

VSA

AIR COOLED CONDENSING UNIT
WITH SCROLL OR RECIPROCATING
COMPRESSORS AND AXIAL FANS
FOR OUTDOOR INSTALLATION



VSA Range 19 - 1196 kW

VSA

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation



Scroll compressors (R410A)
Reciprocating compressors (R290 or HFO1234-ze)
AC or EC axial fans both 630 and 800 mm



General Description

The units of the VSA series are assembled on a strong self-supporting metal screwed and welded structure, painted with epoxy powder with anti-rust coating for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant. Prior to delivery every machine is submitted to a performance test, with intervention tests of all the safety systems and components installed. Each unit is available with low-speed fans and compressor sound insulation kit (Low Noise LN version or Super Low Noise LLN) for installation in areas where sound levels must be kept to a minimum.

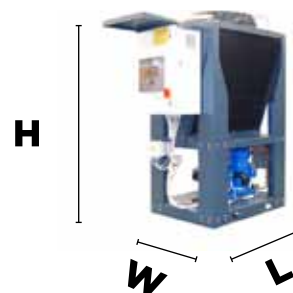
Typical units dimensions

Length: from 1.360 to 12.910 mm

Width: from 900 to 2.250 mm

Height: from 2.130 to 2.560 mm

Operating Weight: from 680 kg to 8.140 kg



Length from from 1.360 to 12.910 mm. The bigger sizes are delivered in two sections.

VSA with AC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 1304C AC-01	VSA 1322C AC-01	VSA 1324C AC-01	VSA 1300A AC-01	VSA 1345A AC-01	VSA 1360A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	60.22	61.6	63.11	63.61	69.59	72.58
Nominal power input	kW	22.56	24.16	24.36	22.05	24.65	27.05
E.E.R.	Coef.	2.67	2.55	2.59	2.88	2.82	2.68
Energy class		D	D	D	C	C	D
E.S.E.E.R.	Coef.	3.56	3.7	3.61	3.83	4.14	3.93
Noise Pressure Level	dB(A)	51	51	51	54	51	55
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	2	2	1	2	2
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	22.56	24.16	24.36	22.05	24.65	27.05
Total running current	A	44.6	45	47.4	38.5	45.1	47.8
Total max current	A	65.4	67.4	69.4	61.7	70.7	71.7
Total starting current	A	143.1	124	145.9	263.7	143.6	132.8
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2500	2500	2560	2560	2560
Shipping weight	kg	910	910	910	890	870	970
Operating weight	kg	910	910	910	890	870	970
(*1) M: Microchannels							

VSA with AC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 1368A AC-01	VSA 1380A AC-01	VSA 1420A AC-01	VSA 1485A AC-01	VSA 1480A AC-01	VSA 1482A AC-01	VSA 1550A AC-01	VSA 1540A AC-01	VSA 1600A AC-01	VSA 1620A AC-01	VSA 1680A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
73.37	74	82.67	89.66	101.03	101.14	110.57	112.49	127.22	126.82	137.79
26.55	27.35	32.45	36.85	35.9	35.7	40.6	40.6	44	44.2	49.3
2.76	2.71	2.55	2.43	2.81	2.83	2.72	2.77	2.89	2.87	2.79
C	C	D	E	C	C	C	C	C	C	C
3.81	3.92	3.42	3.28	4.1	3.75	3.79	3.71	3.91	3.79	3.76
52	55	56	60	57	57	57	57	58	58	58
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	1	2	1	2	2	3	2	2	2	2
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
26.55	27.35	32.45	36.85	35.9	35.7	40.6	40.6	44	44.2	49.3
49.4	48.5	56.1	63	63.5	62.8	72.5	70.9	76.9	78.6	86.9
75.7	75.7	86.7	92.7	99.4	105.4	109.4	114.4	123.4	128.4	137.4
147.9	323.7	163.6	416.7	193.5	170.3	194.3	200.9	206.9	238.6	246.9
2560	2560	2560	2560	2560	2560	2560	2560	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	1050	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
870	900	970	910	1070	1020	1150	1070	1470	1420	1480
870	900	970	910	1070	1020	1150	1070	1470	1420	1480

VSA with AC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 1720A AC-01	VSA 1760A AC-01	VSA 1865A AC-01	VSA 1970A AC-01	VSA 1900A AC-01	VSA 1114A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	147.21	148	164.29	199.32	193.64	225.4
Nominal power input	kW	53.8	54.7	64	68.3	66.6	82.3
E.E.R.	Coef.	2.74	2.71	2.57	2.92	2.91	2.74
Energy class		C	C	D	B	B	C
E.S.E.E.R.	Coef.	4	3.53	3.82	3.91	3.79	3.87
Noise Pressure Level	dB(A)	58	58	60	61	59	60
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	3	2	2	2	3	3
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	53.8	54.7	64	68.3	66.6	82.3
Total running current	A	93.3	97	111	120.7	117.5	147.3
Total max current	A	154.4	151.4	168.4	192.8	188.8	230.8
Total starting current	A	250.9	257	317.5	327.2	306.9	386.5
DIMENSIONS							
Length with cabinet	mm	2410	2410	2410	2410	2410	2410
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1500	1480	1500	1610	1750	1770
Operating weight	kg	1500	1480	1500	1610	1750	1770
(*1) M: Microchannels							

