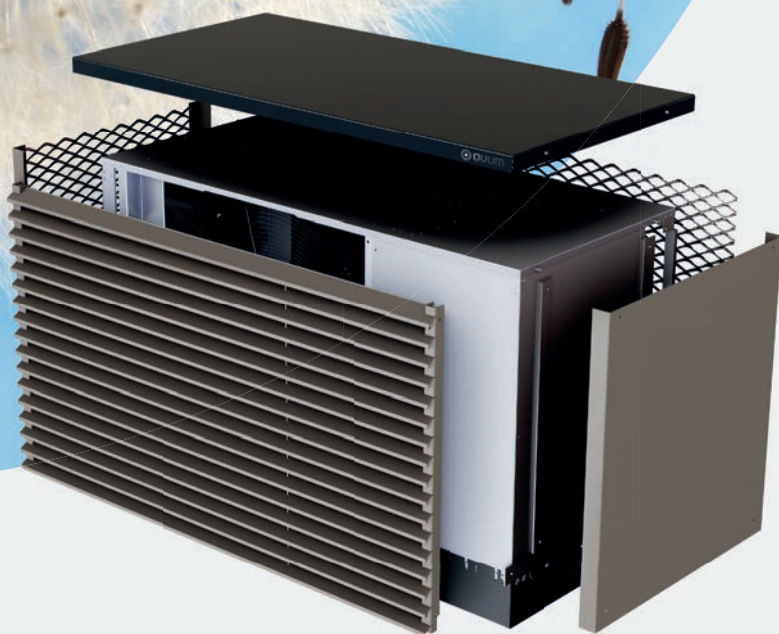


OVUM



AIRCUBE ACP

Data sheet AC208P, AC312P, AC417P, AC520P

Made in **Austria**

www.ovum.at



English





ONE HEAT PUMP - MANY POSSIBILITIES

Thanks to Ovum's clever system solution, the ACP series can be supplied with either the MIRA Cube buffer (480 or 680 litres) or the MIRA Plus control unit.



MIRA CUBE BUFFER

The MIRA Cube storage unit impresses with its space-saving design and makes installation easy as pie. Everything from a single source.

MIRA Plus CONTROL UNIT

The MIRA Plus control unit, including various extensions, makes the heating system flexible. Components that have already been installed can be reused.

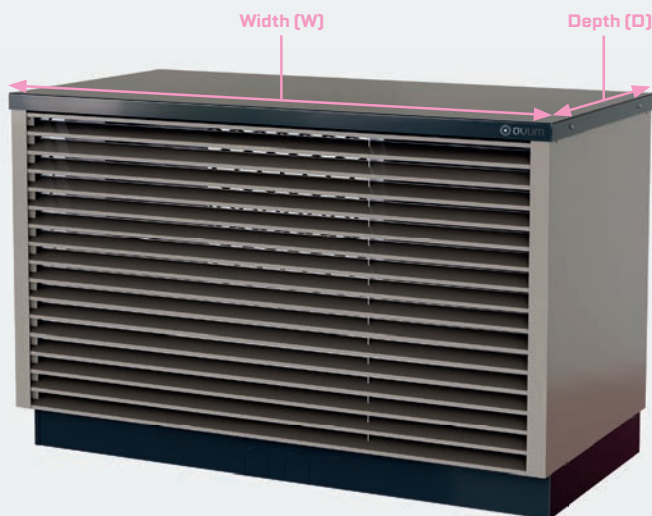


DIMENSIONS AIRCUBE 208P

DIMENSIONS OUTDOOR INSTALLATION

Width W: 1,126 mm
Depth D: 804 mm
Height H: 1,005 mm incl. feet (adjustable)

[W 1,126 mm x D 804 mm x H 1,005 mm]



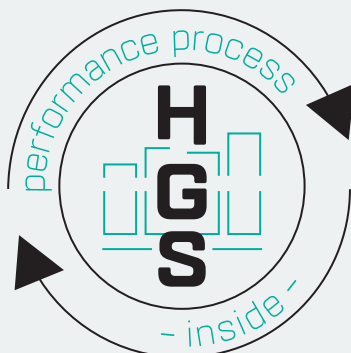
DIMENSION AIRCUBE 312P, 417P UND 520P

DIMENSIONS OUTDOOR INSTALLATION

Width W: 1,582 mm
Depth D: 804 mm
Height H: 1,005 mm incl. feet (adjustable)

[W 1,582 mm x D 804 mm x H 1,005 mm]

**For installation guidelines and instructions see
„Ovum Aircube installation instructions“.**



SCOP_[35]
6,02



THE PREMIUM CLASS AT A GLANCE

Heat pump type		AC208P		AC312P		AC417P		AC520P	
Class for space heating energy efficiency		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
		35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C

Heating performance data according to EN14825 ¹	unit	NT (35°C)	MT (55°C)	NT (35°C)	MT (55°C)	NT (35°C)	MT (55°C)	NT (35°C)	MT (55°C)
Pdesign	kW	6.10	7.21	8.20	9.25	12.21	13.94	15.32	18.75
Heat output at A-10	kW	6.10	7.21	8.19	9.25	12.21	13.94	15.32	18.75
Heat output at A-7	kW	5.39	6.40	7.29	8.17	10.93	12.40	13.63	16.75
Heat output at A2	kW	3.36	3.90	4.42	5.01	6.65	7.55	8.26	10.24
Heat output at A7	kW	2.62	2.52	2.91	3.20	4.39	4.96	6.16	6.51
Heat output at A12	kW	2.94	2.86	3.21	2.91	4.61	4.49	6.98	6.81
COP for A-10		3.06	2.12	3.25	2.29	3.41	2.31	3.36	2.27
COP for A-7		3.60	2.39	3.67	2.67	3.8	2.66	3.76	2.59
COP for A2		5.49	3.93	5.83	4.46	5.59	4.17	5.79	4.22
COP for A7		6.97	5.42	7.96	5.81	7.89	5.96	7.69	5.76
COP for A12		8.07	5.59	10.29	7.41	9.63	7.37	8.82	7.18

SCOP		5.53	4.00	6.02	4.50	5.90	4.37	5.92	4.34
Seasonal space heating energy efficiency in average climate conditions η_{S^1}	%	221	157	238	177	233	172	234	171
Contribution of the temperature controller to the energy efficiency of room heating	%	4							
Energy efficiency space heating of the compound system in average climate conditions η_{S^2}	%	225	161	242	181	237	176	238	175

Further performance data according to EN 14511	unit				
Heat output with A7/W35	kW	5.1	5.2	7.2	11.6
Power consumption with A7/W35	kW	0.9	0.9	1.3	2.1
COP at A7/W35		5.5	6	5.7	5.6

Cooling performance data	unit				
Cooling capacity with A35/W18	kW	8.9	9.5	11.7	13.7
Power consumption with A35/W18	kW	2	2	2.5	3
EER at A35/W18		4.5	4.7	4.7	4.6

Sound power level according to EN12102-1 ³	unit				
Nominal	dB(A)	41*	39.9	41.1	44.5*
Maximum (heat output 100% at A-7/W35)	dB(A)	54.5*	54	55	58*
Silent (heat output 70% at A-7/W35)	dB(A)	50*	47	49	52*

