



S-ASX-VP i55 Light Commercial Air-To-Water Heat Pump

20 – 55 kW

Air-to-Water Heat Pump

The S-ASX-VP i55 is robust light commercial air source heat pump designed to offer optimal operating efficiency and low running costs. The unit has an outstanding SCOP of 4.21 at 35°C and can deliver seamless heat power output of between 21kW to 57kW at condition A7W35 due to the seamless operation of the single in-built inverter scroll compressor. At this air temperature the COP varies between 4.91 and 4.05 from minimum to maximum thermal output. The unit is capable of generating up to 65°C outlet flow temperature and can be used to generate useful space heating or as a source for DHW provision. The control system allows the units to be operated in cascade allowing up to 16 units.

The unit is of monobloc design suitable for outdoor design only. Heat energy from the ambient air is obtained from the high density R410A refrigerant circulating inside a bank of copper and aluminium fins and then this energy is passed, after the compression cycle, to the heating circuit through a stainless steel brazed heat exchanger. The circuit is controlled by the standard supplied temperature probes and pressure transducers and is protected by high and low pressure switches. The plate heat exchanger and all hydraulic pipework is thermally insulated to avoid condensation and reduce heat loss.

As standard the unit is supplied without a circulating flow pump although this can be offered as an extra to be supplied loose and installed and wired by others in external pipework. The unit is fitted with vibration dampers and remote interface. Low noise insulation can also be added at an additional cost to further reduce the operating sound level.

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Model			i55		
Efficiency label at 35°C ⁽¹⁾			A++		
Efficiency label at 55°C ⁽¹⁾			A++		
SCOP at 35°C			4.21		
SCOP at 45°C			3.66		
SCOP at 55°C			3.42		
SCOP at 65°C			3.08		
			Min	Nominal	Max
A7W35	Heating capacity	kW	20.90	48.70	56.70
	Power input	kW	4.26	11.00	14.00
	COP		4.91	4.43	4.05
	Water flow rate	l/h	3613	8390	9757
	Pressure drops	kPa	6	29	38
A7W45	Heating capacity	kW	21.20	49.30	57.30
	Power input	kW	5.31	13.70	17.40
	COP		3.99	3.60	3.29
	Water flow rate	l/h	3669	8520	9907
	Pressure drops	kPa	6	29	39
A7W55	Heating capacity	kW	21.5	50	58.2
	Power input	kW	6.38	16.4	20.8
	COP		3.37	3.05	2.8
	Water flow rate	l/h	2343	5440	6326
	Pressure drops	kPa	3	13	17
A7W65	Heating capacity	kW	22.00	51.20	59.50
	Power input	kW	7.88	20.20	25.70
	COP		2.79	2.53	2.32
	Water flow rate	l/h	1925	4471	5199
	Pressure drops	kPa	2	9	12
A2W35	Heating capacity	kW	17.60	41.00	47.80
	Power input	kW	4.27	11.00	14.00
	COP		4.12	3.73	3.41
	Water flow rate	l/h	3048	7079	8232
	Pressure drops	kPa	4	21	28
A2W45	Heating capacity	kW	17.9	41.7	48.5
	Power input	kW	5.32	13.7	17.4
	COP		3.36	3.04	2.79
	Water flow rate	l/h	3108	7217	8393
	Pressure drops	kPa	4	22	29
A2W55	Heating capacity	kW	18.30	42.60	49.50
	Power input	kW	6.40	16.40	20.90
	COP		2.86	2.60	2.37
	Water flow rate	l/h	1994	4630	5384
	Pressure drops	kPa	2	9	12
A2W65	Heating capacity	kW	18.80	43.80	50.90
	Power input	kW	7.90	20.30	25.70
	COP		2.38	2.16	1.98
	Water flow rate	l/h	1647	3826	4449
	Pressure drops	kPa	1	6	9
A-4W35	Heating capacity	kW	16.00	37.20	43.30
	Power input	kW	4.28	11.10	14.00
	COP		3.74	3.35	3.09
	Water flow rate	l/h	2767	6425	7471
	Pressure drops	kPa	4	17	23
A-4W45	Heating capacity	kW	16.30	38.00	44.20
	Power input	kW	5.33	13.70	17.40
	COP		3.06	2.77	2.54
	Water flow rate	l/h	2834	6581	7652
	Pressure drops	kPa	4	18	24
A-4W55	Heating capacity	kW	16.80	39.00	45.40
	Power input	kW	6.41	16.50	20.90
	COP		2.62	2.36	2.17
	Water flow rate	l/h	1826	4242	4932
	Pressure drops	kPa	2	8	10
A-4W65	Heating capacity	kW	17.40	40.30	46.90
	Power input	kW	7.91	20.30	25.80
	COP		2.20	1.99	1.82
	Water flow rate	l/h	1518	3524	4098
	Pressure drops	kPa	1	6	7