VSA with AC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 1145A AC-01	VSA 2182A AC-01	VSA 2195A AC-01	VSA 2210A AC-01	VSA 2212A AC-01	VSA 2230A AC-01	VSA 2242A AC-01	VSA 2260A AC-01	VSA 2281A AC-01	VSA 2282A AC-01	VSA 2301A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
298.98	72.86	79.12	90.64	92.72	97.5	100.98	107.44	114.42	113.72	124.26
102.5	27.75	30.75	31.3	31.9	34.3	36.3	39.5	41.9	42.9	43.5
2.92	2.63	2.57	2.9	2.91	2.84	2.78	2.72	2.73	2.65	2.86
B	D	D	C	B	C	C	C	C	D	C
4.11	3.75	3.83	4.06	4.33	3.84	4.17	3.97	4.16	3.65	3.92
65	51	52	54	54	54	54	54	54	54	54
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
3	4	4	4	4	4	4	4	4	4	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
102.5	27.75	30.75	31.3	31.9	34.3	36.3	39.5	41.9	42.9	43.5
181.1	51.9	58.1	60.4	64	65	69	74	76.4	79.2	79.4
289.2	79.7	85.7	93.4	95.4	101.4	103.4	111.4	117.4	119.4	125.4
477.7	184.9	216	215.2	226.9	231.4	243.1	260.6	271.2	277.5	280.9
3460	2560	2560	2560	2560	2560	2560	2560	2560	2560	2410
2250	1050	1050	1050	1050	1050	1050	1050	1050	1050	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
2260	980	1000	1040	1060	1050	1060	1060	1070	1070	1420
2260	980	1000	1040	1060	1050	1060	1060	1070	1070	1420

VSA with AC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 2304A AC-01	VSA 2322A AC-01	VSA 2324A AC-01	VSA 2345A AC-01	VSA 2360A AC-01	VSA 2368A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	126.06	131.4	134.14	139.18	145.16	157.56
Nominal power input	kW	43.9	45.7	46.3	49.3	54.1	52.2
E.E.R.	Coef.	2.87	2.88	2.9	2.82	2.68	3.02
Energy class		C	C	C	C	D	B
E.S.E.E.R.	Coef.	4.25	3.98	3.86	4.06	3.83	4.06
Noise Pressure Level	dB(A)	54	54	54	54	58	57
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	4	4	4
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	43.9	45.7	46.3	49.3	54.1	52.2
Total running current	A	82.8	81.6	86.8	90.2	95.6	100.8
Total max current	A	127.4	131.4	135.4	141.4	143.4	158.8
Total starting current	A	301.7	288.1	314.7	325.8	336.6	343.6
DIMENSIONS							
Length with cabinet	mm	2410	2410	2410	2410	2410	2410
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1420	1430	1430	1430	1640	1530
Operating weight	kg	1420	1430	1430	1430	1640	1530
(*1) M: Microchannels							

VSA with AC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 2420A AC-01	VSA 2480A AC-01	VSA 2482A AC-01	VSA 2550A AC-01	VSA 2540A AC-01	VSA 2600A AC-01	VSA 2620A AC-01	VSA 2680A AC-01	VSA 2720A AC-01	VSA 2760A AC-01	VSA 2865A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
181.08	205.02	202.28	221.14	224.98	261.9	260.96	283.8	303.42	305	344.02
61	70.4	71.4	81.2	81.2	88.5	88.5	98.5	106.9	108.9	124.5
2.97	2.91	2.83	2.72	2.77	2.96	2.95	2.88	2.84	2.8	2.76
B	B	C	C	C	B	B	C	C	C	C
4.32	4.11	3.9	4.03	3.94	4.33	4.19	4.26	3.85	4.07	4.15
60	60	60	60	60	61	61	61	62	62	63
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
4	4	4	6	4	4	4	4	6	4	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
61	70.4	71.4	81.2	81.2	88.5	88.5	98.5	106.9	108.9	124.5
110	125.4	125.6	145	141.8	157	160.4	176.4	188.4	196.2	219.8
180.8	198.8	210.8	218.8	228.8	254.2	264.2	282.2	316.2	310.2	344.2
378	439.3	428.7	715.8	492.6	525.3	551.4	603.4	916.7	667.7	767.7
2410	2410	2410	2410	2410	3460	3460	3460	3460	3460	3460
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1730	1830	1730	2000	1830	2380	2290	2390	2440	2400	2440
1730	1830	1730	2000	1830	2380	2290	2390	2440	2400	2440

VSA with AC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 2900A AC-01	VSA 2970A AC-01	VSA 2114A AC-01	VSA 2145A AC-01	VSA 3420A AC-01	VSA 3480A AC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	381.66	398.64	450.8	581.26	271.62	303.09
Nominal power input	kW	135.6	136.6	164.6	208.7	91.5	107.7
E.E.R.	Coef.	2.81	2.92	2.74	2.79	2.97	2.81
Energy class		C	B	C	C	B	C
E.S.E.E.R.	Coef.	4.23	4.04	3.69	3.76	4.07	4.07
Noise Pressure Level	dB(A)	62	64	63	68	62	62
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	6	4	6	6	6	6
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	135.6	136.6	164.6	208.7	91.5	107.7
Total running current	A	238.2	241.4	294.6	365	165	190.5
Total max current	A	377.6	385.6	461.6	571	271.2	298.2
Total starting current	A	1150.7	821.2	1452.1	1800.5	819.6	963.1
DIMENSIONS							
Length with cabinet	mm	4510	4510	4510	5560	3460	3460
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	3190	2920	3230	3780	2440	2600
Operating weight	kg	3190	2920	3230	3780	2440	2600

(*1) M: Microchannels

VSA with AC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 3482A AC-01	VSA 3550A AC-01	VSA 3540A AC-01	VSA 3600A AC-01	VSA 3620A AC-01	VSA 3680A AC-01	VSA 3720A AC-01	VSA 3900A AC-01	VSA 3970A AC-01	VSA 3114A AC-01	VSA 3145A AC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
303.42	331.71	337.47	370.2	369.21	400.74	427.77	580.92	597.96	676.2	896.94
107.1	121.8	121.8	137.1	137.7	153.6	168.3	199.8	204.9	246.9	307.5
2.83	2.72	2.77	2.7	2.68	2.61	2.54	2.91	2.92	2.74	2.92
C	C	C	C	D	D	D	B	B	C	B
3.98	4.04	4.31	3.89	4	4.05	3.66	4.39	4.13	4.27	4.38
62	62	62	62	62	62	63	64	65	65	70
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
6	9	6	6	6	6	9	9	6	9	9
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
107.1	121.8	121.8	137.1	137.7	153.6	168.3	199.8	204.9	246.9	307.5
188.4	217.5	212.7	237.3	242.7	268.2	288.6	352.5	362.1	441.9	543.3
316.2	328.2	343.2	370.2	385.2	412.2	463.2	566.4	578.4	692.4	867.6
944.4	1646.9	1081.5	1212.7	1251.5	1387.5	2236.5	2606.6	1807.6	3348.3	4032
3460	3460	3460	3460	3460	3460	3460	6610	6610	6610	9760
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
2440	2840	2600	2750	2620	2770	2840	4630	4220	4690	6180
2440	2840	2600	2750	2620	2770	2840	4630	4220	4690	6180

