


Performance Data Sheet according to EU regulation 2015/1095

Model:	CPCU1SE-017-LT	Refrigerant:	R407A
Item	Symbol*	Value	Unit
Evaporating temperature	t	-35	°C
Annual electricity consumption	Q	15535	kWh/a
Seasonal energy performance ratio	SEPR	1.65	-
Point A: Parameters at full load and ambient temperature 32 °C			
Rated cooling capacity	P _A	3.44	kW
Rated power input	D _A	3.48	kW
Rated COP	COP _A	0.99	-
Point B: Parameters at part load and ambient temperature 25 °C			
Declared cooling capacity	P _B	3.70	kW
Declared power input	D _B	3.01	kW
Declared COP	COP _B	1.23	-
Point C: Parameters at part load and ambient temperature 15 °C			
Declared cooling capacity	P _C	4.05	kW
Declared power input	D _C	2.44	kW
Declared COP	COP _C	1.66	-
Point D: Parameters at part load and ambient temperature 5 °C			
Declared cooling capacity	P _D	4.37	kW
Declared power input	D _D	1.97	kW
Declared COP	COP _D	2.22	-
Other Items			
Capacity control	Fixed		
Degradation coefficient**	Cdc	0.25	-
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*Units taken from english version of COMMISSION REGULATION (EU) 2015/1095

**Cdc value applied as EN 13215:2016 ANNEX A

Unit Name	CPCUISE-017-LT	
Refrigerant	R407A	
<u>Section 1</u>		
Variable capacity compressor	ZBD29KCE-TFD	Qty 0
Fixed capacity compressor 1	ZB29KCE-TFD	0
Fixed capacity compressor 2	ZB45KCE-TFD	0
Design Ambient	32°C	
SST	-10°C	
Suction Return	20°C	
Useful Superheat	30K	
Subcooling	0K	
% load at 5C	80%	
<u>Section 2</u>		
Variable capacity compressor	ZFD41K5E-TFD	Qty 0
Fixed capacity compressor 1	ZF18K4E-TFD	1
Fixed capacity compressor 2	ZF34K5E-TFD	0
Design Ambient	32°C	
SST	-35°C	
Suction Return	20°C	
Useful Superheat	55K	
Subcooling	0K	
% load at 5C	80%	
Condenser		
TD to mid point for given rejection (K)	10	BR
Rated heat rejection (kW)	8.8	0.88
Fan input (const)	0.32	
Design Calculations		
<u>Section</u>	<u>1</u>	<u>2</u>
Design Ambient	32°C	32°C
SST	0°C	-32°C
Suction Return	0°C	-2°C
Useful Superheat	0K	10K
Subcooling	0K	0K
Condensing		38.15
Duty		3.48
Compressor power input		3.23
Total power input		
Compressor Current		5.94

SEPR	#DIV/0!	Section 1 -10°C				SEPR	1.65	Section 2 -35°C			
Ambient	A	B	C	D	Ambient	A	B	C	D		
Refrigeration Load	32	25	15	5	Refrigeration Load	3.44	3.26	3.00	2.75		
Condense (Dew) °C					Condense (Dew) °C	38.1	31.1	21.1	11.1		
					ZF18K4E-TFD	1	1	1	1		
Duty kW					Duty kW	3.44	3.70	4.05	4.37		
Input kW					Input kW	3.16	2.69	2.12	1.65		
Fan power (allocation)					Fan power (allocation)	0.32	0.32	0.32	0.32		
Combined Input kW					Combined Input kW	3.48	3.01	2.44	1.97		
% Time operating					% Time operating	100%	88%	74%	63%		
COP					COP	0.99	1.23	1.66	2.22		
Condense (SDT) °C					Condense (SDT) °C	-					
					ZF18K4E-TFD						
Duty kW					Duty kW						
Input kW					Input kW						
Fan input					Fan input						
Combined Input kW					Combined Input kW						
% Time operating					% Time operating						
COP					COP						

Capacity equal to or above required value

Capacity below required value