



CLADE

ACER RANGE

**LOW NOISE CO2 HEAT PUMP
for HEATING AND HOT WATER**

APRIL 2025 //

April 2025 //



ACER RANGE //

The Acer, our flagship low-noise, natural refrigerant heat pump. Its modern design, whisper-quiet operation and low space take, making it the perfect heat source for retrofit or new build applications including schools, apartment complexes, and libraries.



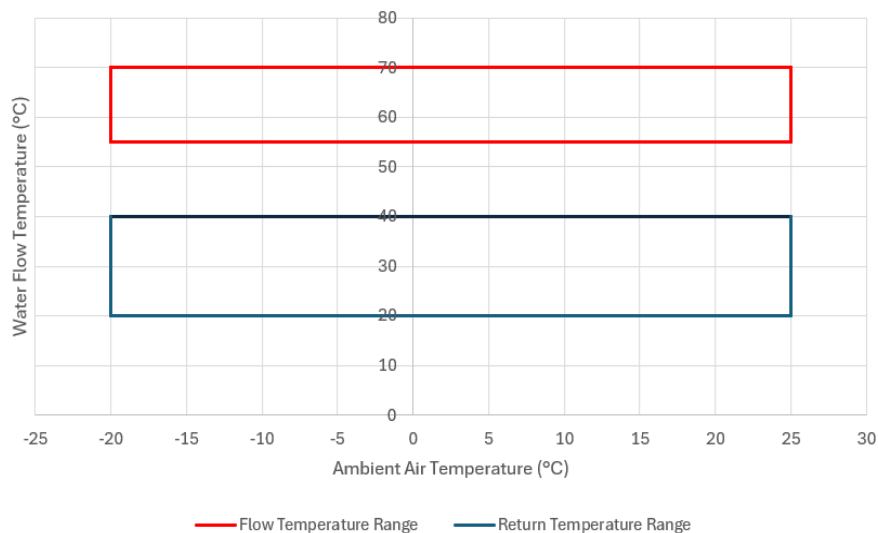
Model	-5°C capacity	+7°C capacity
Acer 65/50	50KW	65KW
Acer 95/75	75KW	95KW
Acer 130/100	100KW	130KW

- Future proof refrigerant which is non toxic and non flammable
- GWP =1
- ODP = 0
- Low and standard noise models
- Up to 70°C flow temperature
- Up to 40 °C return temperature
- Coated coil option
- Can be multiplexed using Clade Multi Controller
- Built in BMS interface
- Leak detection and vent fan included
- Inverter controlled
- Manufactured in the UK
- Full UK based technical support



CO₂ REFRIGERANT //

ACER REFRIGERANT OPERATING ENVELOPE



As a refrigerant CO₂ is excellent with unique thermodynamic properties which are fantastic for heat pumps.

CO₂ produces high temperatures efficiently whilst also being

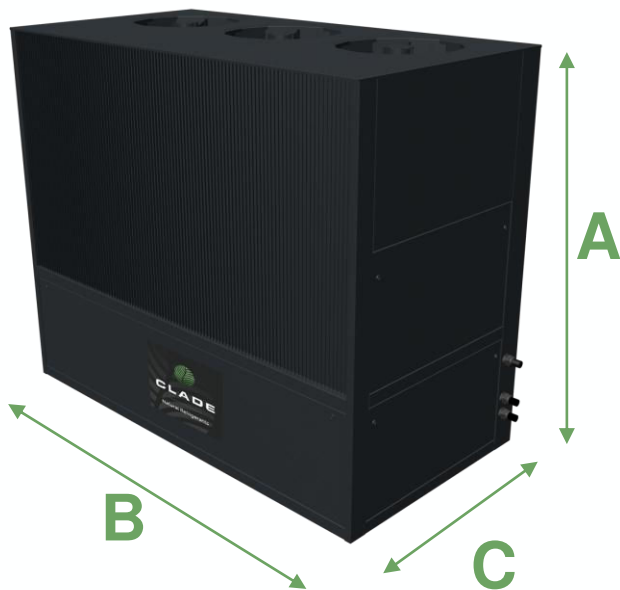
- Non flammable
- GWP of 1
- Non toxic & non PFAS
- High COP at high output temperatures

In order to delivery these benefits CO₂ requires a low return temperature from the heating system. This is a result of the unique thermodynamic properties of the refrigerant.

