



Plantroom Actual Thermal Outputs and COPs

Standard Plantroom Heat Pumps (Heating Only)—R407C

ErP data

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							η_{sshee}	SCoP	η_{sshee}	SCoP
25	P250-H	BBA0055/16	Three	Single	A+	A+	143%	3.78	115%	3.06
30	P300-H	BBA0055/17	Three	Single	A+	A+	147%	3.87	118%	3.15
40	P400-H	BBA0055/18	Three	Single	A+	A+	146%	3.85	119%	3.18
60	P600-H	-	Three	Single	*	*	*	*	*	*
75	P750-H	-	Three	Single	*	*	*	*	*	*

η_{sshee} — seasonal space heating energy efficiency

SCoP—Seasonal COP

* - Units are currently being ErP tested and will be available when complete.

Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	26	4.08	25.5	3.69	24.8	3.32	59	23	2.52
30	P300-H	BBA0055/17	Three	Single	33.1	4.19	32.3	3.79	31.5	3.43	59	29.2	2.62
40	P400-H	BBA0055/18	Three	Single	39	4.17	39	3.91	38	3.54	59	35.4	2.69
60	P600-H	-	Three	Single	63.9	3.98	62.2	3.50	60.7	3.06	52	59	2.55
75	P750-H	-	Three	Single	78.3	4.05	75.8	3.55	73.7	3.13	52	70.2	2.61

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	27.9	4.30	27.2	3.87	26.5	3.48	61	24.1	2.50
30	P300-H	BBA0055/17	Three	Single	35.4	4.37	34.5	3.96	33.7	3.59	61	30.7	2.60
40	P400-H	BBA0055/18	Three	Single	42.7	4.47	41.6	4.06	40.5	3.68	61	37.3	2.69
60	P600-H	-	Three	Single	68.5	4.21	66.5	3.70	64.7	3.24	55	62	2.49
75	P750-H	-	Three	Single	83.2	4.22	81.1	3.75	78.8	3.30	55	73.5	2.53

Maximum flow temperature shown is not for continuous use only intermittent.

All COP figures quoted are calculated as per EN14511.



Plantroom Actual Thermal Outputs and COPs

Standard Plantroom Heat Pumps (Heating only) –R407C

Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	29.8	4.52	29	4.05	28.3	3.65	62	25.4	2.54
30	P300-H	BBA0055/17	Three	Single	37.8	4.55	36.9	4.13	35.9	3.73	62	32.5	2.64
40	P400-H	BBA0055/18	Three	Single	45.6	4.64	44.4	4.24	43.2	3.83	62	39.4	2.73
60	P600-H	-	Three	Single	73.3	4.42	71	3.90	68.9	3.41	57	65.2	2.49
75	P750-H	-	Three	Single	89	4.42	86.7	3.93	84.3	3.48	57	77.4	2.54

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	31.8	4.72	31	4.25	30.1	3.83	62	27	2.65
30	P300-H	BBA0055/17	Three	Single	40.4	4.73	39.4	4.30	38.3	3.92	62	34.5	2.74
40	P400-H	BBA0055/18	Three	Single	48.7	4.79	47.4	4.39	46.1	4.04	62	41.8	2.82
60	P600-H	-	Three	Single	78.4	4.62	75.9	4.11	73.5	3.65	59	68.5	2.49
75	P750-H	-	Three	Single	95.2	4.60	92.6	4.11	90	3.72	59	81.4	2.53

Maximum flow temperature shown is not for continuous use only intermittent.

All COP figures quoted are calculated as per EN14511.



Plantroom Actual Thermal Outputs and COPs

Standard Plantroom Heat Pumps (Heating Only) —R407C

Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	34	5.01	33.1	4.50	32.1	4.02	62	28.6	2.75
30	P300-H	BBA0055/17	Three	Single	43.2	5.00	42	4.52	40.8	4.07	62	36.7	2.84
40	P400-H	BBA0055/18	Three	Single	52	5.04	50.5	4.61	49.1	4.19	62	44.4	2.93
60	P600-H	-	Three	Single	83.9	4.94	81	4.37	78.4	3.84	61	71.8	2.49
75	P750-H	-	Three	Single	102	4.91	99	4.40	96	3.90	61	85.5	2.54

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	P250-H	BBA0055/16	Three	Single	36.3	5.24	35.2	4.70	34.2	4.21	62	30.4	2.86
30	P300-H	BBA0055/17	Three	Single	46.1	5.17	44.8	4.69	43.4	4.24	62	38.9	2.96
40	P400-H	BBA0055/18	Three	Single	55.6	5.20	53.9	4.77	52.3	4.34	62	47.1	3.05
60	P600-H	-	Three	Single	89.6	5.14	86.5	4.58	83.5	4.04	63	75.2	2.48
75	P750-H	-	Three	Single	109	5.08	105.5	4.57	102.5	4.07	63	89.6	2.53

Maximum flow temperature shown is not for continuous use only intermittent.

All COP figures quoted are calculated as per EN14511.



Plantroom Actual Thermal Outputs and COPs

High Temperature Plantroom Heat Pumps (Heating Only)—R314a

ErP data

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
							η_{sshee}	SCoP	η_{sshee}	SCoP
25	PH250-H	BBA0055/34	Three	Single	A++	A+	150%	3.95	125%	3.33

η_{sshee} — seasonal space heating energy efficiency
SCoP—Seasonal COP

Inlet Temperature 0°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	26.8	4.17	25.5	3.72	24.8	3.4	71	22.1	2.19

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 2°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	28.2	4.28	27.7	3.94	26.6	3.56	71	23.5	2.26

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 4°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	30.3	4.49	29.4	4.09	28.6	3.73	71	25	2.34

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 6°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	32.5	4.7	31.5	4.27	30.6	3.91	71	26.5	2.41

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 8°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	34.9	4.98	33.8	4.51	32.8	4.1	71	28.2	2.51

Maximum flow temperature shown is not for continuous use only intermittent.

Inlet Temperature 10°C

Nominal kW rating	Model Number	MCS Accreditation Number	Power Supply (Phases)	Compressor	35		40		45		Max Intermittent flow temperature		
					kW	CoP	kW	CoP	kW	CoP	°C	kW	CoP
25	PH250-H	BBA0055/34	Three	Single	37.4	5.24	36.2	4.71	35.1	4.27	71	30.1	2.61

Maximum flow temperature shown is not for continuous use only intermittent.

All COP figures quoted are calculated as per EN14511.