



Inverter



Refrigerant Gas



Wi-Fi
Included



Wired Controller
Included



			5 kW	7 kW	9 kW
Zasilanie		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Grzanie ²	Capacity	kW	6.50	8.40	10.00
	Rated input	kW	1.22	1.66	2.12
	COP		5.30	5.05	4.70
Grzanie ³	Capacity	kW	6.30	8.20	9.40
	Rated input	kW	1.96	2.60	3.03
	COP		3.20	3.15	3.10
Chłodzenie ⁴	Capacity	kW	6.50	8.30	10.00
	Rated input	kW	1.27	1.71	2.32
	EER		5.10	4.85	4.30
Chłodzenie ⁵	Capacity	kW	5.50	7.40	9.00
	Rated input	kW	1.69	2.34	3.10
	EER		3.25	3.15	2.90
Sezonowa klasa efektywności energetycznej ogrzewania pomieszczenia ⁶	LWT a 35 °C		A+++	A+++	A+++
	LWT a 55 °C		A++	A++	A++
SCOP ⁶	LWT a 35 °C		5.12	5.17	5.12
	LWT a 55 °C		3.59	3.67	3.71
SEER ⁶	LWT a 7 °C		5.09	5.19	5.08
	LWT a 18 °C		7.81	8.09	8.31
Poziom mocy akustycznej ⁷		dB(A)	34	36	38
Outdoor fan	Air flow	m ³ /h	3900	4500	4500
Wymiary (WxHxD)		mm	1040x865x410	1040x865x410	1040x865x410
Packed dimensions (WxHxD)		mm	1190x970x560	1190x970x560	1190x970x560
Net/gross weight		kg	87/103	87/103	87/103
Water piping connections		inch	G1"BSP	G1"BSP	G1"BSP
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	5	5	5
Operating temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43
LWT range	Cooling	°C	5~30	5~30	5~30
	Heating	°C	12~65	12~65	12~65
	DHW	°C	10~60	10~60	10~60
Refrigerant	Type		R32 (675)	R32 (675)	R32 (675)
	Charged volume	kg	1.25	1.25	1.25
Expansion valve			Electronic	Electronic	Electronic
Backup electric heater	Optional	kW	3.00	3.00	3.00

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; (EU) N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/02) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.



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			12 kW	14 kW	16 kW
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Heating ²	Capacity	kW	12.20	14.10	16.00
	Rated input	kW	2.49	3.00	3.55
	COP		4.90	4.70	4.50
Heating ³	Capacity	kW	12.00	14.00	16.00
	Rated input	kW	4.00	4.74	5.61
	COP		3.00	2.95	2.85
Cooling ⁴	Capacity	kW	12.20	13.90	15.40
	Rated input	kW	2.65	3.15	3.66
	EER		4.60	4.40	4.20
Cooling ⁵	Capacity	kW	11.60	13.40	14.00
	Rated input	kW	3.74	4.57	4.82
	EER		3.10	2.93	2.90
Seasonal space heating energy efficiency class ⁶	LWT a 35 °C		A+++	A+++	A+++
	LWT a 55 °C		A++	A++	A++
SCOP ⁶	LWT a 35 °C		5.08	4.89	4.84
	LWT a 55 °C		3.61	3.62	3.59
SEER ⁶	LWT a 7 °C		5.07	5.09	5.11
	LWT a 18 °C		7.79	7.59	7.49
Sound power level ⁷		dB(A)	39	41	43
Outdoor fan	Air flow	m ³ /h	5200	5200	5200
Net dimensions (WxHxD)		mm	1040x865x410	1040x865x410	1040x865x410
Packed dimensions (WxHxD)		mm	1190x970x560	1190x970x560	1190x970x560
Net/gross weight		kg	106/122	106/122	106/122
Water piping connections		inch	1-1/4"BSP	1-1/4"BSP	1-1/4"BSP
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	5	5	5
Operating temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43
LWT range	Cooling	°C	5~30	5~30	5~30
	Heating	°C	12~65	12~65	12~65
	DHW	°C	10~60	10~60	10~60
Refrigerant	Type		R32 (675)	R32 (675)	R32 (675)
	Charged volume	kg	1.8	1.8	1.8
Expansion valve			Electronic	Electronic	Electronic
Backup electric heater	Optional	kW	3.00	3.00	3.00

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; (EU) N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 15°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate condition. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.



