



Heat pump Manufacturer	Samsung
Heat pump Model number	AE120CXYDEK/EU
Heat pump type	Monobloc
Heat pump model name	Samsung R290 12kW 1PH

Capacity information:

Ext temp V	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
-10°C	11.57	11.12	11.05	11.98	11.97	10.95	10.91	10.87	10.66
-7°C	11.72	11.45	11.24	11.22	11.2	11.18	11.14	11.1	10.9
-2°C	12.03	11.9	11.82	11.78	11.66	11.55	11.4	11.25	11.03
2°C	12.23	11.9	11.9	11.9	11.9	11.9	11.7	11.48	11.35
7°C	12.89	12	12	12	12	12	12	12	12

Further information:

Dimensions	
Height	1018mm
Width	1270mm
Depth	530mm
Weight (Net)	140kg

Efficiency		
MCS Listed SCOP @	35°C flow	4.73
	40°C flow	4.42
	45°C flow	4.12
	50°C flow	3.82
	55°C flow	3.51
	60°C flow	3.17
	65°C flow	2.84

MCS Certificate number(s)	
011-1W0685_1	MIM-E03EN
011-1W0685_3	200L climate hub
011-1W0684_3	260L climate hub

Hydronics	
Minimum water content of system	50 Litres
Nominal flow-rate	34.6 l/min
Pressure drop after heat exchanger	8 kPa
Connection size	BSPP 1" Male
Typical primary pipework size*	28mm
Integral expansion vessel capacity	N/A

Max sound power level	60dB(A)
-----------------------	---------

Flow temperature	PCDB index number
35°C	PENDING
45°C	PENDING
55°C	PENDING

Coastal location restriction
Requires treatment if installed within 500m of coast

Refrigerant	
Type	R290
Quantity	1.25kg

ENA Info	
Connect and notify/apply to connect	Connect & notify
ENA database reference	HP_0928

Electrical	
Breaker needed	35A Type B RCBO
Min isolator rating	35A

Acceptable antifreeze arrangement	
Glycol	

Warranty	
2 years standard - 7 years if trained by Samsung	

*subject to full hydronic design