

Performance characteristics for infrastructure cooling

Cooling

Indoor			Outdoor temperature [°C DB]																													
			-15			-10			-5			0			5			10			15			20								
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI						
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-			
54.5	11.0	16	8.24	7.27	0.32	8.24	7.27	0.33	8.24	7.27	0.34	8.24	7.27	0.35	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.38	8.24	7.27	0.38
41.8	11.0	18	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
57.0	13.0		10.28	8.22	0.41	10.28	8.22	0.42	10.28	8.22	0.43	10.28	8.22	0.45	10.28	8.22	0.45	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44
31.4	11.0	20	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
44.9	13.0		10.28	9.35	0.41	10.28	9.35	0.42	10.28	9.35	0.43	10.28	9.35	0.45	10.28	9.35	0.45	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.47
52.0	14.0		11.30	9.26	0.45	11.30	9.26	0.47	11.30	9.26	0.48	11.30	9.26	0.49	11.30	9.26	0.49	11.30	9.26	0.48	11.30	9.26	0.48	11.30	9.26	0.47	11.30	9.26	0.47	11.30	9.26	0.47
22.9	11.0	22	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
34.8	13.0		10.28	10.28	0.41	10.28	10.28	0.42	10.28	10.28	0.43	10.28	10.28	0.45	10.28	10.28	0.45	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44
47.6	15.0		12.32	10.10	0.50	12.32	10.10	0.51	12.32	10.10	0.52	12.32	10.10	0.54	12.32	10.10	0.53	12.32	10.10	0.51	12.32	10.10	0.51	12.32	10.10	0.50	12.32	10.10	0.50	12.32	10.10	0.50
54.3	16.0	24	13.33	9.73	0.54	13.33	9.73	0.56	13.33	9.73	0.57	13.33	9.73	0.58	13.33	9.73	0.58	13.33	9.73	0.55	13.33	9.73	0.55	13.33	9.73	0.53	13.33	9.73	0.53	13.33	9.73	0.54
21.2	12.0		9.26	9.26	0.37	9.26	9.26	0.38	9.26	9.26	0.39	9.26	9.26	0.40	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41
32.1	14.0		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	11.30	11.30	0.47
43.8	16.0	27	13.33	11.20	0.54	13.33	11.20	0.56	13.33	11.20	0.57	13.33	11.20	0.58	13.33	11.20	0.57	13.33	11.20	0.55	13.33	11.20	0.55	13.33	11.20	0.53	13.33	11.20	0.53	13.33	11.20	0.54
50.0	17.0		13.72	10.15	0.56	13.72	10.15	0.57	13.72	10.15	0.58	13.72	10.15	0.59	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58
21.5	14.0		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	11.30	11.30	0.47
26.3	15.0	27	12.32	12.32	0.50	12.32	12.32	0.51	12.32	12.32	0.52	12.32	12.32	0.54	12.32	12.32	0.53	12.32	12.32	0.51	12.32	12.32	0.51	12.32	12.32	0.50	12.32	12.32	0.50	12.32	12.32	0.50
31.3	16.0		13.33	13.33	0.54	13.33	13.33	0.56	13.33	13.33	0.57	13.33	13.33	0.58	13.33	13.33	0.57	13.33	13.33	0.55	13.33	13.33	0.55	13.33	13.33	0.53	13.33	13.33	0.53	13.33	13.33	0.54
47.4	19.0		14.48	11.01	0.58	14.48	11.01	0.59	14.48	11.01	0.59	14.48	11.01	0.59	14.48	11.01	0.61	14.48	11.01	0.61	14.48	11.01	0.64	14.48	11.01	0.66	14.48	11.01	0.66	14.48	11.01	0.66

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	4,00	4,17	4,17	4,05	4,00

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	3,94	4,11	3,59	3,35	3,81	3,75

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	4,12	4,25	4,15	4,26	3,75

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	4,18	4,23	3,83	5,38	3,75

Symbols

- TC: Maximum total cooling capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 PI: Power input [kW]
 compressor + indoor and outdoor fan motors
 RH: Relative humidity [%]