Dimensions and weight	unit				
Dimension for outdoor installation	mm	W1126 x D 804 x H1005	W1582 x D 804 x H1005	W1582 x D 804 x H1005	W1582 x D 804 x H1005
Weight without housing	kg	132	147	156	169
Weight with housing	kg	164	174	183	196



Heat pump type		AC208P	AC312P	AC417P	AC520P
Refrigeration data					
Refrigerant		R290	R290	R290	R290
Refrigerant charge	kg	1.3	1.3	1.5	2.1
GWP ⁴		3	3	3	3
Refrigerant safety group		A3	A3	A3	A3
Max. operating pressure	bar	30	30	30	30
Compressor oil		PZ46M	PZ46M	PZ46M	PZ46M
Compressor oil quantity	ltr.	0.9	0.9	0.9	0.9
Compressor type		Scroll	Scroll	Scroll	Scroll
Hydraulic data					
Internal pressure loss max.	mbar	147	147	290	290*
Residual delivery head charging pump	mWs	8.2	7.8	4.2	3.7
Hydraulic connections	Zoll/Inch	IG 1"	IG 1"	IG 1"	AG 5/4" OQF ⁵
Flow rate max. A-7/W35 ΔT = 5°C	m³/h	1.1	1.5	2.3	3.4
Maximum operating pressure heating side	bar	3	3	3	3
Electrical data					
Supply to auxiliary consumers	V/Hz	1~230/50	1~230/50	1~230/50	1~230/50
Max. operating current auxiliary consumers	A	1.5	1.5	1.5	2
Control fuse protection	A	1xC10	1xC10	1xC10	1xC10
Compressor supply	V/Hz	3~400/50	3~400/50	3~400/50	3~400/50
cos (φ) Compressor		0.82	0.82	0.82	0.82
Max. operating current compressor	A	5.8	8.2	12.1	16.7
Recomm. Fuse protection compressor incl. auxiliary consumers		3xC13	3xC13	3xC16	3xC20
Protection class		IP20	IP20	IP20	IP20
Standby	W	8.1	8.1	8.1	8.1
Max. power consumption compressor incl. auxiliary consumers	kW	3.7	5.0	7.3	10.0
MIRA Plus control unit (optional)					
Dimension	mm	W 346 x D 242 x H 713			
Weight	kg	9			
MIRA Cube Memory (optional)			Cube 500⁶	Cube 700⁶	
Dimension	mm	W 800 x D 1130 x H 1940		W 930 x D 1330 x H 1940	
Weight	kg	170		180	

¹ European test standard „Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling. Testing and performance measurement under partial load conditions and calculation of the seasonal performance factor“

² in accordance with the combined system of space heater and temperature controller in accordance with Regulation (EU) No. 811/2013

³ Measurement uncertainty ±1.5dB(A)

⁴ according to the 5th IPCC Assessment Report

⁵ OQF – Ovum Quick Fasten

⁶ cannot be combined with AC520P

* Verification of calculated data pending

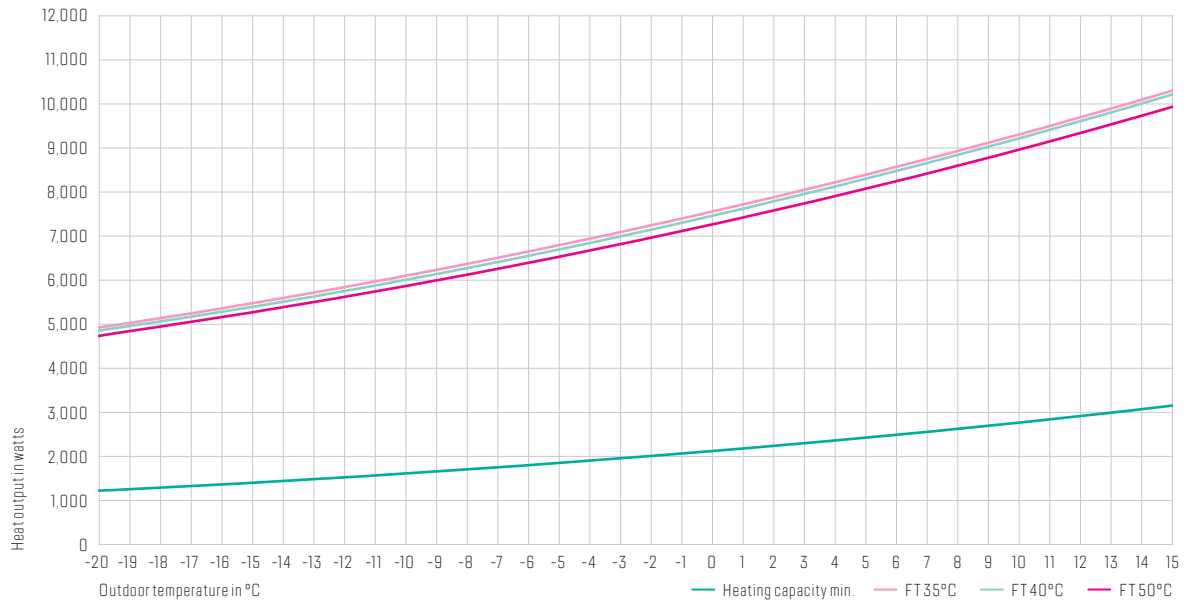
Subject to technical changes, printing and typesetting errors.