The heating system must be designed, installed and commissioned for a wide delta T. Design return temperatures should be 30°C which allows for operational variation up to 40°C whilst aiming for highest efficiency.



DIMENSIONAL INFORMATION //



Unit	Height 'A' (mm)	Width 'B' (mm)	Depth 'C' (mm)	Operating Weight (kg)
Acer 65/50kW LN	2395	1959	1159	1008
Acer 65/50kW SN	1907	1959	1159	943
Acer 95/75kW LN	2395	2815	1156	1375
Acer 95/75kW SN	1907	2815	1156	1270
Acer 130/100kW LN	2396	2815	1451	1605
Acer 130/100kW SN	1907	2815	1450	1302

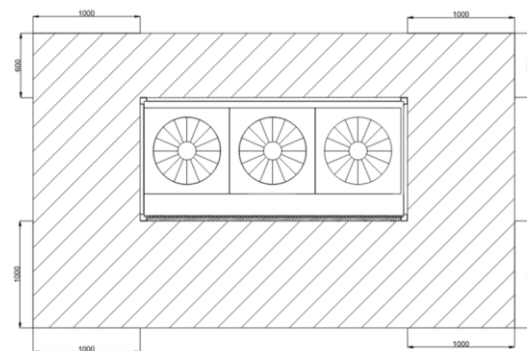


TECHNICAL DETAIL SUMMARY //

ACER RANGE //

		ACER 65/50	ACER 95/75	ACER 130/100
REFRIGERATION SIDE				
Compressor Type	-	Reciprocating		
Compressor Qty	Pcs.	1		
Refrigerant	-	CO ₂	CO ₂	CO ₂
Refrigerant Circuits	Pcs	1		
Variable speed drive (VSD)	Pcs.	1	1	1
Refrigerant charge (CO ₂)	kg	5	7	10
No. evaporators	Pcs.	1		
Evaporators Type	-	Flat bed		
Fin Material	-	AL/MG		
Defrost Type	-	Hot Gas CO ₂		
Defrost medium	-	CO ₂		
Defrost design/condition	-	> +6c ambient Off Cycle / < +6c ambient Cool Gas		
Electrical supply	-	3~ 400V 50 HZ		
WATER SIDE				
Type of internal exchanger	-	Stainless steel plate heat exchanger		
Exchanger Water content	l	3.9	3.9	5
Connections waterside Flow/Return	DN	28mm Copper	35mm Copper	42mm Copper
Connections waterside Pressure Rating	PN	6		
Waterside Burst Disk (supplied by installer)	PN	6		
Control Methodology	-	Pump		
Water flow rates				
Nominal dT 40 K	l/s	0.37	0.55	0.73
Nominal dT 35 K	l/s	0.43	0.63	0.84
Nominal dT 30 K	l/s	0.42	0.73	0.98
Minimum Water Flow Rate	l/s	0.12	0.18	0.23
Minimum water volume in heating	l	303	443	606
Total internal water volume	l	4.3	6.3	8.4

		ACER 65/50	ACER 95/75	ACER 130/100
FANS SECTION				
Fans type	-	Axial fans		
N° fans	Pcs.	2	3	3
Standard air-flow	m ³ /h	17,640	26,280	31,320
Additional Static Pressure Available	Pa	0	0	0
Fan regulation	-	0-10V		
Fan Power Input	kW	1.4	2	2.7
ELECTRICAL DATA				
Total Absorbed Power (at 7°C ambient)	kW	25.3	32.3	51.1
Total Current per phase	A	46.1	69.2	93.2
Starting Method	-	Soft Start		
Starting Current (at -5°C ambient)	A	22	32.5	43.5
Total kVA	kVA	32	48	64.5
Electrical supply	-	3~ 400V 50 HZ		
Communication protocol	-	BACNET over IP (optional extra)		
IP-Class	-	IP54		
CLEARANCES				





CONTROL OPTIONS //

Capped Capacity Control

There are two options for output capacity available from the Clade controls.

1. Efficiency mode: Capped at -5°C – the unit will only deliver heat up to the -5°C ambient rated output.
2. Power mode: Capped at +7°C – the unit will deliver heat up to the maximum rating at +7°C ambient temperature.