VSA with AC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 4720A AC-01	VSA 4900A AC-01	VSA 4114A AC-01	VSA 4145A AC-01		
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A		
Total cooling capacity	kW	606.84	774.56	901.6	1195.92		
Nominal power input	kW	213.8	266.4	329.2	410		
E.E.R.	Coef.	2.84	2.91	2.74	2.92		
Energy class		C	B	C	B		
E.S.E.E.R.	Coef.	4.37	4.59	4.23	4.4		
Noise Pressure Level	dB(A)	65	65	66	71		
Distance	m	10	10	10	10		
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll		
Compressors number	n°	12	12	12	12		
Evaporation temp.	°C	1.5	1.5	1.5	1.5		
Ambient temp.	°C	35	35	35	35		
Condenser coil type (*1)	Type	M	M	M	M		
Evaporator type (*2)	Type	-	-	-	-		
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50		
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50		
Total power input	kW	213.8	266.4	329.2	410		
Total running current	A	376.8	470	589.2	724.4		
Total max current	A	632.4	755.2	923.2	1156.8		
Total starting current	A	3801.8	4702.4	6048.4	7273.7		
DIMENSIONS							
Length with cabinet	mm	6610	8710	8710	12910		
Width	mm	2250	2250	2250	2250		
Height	mm	2560	2560	2560	2560		
Shipping weight	kg	4570	6070	6150	8140		
Operating weight	kg	4570	6070	6150	8140		

(*1) M: Microchannels

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 1090C EC-01	VSA 1105C EC-01	VSA 1120C EC-01	VSA 1140C EC-01	VSA 1161C EC-01	VSA 1184C EC-01	VSA 1182C EC-01	VSA 1195C EC-01	VSA 1210C EC-01	VSA 1212C EC-01	VSA 1230C EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
22.88	25.99	30.24	32.85	36.69	36.43	39.56	45.32	45.76	48.75	344.02
8.19	8.89	10.29	11.49	13.39	13.99	15.49	15.88	16.48	17.38	124.5
2.79	2.92	2.94	2.86	2.74	2.6	2.55	2.85	2.78	2.8	2.76
C	B	B	C	C	D	D	C	C	C	C
3.83	4.11	3.81	4.14	3.6	3.6	3.51	4.04	3.98	3.77	4.15
48	48	48	49	49	49	50	51	51	51	63
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
1	1	1	1	1	2	2	2	2	2	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
8.19	8.89	10.29	11.49	13.39	13.99	15.49	15.88	16.48	17.38	124.5
15.9	16.6	18.8	20.2	24.5	25.7	28.8	29.7	31.9	32	219.8
23.6	25.6	29.6	32.6	37.6	39.6	42.6	46.2	47.2	50.2	344.2
143.6	143.6	148.6	159.6	198.6	74.7	99.8	100.7	102.9	105.5	767.7
1440	2560	2560	2560	2560	2560	2560	2560	2560	2560	3460
900	1050	1050	1050	1050	1050	1050	1050	1050	1050	2250
2130	2500	2500	2500	2500	2500	2500	2500	2500	2500	2560
690	770	770	780	780	830	840	890	890	890	2440
690	770	770	780	780	830	840	890	890	890	2440

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 1242C EC-01	VSA 1240A EC-01	VSA 1260C EC-01	VSA 1281C EC-01	VSA 1282C EC-01	VSA 1301C EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	51.24	50.57	54.52	57.21	57.71	63.03
Nominal power input	kW	18.08	17.85	19.68	21.18	21.28	21.58
E.E.R.	Coef.	2.83	2.83	2.77	2.7	2.71	2.92
Energy class		C	C	C	C	C	B
E.S.E.E.R.	Coef.	4.06	4.07	3.73	3.97	3.87	3.81
Noise Pressure Level	dB(A)	51	54	51	52	51	52
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	1	2	2	2	2
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	18.08	17.85	19.68	21.18	21.28	21.58
Total running current	A	33.6	30.5	36.1	37.7	38.6	38.7
Total max current	A	51.2	51.8	55.2	58.2	59.2	62.2
Total starting current	A	104.6	217.8	109.6	116.7	112.1	117.7
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2560	2500	2500	2500	2500
Shipping weight	kg	890	830	900	900	900	910
Operating weight	kg	890	830	900	900	900	910

(*1) M: Microchannels

VSA with EC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 1304C EC-01	VSA 1322C EC-01	VSA 1324C EC-01	VSA 1300A EC-01	VSA 1345A EC-01	VSA 1360A EC-01	VSA 1368A EC-01	VSA 1380A EC-01	VSA 1420A EC-01	VSA 1485A EC-01	VSA 1480A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
63.03	64.7	66.1	63.61	69.59	72.58	73.37	74	82.67	89.66	101.03
22.18	23.48	23.78	22.05	24.65	27.05	26.55	27.35	32.45	36.85	35.9
2.84	2.76	2.78	2.88	2.82	2.68	2.76	2.71	2.55	2.43	2.81
C	C	C	C	C	D	C	C	D	E	C
3.88	3.92	3.64	4.2	3.73	3.7	4.03	3.69	3.81	3.63	3.65
52	52	52	54	51	55	52	55	56	60	57
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	2	2	1	2	2	2	1	2	1	2
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
22.18	23.48	23.78	22.05	24.65	27.05	26.55	27.35	32.45	36.85	35.9
40.9	40.9	43.5	37.6	44.2	46.9	48.5	47.6	55.2	62.1	61.7
63.2	65.2	67.2	60.8	69.8	70.8	74.8	74.8	85.8	91.8	97.6
139.4	119.9	142	262.8	142.7	131.9	147	322.8	162.7	415.8	191.7
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
2500	2500	2500	2560	2560	2560	2560	2560	2560	2560	2560
910	910	910	890	870	970	870	900	970	910	1070
910	910	910	890	870	970	870	900	970	910	1070