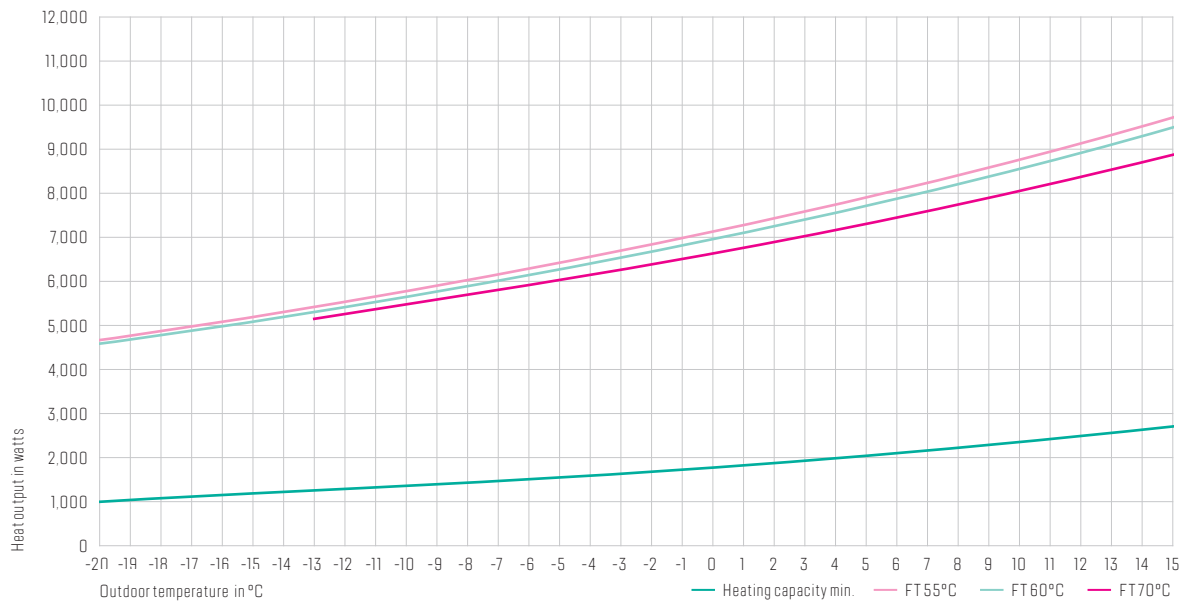


AIRCUBE 208P FEATURES

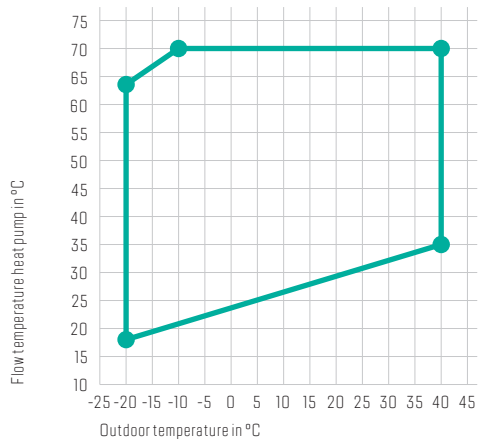
HEATING POWER AT FLOW TEMP. 35°C / 40°C / 50°C



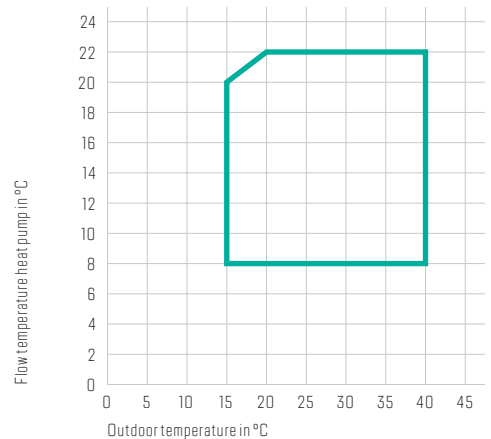
HEATING POWER AT FLOW TEMP. 55°C / 60°C / 70°C



HEATING APPLICATION LIMITS



COOLING APPLICATION LIMITS



AIRCUBE 208P

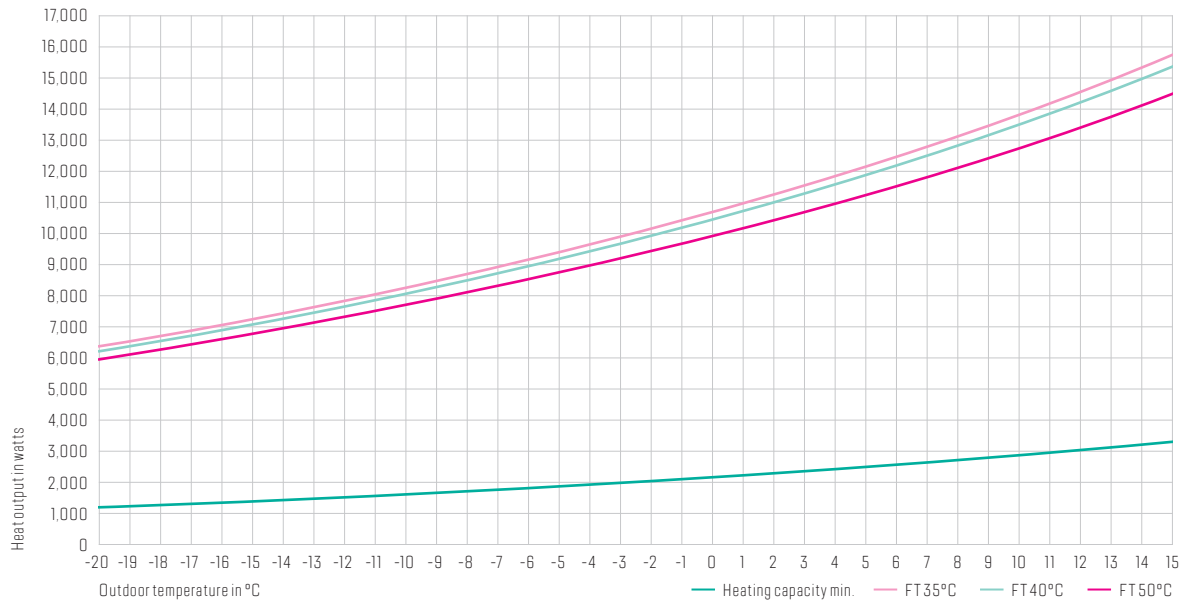
Operating point	OT	FT	20rps			40rps			60rps			80rps		
			PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP
W35°C	A15/W35	15	3070	422	727	5803	891	6.52	8106	1371	5.91	10172	1961	5.19
	A7/W35	7	2535	453	5.60	4880	920	5.30	6903	1400	4.93	8760	1991	4.40
	A2/W35	2	2231	463	4.81	4346	929	4.68	6201	1408	4.40	7928	2000	3.96
	A-7/W35	-7	1737	469	3.70	3472	931	3.73	5039	1409	3.58	6532	1996	3.27
	A-10/W35	-10	1587	468	3.39	3206	930	3.45	4683	1407	3.33	6095	1990	3.06
	A-15/W35	-15	1350	464	2.91	2789	928	3.01	4126	1403	2.94	5401	1978	2.73
W40°C	A15/W40	15	2982	491	6.08	5684	1008	5.64	7980	1540	5.18	10074	2185	4.61
	A7/W40	7	2460	514	4.78	4775	1027	4.65	6790	1556	4.36	8675	2201	3.94
	A2/W40	2	2163	520	4.16	4251	1030	4.13	6096	1557	3.91	7850	2200	3.57
	A-7/W40	-7	1682	518	3.25	3392	1023	3.32	4950	1547	3.20	6463	2182	2.96
	A-10/W40	-10	1535	515	2.98	3131	1019	3.07	4600	1541	2.98	6029	2173	2.78
	A-15/W40	-15	1302	507	2.57	2722	1013	2.69	4051	1533	2.64	5337	2154	2.48
W50°C	A15/W50	15	2778	629	4.42	5393	1241	4.35	7656	1871	4.09	9794	2620	3.74
	A7/W50	7	2289	636	3.60	4524	1238	3.66	6506	1861	3.50	8436	2605	3.24
	A2/W50	2	2011	633	3.18	4024	1227	3.28	5838	1846	3.16	7636	2586	2.95
	A-7/W50	-7	1558	614	2.54	3209	1200	2.67	4741	1812	2.62	6290	2540	2.48
	A-10/W50	-10	1419	605	2.35	2961	1191	2.49	4407	1801	2.45	5868	2523	2.33
	A-15/W50	-15	1198	588	2.04	2575	1177	2.19	3686	1784	2.18	5193	2492	2.08
W55°C	A15/W55	15	2664	697	3.82	5222	1354	3.66	7458	2029	3.68	9607	2825	3.40
	A7/W55	7	2193	697	3.15	4378	1339	3.27	6335	2005	3.16	8279	2795	2.96
	A2/W55	2	1926	688	2.80	3895	1322	2.95	5685	1983	2.87	7498	2767	2.71
	A-7/W55	-7	1491	660	2.26	3108	1285	2.42	4623	1938	2.39	6185	2706	2.29
	A-10/W55	-10	1357	648	2.10	2869	1273	2.25	4300	1923	2.24	5773	2684	2.15
	A-15/W55	-15	1145	626	1.83	2498	1255	1.99	3799	1901	2.00	5114	2648	1.93
W60°C	A15/W60	15	2542	765	3.32	5034	1463	3.44	7237	2180	3.32	9387	3019	3.11
	A7/W60	7	2092	756	2.77	4220	1436	2.94	6146	2143	2.87	8096	2973	2.72
	A2/W60	2	1837	741	2.48	3755	1413	2.66	5518	2113	2.61	7339	2936	2.50
	A-7/W60	-7	1422	703	2.02	3001	1365	2.20	4496	2055	2.19	6067	2860	2.12
	A-10/W60	-10	1294	688	1.88	2774	1350	2.05	4188	2037	2.06	5669	2834	2.00
	A-15/W60	-15	1090	662	1.65	2420	1329	1.82	3711	2011	1.85	5030	2792	1.80
W70°C	A15/W70	15	2276	897	2.54	4609	1667	2.76	6718	2456	2.74	8837	3364	2.63
	A7/W70	7	1874	868	2.16	3866	1615	2.39	5710	2389	2.39	7646	3283	2.33
	A2/W70	2	1648	841	1.96	3447	1577	2.19	5138	2342	2.19	6952	3225	2.16
	A-7/W70	-7	1280	782	1.64	2777	1508	1.84	4222	2259	1.87	5794	3118	1.86
	A-10/W70	-10	1166	760	1.53	2577	1487	1.73	3951	2234	1.77	5432	3084	1.76
	A-15/W70	-15	-	-	-	-	-	-	-	-	-	-	-	-



