

Model: PAE 881 Kp

Option: -

COOLING

Performance data		
Cooling capacity	kW	63.3
Total input power	kW	26.0
Compressor input power	kW	24.2
Input current	A	50.2
EER	W/W	2.43
Source		
Altitude	m	0.0
Dry bulb outdoor air	°C	35.0
Outdoor air Relative humidity	%	41.0
Air flow rate	m³/h	33679
Fan input power	kW	1.66
Fan input current	A	3.14
Fans available static pressure	Pa	0

User		
Fluid type		Ethylene glycol
(concentration)	%	20.0%
Fouling fact.	m²K/kW	0.000
In/out fluid temperature	°C	12.0/6.0
Fluid flow rate	m³/h	9.664
Circuit pressure drops	kPa	26.1
Pump available static pressure	kPa	84.7
Max pump available static pressure	kPa	84.7

HEATING

Performance data		
Heating capacity	kW	55.8
Total input power	kW	28.4
Compressor input power	kW	24.8
Input current	A	53.8
COP	W/W	1.96
SCOP $LT^{(B2)}/MT^{(B3)}$	W/W	3.87/-
$\eta_{s,h} LT^{(B2)}/MT^{(B3)}$	%	152/-
Source		
Altitude	m	0.0
Dry bulb outdoor air	°C	-5.0
Outdoor air Relative humidity	%	99.9
Air flow rate	m³/h	42707
Fan input power	kW	3.59
Fan input current	A	6.10
Fans available static pressure	Pa	0

User		
Fluid type		Ethylene glycol
(concentration)	%	20.0%
Fouling fact.	m²K/kW	0.000
In/out fluid temperature	°C	50.0/54.9
Fluid flow rate	m³/h	10.45
Circuit pressure drops	kPa	23.2
Pump available static pressure	kPa	84.9
Max pump available static pressure	kPa	84.9

DESIGN AND SIZING DATA

GENERAL DATA		
Compressor type		Scroll
Number of compressors		2
Number of circuits		1
Capacity steps		2
Compressors Controls ^(D2)		OO/OO
Minimum capacity step	%	50.0
Refrigerant type		R290
GWP		3.3
Total refrigerant charge	kg	6.50
CO2 equivalent charge	kg	21.4

DIMENSIONS		
Length	mm	2560
Width	mm	1100
Height	mm	2450
Shipping weight	kg	835
Operating weight	kg	840

FANS		
Fan type		Axial
Fan motor		EC
Number of fans		2
Maximum input power	kW	5.70
Maximum input current	A	9.40

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	44.1
Maximum input current	A	79.3
Maximum peak current	A	231
Input power in stand-by mode	kW	0.100
Power factor		0.80

Sound data		
Calculated sound power	db(A)	86
Sound pressure ^(C0) [10.0 m]	db(A)	55

SOUND DATA FOR EACH OCTAVE	Hz	63	125	250	500	1000	2000	4000	8000
Unit global sound power	dB(A)	60	69	74	81	83	79	72	62

HYDRAULIC CIRCUITS

USER HYDRAULIC CIRCUIT		
Maximum input power	kW	0.91
Maximum input current	A	1.77

(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.

(A1) Dimensional data shown are not binding.

(A2) According to standard: EN 14511-2022

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

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

(D2) OO=On/Off; INV= Inverter; STL= Steplless; ST=Step; D=Digital; RPM=Rpm controlled; IGV=Inlet guide vanes; RPMST=Rpm controlled+Step

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:

HEATING: 7°C Dry bulb outside air temperature; 35°C Water outlet temperature.