VSA with EC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 1482A EC-01	VSA 1550A EC-01	VSA 1540A EC-01	VSA 1600A EC-01	VSA 1620A EC-01	VSA 1680A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	101.14	110.57	112.49	127.22	126.82	137.79
Nominal power input	kW	35.7	40.6	40.6	44	44.2	49.3
E.E.R.	Coef.	2.83	2.72	2.77	2.89	2.87	2.79
Energy class		C	C	C	C	C	C
E.S.E.E.R.	Coef.	4.01	3.83	4.01	3.93	3.93	3.96
Noise Pressure Level	dB(A)	57	57	57	58	58	58
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	2	3	2	2	2	2
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	35.7	40.6	40.6	44	44.2	49.3
Total running current	A	61	70.7	69.1	75.1	76.8	85.1
Total max current	A	103.6	107.6	112.6	121.6	126.6	135.6
Total starting current	A	168.5	192.5	199.1	205.1	236.8	245.1
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2410	2410	2410
Width	mm	1050	1050	1050	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1020	1150	1070	1470	1420	1480
Operating weight	kg	1020	1150	1070	1470	1420	1480
(*1) M: Microchannels							

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 1720A EC-01	VSA 1760A EC-01	VSA 1865A EC-01	VSA 1970A EC-01	VSA 1900A EC-01	VSA 1114A EC-01	VSA 1145A EC-01	VSA 2182A EC-01	VSA 2195A EC-01	VSA 2210A EC-01	VSA 2212A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
147.21	148	164.29	199.32	193.64	225.4	298.98	72.86	79.12	90.64	92.72
53.8	54.7	64	68.3	66.6	82.3	102.5	27.75	30.75	31.3	31.9
2.74	2.71	2.57	2.92	2.91	2.74	2.92	2.63	2.57	2.9	2.91
C	C	D	B	B	C	B	D	D	C	B
3.91	3.93	3.41	4.03	3.85	3.6	4	4	3.97	4.23	3.86
58	58	60	61	59	60	65	51	52	54	54
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
3	2	2	2	3	3	3	4	4	4	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
53.8	54.7	64	68.3	66.6	82.3	102.5	27.75	30.75	31.3	31.9
91.5	95.2	109.2	117.1	113.9	143.7	175.7	51	57.2	58.6	62.2
152.6	149.6	166.6	189.2	185.2	227.2	283.8	78.8	84.8	91.6	93.6
249.1	255.2	315.7	323.6	303.3	382.9	472.3	184	215.1	213.4	225.1
2410	2410	2410	2410	2410	2410	3460	2560	2560	2560	2560
2250	2250	2250	2250	2250	2250	2250	1050	1050	1050	1050
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1500	1480	1500	1610	1750	1770	2260	980	1000	1040	1060
1500	1480	1500	1610	1750	1770	2260	980	1000	1040	1060

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 2230A EC-01	VSA 2242A EC-01	VSA 2260A EC-01	VSA 2281A EC-01	VSA 2282A EC-01	VSA 2301A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	97.5	100.98	107.44	114.42	113.72	124.26
Nominal power input	kW	34.3	36.3	39.5	41.9	42.9	43.5
E.E.R.	Coef.	2.84	2.78	2.72	2.73	2.65	2.86
Energy class		C	C	C	C	D	C
E.S.E.E.R.	Coef.	4.12	3.8	4.15	3.91	4.01	3.97
Noise Pressure Level	dB(A)	54	54	54	54	54	54
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	4	4	4
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	34.3	36.3	39.5	41.9	42.9	43.5
Total running current	A	63.2	67.2	72.2	74.6	77.4	77.6
Total max current	A	99.6	101.6	109.6	115.6	117.6	123.6
Total starting current	A	229.6	241.3	258.8	269.4	275.7	279.1
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2410
Width	mm	1050	1050	1050	1050	1050	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	1050	1060	1060	1070	1070	1420
Operating weight	kg	1050	1060	1060	1070	1070	1420

(*1) M: Microchannels

VSA with EC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 2304A EC-01	VSA 2322A EC-01	VSA 2324A EC-01	VSA 2345A EC-01	VSA 2360A EC-01	VSA 2368A EC-01	VSA 2420A EC-01	VSA 2480A EC-01	VSA 2482A EC-01	VSA 2550A EC-01	VSA 2540A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
126.06	131.4	134.14	139.18	145.16	157.56	181.08	205.02	202.28	221.14	224.98
43.9	45.7	46.3	49.3	54.1	52.2	61	70.4	71.4	81.2	81.2
2.87	2.88	2.9	2.82	2.68	3.02	2.97	2.91	2.83	2.72	2.77
C	C	C	C	D	B	B	B	C	C	C
3.91	3.88	4.14	4.14	3.88	3.99	4.21	3.87	3.89	3.76	3.82
54	54	54	54	58	57	60	60	60	60	60
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
4	4	4	4	4	4	4	4	4	6	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
43.9	45.7	46.3	49.3	54.1	52.2	61	70.4	71.4	81.2	81.2
81	79.8	85	88.4	93.8	97.2	106.4	121.8	122	141.4	138.2
125.6	129.6	133.6	139.6	141.6	155.2	177.2	195.2	207.2	215.2	225.2
299.9	286.3	312.9	324	334.8	340	374.4	435.7	425.1	712.2	489
2410	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1420	1430	1430	1430	1640	1530	1730	1830	1730	2000	1830
1420	1430	1430	1430	1640	1530	1730	1830	1730	2000	1830