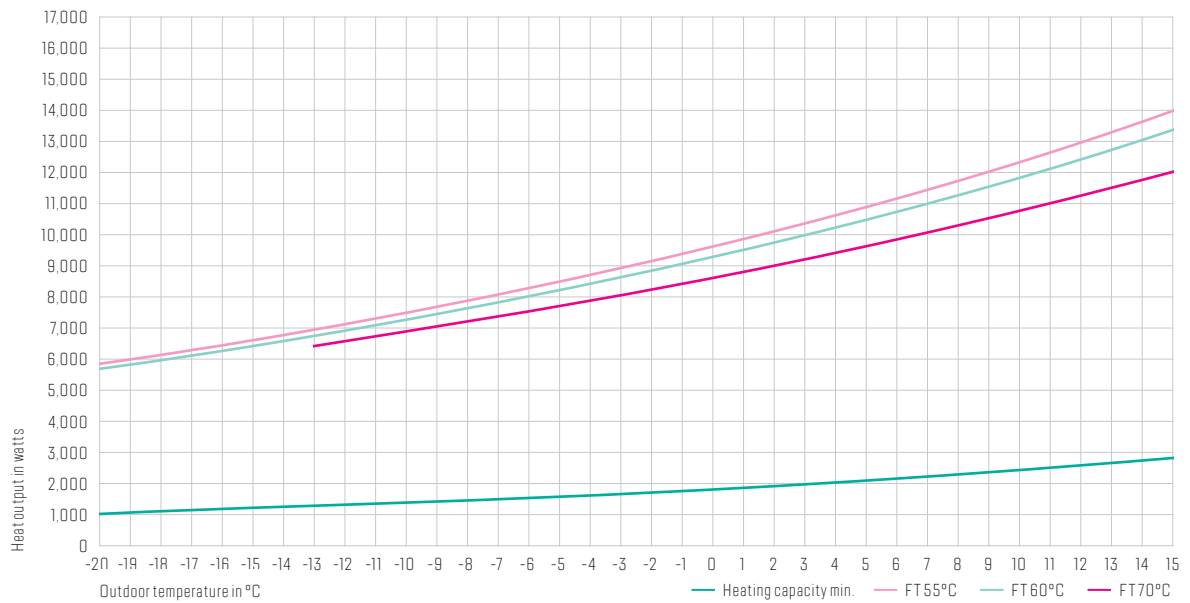


AIRCUBE 312P FEATURES

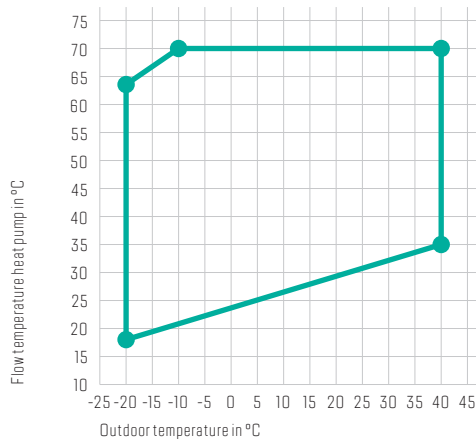
HEATING POWER AT FLOW TEMP. 35°C / 40°C / 50°C



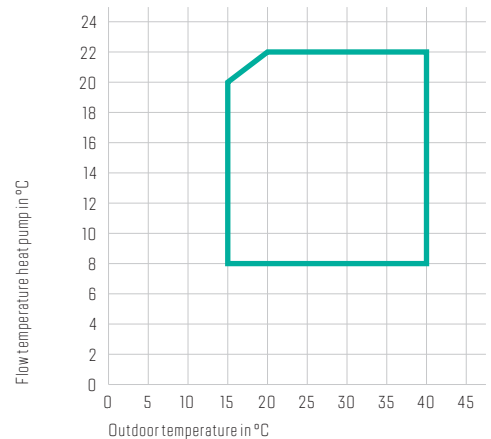
HEATING POWER AT FLOW TEMP. 55°C / 60°C / 70°C