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			12 kW	14 kW	16 kW
Zasilanie		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Grzanie ²	Capacity	kW	12.20	14.10	16.00
	Rated input	kW	2.49	3.00	3.55
	COP		4.90	4.70	4.50
Grzanie ³	Capacity	kW	12.00	14.00	16.00
	Rated input	kW	4.00	4.74	5.61
	COP		3.00	2.95	2.85
Chłodzenie ⁴	Capacity	kW	12.20	13.90	15.40
	Rated input	kW	2.65	3.15	3.66
	EER		4.60	4.40	4.20
Chłodzenie ⁵	Capacity	kW	11.60	13.40	14.00
	Rated input	kW	3.74	4.57	4.82
	EER		3.10	2.93	2.90
Sezonowa klasa efektywności energetycznej ogrzewania pomieszczeń ⁶	LWT a 35 °C		A+++	A+++	A+++
	LWT a 55 °C		A++	A++	A++
SCOP ⁶	LWT a 35 °C		5.08	4.89	4.84
	LWT a 55 °C		3.61	3.62	3.59
SEER ⁶	LWT a 7 °C		5.11	5.12	5.14
	LWT a 18 °C		7.86	7.65	7.54
Poziom mocy akustycznej ⁷		dB(A)	45	47	49
Outdoor fan	Air flow	m ³ /h	5200	5200	5200
Wymiary (WxHxD)		mm	1040x865x410	1040x865x410	1040x865x410
Wymiary po spakowaniu (WxHxD)		mm	1190x970x560	1190x970x560	1190x970x560
Waga netto/brutto		kg	120/136	120/136	120/136
Połączenie rurowe		inch	1-1/4"BSP	1-1/4"BSP	1-1/4"BSP
Zawór bezpieczeństwa		MPa	0.3	0.3	0.3
Całkowita objętość wody		L	5	5	5
Operating temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43
LWT range	Cooling	°C	5~30	5~30	5~30
	Heating	°C	12~65	12~65	12~65
	DHW	°C	10~60	10~60	10~60
Czynnik chłodniczy	Type		R32 (675)	R32 (675)	R32 (675)
	Charged volume	kg	1.8	1.8	1.8
Typ zaworu			Elektroniczny	Elektroniczny	Elektroniczny
Wmontowana grzałka elektryczna	Moc	kW	3.00	3.00	3.00

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; (EU) N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.

A++



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			12 kW	14 kW	16 kW
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Heating ²	Capacity	kW	12.30	14.10	16.30
	Rated input	kW	2.56	3.07	3.66
	COP		4.81	4.60	4.45
Heating ³	Capacity	kW	11.90	14.20	16.10
	Rated input	kW	4.28	5.17	5.91
	COP		2.78	2.75	2.73
Cooling ⁴	Capacity	kW	12.20	14.00	15.50
	Rated input	kW	2.55	3.10	3.64
	EER		4.78	4.52	4.26
Cooling ⁵	Capacity	kW	10.90	12.90	13.80
	Rated input	kW	3.74	4.64	5.21
	EER		2.92	2.78	2.65
Seasonal space heating energy efficiency class ⁶	LWT a 35 °C		A++	A++	A++
	LWT a 55 °C		A++	A++	A++
SCOP ⁶	LWT a 35 °C		4.29	4.27	4.30
	LWT a 55 °C		3.23	3.26	3.27
SEER ⁶	LWT a 7 °C		4.85	4.73	4.54
	LWT a 18 °C		7.50	7.16	6.78
Sound power level ⁷		dB(A)	51	53	55
Outdoor fan	Air flow	m ³ /h	6150	6150	6150
Net dimensions (WxHxD)		mm	1404×1414×405	1404×1414×405	1404×1414×405
Packed dimensions (WxHxD)		mm	1430×1475×450	1430×1475×450	1430×1475×450
Net/gross weight		kg	158/178	158/178	158/178
Water piping connections		inch	1-1/4" Male BSP	1-1/4" Male BSP	1-1/4" Male BSP
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	3.2	3.2	3.2
Operating temperature range	Cooling	°C	-5~46	-5~46	-5~46
	Heating	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43
LWT range	Cooling	°C	5~25	5~25	5~25
	Heating	°C	25~60	25~60	25~60
	DHW	°C	40~60	40~60	40~60
Refrigerant	Type		R32	R32	R32
	Charged volume	kg	2.8	2.8	2.8
Expansion valve			Electronic	Electronic	Electronic
Backup electric heater	Optional	kW	3.0	3.0	3.0

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; (EU) N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.