VSA with EC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 2600A EC-01	VSA 2620A EC-01	VSA 2680A EC-01	VSA 2720A EC-01	VSA 2760A EC-01	VSA 2865A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	261.9	260.96	283.8	303.42	305	344.02
Nominal power input	kW	88.5	88.5	98.5	106.9	108.9	124.5
E.E.R.	Coef.	2.96	2.95	2.88	2.84	2.8	2.76
Energy class		B	B	C	C	C	C
E.S.E.E.R.	Coef.	4.22	3.99	4.2	4.05	4.08	4.1
Noise Pressure Level	dB(A)	61	61	61	62	62	63
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	4	4	4	6	4	4
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	88.5	88.5	98.5	106.9	108.9	124.5
Total running current	A	151.6	155	171	183	190.8	214.4
Total max current	A	248.8	258.8	276.8	310.8	304.8	338.8
Total starting current	A	519.9	546	598	911.3	662.3	762.3
DIMENSIONS							
Length with cabinet	mm	3460	3460	3460	3460	3460	3460
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	2380	2290	2390	2440	2400	2440
Operating weight	kg	2380	2290	2390	2440	2400	2440
(*1) M: Microchannels							

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 2900A EC-01	VSA 2970A EC-01	VSA 2114A EC-01	VSA 2145A EC-01	VSA 3420A EC-01	VSA 3480A EC-01	VSA 3482A EC-01	VSA 3550A EC-01	VSA 3540A EC-01	VSA 3600A EC-01	VSA 3620A EC-01
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
381.66	398.64	450.8	581.26	271.62	303.09	303.42	331.71	337.47	370.2	369.21
135.6	136.6	164.6	208.7	91.5	107.7	107.1	121.8	121.8	137.1	137.7
2.81	2.92	2.74	2.79	2.97	2.81	2.83	2.72	2.77	2.7	2.68
C	B	C	C	B	C	C	C	C	C	D
4.08	4	4.12	3.74	4.11	4.24	4.11	4.21	4.26	4.24	3.79
62	64	63	68	62	62	62	62	62	62	62
10	10	10	10	10	10	10	10	10	10	10
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
6	4	6	6	6	6	6	9	6	6	6
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
135.6	136.6	164.6	208.7	91.5	107.7	107.1	121.8	121.8	137.1	137.7
231	234.2	287.4	356	159.6	185.1	183	212.1	207.3	231.9	237.3
370.4	378.4	454.4	562	265.8	292.8	310.8	322.8	337.8	364.8	379.8
1143.5	814	1444.9	1791.5	814.2	957.7	939	1641.5	1076.1	1207.3	1246.1
4510	4510	4510	5560	3460	3460	3460	3460	3460	3460	3460
2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
3190	2920	3230	3780	2440	2600	2440	2840	2600	2750	2620
3190	2920	3230	3780	2440	2600	2440	2840	2600	2750	2620

VSA with EC fans

R410A

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

Energymiser		VSA 3680A EC-01	VSA 3720A EC-01	VSA 3900A EC-01	VSA 3970A EC-01	VSA 3114A EC-01	VSA 3145A EC-01
CHILLER PERFORMANCE							
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Total cooling capacity	kW	400.74	427.77	580.92	597.96	676.2	896.94
Nominal power input	kW	153.6	168.3	199.8	204.9	246.9	307.5
E.E.R.	Coef.	2.61	2.54	2.91	2.92	2.74	2.92
Energy class		D	D	B	B	C	B
E.S.E.E.R.	Coef.	4.17	3.88	4.07	4.12	4.15	4.36
Noise Pressure Level	dB(A)	62	63	64	65	65	70
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressors number	n°	6	9	9	6	9	9
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	153.6	168.3	199.8	204.9	246.9	307.5
Total running current	A	262.8	283.2	341.7	351.3	431.1	527.1
Total max current	A	406.8	457.8	555.6	567.6	681.6	851.4
Total starting current	A	1382.1	2231.1	2595.8	1796.8	3337.5	4015.8
DIMENSIONS							
Length with cabinet	mm	3460	3460	6610	6610	6610	9760
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	2770	2840	4630	4220	4690	6180
Operating weight	kg	2770	2840	4630	4220	4690	6180
(*1) M: Microchannels							

VSA with EC fans

Air cooled condensing unit with scroll or reciprocating compressors and axial fans for outdoor installation

Motocondensanti con condensazione ad aria con compressori scroll o a pistoni e ventilatori assiali per installazione esterna

VSA 4720A EC-01	VSA 4900A EC-01	VSA 4114A EC-01	VSA 4145A EC-01							
R410A	R410A	R410A	R410A							
606.84	774.56	901.6	1195.92							
213.8	266.4	329.2	410							
2.84	2.91	2.74	2.92							
C	B	C	B							
4.44	4.54	4.42	4.48							
65	65	66	71							
10	10	10	10							
Scroll	Scroll	Scroll	Scroll							
12	12	12	12							
1.5	1.5	1.5	1.5							
35	35	35	35							
M	M	M	M							
-	-	-	-							
400/3/50	400/3/50	400/3/50	400/3/50							
230/1/50	230/1/50	230/1/50	230/1/50							
213.8	266.4	329.2	410							
366	455.6	574.8	702.8							
621.6	740.8	908.8	1135.2							
3791	4688	6034	7252.1							
6610	8710	8710	12910							
2250	2250	2250	2250							
2560	2560	2560	2560							
4570	6070	6150	8140							
4570	6070	6150	8140							

VSA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

Greenmiser		VSA F1Q7C EC-290	VSA F1S7C EC-290	VSA F1S12C EC- 290	VSA F1S15C EC- 290	VSA F1S20C EC-290	VSA F1V25C EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	20.48	24.19	29.33	35.01	39.81	51.94
Nominal power input	kW	6.89	7.79	9.69	11.89	13.19	16.58
E.E.R.	Coef.	2.97	3.11	3.03	2.94	3.02	3.13
Energy class		B	A	B	B	B	A
E.S.E.E.R.	Coef.	4.11	3.99	3.97	3.94	3.87	4.4
Noise Pressure Level	dB(A)	48	49	49	49	50	52
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	1	1	1	1	1	1
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	6.89	7.79	9.69	11.89	13.19	16.58
Total running current	A	12.6	14.3	17.9	21.9	24.5	30.5
Total max current	A	19	20.5	23.2	30.3	37.5	40.1
Total starting current	A	88.9	48.6	60.7	76.4	89.1	121.5
DIMENSIONS							
Length with cabinet	mm	1360	1360	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2130	2130	2500	2500	2500	2500
Shipping weight	kg	710	750	840	840	850	960
Operating weight	kg	710	750	840	840	850	960