HEATING APPLICATION LIMITS



COOLING APPLICATION LIMITS



AIRCUBE 312P

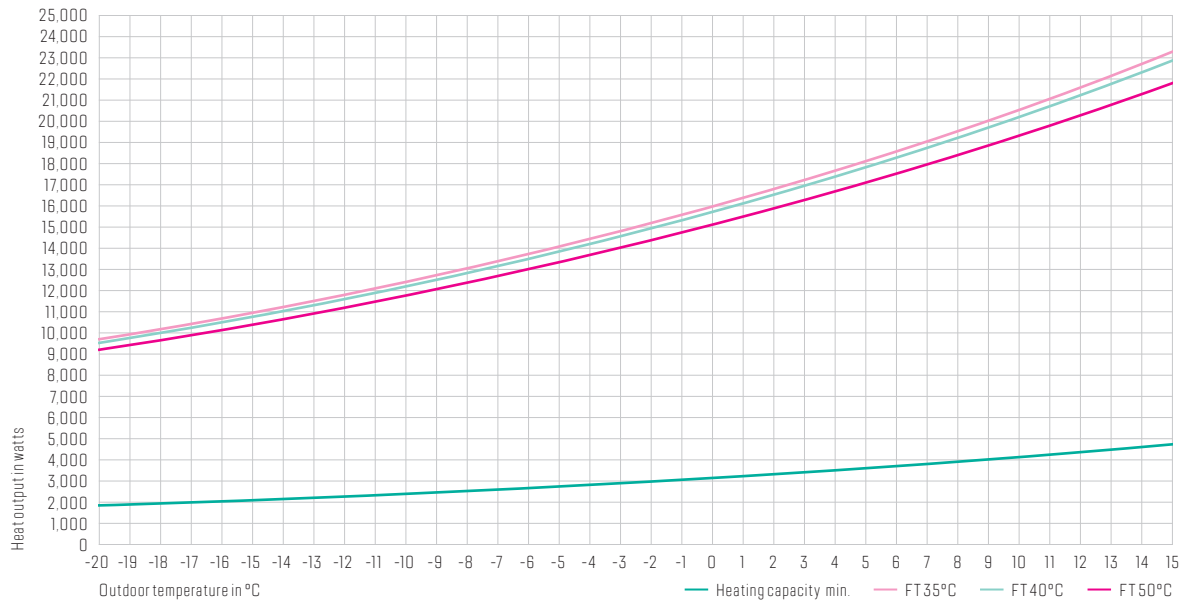
Operating point	OT	FT	20rps			40rps			60rps			80rps			100rps		
			PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP
W35°C	A15/W35	15	3240	409	7.92	6407	860	7.45	10182	1257	8.10	12463	1835	6.79	15560	2310	6.74
	A7/W35	7	2641	448	5.89	5287	910	5.81	8335	1355	6.15	10303	1940	5.31	12871	2451	5.25
	A2/W35	2	2307	462	4.99	4655	925	5.03	7304	1388	5.26	9093	1978	4.60	11370	2506	4.54
	A-7/W35	-7	1776	470	3.78	3644	932	3.91	5680	1409	4.03	7168	2002	3.58	8982	2544	3.53
	A-10/W35	-10	1616	469	3.44	3342	931	3.59	5203	1408	3.70	6593	2000	3.30	8268	2540	3.25
	A-15/W35	-15	1366	466	2.93	2876	929	3.10	4476	1403	3.19	5704	1988	2.87	7156	2519	2.84
W40°C	A15/W40	15	3129	481	6.50	6223	988	6.30	9880	1462	6.76	12146	2102	5.78	15184	2658	5.71
	A7/W40	7	2550	512	4.98	5132	1022	5.02	8084	1534	5.27	10050	2178	4.61	12582	2763	4.55
	A2/W40	2	2227	520	4.28	4517	1030	4.39	7083	1554	4.56	8875	2200	4.03	11127	2797	3.98
	A-7/W40	-7	1711	520	3.29	3533	1025	3.45	5508	1554	3.54	6999	2199	3.18	8800	2801	3.14
	A-10/W40	-10	1555	517	3.01	3239	1021	3.17	5046	1548	3.26	6438	2190	2.94	8100	2788	2.91
	A-15/W40	-15	1311	508	2.58	2785	1014	2.75	4342	1536	2.83	5567	2169	2.57	7004	2751	2.55
W50°C	A15/W50	15	2880	625	4.61	5799	1236	4.69	9181	1854	4.95	11397	2610	4.37	14289	3312	4.31
	A7/W50	7	2346	638	3.68	4778	1241	3.85	7510	1876	4.00	9454	2629	3.60	11893	3347	3.55
	A2/W50	2	2047	635	3.22	4205	1232	3.41	6582	1868	3.52	8384	2619	3.19	10547	3341	3.16
	A-7/W50	-7	1569	616	2.55	3290	1204	2.73	5129	1831	2.80	6618	2571	2.57	8378	3281	2.55
	A-10/W50	-10	1424	607	2.35	3017	1194	2.53	4704	1815	2.59	6092	2550	2.39	7717	3249	2.38
	A-15/W50	-15	1195	590	2.03	2595	1179	2.20	4058	1790	2.27	5272	2510	2.10	6673	3184	2.10
W55°C	A15/W55	15	2744	696	3.94	5561	1355	4.11	8789	2036	4.32	10968	2844	3.86	13770	3611	3.81
	A7/W55	7	2235	699	3.20	4582	1345	3.41	7190	2034	3.53	9115	2836	3.21	11494	3612	3.18
	A2/W55	2	1951	691	2.82	4033	1328	3.04	6306	2014	3.13	8075	2811	2.87	10213	3586	2.85
	A-7/W55	-7	1494	662	2.26	3160	1289	2.45	4926	1959	2.51	6409	2741	2.34	8141	3496	2.33
	A-10/W55	-10	1356	649	2.09	2900	1275	2.27	4524	1939	2.33	5906	2713	2.18	7506	3455	2.17
	A-15/W55	-15	1136	627	1.81	2499	1256	1.99	3915	1908	2.05	5120	2666	1.92	6498	3377	1.92
W60°C	A15/W60	15	2600	766	3.39	5308	1468	3.62	8371	2208	3.79	10505	3062	3.43	13206	3887	3.40
	A7/W60	7	2119	758	2.79	4375	1444	3.03	6853	2182	3.14	8750	3027	2.89	11060	3853	2.87
	A2/W60	2	1850	744	2.49	3854	1419	2.72	6017	2150	2.80	7767	2987	2.60	9852	3808	2.59
	A-7/W60	-7	1418	705	2.01	3028	1368	2.21	4718	2078	2.27	6191	2896	2.14	7890	3689	2.14
	A-10/W60	-10	1286	689	1.87	2783	1352	2.06	4342	2053	2.11	5714	2863	2.00	7285	3639	2.00
	A-15/W60	-15	1077	662	1.63	2405	1329	1.81	3773	2017	1.87	4988	2808	1.77	6320	3548	1.78
W70°C	A15/W70	15	2297	900	2.55	4760	1676	2.84	7469	2511	2.97	9479	3439	2.76	11942	4351	2.74
	A7/W70	7	1875	870	2.15	3934	1622	2.42	6135	2440	2.51	7951	3351	2.37	10096	4252	2.37
	A2/W70	2	1641	843	1.95	3477	1582	2.20	5410	2384	2.27	7099	3284	2.16	9056	4171	2.17
	A-7/W70	-7	1264	781	1.62	2762	1508	1.83	4300	2280	1.89	5736	3151	1.82	7354	3994	1.84
	A-10/W70	-10	1148	759	1.51	2551	1486	1.72	3983	2248	1.77	5324	3108	1.71	6824	3928	1.74
	A-15/W70	-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



