

Model: PWE N 621 Kp
Option: Kp - R290 – DR - TE

COOLING / HEATING ^{STD}

Performance data		
Heating capacity	kW	60.4
Total input power	kW	14.6
Compressor input power	kW	14.4
Input current	A	27.8
Cooling capacity	kW	45.8
COP/EER	W/W	4.1/3,1
Source		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	10/7
Fluid flow rate	m ³ /h	10.5
Circuit pressure drops	kPa	9.6

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	40.0/45.0
Fluid flow rate	m ³ /h	10.5
Circuit pressure drops	kPa	9.6

HEATING ⁰

Performance data		
Heating capacity	kW	48.8
Total input power	kW	15.4
Compressor input power	kW	15.1
Input current	A	29.0
Source capacity	kW	33.3
COP	W/W	3.16
Source		
Fluid type		Eth. Glycol
Concentration	%	25.0
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	3.0/0.0
Fluid flow rate	m ³ /h	10.5
Circuit pressure drops	kPa	14.1

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	45.0/50.0
Fluid flow rate	m ³ /h	8.45
Circuit pressure drops	kPa	6.40

HEATING¹

Performance data		
Heating capacity	kW	46.1
Total input power	kW	18.1
Compressor input power	kW	18.0
Input current	A	29.0
Source capacity	kW	27.9
COP	W/W	2.54
Source		
Fluid type		Eth. Glycol
Concentration	%	25.0
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	3.0/0.0
Fluid flow rate	m ³ /h	8.77
Circuit pressure drops	kPa	10.3

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	55.0/62.0
Fluid flow rate	m ³ /h	5.74
Circuit pressure drops	kPa	3.10

HEATING²

Performance data		
Heating capacity	kW	93.8
Total input power	kW	13.7
Compressor input power	kW	13.4
Input current	A	26.6
Source capacity	kW	80.0
COP	W/W	6.84
Source		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	27.0/22.0
Fluid flow rate	m ³ /h	13.9
Circuit pressure drops	kPa	16.7

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	30.0/40.0
Fluid flow rate	m ³ /h	8.11
Circuit pressure drops	kPa	6.30

HEATING³

Performance data		
Heating capacity	kW	53.1
Total input power	kW	18.2
Compressor input power	kW	18.1
Input current	A	32.4
Source capacity	kW	34.9
COP	W/W	2.91
Source		
Fluid type		Eth.Glycol
Concentration	%	30.0
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	9.0/5.0
Fluid flow rate	m ³ /h	8.35
Circuit pressure drops	kPa	9.5

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	50.0/60.0
Fluid flow rate	m ³ /h	7.72
Circuit pressure drops	kPa	5.30

HEATING⁴

Performance data		
Heating capacity	kW	59.8
Total input power	kW	20.1
Compressor input power	kW	20.0
Input current	A	35.0
Source capacity	kW	39.7
COP	W/W	2.97
Source		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	15.0/10.0
Fluid flow rate	m ³ /h	6.83
Circuit pressure drops	kPa	5.1

User		
Fluid type		Water
Fouling fact.	m ² K/kW	0.000
In/out fluid temperature	°C	58.0/65.0
Fluid flow rate	m ³ /h	7.45
Circuit pressure drops	kPa	4.90

DESIGN AND SIZING DATA

GENERAL DATA		
Compressor type		Scroll
Number of compressors		2
Number of circuits		1
Capacity steps		2
Minimum capacity step	%	50.0
Refrigerant type		R290
Refrigerant charge	Kg	3

DIMENSIONS PRELIMINARY		
Length	mm	1360
Width	mm	710
Height	mm	1000
Shipping weight	kg	660
Operating weight	kg	655

ELECTRICAL DATA		
Nominal voltage supply	Ph/V/Hz	3/400/50
Maximum voltage supply	V	440
Minimum voltage supply	V	360
Maximum input power	kW	25
Maximum input current	A	50
Maximum peak current	A	170

Sound data		
Calculated sound power	db(A)	80
Sound pressure ^(C0) [10.0 m]	db(A)	48

(A0) Technical data shown are not binding. The Company shall have the right to introduce at any time whatever modifications necessary to the improvement of the product.

(A2) According to standard: EN 14511-2022

(B2) Calculated according to Commission Regulation (EU) 2013/813: Average/Brine/Low temperature/Variable outlet/Constant user flow rate/Constant source flow rate

(C0) Noise pressure is calculated according to the following sound propagation method: Hemispherical ISO EN 3744 source

Please be informed that the sound level is referred to the basic unit without those options which could increase the sound level value.

The water flow rate through the unit's heat exchanger must not fall below a value that causes a DT of 8°C measured under the following conditions:

Model: PWE N 621 Kp

Code	Description	Q.ty
PWE N 621 Kp	WATER TO WATER HEAT PUMP WITH INVERSION ON HYDRAULIC CIRCUIT AND SCROLL COMPRESSORS - REFRIGERANT R290	1
Kp - R290	Refrigerant	1
AFL	Atex fan supplied loose	1
ATOP	Atex fan on the top	1
TE	Electronic thermostatic valve	1
CI	Sound jackets on compressors	1
FL	Mechanical flow switch	1
MT	High/low pressure manometers	1
DR	Refrigerant leak detector	1