

Technical Information Sheet

Compact Actual Thermal Outputs and CoPs

Standard Compact Heat Pumps—R407C

Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	5.2	4.13	4.87	2.96	4.74	2.37
6	C060-S1H	BBA0055/02	Single	Single	6.47	4.13	6.03	3.05	5.85	2.60
8	C080-S1H	BBA0055/03	Single	Single	8.81	4.14	8.28	2.96	8.07	2.43
10	C100-S1H	BBA0055/04	Single	Single	10.15	4.16	9.53	2.93	9.22	2.39
12	C120-S1H	BBA0055/05	Single	Single	12.55	4.13	11.75	2.97	11.40	2.46
12	C120-T1H	BBA0055/06	Single	Twin	12.94	4.13	12.06	3.04	11.70	2.59
12	C120-T3H	BBA0055/11	Three	Twin	12.54	4.15	11.76	2.97	11.34	2.50
16	C160-T1H	BBA0055/07	Single	Twin	17.62	4.15	16.56	2.97	16.14	2.47
16	C160-T3H	BBA0055/12	Three	Twin	17.66	4.20	16.40	2.97	15.76	2.42
20	C200-T1H	BBA0055/08	Single	Twin	20.30	4.16	19.06	2.93	18.44	2.39
20	C200-T3H	BBA0055/13	Three	Twin	20.30	4.15	19.04	2.93	18.54	2.51
24	C240-T1H	BBA0055/09	Single	Twin	25.10	4.14	23.50	2.97	22.80	2.51
24	C240-T3H	BBA0055/14	Three	Twin	25.00	4.18	23.50	2.99	22.70	2.48
30	C300-T3H	BBA0055/15	Three	Twin	29.90	4.15	28.10	2.94	27.40	2.49

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Certificate Number MCS1216
Heat Pumps

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Compact Actual Thermal Outputs and CoPs

Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	5.55	4.32	5.16	3.09	4.98	2.45
6	C060-S1H	BBA0055/02	Single	Single	6.91	4.34	6.41	3.18	6.17	2.68
8	C080-S1H	BBA0055/03	Single	Single	9.42	4.37	8.80	3.11	8.53	2.54
10	C100-S1H	BBA0055/04	Single	Single	10.85	4.42	10.15	3.09	9.77	2.49
12	C120-S1H	BBA0055/05	Single	Single	13.40	4.37	12.50	3.11	12.10	2.57
12	C120-T1H	BBA0055/06	Single	Twin	13.82	4.34	12.82	3.18	12.34	2.67
12	C120-T3H	BBA0055/11	Three	Twin	13.42	4.36	12.50	3.11	12.00	2.61
16	C160-T1H	BBA0055/07	Single	Twin	18.84	4.38	17.60	3.11	17.06	2.58
16	C160-T3H	BBA0055/12	Three	Twin	18.90	4.43	17.48	3.13	16.72	2.53
20	C200-T1H	BBA0055/08	Single	Twin	21.70	4.41	20.30	3.09	19.54	2.50
20	C200-T3H	BBA0055/13	Three	Twin	21.70	4.39	20.30	3.08	19.62	2.63
24	C240-T1H	BBA0055/09	Single	Twin	26.80	4.38	25.00	3.12	24.20	2.62
24	C240-T3H	BBA0055/14	Three	Twin	26.70	4.42	25.00	3.14	24.10	2.59
30	C300-T3H	BBA0055/15	Three	Twin	31.90	4.38	29.90	3.09	29.00	2.61

Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	5.93	4.53	5.47	3.23	5.24	2.55
6	C060-S1H	BBA0055/02	Single	Single	7.38	4.54	6.82	3.33	6.52	2.78
8	C080-S1H	BBA0055/03	Single	Single	10.05	4.63	9.35	3.27	9.02	2.65
10	C100-S1H	BBA0055/04	Single	Single	11.60	4.69	10.80	3.25	10.35	2.61
12	C120-S1H	BBA0055/05	Single	Single	14.30	4.64	13.30	3.27	12.85	2.68
12	C120-T1H	BBA0055/06	Single	Twin	14.76	4.53	13.64	3.33	13.04	2.77
12	C120-T3H	BBA0055/11	Three	Twin	14.34	4.60	13.30	3.40	12.72	2.73
16	C160-T1H	BBA0055/07	Single	Twin	20.10	4.64	18.70	3.28	18.04	2.70
16	C160-T3H	BBA0055/12	Three	Twin	20.20	4.69	18.60	3.29	17.74	2.65
20	C200-T1H	BBA0055/08	Single	Twin	23.20	4.69	21.60	3.25	20.70	2.61
20	C200-T3H	BBA0055/13	Three	Twin	23.20	4.69	21.60	3.24	20.80	2.75
24	C240-T1H	BBA0055/09	Single	Twin	28.60	4.65	26.60	3.28	25.70	2.74
24	C240-T3H	BBA0055/14	Three	Twin	28.60	4.68	26.60	3.30	25.60	2.72
30	C300-T3H	BBA0055/15	Three	Twin	34.00	4.61	31.80	3.42	30.80	2.73