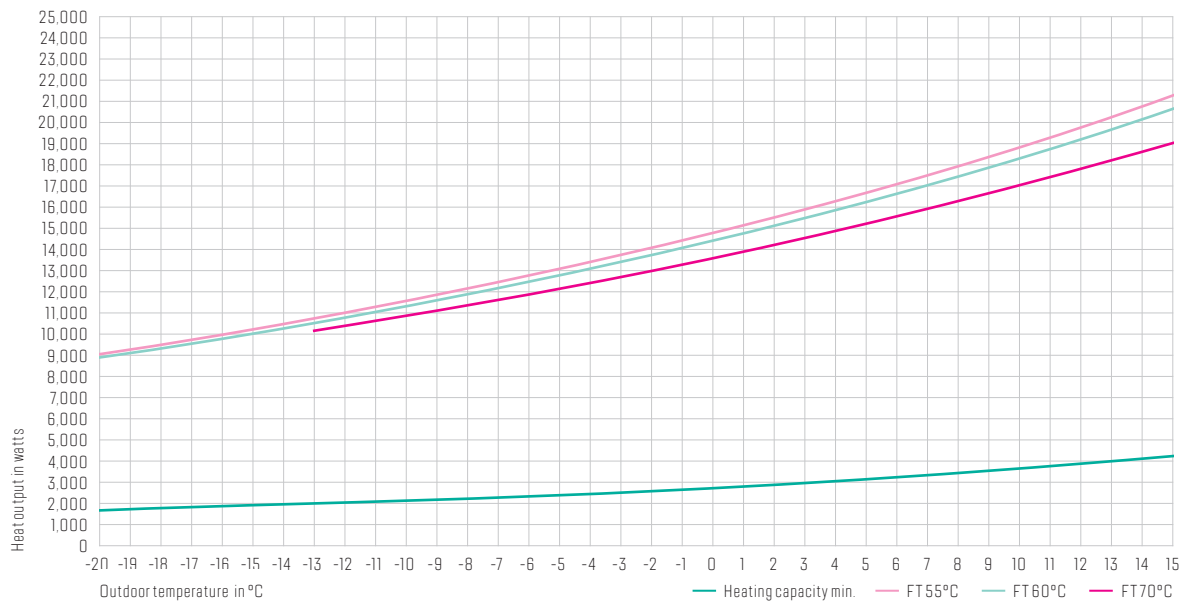


AIRCUBE 417P FEATURES

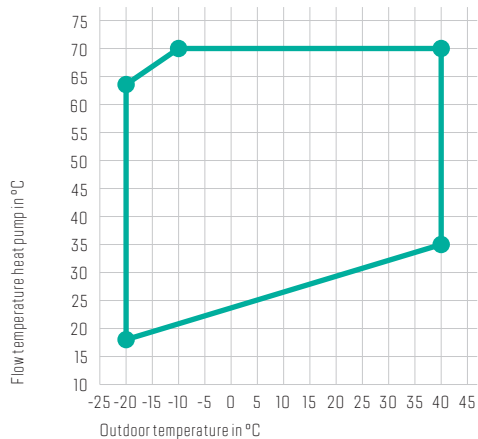
HEATING POWER AT FLOW TEMP. 35°C / 40°C / 50°C



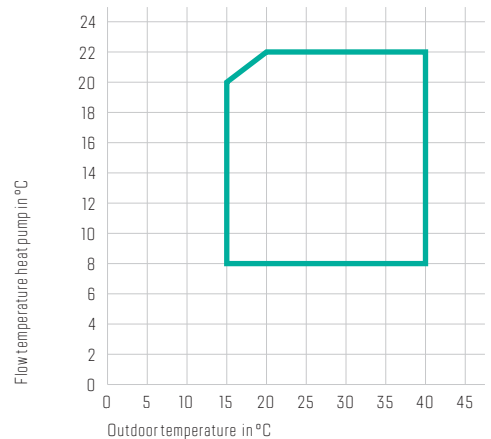
HEATING POWER AT FLOW TEMP. 55°C / 60°C / 70°C