See capacity tables for details

Low noise models

Clade use proprietary technology to reduce noise levels to market leading levels.

We have had our heat pumps tested and certified in real environments by industry recognised experts which means you can be 100% confident in meeting your planning requirements.

Data is given in accordance with BS EN ISO 4871: 2009 and Measured in Accordance with BS EN ISO 9614 - Part 1: 2009

Acer Range	Acer 65 / 50		Acer 95 / 75		Acer 130 / 100	
	Standard	Low Noise	Standard	Low Noise	Standard	Low Noise
Sound Power Level, $L_{W(A)}$ (dB)	82	72	83	74	85	76
Sound Pressure Level at 10m (dB)	50	44	51	45	53	46
Uncertainty (dB)	4	4	4	4	4	4



HEAT PUMP PERFORMANCE ACER 65/50 POWER MODE //

ACER RANGE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.5	40.8	20.6	2	45.5	21.2	2.1	50.5	21.6	2.3	55.7	21.9	2.5	57.8	22	2.6	57.8	19.6	3	57.8	17.9	3.2
65/35	2.5	40.8	20.6	2	45.5	21.2	2.1	50.5	21.6	2.3	55.7	21.9	2.5	57.8	22	2.6	57.8	19.6	3	57.8	17.9	3.2
60/35	2.5	40.8	20.6	2	45.5	21.2	2.1	50.5	21.6	2.3	55.7	21.9	2.5	57.8	22	2.6	57.8	19.6	3	57.8	17.9	3.2
70/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	53.6	21.1	2.5	59.3	21.5	2.8	61.6	21.6	2.8	61.6	20.5	3	61.6	18.7	3.3
65/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	53.6	21.1	2.5	59.3	21.5	2.8	61.6	21.6	2.8	61.6	20.5	3	61.6	18.7	3.3
60/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	53.6	21.1	2.5	59.3	21.5	2.8	61.6	21.6	2.8	61.6	20.5	3	61.6	18.7	3.3
55/35	2.5	40.8	20.6	2	45.5	21.2	2.1	50.5	21.6	2.3	55.7	21.9	2.5	57.8	22	2.6	57.8	19.6	3	57.8	17.9	3.2
55/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	53.6	21.1	2.5	59.3	21.5	2.8	61.6	21.6	2.8	61.6	20.5	3	61.6	18.7	3.3
70/40	2.2	38.2	21.7	1.8	42.6	22.3	1.9	47.2	22.7	2.1	52.1	23	2.3	54.1	23.1	2.3	54.1	19.2	2.8	54.1	17.5	3.1
65/40	2.2	38.2	21.7	1.8	42.6	22.3	1.9	47.2	22.7	2.1	52.1	23	2.3	54.1	23.1	2.3	54.1	19.2	2.8	54.1	17.5	3.1
60/40	2.2	38.2	21.7	1.8	42.6	22.3	1.9	47.2	22.7	2.1	52.1	23	2.3	54.1	23.1	2.3	54.1	19.2	2.8	54.1	17.5	3.1



HEAT PUMP PERFORMANCE ACER 65/50 EFFICIENCY MODE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.6	40.8	20.6	2.0	45.5	21.2	2.1	45.5	18.4	2.5	45.5	16.8	2.7	45.5	16.2	2.8	45.5	15.3	3.0	45.5	13.9	3.3
65/35	2.6	40.8	20.6	2.0	45.5	21.2	2.1	45.5	18.4	2.5	45.5	16.8	2.7	45.5	16.2	2.8	45.5	15.3	3.0	45.5	13.9	3.3
60/35	2.6	40.8	20.6	2.0	45.5	21.2	2.1	45.5	18.4	2.5	45.5	16.8	2.7	45.5	16.2	2.8	45.5	15.3	3.0	45.5	13.9	3.3
70/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	48.2	18.9	2.6	48.2	17.2	2.8	48.2	16.6	2.9	48.2	15.7	3.1	48.2	14.2	3.4
65/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	48.2	18.9	2.6	48.2	17.2	2.8	48.2	16.6	2.9	48.2	15.7	3.1	48.2	14.2	3.4
60/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	48.2	18.9	2.6	48.2	17.2	2.8	48.2	16.6	2.9	48.2	15.7	3.1	48.2	14.2	3.4
55/35	2.6	40.8	20.6	2.0	45.5	21.2	2.1	45.5	18.4	2.5	45.5	16.8	2.7	45.5	16.2	2.8	45.5	15.3	3.0	45.5	13.9	3.3
55/30	2.7	43.1	19.9	2.2	48.2	20.6	2.3	48.2	18.9	2.6	48.2	17.2	2.8	48.2	16.6	2.9	48.2	15.7	3.1	48.2	14.2	3.4
70/40	2.4	38.2	21.7	1.8	42.6	22.3	1.9	42.6	18.0	2.4	42.6	16.5	2.6	42.6	15.9	2.7	42.6	15.1	2.8	42.6	13.7	3.1
65/40	2.4	38.2	21.7	1.8	42.6	22.3	1.9	42.6	18.0	2.4	42.6	16.5	2.6	42.6	15.9	2.7	42.6	15.1	2.8	42.6	13.7	3.1
60/40	2.4	38.2	21.7	1.8	42.6	22.3	1.9	42.6	18.0	2.4	42.6	16.5	2.6	42.6	15.9	2.7	42.6	15.1	2.8	42.6	13.7	3.1



