

### Evo Heat Pump Actual Thermal Outputs, ErP Data and SCoPs

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							$\eta_{ssee}$	ErP SCoP	$\eta_{ssee}$	ErP SCoP
7	K070-S1H	BBA0055/41	Single	Single	A++	A++	180%	4.69	138%	3.65
9	K090-S1H	BBA0055/42	Single	Single	A++	A++	171%	4.47	127%	3.39
13	K130-S1H	BBA0055/43	Single	Single	A++	A++	164%	4.29	130%	3.46
17	K170-S1H	BBA0055/40	Single	Single	A++	A+	163%	4.26	124%	3.29
15	K150-S3H	BBA0055/39	Three	Single	A++	A++	171%	4.47	135%	3.58

#### ErP data

$\eta_{ssee}$ — seasonal space heating energy efficiency

ErP SCoP—Seasonal COP according to ErP

#### Inlet Temperature 0°C—Thermal Outputs

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	7.72	4.52	7.59	4.27	7.47	4.01	7.34	3.75	7.21	3.49
9	K090-S1H	BBA0055/42	Single	Single	9.60	4.44	9.46	4.19	9.31	3.93	9.17	3.68	9.03	3.43
13	K130-S1H	BBA0055/43	Single	Single	13.53	4.20	13.37	3.97	13.20	3.75	13.04	3.52	12.87	3.28
17	K170-S1H	BBA0055/40	Single	Single	17.9	4.01	17.7	3.76	17.4	3.51	17.2	3.26	16.9	3.00
15	K150-S3H	BBA0055/39	Three	Single	15.5	4.28	15.4	4.06	15.4	3.84	15.3	3.61	15.2	3.39

#### Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	8.23	4.77	8.10	4.50	7.97	4.23	7.83	3.96	7.69	3.68
9	K090-S1H	BBA0055/42	Single	Single	10.23	4.68	10.10	4.42	9.93	4.15	9.78	3.88	9.64	3.62
13	K130-S1H	BBA0055/43	Single	Single	14.44	4.43	14.27	4.19	14.08	3.96	13.91	3.71	13.73	3.46
17	K170-S1H	BBA0055/40	Single	Single	19.10	4.23	18.89	3.97	18.57	3.70	18.35	3.44	18.03	3.17
15	K150-S3H	BBA0055/39	Three	Single	16.54	4.52	16.43	4.28	16.43	4.05	16.33	3.81	16.22	3.58

#### Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	8.84	5.03	8.7	4.75	8.56	4.46	8.41	4.17	8.26	3.88
9	K090-S1H	BBA0055/42	Single	Single	10.99	4.94	10.85	4.66	10.66	4.37	10.5	4.10	10.35	3.82
13	K130-S1H	BBA0055/43	Single	Single	15.51	4.67	15.33	4.42	15.12	4.17	14.94	3.92	14.75	3.65
17	K170-S1H	BBA0055/40	Single	Single	20.51	4.46	20.29	4.18	19.94	3.91	19.71	3.63	19.36	3.34
15	K150-S3H	BBA0055/39	Three	Single	17.76	4.76	17.65	4.52	17.65	4.27	17.54	4.02	17.42	3.77

All MCS SCOP figures quoted are calculated as per EN14511, EN14825, EU Directives and MCS

All MCS SCOP figures quoted above an inlet temperature of 0°C are estimates and should not be used in running cost calculations for MCS



### Evo Heat Pumps—R407C

#### Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	9.45	5.32	9.30	5.03	9.15	4.72	8.99	4.42	8.83	4.11
9	K090-S1H	BBA0055/42	Single	Single	11.75	5.23	11.60	4.93	11.40	4.63	11.23	4.33	11.07	4.04
13	K130-S1H	BBA0055/43	Single	Single	16.58	4.95	16.38	4.67	16.17	4.42	15.97	4.15	15.76	3.86
17	K170-S1H	BBA0055/40	Single	Single	21.93	4.72	21.69	4.43	21.32	4.13	21.07	3.84	20.70	3.53
15	K150-S3H	BBA0055/39	Three	Single	18.99	5.04	18.86	4.78	18.86	4.52	18.75	4.25	18.62	3.99