HEATING APPLICATION LIMITS



COOLING APPLICATION LIMITS



AIRCUBE 417P

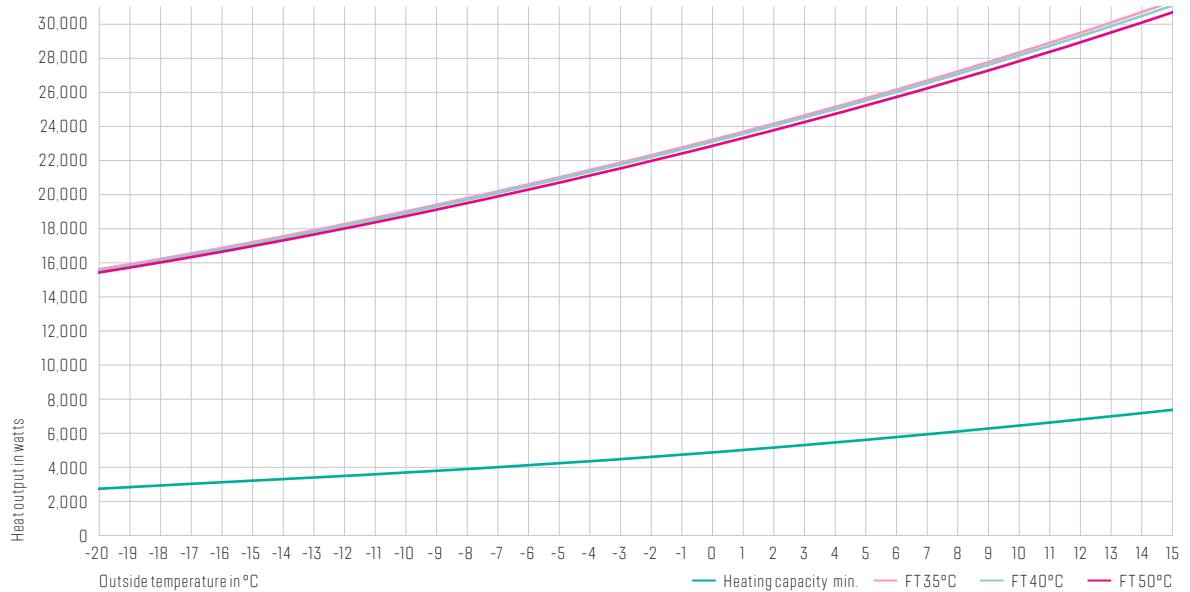
Operating point	OT	FT	20rps			40rps			60rps			80rps			100rps			
			PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	
W35°C	A15/W35	15	35	4690	577	813	8831	1193	740	14722	1776	829	18202	2552	713	23020	3331	6.91
	A7/W35	7	35	3840	625	615	7316	1271	576	12040	1903	633	15133	2674	5.66	19175	3457	5.55
	A2/W35	2	35	3367	641	525	6466	1303	496	10574	1957	540	13406	2724	4.92	17005	3504	4.85
	A-7/W35	-7	35	2617	655	400	5095	1332	382	8262	2008	412	10630	2769	3.84	13521	3546	3.81
	A-10/W35	-10	35	2392	656	3.65	4675	1335	3.50	7565	2013	3.76	9788	2773	3.53	12472	3551	3.51
	A-15/W35	-15	35	2041	657	3.11	4006	1333	3.00	6462	2011	3.21	8463	2772	3.05	10840	3555	3.05
W40°C	A15/W40	15	40	4557	666	6.84	8654	1355	6.39	14425	2028	711	17861	2869	6.23	22575	3723	6.06
	A7/W40	7	40	3732	705	5.30	7174	1421	5.05	11813	2137	5.53	14874	2971	5.01	18845	3825	4.93
	A2/W40	2	40	3273	717	4.56	6344	1447	4.38	10385	2180	4.76	13190	3010	4.38	16731	3860	4.33
	A-7/W40	-7	40	2544	725	3.51	5000	1469	3.40	8124	2217	3.67	10467	3041	3.44	13318	3885	3.43
	A-10/W40	-10	40	2325	726	3.20	4587	1470	3.12	7440	2219	3.35	9636	3042	3.17	12284	3887	3.16
	A-15/W40	-15	40	1982	727	2.73	3926	1467	2.68	6352	2213	2.87	8323	3037	2.74	10663	3886	2.74
W50°C	A15/W50	15	50	4304	857	5.02	8262	1709	4.84	13701	2567	5.34	17057	3540	4.82	21540	4541	4.74
	A7/W50	7	50	3532	881	4.01	6866	1755	3.91	11266	2642	4.27	14265	3610	3.95	18070	4605	3.92
	A2/W50	2	50	3102	888	3.49	6083	1772	3.43	9935	2668	3.72	12683	3633	3.49	16089	4622	3.48
	A-7/W50	-7	50	2415	889	2.72	4811	1784	2.70	7818	2685	2.91	10103	3644	2.77	12851	4624	2.78
	A-10/W50	-10	50	2207	889	2.48	4417	1784	2.48	7171	2683	2.67	9306	3642	2.56	11855	4622	2.56
	A-15/W50	-15	50	1880	891	2.11	3783	1779	2.13	6136	2673	2.30	8032	3634	2.21	10273	4618	2.22
W55°C	A15/W55	15	55	4178	960	4.35	8037	1897	4.24	13263	2849	4.65	16588	3898	4.26	20948	4978	4.21
	A7/W55	7	55	3432	979	3.51	6691	1936	3.46	10936	2911	3.76	13908	3955	3.52	17623	5028	3.51
	A2/W55	2	55	3017	983	3.07	5936	1950	3.04	9664	2932	3.30	12387	3972	3.12	15719	5038	3.12
	A-7/W55	-7	55	2352	983	2.39	4708	1959	2.40	7638	2942	2.60	9895	3978	2.49	12585	5035	2.50
	A-10/W55	-10	55	2150	983	2.19	4326	1958	2.21	7017	2939	2.39	9120	3975	2.29	11613	5032	2.31
	A-15/W55	-15	55	1831	986	1.86	3710	1956	1.90	6019	2930	2.05	7875	3969	1.98	10061	5030	2.00
W60°C	A15/W60	15	60	4047	1068	3.79	7786	2092	3.72	12768	3140	4.07	16068	4272	3.76	20304	5441	3.73
	A7/W60	7	60	3329	1082	3.08	6494	2125	3.06	10559	3190	3.31	13511	4318	3.13	17136	5480	3.13
	A2/W60	2	60	2928	1085	2.70	5771	2136	2.70	9354	3206	2.92	12058	4331	2.78	15315	5486	2.79
	A-7/W60	-7	60	2285	1085	2.11	4593	2144	2.14	7434	3212	2.31	9666	4334	2.23	12297	5481	2.24
	A-10/W60	-10	60	2089	1086	1.92	4226	2144	1.97	6843	3210	2.13	8917	4332	2.06	11354	5479	2.07
	A-15/W60	-15	60	1779	1091	1.63	3631	2143	1.69	5889	3202	1.84	7708	4329	1.78	9836	5481	1.79
W70°C	A15/W70	15	70	3757	1302	2.89	7183	2493	2.88	11582	3738	3.10	14855	5072	2.93	18848	6468	2.91
	A7/W70	7	70	3094	1310	2.36	6018	2518	2.39	9647	3773	2.56	12581	5105	2.46	16031	6494	2.47
	A2/W70	2	70	2724	1311	2.08	5369	2527	2.12	8599	3784	2.27	11284	5114	2.21	14398	6497	2.22
	A-7/W70	-7	70	2126	1315	1.62	4310	2537	1.70	6928	3790	1.83	9129	5121	1.78	11650	6498	1.79
	A-10/W70	-10	70	1942	1319	1.47	3977	2540	1.57	6411	3791	1.69	8446	5124	1.65	10775	6502	1.66
	A-15/W70	-15	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



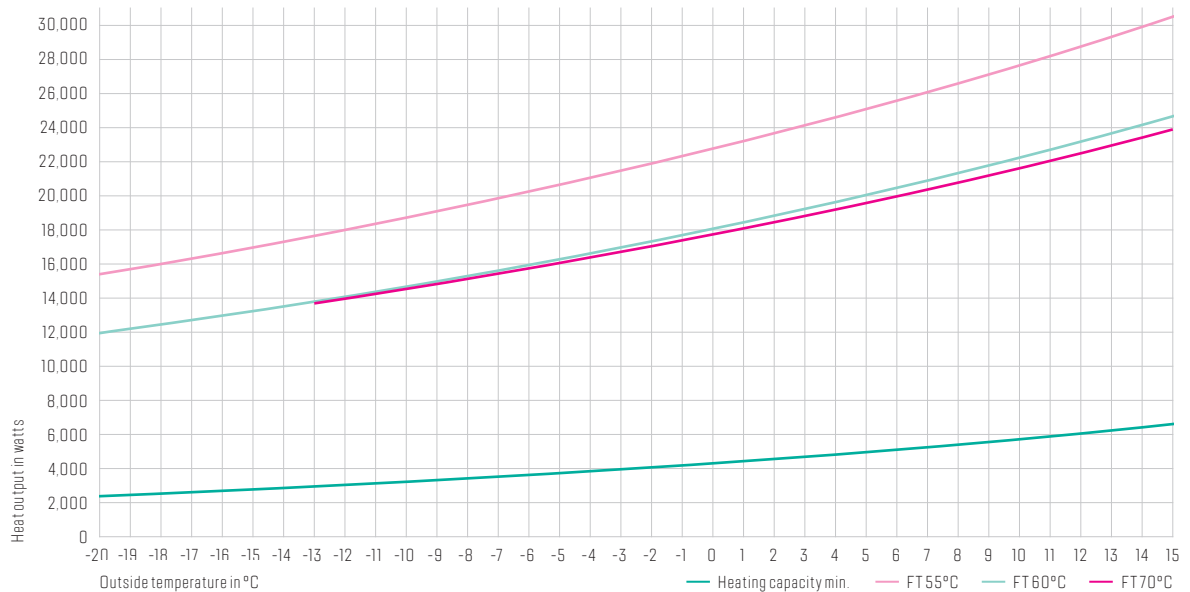


AIRCUBE 520P FEATURES

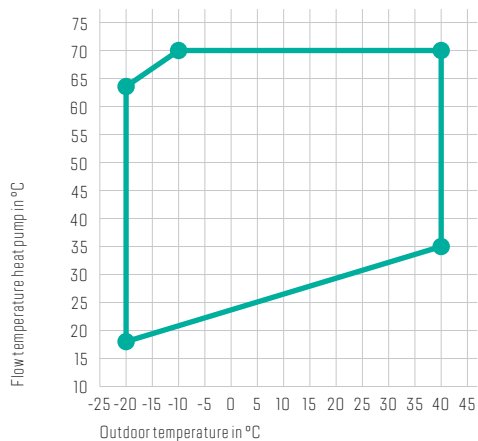
HEATING POWER AT FLOW TEMP. 35°C / 40°C / 50°C