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Compact Actual Thermal Outputs and CoPs

Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	6.33	4.77	5.81	3.38	5.52	2.65
6	C060-S1H	BBA0055/02	Single	Single	7.88	4.77	7.26	3.47	6.90	2.88
8	C080-S1H	BBA0055/03	Single	Single	10.75	4.89	9.94	3.43	9.54	2.77
10	C100-S1H	BBA0055/04	Single	Single	12.40	4.96	11.45	3.41	10.95	2.73
12	C120-S1H	BBA0055/05	Single	Single	15.25	4.90	14.15	3.45	13.65	2.81
12	C120-T1H	BBA0055/06	Single	Twin	15.76	4.76	14.52	3.47	13.80	2.88
12	C120-T3H	BBA0055/11	Three	Twin	15.32	4.86	14.14	3.43	13.46	2.85
16	C160-T1H	BBA0055/07	Single	Twin	21.50	4.90	19.88	3.44	19.08	2.82
16	C160-T3H	BBA0055/12	Three	Twin	21.60	4.95	19.80	3.46	18.82	2.78
20	C200-T1H	BBA0055/08	Single	Twin	24.80	4.95	22.90	3.41	21.90	2.73
20	C200-T3H	BBA0055/13	Three	Twin	24.90	4.94	23.00	3.43	22.00	2.88
24	C240-T1H	BBA0055/09	Single	Twin	30.50	4.92	28.30	3.45	27.30	2.87
24	C240-T3H	BBA0055/14	Three	Twin	30.50	4.93	28.40	3.49	27.20	2.85
30	C300-T3H	BBA0055/15	Three	Twin	36.30	4.87	33.80	3.42	32.70	2.86

Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	6.75	4.99	6.16	3.53	5.83	2.77
6	C060-S1H	BBA0055/02	Single	Single	8.40	4.98	7.73	3.64	7.30	2.99
8	C080-S1H	BBA0055/03	Single	Single	11.50	5.19	10.55	3.61	10.10	2.89
10	C100-S1H	BBA0055/04	Single	Single	13.25	5.26	12.15	3.59	11.60	2.86
12	C120-S1H	BBA0055/05	Single	Single	16.30	5.20	15.05	3.63	14.45	2.93
12	C120-T1H	BBA0055/06	Single	Twin	16.80	4.97	15.46	3.63	14.60	2.98
12	C120-T3H	BBA0055/11	Three	Twin	16.36	5.10	15.04	3.60	14.26	2.98
16	C160-T1H	BBA0055/07	Single	Twin	23.00	5.20	21.10	3.62	20.20	2.94
16	C160-T3H	BBA0055/12	Three	Twin	23.10	5.23	21.10	3.64	19.98	2.91
20	C200-T1H	BBA0055/08	Single	Twin	26.50	5.26	24.30	3.59	23.20	2.87
20	C200-T3H	BBA0055/13	Three	Twin	26.60	5.22	24.50	3.61	23.40	3.03
24	C240-T1H	BBA0055/09	Single	Twin	32.60	5.21	30.10	3.63	28.90	3.00
24	C240-T3H	BBA0055/14	Three	Twin	32.60	5.21	30.20	3.67	28.80	2.99
30	C300-T3H	BBA0055/15	Three	Twin	38.60	5.11	35.90	3.59	34.70	3.01

Technical Information Sheet

Compact Actual Thermal Outputs and CoPs

Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		50		55	
					kW	CoP	kW	CoP	kW	CoP
4	C040-S1H	BBA0055/01	Single	Single	7.21	5.23	6.55	3.70	6.16	2.89
6	C060-S1H	BBA0055/02	Single	Single	8.94	5.20	8.22	3.81	7.75	3.12
8	C080-S1H	BBA0055/03	Single	Single	12.30	5.48	11.25	3.80	10.70	3.03
10	C100-S1H	BBA0055/04	Single	Single	14.10	5.56	12.90	3.77	12.30	3.00
12	C120-S1H	BBA0055/05	Single	Single	17.40	5.50	15.95	3.81	15.30	3.07
12	C120-T1H	BBA0055/06	Single	Twin	17.88	5.19	16.44	3.80	15.50	3.11
12	C120-T3H	BBA0055/11	Three	Twin	17.48	5.39	15.98	3.78	15.12	3.12
16	C160-T1H	BBA0055/07	Single	Twin	24.60	5.49	22.50	3.81	21.40	3.08
16	C160-T3H	BBA0055/12	Three	Twin	24.60	5.50	22.40	3.83	21.20	3.05
20	C200-T1H	BBA0055/08	Single	Twin	28.20	5.55	25.80	3.77	24.60	3.01
20	C200-T3H	BBA0055/13	Three	Twin	28.50	5.55	26.00	3.80	24.80	3.18
24	C240-T1H	BBA0055/09	Single	Twin	34.80	5.51	31.90	3.82	30.60	3.14
24	C240-T3H	BBA0055/14	Three	Twin	34.90	5.51	32.10	3.86	30.60	3.14
30	C300-T3H	BBA0055/15	Three	Twin	41.20	5.38	38.20	3.77	36.70	3.14