(*1) M: Microchannels

VSA with EC fans

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
 Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

VSA F1V30C EC-290	VSA F1V32C EC-290	VSA F1Z35C EC-290	VSA F1Z40A EC-290	VSA F1W40A EC-290	VSA F1Z50A EC-290	VSA F1W50A EC-290	VSA F1W60A EC-290	VSA F1W70A EC-290	VSA F1W75A EC-290	VSA F1W80A EC-290
R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
59.98	62.18	69.99	85.45	92.14	98.75	105.91	119.99	129.57	150.3	158.03
18.78	20.98	23.48	28.6	31.8	34	39.6	43.9	47.8	52.9	55.3
3.19	2.96	2.98	2.99	2.9	2.9	2.67	2.73	2.71	2.84	2.86
A	B	B	B	C	B	D	C	C	C	C
4.36	4.16	3.81	4.26	3.73	4.18	3.8	3.73	3.69	3.98	4.18
54	54	54	55	56	55	57	59	59	61	62
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
1	1	1	1	1	1	1	1	1	1	1
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
18.78	20.98	23.48	28.6	31.8	34	39.6	43.9	47.8	52.9	55.3
34.7	38.9	43.4	52.6	58.7	62.8	73.3	81.3	88.7	97.3	101.8
47.2	46	57.1	66.6	78.1	80.2	94.9	105.4	108.9	119.1	122.4
135.8	147.7	147.7	164.8	220.6	194.4	263.6	331.6	395.6	428.2	428.2
2560	2560	2560	2560	2560	2560	2560	2410	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	2250	2250	2250	2250
2500	2500	2500	2560	2560	2560	2560	2560	2560	2560	2560
960	970	1010	1020	1090	1030	1100	1460	1470	1570	1570
960	970	1010	1020	1090	1030	1100	1460	1470	1570	1570

VSA with EC fans

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

Greenmiser		VSA F2Q7C EC-290	VSA F2S7C EC-290	VSA F2S12C EC- 290	VSA F2S15C EC- 290	VSA F2S20C EC-290	VSA F2V20A EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	40.64	48.38	59.04	70.02	78.4	86.02
Nominal power input	kW	13.78	15.58	19.18	23.78	26.78	28.1
E.E.R.	Coef.	2.95	3.11	3.08	2.94	2.93	3.06
Energy class		B	A	B	B	B	B
E.S.E.E.R.	Coef.	4.02	4.49	4.1	4.12	4.21	4.09
Noise Pressure Level	dB(A)	51	52	52	52	53	55
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	2	2	2	2	2	2
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	13.78	15.58	19.18	23.78	26.78	28.1
Total running current	A	25.4	28.6	35.6	43.8	49.8	51.8
Total max current	A	38	41	46.4	60.6	75	66
Total starting current	A	80.2	64.8	81.4	101.5	116.9	128.2
DIMENSIONS							
Length with cabinet	mm	2560	2560	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2500	2500	2500	2500	2500	2560
Shipping weight	kg	930	1020	1030	1050	1060	1160
Operating weight	kg	930	1020	1030	1050	1060	1160
(*1) M: Microchannels							

VSA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

VSA F2V30A EC-290	VSA F2V32A EC-290	VSA F2Z35A EC-290	VSA F2Z40A EC-290	VSA F2W40A EC-290	VSA F2Z50A EC-290	VSA F2W50A EC-290	VSA F2W60A EC-290	VSA F2W70A EC-290	VSA F2W75A EC-290	VSA F2W80A EC-290
R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
116.16	121.24	139.24	170.9	184.28	198.58	211.82	243.78	264.52	293.98	308.12
38.5	42.9	46.7	57.2	63.6	67.6	79.2	89.1	96.7	104.9	109.9
3.02	2.83	2.98	2.99	2.9	2.94	2.67	2.74	2.74	2.8	2.8
B	C	B	B	C	B	D	C	C	C	C
4.04	4.2	4.16	4.38	4.2	3.97	4.07	3.84	4	3.99	4.23
56	56	56	58	59	58	60	63	63	64	65
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
2	2	2	2	2	2	2	2	2	2	2
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
38.5	42.9	46.7	57.2	63.6	67.6	79.2	89.1	96.7	104.9	109.9
71	79.6	86.6	105.2	117.4	124.8	146.6	164.2	178.2	193.6	203
93.6	91.2	113.4	133.2	156.2	160.4	189.8	216.4	223.4	232.6	239.2
170	188.9	199.4	231.8	278	276	343.3	400.9	453.9	490.5	504.6
2560	2560	2410	2410	2410	2410	2410	3460	3460	3460	3460
1050	1050	2250	2250	2250	2250	2250	2250	2250	2250	2250
2560	2560	2560	2560	2560	2560	2560	2560	2560	2560	2560
1190	1200	1610	1750	1870	1760	1900	2360	2390	2390	2390
1190	1200	1610	1750	1870	1760	1900	2360	2390	2390	2390

VSA with EC fans

R290

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

Greenmiser		VSA F4V20A EC-290	VSA F4V30A EC-290	VSA F4V32A EC-290	VSA F4Z35A EC-290	VSA F4Z40A EC-290	VSA F4W40A EC-290
CHILLER PERFORMANCE							
Refrigerant		R290	R290	R290	R290	R290	R290
Total cooling capacity	kW	172.04	232.32	247.48	278.48	341.8	368.56
Nominal power input	kW	56.2	77	83.8	93.4	114.4	127.2
E.E.R.	Coef.	3.06	3.02	2.95	2.98	2.99	2.9
Energy class		B	B	B	B	B	C
E.S.E.E.R.	Coef.	4.6	4.53	4.55	4.52	4.57	4.32
Noise Pressure Level	dB(A)	58	59	59	59	61	62
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	4	4	4	4	4	4
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	56.2	77	83.8	93.4	114.4	127.2
Total running current	A	103.6	142	155.2	173.2	210.4	234.8
Total max current	A	132	187.2	182.4	226.8	266.4	312.4
Total starting current	A	384.4	534.9	587.3	654.8	767.2	872.7
DIMENSIONS							
Length with cabinet	mm	2410	2410	4510	4510	4510	4510
Width	mm	2250	2250	2250	2250	2250	2250
Height	mm	2560	2560	2560	2560	2560	2560
Shipping weight	kg	2010	2070	2780	2930	3190	3440
Operating weight	kg	2010	2070	2780	2930	3190	3440

