Technical Product Submittal - HTHP290-50

Model Number:	HTHP290-50		
HEATING	'		
(1) Input Power (kW)	11.9		
(1) Heating Capacity (kW)	50.0		
(2) Input Power (kW)	16.5		
(2) Heating Capacity (kW)	47.9		
(3) Input Power (kW)	18.8		
(3) Heating Capacity (kW)	45.8		
(1) C.O.P. (W/W)	4.20		
(2) C.O.P. (W/W)	2.90		
(3) C.O.P. (W/W)	2.44		
(2) Water Flow Rate (L/s)	1.43		
(2) Nominal Useful Head (kPa)	144		
ERP Efficiency Class (Water @ 35°C/55°C)	A++/A++		
COMPRESSOR			
Compressor Type	Scroll DC Inverter		
Number of Compressors	2		
REFRIGERANT	,		
Refrigerant Type	R290		
FANS			
Fan Type	EC		
Number of Fans	1		
INTERNAL HEAT EXCHANGER			
Type of Heat Exchanger	Plate		
Number of Heat Exchangers	1		
Water Content (L)	3.48		
HYDRAULIC CIRCUIT	,		
Water Content of Hydraulic Circuit (L)	5.2		
Maximum pressure hydronic kit - safety valve setting (bar)	6		
Min. Water Volume (L)	415		
Max Pump Power Input (kW)	1.04		
ELECTRICAL DATA			
Power Supply (V)	400V/3P+N+T/50Hz		
Max. Input Power (kW)	27		
Max. Input Power w/Antifreeze Kit (kW)	27		
NOISE LEVEL	·		
Sound Power Level Lw (dB)	83		
ound Pressure Level @ 10m (dB) 51			
WEIGHT	·		
Operating Weight (kg)	557		

Performance referring to the following conditions, according to standard 14511:2022:

- 1. (1) Heating: outdoor air temperature 7° C DB/6°C WB*; in/out water temp $30/35^{\circ}$ C.
 - (2) Heating: outdoor air temperature 7°C DB/6°C WB*; in/out water temp 47/55°C.
 - (3) Heating: outdoor air temperature 7°C DB/6°C WB*; in/out water temp 55/65°C.
- 2. Sound power level: heating mode condition (1); value calculated based on measurements made in accordance with standard UNI EN ISO 9614- 2, compliant with the requirements of the Eurovent certification.
- $3. \, \text{Sound pressure level: value calculated from the sound power level using ISO 3744:2010}.$
- $^{\star}\mathrm{DB}$ & WB represent dry-bulb and wet-bulb air temperatures respectively





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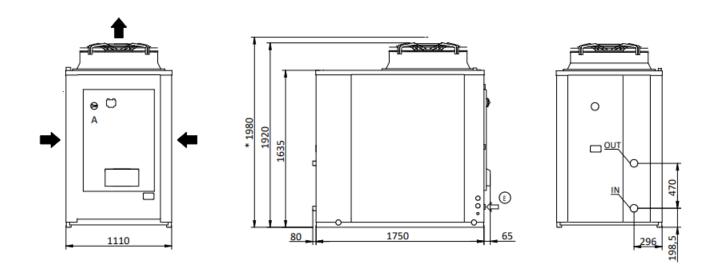
Seasonal Performance at Different Temperature Levels

Model	SCOP (LT)	SCOP (MT)	SCOP (HT)
HTHP290-50	4.20	3.34	2.87

LT: Heating in medium climate conditions, Tbiv = -7 °C, low temperature (35 °C,), variable output, fixed flow rate.

MT: Heating in medium climate conditions, Tbiv = -7 °C, medium temperature (55 °C,), variable output, fixed flow rate.

HT: Heating in medium climate conditions, Tbiv = -7 °C, high temperature (65 °C,), variable output, fixed flow rate.

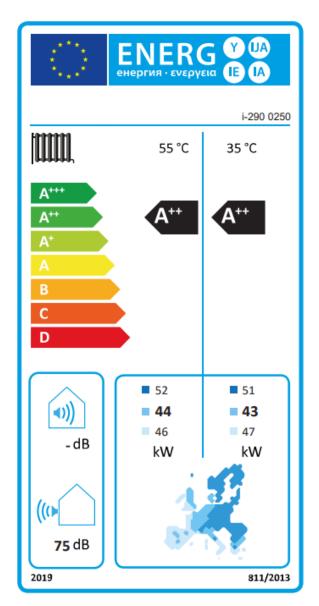


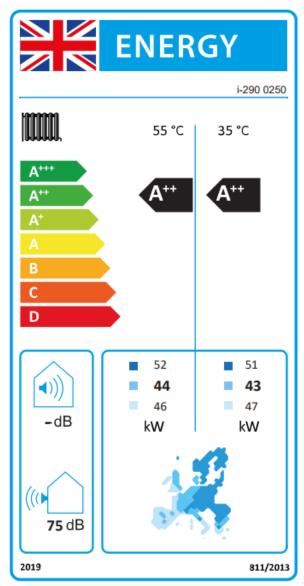
Dimensions			
A - Lenght	mm	1895	
B - Depth	mm	1110	
C - Height	mm	1920	
C - Height -SSL version	mm	1980	
IN / OUT	inch	1" 1/2 Grooved	
E	-	Power supply input	





Data label and Product Fiche - HTHP290-50





Product Fiche	Unit	
Supplier's Name	Rinnai UK	
Supplier's Model	HTHP290-50	
ERP Efficiency Class	A++/A++	
COP ₁	4.20	W/W
COP ₂	2.90	W/W
COP ₃	2.44	W/W
SCOP ₁	4.20	W/W
Heating Input₁	11.9	kW
Heating Input ₂	16.5	kW
Heating Input₃	18.8	kW
Temperature Setting*	78	°C
Refrigerant Type	R290	
Indoor Sound Power Level (LWA)	82	dB
Sound Pressure Level @ 10m (dB)	51	dB