HEAT PUMP PERFORMANCE ACER 95/75 POWER MODE //

ACER RANGE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.4	61.1	30.9	2.0	68.1	31.8	2.1	75.6	32.6	2.3	83.4	33.1	2.5	86.7	33.2	2.6	86.7	29.7	2.9	86.7	27.2	3.2
65/35	2.4	61.1	30.9	2.0	68.1	31.8	2.1	75.6	32.6	2.3	83.4	33.1	2.5	86.7	33.2	2.6	86.7	29.7	2.9	86.7	27.2	3.2
60/35	2.4	61.1	30.9	2.0	68.1	31.8	2.1	75.6	32.6	2.3	83.4	33.1	2.5	86.7	33.2	2.6	86.7	29.7	2.9	86.7	27.2	3.2
70/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	80.5	31.9	2.5	88.8	32.4	2.7	92.2	32.6	2.8	92.2	31.0	3.0	92.2	28.4	3.2
65/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	80.5	31.9	2.5	88.8	32.4	2.7	92.2	32.6	2.8	92.2	31.0	3.0	92.2	28.4	3.2
60/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	80.5	31.9	2.5	88.8	32.4	2.7	92.2	32.6	2.8	92.2	31.0	3.0	92.2	28.4	3.2
55/35	2.4	61.1	30.9	2.0	68.1	31.8	2.1	75.6	32.6	2.3	83.4	33.1	2.5	86.7	33.2	2.6	86.7	29.7	2.9	86.7	27.2	3.2
55/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	80.5	31.9	2.5	88.8	32.4	2.7	92.2	32.6	2.8	92.2	31.0	3.0	92.2	28.4	3.2
70/40	2.2	57.2	32.4	1.8	63.7	33.4	1.9	70.8	34.2	2.1	78.1	34.8	2.2	81.1	34.9	2.3	81.1	29.2	2.8	81.1	26.7	3.0
65/40	2.2	57.2	32.4	1.8	63.7	33.4	1.9	70.8	34.2	2.1	78.1	34.8	2.2	81.1	34.9	2.3	81.1	29.2	2.8	81.1	26.7	3.0
60/40	2.2	57.2	32.4	1.8	63.7	33.4	1.9	70.8	34.2	2.1	78.1	34.8	2.2	81.1	34.9	2.3	81.1	29.2	2.8	81.1	26.7	3.0