(*1) M: Microchannels

VSA with EC fans

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
 Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

VSA F4Z50A EC-290	VSA F4W50A EC-290	VSA F4W60A EC-290	VSA F4W70A EC-290	VSA F4W75A EC-290	VSA F4W80A EC-290					
R290	R290	R290	R290	R290	R290					
397.16	423.64	489.52	529.04	585.32	616.24					
135.2	158.4	177	193.4	210.6	219.8					
2.94	2.67	2.77	2.74	2.78	2.8					
B	D	C	C	C	C					
4.6	3.91	4.06	4.17	4.42	4.41					
61	63	66	66	67	68					
10	10	10	10	10	10					
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.					
4	4	4	4	4	4					
1.5	1.5	1.5	1.5	1.5	1.5					
35	35	35	35	35	35					
M	M	M	M	M	M					
-	-	-	-	-	-					
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50					
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50					
135.2	158.4	177	193.4	210.6	219.8					
249.6	293.2	326.4	356.4	388.8	406					
320.8	379.6	432.8	446.8	465.2	478.4					
921.6	1102.4	1213.1	1341.6	1469.9	1534.4					
4510	4510	6610	6610	6610	6610					
2250	2250	2250	2250	2250	2250					
2560	2560	2560	2560	2560	2560					
3210	3490	4410	4470	4470	4470					
3210	3490	4410	4470	4470	4470					

VSA with EC fans

Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

Greenmiser		VSA F1S10C EC- ZE	VSA F1S12C EC- ZE	VSA F1V15C EC- ZE	VSA F1V20C EC-ZE	VSA F1V25C EC-ZE	VSA F1Z30C EC-ZE
CHILLER PERFORMANCE							
Refrigerant		HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE
Total cooling capacity	kW	20.96	23.16	28.8	31.96	39.97	49.22
Nominal power input	kW	6.89	8.29	9.39	10.79	12.99	15.48
E.E.R.	Coef.	3.04	2.79	3.07	2.96	3.08	3.18
Energy class		B	C	B	B	B	A
E.S.E.E.R.	Coef.	3.92	3.69	3.91	4.05	3.93	4.03
Noise Pressure Level	dB(A)	49	50	50	52	53	54
Distance	m	10	10	10	10	10	10
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
Compressors number	n°	1	1	1	1	1	1
Evaporation temp.	°C	1.5	1.5	1.5	1.5	1.5	1.5
Ambient temp.	°C	35	35	35	35	35	35
Condenser coil type (*1)	Type	M	M	M	M	M	M
Evaporator type (*2)	Type	-	-	-	-	-	-
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Total power input	kW	6.89	8.29	9.39	10.79	12.99	15.48
Total running current	A	12.6	15.2	17.4	19.9	24	28.4
Total max current	A	16.3	17.7	21.8	28.8	31.5	37
Total starting current	A	61.1	61.1	61.1	91.5	124.3	125.9
DIMENSIONS							
Length with cabinet	mm	1360	1360	2560	2560	2560	2560
Width	mm	1050	1050	1050	1050	1050	1050
Height	mm	2130	2130	2500	2500	2500	2500
Shipping weight	kg	750	770	900	910	940	1010
Operating weight	kg	750	770	900	910	940	1010
(*1) M: Microchannels							

VSA with EC fans



Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
 Chiller condensato ad aria con compressori scroll o a piston, ventilatori assiali e Free Cooling per installazione esterna