High Temperature Compact Heat Pumps—R134a

Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	3.60	4.13	3.25	2.37	3.18	2.11
4.3	H043-S1H	BBA0055/20	Single	Single	4.45	4.13	4.01	2.36	3.93	2.10
6.2	H062-S1H	BBA0055/21	Single	Single	6.35	4.17	5.65	2.36	5.51	2.08
7	H070-S1H	BBA0055/22	Single	Single	7.14	4.20	6.37	2.41	6.27	2.16
8.5	H085-S1H	BBA0055/23	Single	Single	8.74	4.15	7.67	2.36	7.51	2.10
12.4	H124-T1H	BBA0055/28	Single	Twin	12.70	4.16	11.30	2.36	11.02	2.08
17	H170-T1H	BBA0055/29	Single	Twin	17.48	4.15	15.34	2.36	15.02	2.10

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Compact Actual Thermal Outputs and CoPs

Inlet Temperature 2°C

8.Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	3.87	4.30	3.46	2.47	3.39	2.19
4.3	H043-S1H	BBA0055/20	Single	Single	4.79	4.33	4.27	2.47	4.18	2.18
6.2	H062-S1H	BBA0055/21	Single	Single	6.84	4.38	6.03	2.47	5.87	2.17
7	H070-S1H	BBA0055/22	Single	Single	7.66	4.40	6.77	2.50	6.64	2.23
8.5	H085-S1H	BBA0055/23	Single	Single	9.39	4.37	8.16	2.46	7.97	2.19
12.4	H124-T1H	BBA0055/28	Single	Twin	13.68	4.04	12.06	2.28	11.74	2.01
17	H170-T1H	BBA0055/29	Single	Twin	18.78	4.37	16.32	2.46	15.94	2.19

Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	4.16	4.53	3.68	2.58	3.60	2.27
4.3	H043-S1H	BBA0055/20	Single	Single	5.15	4.51	4.55	2.58	4.45	2.27
6.2	H062-S1H	BBA0055/21	Single	Single	7.36	4.57	6.42	2.58	6.26	2.26
7	H070-S1H	BBA0055/22	Single	Single	8.22	4.62	7.19	2.61	7.03	2.32
8.5	H085-S1H	BBA0055/23	Single	Single	10.10	4.59	8.69	2.57	8.45	2.27
12.4	H124-T1H	BBA0055/28	Single	Twin	14.72	4.22	12.84	2.38	12.52	2.09
17	H170-T1H	BBA0055/29	Single	Twin	20.20	4.59	17.38	2.57	16.90	2.27

Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	4.47	4.72	3.92	2.69	3.83	2.36
4.3	H043-S1H	BBA0055/20	Single	Single	5.53	4.72	4.84	2.69	4.73	2.36
6.2	H062-S1H	BBA0055/21	Single	Single	7.91	4.76	6.84	2.70	6.66	2.35
7	H070-S1H	BBA0055/22	Single	Single	8.81	4.85	7.64	2.73	7.45	2.41
8.5	H085-S1H	BBA0055/23	Single	Single	10.80	4.82	9.24	2.69	8.97	2.36
12.4	H124-T1H	BBA0055/28	Single	Twin	15.82	4.40	13.68	2.49	13.32	2.17
17	H170-T1H	BBA0055/29	Single	Twin	21.60	4.82	18.48	2.69	17.94	2.36

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Compact Actual Thermal Outputs and CoPs

Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	4.80	4.93	4.17	2.81	4.07	2.47
4.3	H043-S1H	BBA0055/20	Single	Single	5.94	4.92	5.15	2.80	5.03	2.45
6.2	H062-S1H	BBA0055/21	Single	Single	8.50	4.97	7.28	2.81	7.09	2.45
7	H070-S1H	BBA0055/22	Single	Single	9.44	5.08	8.11	2.84	7.89	2.50
8.5	H085-S1H	BBA0055/23	Single	Single	11.60	5.05	9.83	2.81	9.51	2.46
12.4	H124-T1H	BBA0055/28	Single	Twin	17.00	4.59	14.56	2.60	14.18	2.27
17	H170-T1H	BBA0055/29	Single	Twin	23.20	5.07	19.66	2.81	19.02	2.46

Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		60		65	
					kW	CoP	kW	CoP	kW	CoP
3.5	H035-S1H	BBA0055/19	Single	Single	5.15	5.09	4.43	2.93	4.32	2.56
4.3	H043-S1H	BBA0055/20	Single	Single	6.37	5.11	5.47	2.93	5.34	2.56
6.2	H062-S1H	BBA0055/21	Single	Single	9.13	5.16	7.75	2.93	7.54	2.56
7	H070-S1H	BBA0055/22	Single	Single	10.10	5.33	8.62	2.96	8.35	2.60
8.5	H085-S1H	BBA0055/23	Single	Single	12.45	5.30	10.45	2.93	10.10	2.56
12.4	H124-T1H	BBA0055/28	Single	Twin	18.26	4.77	15.50	2.71	15.08	2.36
17	H170-T1H	BBA0055/29	Single	Twin	24.90	5.32	20.90	2.93	20.20	2.56