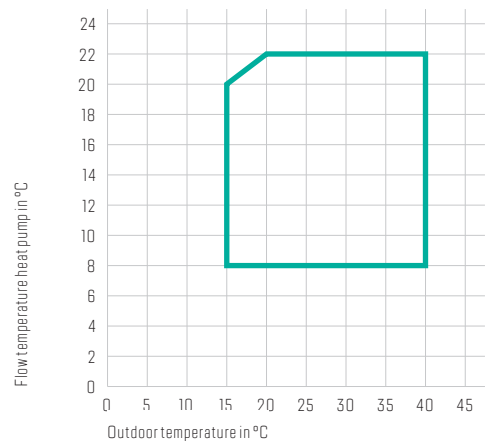
HEATING POWER AT FLOW TEMP. 55°C / 60°C / 70°C



HEATING APPLICATION LIMITS



COOLING APPLICATION LIMITS



AIRCUBE 520P

Operating point	OT	FT	20rps			40rps			60rps			80rps			100rps		
			PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP	PH [W]	PEL [W]	COP
W35°C	A15/W35	15	7344	935	786	14146	1958	7.22	20076	3066	6.55	25675	4319	5.94	30975	5526	5.61
	A7/W35	7	5958	997	5.98	11812	2061	5.73	17022	3189	5.34	22023	4435	4.97	26811	5612	4.78
	A2/W35	2	5195	1024	5.07	10492	2115	4.96	15266	3250	4.70	19905	4489	4.43	24376	5647	4.32
	A-7/W35	-7	4006	1055	3.80	8371	2186	3.83	12394	3328	3.72	16401	4552	3.60	20305	5691	3.57
	A-10/W35	-10	3659	1061	3.45	7734	2201	3.51	11515	3343	3.44	15316	4565	3.36	19031	5704	3.34
	A-15/W35	-15	3130	1067	2.93	6742	2215	3.04	10134	3356	3.02	13591	4578	2.97	16990	5728	2.97
W40°C	A15/W40	15	7158	1083	6.61	13925	2211	6.30	19855	3428	5.79	25452	4802	5.30	30786	6149	5.01
	A7/W40	7	5800	1136	5.11	11618	2295	5.06	16824	3527	4.77	21833	4895	4.46	26662	6218	4.29
	A2/W40	2	5053	1158	4.36	10313	2337	4.41	15081	3575	4.22	19735	4936	4.00	24250	6246	3.88
	A-7/W40	-7	3887	1180	3.29	8217	2389	3.44	12230	3630	3.37	16261	4983	3.26	20215	6285	3.22
	A-10/W40	-10	3546	1183	3.00	7587	2398	3.16	11358	3639	3.12	15184	4991	3.04	18950	6299	3.01
	A-15/W40	-15	3025	1186	2.55	6605	2402	2.75	9986	3642	2.74	13469	4999	2.69	16920	6328	2.67
W50°C	A15/W50	15	6743	1389	4.85	13412	2737	4.90	19326	4182	4.62	24952	5803	4.30	30381	7428	4.09
	A7/W50	7	5455	1430	3.82	11179	2795	4.00	16363	4249	3.85	21421	5865	3.65	26354	7475	3.53
	A2/W50	2	4747	1445	3.28	9919	2823	3.51	14664	4280	3.43	19375	5892	3.29	24000	7497	3.20
	A-7/W50	-7	3643	1459	2.50	7897	2852	2.77	11888	4310	2.76	15987	5923	2.70	20054	7542	2.66
	A-10/W50	-10	3319	1460	2.27	7288	2854	2.55	11040	4313	2.56	14934	5930	2.52	18813	7563	2.49
	A-15/W50	-15	2822	1461	1.93	6340	2848	2.23	9705	4307	2.25	13255	5940	2.23	16814	7611	2.21
W55°C	A15/W55	15	6515	1557	4.18	13122	3030	4.33	19022	4600	4.13	24677	6351	3.89	30162	8114	3.72
	A7/W55	7	5268	1595	3.30	10937	3082	3.55	16106	4659	3.46	21198	6405	3.31	26191	8156	3.21
	A2/W55	2	4584	1610	2.85	9706	3107	3.12	14436	4686	3.08	19185	6429	2.98	23870	8180	2.92
	A-7/W55	-7	3518	1624	2.17	7732	3132	2.47	11714	4714	2.48	15851	6463	2.45	19976	8236	2.43
	A-10/W55	-10	3205	1626	1.97	7139	3134	2.28	10882	4717	2.31	14815	6472	2.29	18749	8263	2.27
	A-15/W55	-15	2726	1628	1.67	6214	3127	1.99	9575	4712	2.03	13159	6488	2.03	16771	8324	2.01
W60°C	A15/W60	15	6273	1742	3.60	12812	3356	3.82	18693	5063	3.69	24382	6949	3.51			
	A7/W60	7	5072	1781	2.85	10681	3406	3.14	15832	5119	3.09	20963	7001	2.99			
	A2/W60	2	4415	1796	2.46	9482	3431	2.76	14197	5146	2.76	18987	7027	2.70			
	A-7/W60	-7	3392	1812	1.87	7566	3458	2.19	11538	5178	2.23	15714	7068	2.22			
	A-10/W60	-10	3092	1815	1.70	6991	3460	2.02	10728	5182	2.07	14696	7083	2.08			
	A-15/W60	-15	2632	1820	1.45	6094	3456	1.76	9454	5183	1.82	13070	7108	1.84			
W70°C	A15/W70	15	5747	2185	2.63	12129	4145	2.93	17964	6173	2.91	23731	8357	2.84			
	A7/W70	7	4652	2231	2.09	10126	4206	2.41	15237	6240	2.44	20447	8419	2.43			
	A2/W70	2	4057	2252	1.80	9007	4239	2.12	13689	6277	2.18	18555	8457	2.19			
	A-7/W70	-7	3136	2282	1.37	7229	4284	1.69	11187	6334	1.77	15427	8533	1.81			
	A-10/W70	-10	2867	2291	1.25	6697	4294	1.56	10429	6350	1.64	14455	8562	1.69			
	A-15/W70	-15	-	-	-	-	-	-	-	-	-	-	-	-			-



SCOP_[35]
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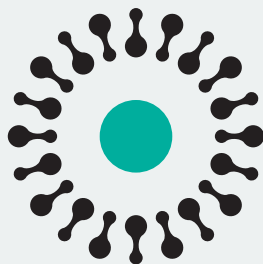
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