#### Inlet Temperature 8°C—Thermal Outputs and Cops

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	10.10	5.63	9.94	5.32	9.78	5.00	9.61	4.67	9.44	4.35
9	K090-S1H	BBA0055/42	Single	Single	12.56	5.53	12.40	5.22	12.19	4.90	12.00	4.58	11.83	4.27
13	K130-S1H	BBA0055/43	Single	Single	17.72	5.23	17.51	4.95	17.28	4.67	17.07	4.39	16.85	4.09
17	K170-S1H	BBA0055/40	Single	Single	23.44	5.00	23.18	4.68	22.79	4.37	22.52	4.06	22.13	3.74
15	K150-S3H	BBA0055/39	Three	Single	20.30	5.33	20.16	5.06	20.16	4.78	20.04	4.50	19.91	4.22

#### Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
7	K070-S1H	BBA0055/41	Single	Single	10.80	5.96	10.63	5.63	10.46	5.29	10.27	4.94	10.09	4.60
9	K090-S1H	BBA0055/42	Single	Single	13.42	5.85	13.25	5.52	13.03	5.18	12.83	4.85	12.65	4.52
13	K130-S1H	BBA0055/43	Single	Single	18.95	5.54	18.72	5.23	18.47	4.94	18.25	4.64	18.01	4.32
17	K170-S1H	BBA0055/40	Single	Single	25.06	5.29	24.78	4.96	24.36	4.63	24.08	4.30	23.66	3.95
15	K150-S3H	BBA0055/39	Three	Single	21.70	5.64	21.56	5.35	21.56	5.06	21.43	4.76	21.28	4.47

All MCS SCOP figures quoted are calculated as per EN14511, EN14825, EU Directives and MCS

All MCS SCOP figures quoted above an inlet temperature of 0°C are estimates and should not be used in running cost calculations for MCS



### Compact Actual Thermal Outputs, ErP Data and SCoPs

#### Standard Compact Heat Pumps—R407C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							$\eta_{sshee}$	ErP SCoP	$\eta_{sshee}$	ErP SCoP
16	C160-T1H	BBA0055/07	Single	Twin	A++	A+	152%	3.99	119%	3.18
20	C200-T1H	BBA0055/08	Single	Twin	A+	A+	145%	3.82	118%	3.14
20	C200-T3H	BBA0055/13	Three	Twin	A++	A+	158%	4.15	124%	3.30
24	C240-T1H	BBA0055/09	Single	Twin	A+	A+	147%	3.87	110%	2.94
24	C240-T3H	BBA0055/14	Three	Twin	A+	A+	145%	3.83	117%	3.13
30	C300-T3H	BBA0055/15	Three	Twin	A+	A+	140%	3.69	116%	3.11

#### ErP data

$\eta_{sshee}$ — seasonal space heating energy efficiency

ErP SCoP—Seasonal COP according to ErP

#### Inlet Temperature 0°C—Thermal Outputs and Cops

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	17.6	3.79	17.3	3.59	16.9	3.39	16.6	3.18	16.1	2.98
20	C200-T1H	BBA0055/08	Single	Twin	20.3	3.61	19.9	3.39	19.4	3.18	19.1	2.96	18.4	2.74
20	C200-T3H	BBA0055/13	Three	Twin	20.3	3.94	19.9	3.73	19.4	3.52	19	3.31	18.5	3.09
24	C240-T1H	BBA0055/09	Single	Twin	25.1	3.56	24.6	3.4	24	3.24	23.5	3.07	22.8	2.9
24	C240-T3H	BBA0055/14	Three	Twin	25	3.63	24.5	3.46	23.9	3.28	23.5	3.11	22.7	2.93
30	C300-T3H	BBA0055/15	Three	Twin	29.9	3.49	29.3	3.34	28.7	3.2	28.1	3.06	27.4	2.91

#### Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	18.8	4.00	18.4	3.78	18	3.56	17.6	3.33	17.1	3.11
20	C200-T1H	BBA0055/08	Single	Twin	21.7	3.83	21.2	3.59	20.8	3.36	20.3	3.12	19.5	2.87
20	C200-T3H	BBA0055/13	Three	Twin	21.7	4.17	21.2	3.94	20.8	3.71	20.3	3.48	19.6	3.24
24	C240-T1H	BBA0055/09	Single	Twin	26.8	3.77	26.2	3.59	25.6	3.41	25	3.23	24.2	3.03
24	C240-T3H	BBA0055/14	Three	Twin	26.7	3.84	26.1	3.65	25.6	3.45	25	3.27	24.1	3.06
30	C300-T3H	BBA0055/15	Three	Twin	31.9	3.68	31.2	3.52	30.6	3.37	29.9	3.22	29	3.05

#### Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	20.1	4.24	19.6	4.00	19.2	3.76	18.7	3.51	18	3.26
20	C200-T1H	BBA0055/08	Single	Twin	23.2	4.07	22.7	3.81	22.1	3.55	21.6	3.28	20.7	2.99
20	C200-T3H	BBA0055/13	Three	Twin	23.2	4.45	22.7	4.20	22.1	3.92	21.6	3.66	20.8	3.39
24	C240-T1H	BBA0055/09	Single	Twin	28.6	4.00	27.9	3.80	27.3	3.61	26.6	3.39	25.7	3.17
24	C240-T3H	BBA0055/14	Three	Twin	28.6	4.06	27.9	3.86	27.3	3.64	26.6	3.43	25.6	3.21
30	C300-T3H	BBA0055/15	Three	Twin	34	3.88	33.3	3.75	32.5	3.66	31.8	3.56	30.8	3.19



### Compact Actual Thermal Outputs, ErP Data and SCoPs

#### Standard Compact Heat Pumps—R407C

##### Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	21.5	4.47	21	4.21	20.4	3.97	19.9	3.68	19.1	3.40
20	C200-T1H	BBA0055/08	Single	Twin	24.8	4.30	24.2	4.01	23.5	3.73	22.9	3.44	21.9	3.13
20	C200-T3H	BBA0055/13	Three	Twin	24.9	4.69	24.3	4.43	23.6	4.14	23	3.87	22	3.55
24	C240-T1H	BBA0055/09	Single	Twin	30.5	4.23	29.8	4.02	29	3.80	28.3	3.57	27.3	3.32
24	C240-T3H	BBA0055/14	Three	Twin	30.5	4.28	29.8	4.07	29.1	3.84	28.4	3.63	27.2	3.37
30	C300-T3H	BBA0055/15	Three	Twin	36.3	4.10	35.5	3.91	34.6	3.74	33.8	3.56	32.7	3.34

##### Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	23	4.75	22.4	4.46	21.7	4.19	21.1	3.88	20.2	3.55
20	C200-T1H	BBA0055/08	Single	Twin	26.5	4.56	25.8	4.25	25	3.95	24.3	3.63	23.2	3.29
20	C200-T3H	BBA0055/13	Three	Twin	26.6	4.96	25.9	4.67	25.2	4.37	24.5	4.08	23.4	3.73
24	C240-T1H	BBA0055/09	Single	Twin	32.6	4.48	31.8	4.24	30.9	4.01	30.1	3.75	28.9	3.47
24	C240-T3H	BBA0055/14	Three	Twin	32.6	4.52	31.8	4.30	31	4.04	30.2	3.82	28.8	3.53
30	C300-T3H	BBA0055/15	Three	Twin	38.6	4.30	37.7	4.10	36.8	3.93	35.9	3.74	34.7	3.52

##### Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		50		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
16	C160-T1H	BBA0055/07	Single	Twin	24.6	5.01	23.9	4.71	23.2	4.41	22.5	4.08	21.4	3.72
20	C200-T1H	BBA0055/08	Single	Twin	28.2	4.82	27.4	4.48	26.6	4.15	25.8	3.81	24.6	3.45
20	C200-T3H	BBA0055/13	Three	Twin	28.5	5.27	27.7	4.96	26.8	4.62	26	4.29	24.8	3.91
24	C240-T1H	BBA0055/09	Single	Twin	34.8	4.74	33.8	4.49	32.9	4.22	31.9	3.95	30.6	3.63
24	C240-T3H	BBA0055/14	Three	Twin	34.9	4.79	34	4.54	33	4.27	32.1	4.01	30.6	3.71
30	C300-T3H	BBA0055/15	Three	Twin	41.2	4.52	40.2	4.31	39.2	4.13	38.2	3.92	36.7	3.67

All MCS SCOP figures quoted are calculated as per EN14511, EN14825, EU Directives and MCS

All MCS SCOP figures quoted above an inlet temperature of 0°C are estimates and should not be used in running cost calculations for MCS



### Compact Actual Thermal Outputs, ErP Data and SCoPs

#### High Temperature Compact Heat Pumps—R134a

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @35C	Energy Rating @55C	35		55	
							$\eta_{s\text{shee}}$	ErP SCoP	$\eta_{s\text{shee}}$	ErP SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	A++	A+	151%	3.98	118%	3.14
17	H170-T1H	BBA0055/29	Single	Twin	A++	A+	153%	4.03	123%	3.27

#### ErP data

$\eta_{s\text{shee}}$ — seasonal space heating energy efficiency  
**ErP SCoP**—Seasonal COP

#### Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	12.7	4.16	12.1	3.44	11.6	2.72	11.3	2.36	11.0	2.08
17	H170-T1H	BBA0055/29	Single	Twin	17.5	4.15	16.6	3.43	15.8	2.72	15.3	2.36	15.0	2.10

#### Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	13.7	4.04	13.0	3.34	12.4	2.63	12.1	2.28	11.7	2.01
17	H170-T1H	BBA0055/29	Single	Twin	18.8	4.37	17.8	3.61	16.8	2.84	16.3	2.46	15.9	2.19

#### Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	14.7	4.22	14.0	3.48	13.2	2.75	12.8	2.38	12.5	2.09
17	H170-T1H	BBA0055/29	Single	Twin	20.2	4.59	19.1	3.78	17.9	2.97	17.4	2.57	16.9	2.27

#### Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	15.8	4.40	15.0	3.64	14.1	2.87	13.7	2.49	13.3	2.17
17	H170-T1H	BBA0055/29	Single	Twin	21.6	4.82	20.4	3.97	19.1	3.12	18.5	2.69	17.9	2.36

#### Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	17.0	4.59	16.0	3.79	15.0	3.00	14.6	2.60	14.2	2.27
17	H170-T1H	BBA0055/29	Single	Twin	23.2	5.07	21.8	4.17	20.4	3.26	19.7	2.81	19.0	2.46



## Compact Actual Thermal Outputs, ErP Data and SCoPs

### High Temperature Compact Heat Pumps—R134a

#### Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
12.4	H124-T1H	BBA0055/28	Single	Twin	18.3	4.77	17.2	3.95	16.1	3.12	15.5	2.71	15.1	2.36
17	H170-T1H	BBA0055/29	Single	Twin	24.9	5.32	23.3	4.36	21.7	3.41	20.9	2.93	20.2	2.56

All MCS SCOP figures quoted are calculated as per EN14511, EN14825, EU Directives and MCS

All MCS SCOP figures quoted above an inlet temperature of 0°C are estimates and should not be used in running cost calculations for MCS



### Compact Actual Thermal Outputs, ErP Data and SCoPs

#### Hybrid Compact Heat Pumps—R134a/R407C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							$\eta_{s\text{shee}}$	ErP SCoP	$\eta_{s\text{shee}}$	ErP SCoP
15	M150-T1H	BBA0055/32	Single	Twin	A++	A+	158%	4.14	122%	3.25
21	M210-T1H	BBA0055/33	Single	Twin	A+	A+	149%	3.93	117%	3.13