HEAT PUMP PERFORMANCE ACER 95/75 EFFICIENCY MODE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.6	61.1	30.9	2.0	68.1	31.8	2.1	68.1	27.6	2.5	68.1	25.4	2.7	68.1	24.5	2.8	68.1	23.3	2.9	68.1	21.2	3.2
65/35	2.6	61.1	30.9	2.0	68.1	31.8	2.1	68.1	27.6	2.5	68.1	25.4	2.7	68.1	24.5	2.8	68.1	23.3	2.9	68.1	21.2	3.2
60/35	2.6	61.1	30.9	2.0	68.1	31.8	2.1	68.1	27.6	2.5	68.1	25.4	2.7	68.1	24.5	2.8	68.1	23.3	2.9	68.1	21.2	3.2
70/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	72.4	28.8	2.5	72.4	26.5	2.7	72.4	25.6	2.8	72.4	24.3	3.0	72.4	22.2	3.3
65/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	72.4	28.8	2.5	72.4	26.5	2.7	72.4	25.6	2.8	72.4	24.3	3.0	72.4	22.2	3.3
60/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	72.4	28.8	2.5	72.4	26.5	2.7	72.4	25.6	2.8	72.4	24.3	3.0	72.4	22.2	3.3
55/35	2.6	61.1	30.9	2.0	68.1	31.8	2.1	68.1	27.6	2.5	68.1	25.4	2.7	68.1	24.5	2.8	68.1	23.3	2.9	68.1	21.2	3.2
55/30	2.6	65.0	30.3	2.1	72.4	31.2	2.3	72.4	28.8	2.5	72.4	26.5	2.7	72.4	25.6	2.8	72.4	24.3	3.0	72.4	22.2	3.3
70/40	2.4	57.2	32.4	1.8	63.7	33.4	1.9	63.7	27.2	2.3	63.7	24.9	2.6	63.7	24.1	2.6	63.7	22.8	2.8	63.7	20.8	3.1
65/40	2.4	57.2	32.4	1.8	63.7	33.4	1.9	63.7	27.2	2.3	63.7	24.9	2.6	63.7	24.1	2.6	63.7	22.8	2.8	63.7	20.8	3.1
60/40	2.4	57.2	32.4	1.8	63.7	33.4	1.9	63.7	27.2	2.3	63.7	24.9	2.6	63.7	24.1	2.6	63.7	22.8	2.8	63.7	20.8	3.1



HEAT PUMP PERFORMANCE ACER 130/100 POWER MODE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.4	79.1	39.4	2	89.1	41.1	2.2	99.8	42.7	2.3	110.9	44.2	2.5	115.5	44.7	2.6	115.5	40.4	2.9	115.5	37.6	3.1
65/35	2.4	79.1	39.4	2	89.1	41.1	2.2	99.8	42.7	2.3	110.9	44.2	2.5	115.5	44.7	2.6	115.5	40.4	2.9	115.5	37.6	3.1
60/35	2.4	79.1	39.4	2	89.1	41.1	2.2	99.8	42.7	2.3	110.9	44.2	2.5	115.5	44.7	2.6	115.5	40.4	2.9	115.5	37.6	3.1
70/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	106.2	41.9	2.5	118	43.3	2.7	122.9	43.8	2.8	122.9	42	2.9	122.9	39.2	3.1
65/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	106.2	41.9	2.5	118	43.3	2.7	122.9	43.8	2.8	122.9	42	2.9	122.9	39.2	3.1
60/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	106.2	41.9	2.5	118	43.3	2.7	122.9	43.8	2.8	122.9	42	2.9	122.9	39.2	3.1
55/35	2.4	79.1	39.4	2	89.1	41.1	2.2	99.8	42.7	2.3	110.9	44.2	2.5	115.5	44.7	2.6	115.5	40.4	2.9	115.5	37.6	3.1
55/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	106.2	41.9	2.5	118	43.3	2.7	122.9	43.8	2.8	122.9	42	2.9	122.9	39.2	3.1
70/40	2.2	74	41.3	1.8	83.4	43.2	1.9	93.4	44.9	2.1	103.9	46.4	2.2	108.2	46.9	2.3	108.2	39.8	2.7	108.2	37	2.9
65/40	2.2	74	41.3	1.8	83.4	43.2	1.9	93.4	44.9	2.1	103.9	46.4	2.2	108.2	46.9	2.3	108.2	39.8	2.7	108.2	37	2.9
60/40	2.2	74	41.3	1.8	83.4	43.2	1.9	93.4	44.9	2.1	103.9	46.4	2.2	108.2	46.9	2.3	108.2	39.8	2.7	108.2	37	2.9