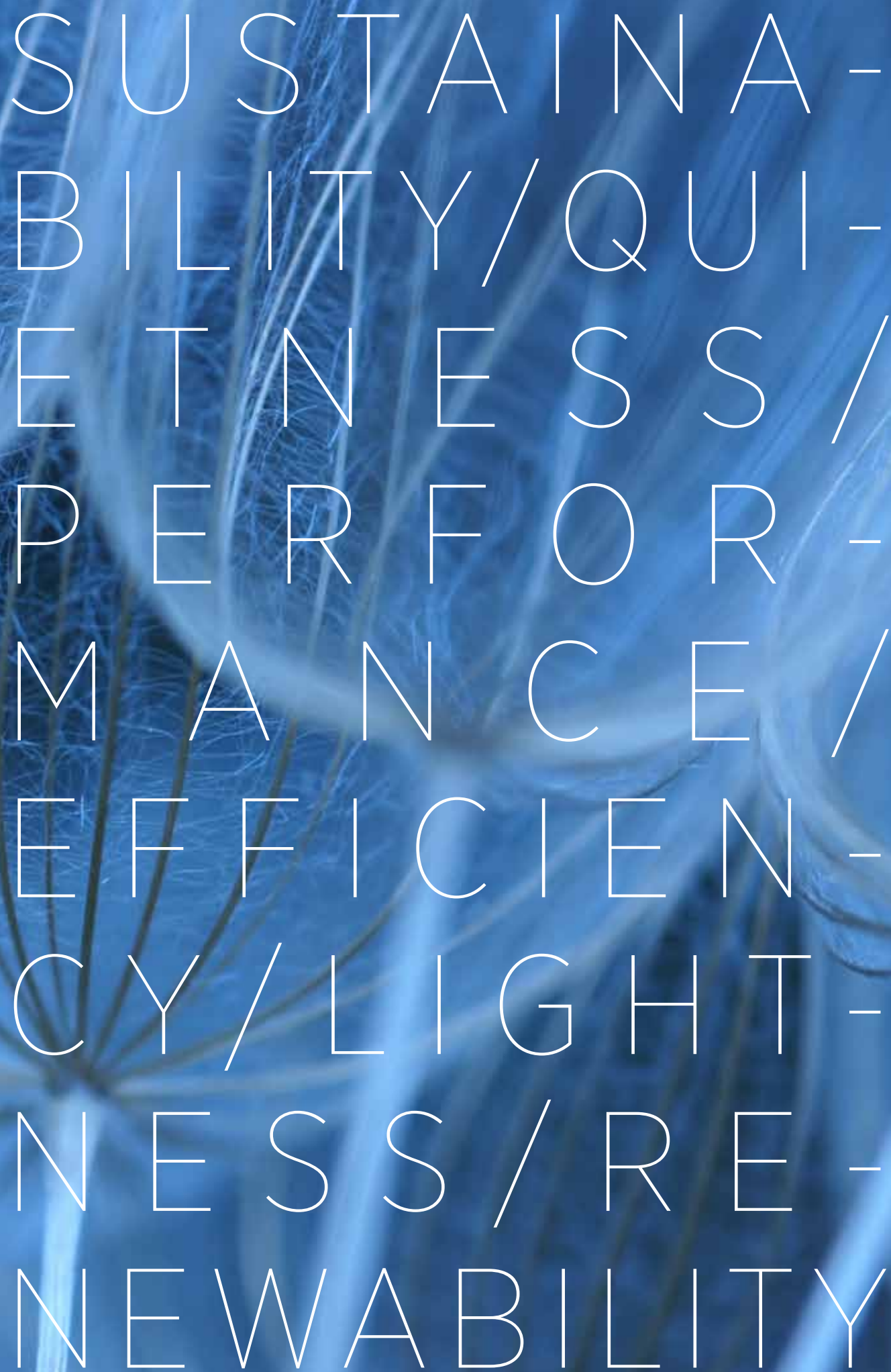
VSA F1Z40C EC-ZE	VSA F2S10C EC-ZE	VSA F2S12C EC-ZE	VSA F2V15C EC-ZE	VSA F2V20C EC-ZE	VSA F2V25C EC-ZE	VSA F2Z30A EC-ZE	VSA F2Z40A EC-ZE	VSA F4S10A EC-ZE	VSA F4S12A EC-ZE	VSA F4V15A EC-ZE
HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE	HF01234ZE
58.39	41.66	46.32	57.98	63.92	78.7	95.22	110.7	83.84	93.24	113.6
18.78	13.78	16.58	18.78	21.58	26.18	31.3	38.5	27.1	32.3	37.5
3.11	3.02	2.79	3.09	2.96	3.01	3.04	2.88	3.09	2.89	3.03
A	B	C	B	B	B	B	C	B	C	B
4.27	4.03	4.01	4.14	4.21	4.11	4.41	4.14	4.4	4.33	4.25
55	52	53	53	55	56	57	58	55	56	56
10	10	10	10	10	10	10	10	10	10	10
Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.
1	2	2	2	2	2	2	2	4	4	4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
35	35	35	35	35	35	35	35	35	35	35
M	M	M	M	M	M	M	M	M	M	M
-	-	-	-	-	-	-	-	-	-	-
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
18.78	13.78	16.58	18.78	21.58	26.18	31.3	38.5	27.1	32.3	37.5
34.8	25.4	30.4	34.6	39.8	48.4	57.6	71.2	49.6	60	69.6
44.3	32.6	35.4	43.6	57.6	63	73.2	87.8	64.4	70	86.4
147.7	66.3	73.8	80.1	103.1	132.4	145	176.3	185.5	224.5	260.5
2560	2560	2560	2560	2560	2560	2560	2560	2410	2410	2410
1050	1050	1050	1050	1050	1050	1050	1050	2250	2250	2250
2500	2500	2500	2500	2500	2500	2560	2560	2560	2560	2560
1030	1030	1050	1160	1170	1230	1280	1310	1670	1720	1920
1030	1030	1050	1160	1170	1230	1280	1310	1670	1720	1920

VSA with EC fans



Air cooled chiller with scroll or reciprocating compressors, axial fans and Free Cooling for outdoor installation
 Chiller condensato ad aria con compressori scroll o a pistoni, ventilatori assiali e Free Cooling per installazione esterna

Greenmiser		VSA F4V20A EC-ZE	VSA F4V25A EC-ZE	VSA F4Z30A EC-ZE	VSA F4Z40A EC-ZE		
CHILLER PERFORMANCE							
Refrigerant		HFO1234ZE	HFO1234ZE	HFO1234ZE	HFO1234ZE		
Total cooling capacity	kW	125.96	164.84	190.44	231.84		
Nominal power input	kW	43.1	53.8	62.6	74.6		
E.E.R.	Coef.	2.92	3.06	3.04	3.11		
Energy class		B	B	B	A		
E.S.E.E.R.	Coef.	4.19	4.52	4.59	4.8		
Noise Pressure Level	dB(A)	58	59	60	61		
Distance	m	10	10	10	10		
WORKING CONDITIONS							
Compressors type	Type	Recip.	Recip.	Recip.	Recip.		
Compressors number	n°	4	4	4	4		
Evaporation temp.	°C	1.5	1.5	1.5	1.5		
Ambient temp.	°C	35	35	35	35		
Condenser coil type (*1)	Type	M	M	M	M		
Evaporator type (*2)	Type	-	-	-	-		
Power circuit voltage	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50		
Control circuit voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50		
Total power input	kW	43.1	53.8	62.6	74.6		
Total running current	A	79.6	99.2	115.2	138		
Total max current	A	114.4	130.8	146.4	175.6		
Total starting current	A	305.6	371.9	431.9	522.8		
DIMENSIONS							
Length with cabinet	mm	2410	2410	2410	4510		
Width	mm	2250	2250	2250	2250		
Height	mm	2560	2560	2560	2560		
Shipping weight	kg	1950	2150	2260	3010		
Operating weight	kg	1950	2150	2260	3010		
(*1) M: Microchannels							



SUSTAINA-
BILITY/QUI-
ETNESS/
PERFOR-
MANCE/
EFFICIEN-
CY/LIGHT-
NESS/RE-
NEWABILITY





Range