811/2013.

The reported performances are obtained from theoretical calculations and therefore affected by tolerances.

The manufacturer reserves the right to modify the data whenever it is considered necessary, without prior notice.

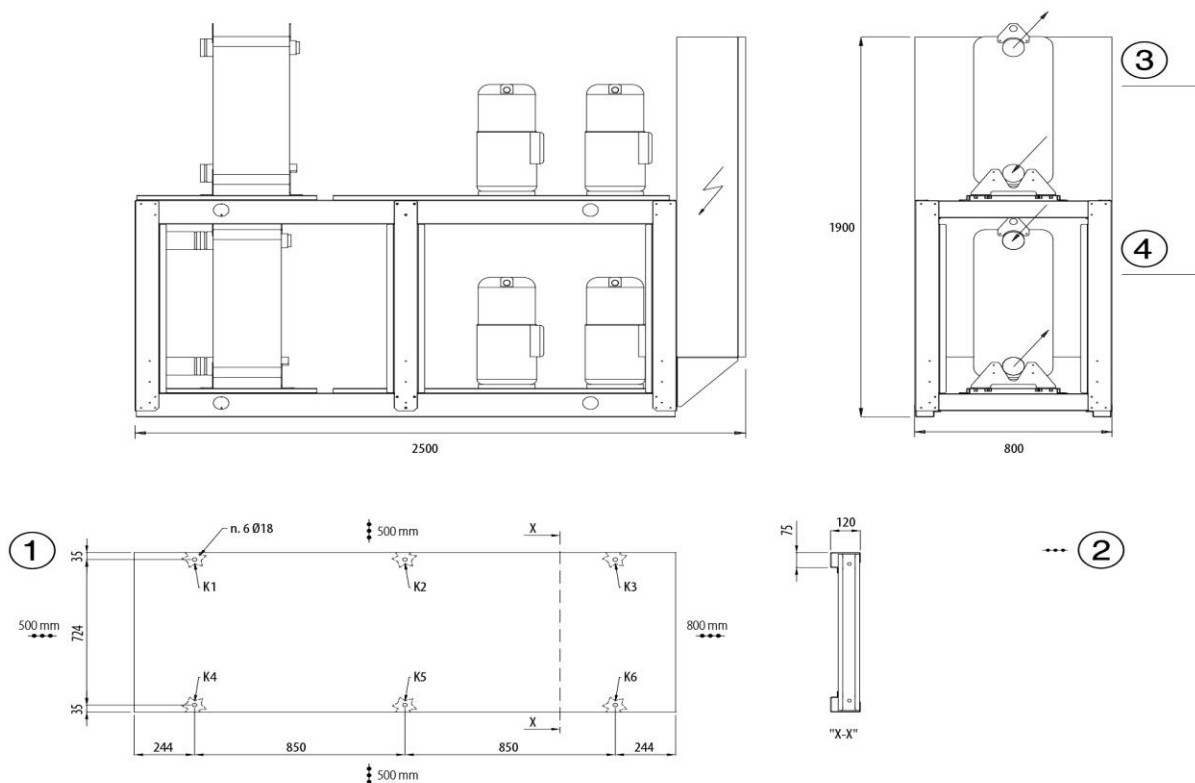
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OPERATING RANGE: HEATING



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DIMENSIONAL DRAWING



- 1) Basement
- 2) Clearance area
- 3) User Side
- 4) Source Side