HEAT PUMP PERFORMANCE ACER 130/100 POWER MODE //

Water Temp (°C)	SCOP	-10°C External			-5°C External			0°C External			5°C External			7°C External			10°C External			15°C External		
		QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP	QH (kW)	PI (kW)	COP
70/35	2.5	79.1	39.4	2	89.1	41.1	2.2	89.1	36.1	2.5	89.1	33.7	2.6	89.1	32.7	2.7	89.1	31.3	2.8	89.1	29	3.1
65/35	2.5	79.1	39.4	2	89.1	41.1	2.2	89.1	36.1	2.5	89.1	33.7	2.6	89.1	32.7	2.7	89.1	31.3	2.8	89.1	29	3.1
60/35	2.5	79.1	39.4	2	89.1	41.1	2.2	89.1	36.1	2.5	89.1	33.7	2.6	89.1	32.7	2.7	89.1	31.3	2.8	89.1	29	3.1
70/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	94.8	37.6	2.5	94.8	35	2.7	94.8	34	2.8	94.8	32.6	2.9	94.8	30.2	3.1
65/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	94.8	37.6	2.5	94.8	35	2.7	94.8	34	2.8	94.8	32.6	2.9	94.8	30.2	3.1
60/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	94.8	37.6	2.5	94.8	35	2.7	94.8	34	2.8	94.8	32.6	2.9	94.8	30.2	3.1
55/35	2.5	79.1	39.4	2	89.1	41.1	2.2	89.1	36.1	2.5	89.1	33.7	2.6	89.1	32.7	2.7	89.1	31.3	2.8	89.1	29	3.1
55/30	2.6	84.1	38.6	2.2	94.8	40.3	2.4	94.8	37.6	2.5	94.8	35	2.7	94.8	34	2.8	94.8	32.6	2.9	94.8	30.2	3.1
70/40	2.4	74	41.3	1.8	83.4	43.2	1.9	83.4	35.6	2.3	83.4	33.1	2.5	83.4	32.2	2.6	83.4	30.8	2.7	83.4	28.5	2.9
65/40	2.4	74	41.3	1.8	83.4	43.2	1.9	83.4	35.6	2.3	83.4	33.1	2.5	83.4	32.2	2.6	83.4	30.8	2.7	83.4	28.5	2.9
60/40	2.4	74	41.3	1.8	83.4	43.2	1.9	83.4	35.6	2.3	83.4	33.1	2.5	83.4	32.2	2.6	83.4	30.8	2.7	83.4	28.5	2.9



ABOUT THIS INFORMATION //

Performance may vary based on climate conditions, installation quality, and specific usage patterns. Actual energy savings may differ from estimates.

Professional installation is required to ensure optimal performance and compliance with local building codes. Improper installation will void the warranty.

Regular maintenance is necessary to maintain efficiency and performance. Failure to perform recommended maintenance may reduce system lifespan and efficiency.

Efficiency ratings (COP) are based on standard testing conditions and control patterns. Actual efficiency may vary depending on operational conditions and geographic location. COP are instantaneous figures not averaged over any period of time which may include defrost and other system variables.

Heat pumps are designed for specific use. Using the product for unintended purposes may result in suboptimal performance or damage.

Noise levels produced by the heat pump may vary based on the installation environment and operating conditions. Sound pressure figures are for free field without the specifics of the site application.

Please refer to the user manual and installation guide for detailed information on operation, maintenance, and safety instructions.

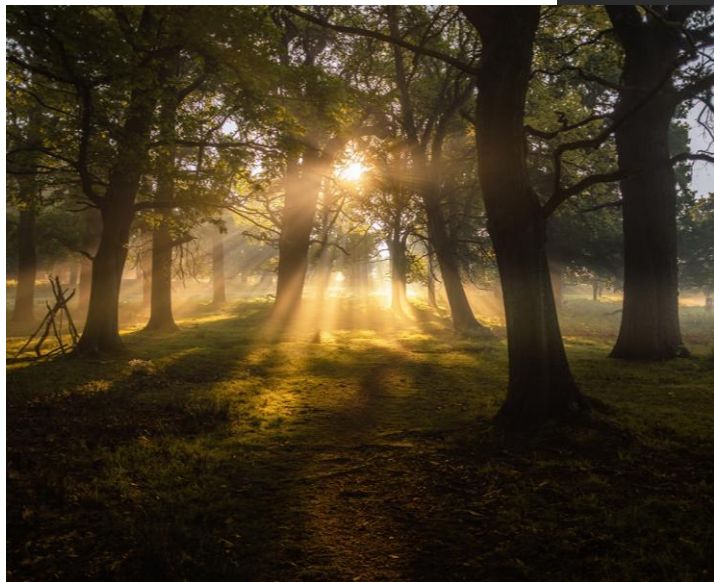
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