A⁺⁺



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Wi-Fi
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Wired Controller
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			12 kW	14 kW	16 kW
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Heating ²	Capacity	kW	12.30	14.10	16.30
	Rated input	kW	2.54	3.05	3.63
	COP			4.84	4.63
Heating ³	Capacity	kW	11.90	14.20	16.10
	Rated input	kW	4.24	5.10	5.83
	COP			2.81	2.79
Cooling ⁴	Capacity	kW	12.20	14.00	15.50
	Rated input	kW	2.53	3.11	3.63
	EER			4.83	4.50
Cooling ⁵	Capacity	kW	10.90	12.90	13.80
	Rated input	kW	3.72	4.62	5.19
	EER			2.93	2.80
Seasonal space heating energy efficiency class ⁶	LWT a 35 °C		A ⁺⁺	A ⁺⁺	A ⁺⁺
	LWT a 55 °C		A ⁺⁺	A ⁺⁺	A ⁺⁺
SCOP ⁶	LWT a 35 °C		4.29	4.27	4.30
	LWT a 55 °C		3.23	3.26	3.27
SEER ⁶	LWT a 7 °C		4.85	4.73	4.54
	LWT a 18 °C		7.50	7.16	6.78
Sound power level ⁷		dB(A)	57	59	62
Outdoor fan	Air flow	m ³ /h	6150	6150	6150
Net dimensions (WxHxD)		mm	1404×1414×405	1404×1414×405	1404×1414×405
Packed dimensions (WxHxD)		mm	1430×1475×450	1430×1475×450	1430×1475×450
Net/gross weight		kg	172/193	172/193	172/193
Water piping connections		inch	1-1/4" Male BSP	1-1/4" Male BSP	1-1/4" Male BSP
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	3.2	3.2	3.2
Operating temperature range	Cooling	°C	-5~46	-5~46	-5~46
	Heating	°C	-25~35	-25~35	-25~35
	DHW	°C	-25~43	-25~43	-25~43
LWT range	Cooling	°C	5~25	5~25	5~25
	Heating	°C	25~60	25~60	25~60
	DHW	°C	40~60	40~60	40~60
Refrigerant	Type		R32	R32	R32
	Charged volume	kg	2.8	2.8	2.8
Expansion valve			Electronic	Electronic	Electronic
Backup electric heater	Optional	kW	3.0	3.0	3.0

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; (EU) N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate condition⁷) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.



22 kW



30 kW



Inverter



Refrigerant Gas



Wi-Fi
Included



Wired Controller
Included



			22 kW	30 kW
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Heating ²	Capacity	kW	22.0	30.1
	Rated input	kW	5.0	7.70
	COP		4.40	3.91
Heating ³	Capacity	kW	22.0	30.0
	Rated input	kW	8.30	13.04
	COP		2.65	2.30
Cooling ⁴	Capacity	kW	23.0	31.0
	Rated input	kW	5.0	7.75
	EER		4.6	4.00
Cooling ⁵	Capacity	kW	21.0	29.5
	Rated input	kW	7.12	11.57
	EER		2.95	2.55
Seasonal space heating energy efficiency class ⁶	LWT a 35 °C		A+++	A++
	LWT a 55 °C		A++	A+
SCOP ⁶	LWT a 35 °C		4.53	4.19
	LWT a 55 °C		3.22	3.14
SEER ⁶	LWT a 7 °C		4.70	4.49
	LWT a 18 °C		5.67	5.71
Sound power level ⁷		dB(A)	64	66
Net dimensions (WxHxD)		mm	1129×1558×440	1129×1558×440
Packed dimensions (WxHxD)		mm	1220×1735×565	1220×1735×565
Net/gross weight		kg	177 / 206	177 / 206
Water piping connections		inch	1-1/4" BSP	1-1/4" BSP
Safety valve set pressure		MPa	0,3	0,3
Total water volume		m	12	12
Operating temperature range	Cooling	°C	-5 a 46	-5 a 46
	Heating	°C	-25 a 35	-25 a 35
	DHW	°C	-25 a 43	-25 a 43
LWT range	Cooling	°C	5 a 25	5 a 25
	Heating	°C	25 a 60	25 a 60
	DHW	°C	40 a 60	40 a 60
Refrigerant	Type		R32	R32
	Charged volume	kg	5.0	5.0
Expansion valve			Electronic	Electronic
Backup electric heater	Optional	kW	3.0	3.0

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; (EU) N° 811/2013; OJ 2014/C 207/02. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Test standard: EN12102-1