A7W65 = source : air in 7°C d.b. 6°C w.b. / plant : water in 55°C out 65°C
A7W55 = source : air in 7°C d.b. 6°C w.b. / plant : water in 47°C out 55°C
A7W45 = source : air in 7°C d.b. 6°C w.b. / plant : water in 40°C out 45°C
A7W35 = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C
A2W65 = source : air in 2°C d.b. 1 °C w.b. / plant : water 55°C out 65°C
A2W55 = source : air in 2°C d.b. 1 °C w.b. / plant : water 47°C out 55°C
A2W45 = source : air in 2°C d.b. 1 °C w.b. / plant water 40°C out 45°C
A2W35 = source : air in 2°C d.b. 1 °C w.b. / plant water 30°C out 35°C
A-4W65 = source : air in -4°C d.b. -5°C w.b. / plant : water in 55°C out 65°C
A-4W55 = source : air in -4°C d.b. -5°C w.b. / plant : water in 47°C out 55°C
A-4W45 = source : air in -4°C d.b. -5°C w.b. / plant : water in 40°C out 45°C
A-4W35 = source : air in -4°C d.b. -5°C w.b. / plant : water in 30°C out 35°C

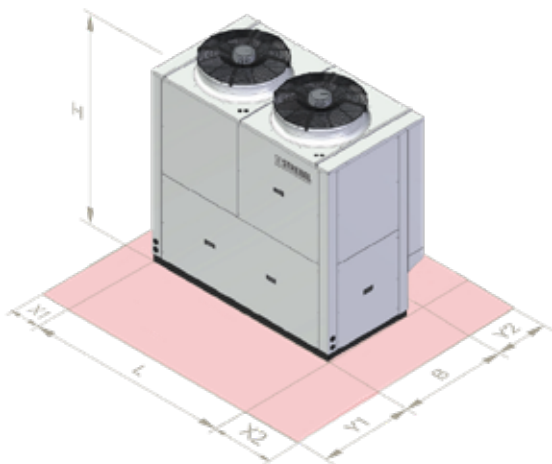
S-ASX-VP i55 Technical Data

Model		i55		
Power supply	V-p-Hz	400 - 3 - 50		
Compressor type		High Temperature Scroll Inverter Brushless with Vapour Injection		
No. compressors/No. refrigerant circuits	Qty	1,1		
Refrigerant		R410A		
Plant heat exchanger type		Stainless steel brazed plates		
Integrated Modulating Pump		Not standard supply (fitted as an optional extra)		
Source heat exchanger		Finner coil copper - hydrophilic aluminium		
Fans		Axial EC		
No. fans	Qty	2		
Hydraulic fittings		1 1/2”M		
Weight	kg	425		
Maximum power input	kW	29		
Low Noise Acoustic Settings		As Standard		Low Noise Option
Sound power level	dB(A)	79		76
Sound pressure at 1 metre	dB(A)		62	59
Sound pressure at 5 metres	dB(A)		52	50
Sound pressure at 10 metres	dB(A)		47	45

The acoustic data performances are referred to units operating in heating mode at nominal conditions A7W35.

The sound power level is measured in accordance to ISO 3744 standard.

The sound pressure level is calculated according to ISO 3744 and is referred to a distance of 1/5/10 metres from the external surface of the unit.



Dimensions		
		i55
L	mm	1730
B	mm	930
H	mm	1830
X1	mm	200
X2	mm	500
Y1	mm	1000
Y2	mm	500

The values are referred to units without options and accessories.

COP (Coefficient Of Performance) = ratio of the total heating capacity to the effective power input of the unit

All COP data in accordance with EN 14511 ⁽¹⁾ In accordance with European regulation 811/2013

The company reserves the right to change the specifications and dimensions without prior notice. E.&O.E.



Customer Support

As with all Strebel products, the S-ASX-VP i55 heat pump range is fully supported by our excellent customer service team and experienced technical engineers. Whether you are looking for product advice or for maintenance and repair, our service team are on hand to support you and can be contacted easily via telephone or online.

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