#### ErP data

$\eta_{s\text{shee}}$ — seasonal space heating energy efficiency  
ErP SCoP—Seasonal COP

#### Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	15	3.94	14.4	3.5	13.87	3.05
21	M210-T1H	BBA0055/33	Single	Twin	21.1	3.73	20.1	3.33	19.33	2.92

All MCS SCOP figures quoted are calculated as per EN14511, EN14825, EU Directives and MCS

#### Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	16.1	4.16	15.3	3.80	14.7	3.27
21	M210-T1H	BBA0055/33	Single	Twin	22.6	3.94	21.5	3.64	20.6	3.13

All MCS SCOP figures quoted above an inlet temperature of 0°C are estimates and should not be used in running cost calculations for MCS

#### Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	17.2	4.34	16.3	3.96	15.7	3.42
21	M210-T1H	BBA0055/33	Single	Twin	24.1	4.14	22.9	3.81	21.8	3.27

#### Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	18.4	4.52	17.5	4.14	16.6	3.57
21	M210-T1H	BBA0055/33	Single	Twin	25.8	4.34	24.7	4.01	23.2	3.44

#### Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	19.7	4.72	18.6	4.32	17.7	3.72
21	M210-T1H	BBA0055/33	Single	Twin	27.6	4.57	26.1	4.21	24.7	3.59

#### Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
15	M150-T1H	BBA0055/32	Single	Twin	21.1	4.90	19.8	4.49	18.8	3.88
21	M210-T1H	BBA0055/33	Single	Twin	29.5	4.79	27.8	4.40	26.3	3.76



## Compact Actual Thermal Outputs, ErP Data and SCoPs

### Shoebox Heat Pumps—R134a

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							$\eta_{sshee}$	ErP SCoP	$\eta_{sshee}$	ErP SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	A+	A+	140%	3.7	113%	3.02
6.0	S6-P0K	BBA0055/35	Single	Twin	A+	A+	130%	3.46	111%	2.97

#### ErP data

$\eta_{sshee}$ — seasonal space heating energy efficiency  
ErP SCoP—Seasonal COP

#### Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	3.03	3.52	2.83	3.19	2.54	2.86	2.35	2.65	2.16	2.44
6.0	S6-P0K	BBA0055/35	Single	Twin	5.86	3.25	5.49	3.01	4.98	2.77	4.56	2.54	4.19	2.32

#### Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	3.26	3.69	3.06	3.36	2.77	3.01	2.6	2.80	2.39	2.61
6.0	S6-P0K	BBA0055/35	Single	Twin	6.33	3.41	5.94	3.17	5.38	2.92	5.05	2.68	4.64	2.48

#### Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	3.49	3.86	3.3	3.51	3.01	3.16	2.84	2.94	2.64	2.76
6.0	S6-P0K	BBA0055/35	Single	Twin	6.77	3.56	6.4	3.31	5.84	3.06	5.51	2.81	5.12	2.62

#### Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	3.74	4.02	3.54	3.67	3.26	3.30	3.34	3.08	3.14	2.88
6.0	S6-P0K	BBA0055/35	Single	Twin	7.26	3.71	6.87	3.46	6.33	3.20	6.48	2.95	6.09	2.74

#### Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	3.99	4.18	3.8	3.88	3.51	3.44	3.34	3.20	3.14	3.00
6.0	S6-P0K	BBA0055/35	Single	Twin	7.74	3.86	7.37	3.65	6.81	3.34	6.48	3.06	6.09	2.85

#### Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		45		55		60		65	
					kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP	kW	MCS SCoP
3.0	S3-P0K	BBA0055/31	Single	Single	4.25	4.33	4.06	3.95	3.78	3.57	3.6	3.33	3.41	3.11
6.0	S6-P0K	BBA0055/35	Single	Twin	8.25	4.00	7.88	3.73	7.34	3.46	6.99	3.18	6.62	2.96

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